



The bidi Package

Source documentation for [version 25.09.08](#)

*to my Master, **Ferdowsi The Great***

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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The *bidi* Package

Bidirectional typesetting with plain \TeX and \LaTeX formats in Xe \TeX and Lua \TeX engines

Source documentation for [version 25.09.08](#)

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September 8, 2025

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1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefntext{%
46       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}%
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent{z@ \parskip{z@\@plus.3\p@}\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```




```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
199 }{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\csname r@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi
218     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \@RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnfntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \@RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnfntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308   \def\@noitemerr{\@latex@warning{Empty 'thebibliography' environment}}%
309   \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312   \begingroup
313   \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \@topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

5 File amsmath-xetex-bidi.def

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\nocounterr{#2}}{%
341 \ifundefined{c@#3}{\nocnterr{#3}}{%
342 \@addtoreset{#2}{#3}%
343 \@xp\xdef\csname the#2\endcsname{%
344 \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

6 File amstext-xetex-bidi.def

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

7 File amsthm-xetex-bidi.def



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2025/09/04 v0.6 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
387 \def\@tabular{%
388 \leavevmode
389 \UseTaggingSocket{tbl/hmode/begin}%
390 \hbox \bgroup\if@RTLtab\beginR \fi
391 \MathCollectFalse$\MathCollectTrue
392 \col@sep\tabcolsep \let\d@llarbegin\begin\group
393 \let\d@llarend\end\group
394 \@kernel@tabular@init
395 \@tabarray}
396 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
397 \UseTaggingSocket{tbl/hmode/end}%
398 }
399 \expandafter\let\csname endtabular*\endcsname=\endtabular
400 \ExplSyntaxOn
401 \def\@array[#1]#2{
402 \@tempdima \ht \strutbox
403 \advance \@tempdima by\extrarowheight
404 \setbox \@arstrutbox \hbox{\vrule
405 \@height \arraystretch \@tempdima
406 \@depth \arraystretch \dp \strutbox
407 \@width \z@}%
408 \tbl_save_outer_table_cols:
409 \begin\group

```



```

410 \@mkpream{#2}%
411 \tbl_count_table_cols:
412 \xdef\@preamble{
413   \noexpand \ar@ialign
414   \@halignto
415   \bgroup \@arstrut
416   \UseTaggingSocket{tbl/row/begin}
417   \tbl_init_cell_data_for_row:
418   \@preamble
419   \tabskip \z@ \cr}
420 \endgroup
421 \@arrayleft
422 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
423 \bgroup
424 \let \@sharp ##\let \protect \relax
425 \lineskip \z@
426 \baselineskip \z@
427 \mathsurround \z@
428 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
429 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
430 \UseTaggingSocket{tbl/init}
431 \@preamble
432 }
433 \ExplSyntaxOff
434 \let\@array\@array
435 \ExplSyntaxOn
436 \def\endarray {
437   \tbl_crcr:n{endarray}
438   \tag_socket_use_expandable:n { math/luamml/array/save }
439   \egroup
440   \tag_socket_use:n { tbl/finalize }
441   \tbl_restore_outer_cell_data:
442   \if@RTLtab\egroup\endR\egroup\fi
443   \egroup
444   \tag_socket_use:n { math/luamml/array/finalize }
445   \@arrayright \gdef\@preamble{}%
446 }
447 \ExplSyntaxOff
448 \def\array{\col@sep\arraycolsep
449   \def\d@llarbegin{$\tag_socket_use:n { math/luamml/array/initcol }}
450   \def\d@llarend
451   {
452     \tag_socket_use:nn { math/luamml/save/nn }{{}{mtd}}
453     $
454     \tag_socket_use:nn { math/luamml/array/finalizecol}{\the\@chnum}
455   }
456   \def\@halignto{}%
457   \@RTLtabfalse
458   \@tabarray}

```

9 File article-xetex-bidi.def

```

459 \ProvidesFile{article-xetex-bidi.def}[2025/09/08 v1.1 bidi adaptations for standard article
460 \IfClassLoadedT{svmult}{\endinput}

```



```

461 \if@titlepage
462   \renewcommand\maketitle{\begin{titlepage}%
463     \let\footnotesize\small
464     \let\right@footnoterule\relax
465     \let\left@footnoterule\relax
466     \let\textwidth@footnoterule\relax
467     \let \footnote \thanks
468     \let \LTRfootnote \LTRthanks
469     \let \RTLfootnote \RTLthanks
470     \null\vfil
471     \vskip 60\p@
472     \begin{center}%
473       {\LARGE \@title \par}%
474       \vskip 3em%
475       {\large
476         \lineskip .75em%
477         \begin{tabular}[t]{c}%
478           \@author
479         \end{tabular}\par}%
480       \vskip 1.5em%
481       {\large \@date \par}%           % Set date in \large size.
482     \end{center}\par
483     \@thanks
484     \vfil\null
485   \end{titlepage}%
486   \setcounter{footnote}{0}%
487   \global\let\thanks\relax
488   \global\let\LTRthanks\relax
489   \global\let\RTLthanks\relax
490   \global\let\maketitle\relax
491   \global\let\@thanks\@empty
492   \global\let\@author\@empty
493   \global\let\@date\@empty
494   \global\let\@title\@empty
495   \global\let\title\relax
496   \global\let\author\relax
497   \global\let\date\relax
498   \global\let\and\relax
499 }
500 \else
501 \renewcommand\maketitle{\par
502   \begingroup
503     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
504     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
505     \long\def\@makefntext##1{\parindent 1em\noindent
506       \hb@xt@1.8em{%
507         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
508     \if@twocolumn
509       \ifnum \col@number=\@ne
510         \@maketitle
511       \else
512         \twocolumn[\@maketitle]%
513       \fi
514     \else

```



```

515     \newpage
516     \global\@topnum\z@    % Prevents figures from going at top of page.
517     \@maketitle
518     \fi
519     \thispagestyle{plain}\@thanks
520 \endgroup
521 \setcounter{footnote}{0}%
522 \global\let\thanks\relax
523 \global\let\LTRthanks\relax
524 \global\let\RTLthanks\relax
525 \global\let\maketitle\relax
526 \global\let\@maketitle\relax
527 \global\let\@thanks\@empty
528 \global\let\@author\@empty
529 \global\let\@date\@empty
530 \global\let\@title\@empty
531 \global\let\title\relax
532 \global\let\author\relax
533 \global\let\date\relax
534 \global\let\and\relax
535 }
536 \def\@maketitle{%
537   \newpage
538   \null
539   \vskip 2em%
540   \begin{center}%
541     \let \footnote \thanks
542     \let \LTRfootnote \LTRthanks
543     \let \RTLfootnote \RTLthanks
544     {\LARGE \@title \par}%
545     \vskip 1.5em%
546     {\large
547       \lineskip .5em%
548       \begin{tabular}[t]{c}%
549         \@author
550       \end{tabular}\par}%
551     \vskip 1em%
552     {\large \@date}%
553   \end{center}%
554   \par
555   \vskip 1.5em}
556 \fi
557 \renewcommand*\l@part[2]{%
558   \ifnum \c@tocdepth >-2\relax
559     \addpenalty\@secpenalty
560     \addvspace{2.25em \@plus\p@}%
561     \setlength\@tempdima{3em}%
562     \begin{group}
563       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
564       \parfillskip -\@pnumwidth
565       {\leavevmode
566         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
567       \nobreak
568       \if@compatibility

```




```

569         \global\@nbreaktrue
570         \everypar{\global\@nbreakfalse\everypar{}}}%
571     \fi
572 \endgroup
573 \fi}
574 \renewcommand*\l@section[2]{%
575     \ifnum \c@tocdepth >\z@
576         \addpenalty\@secpenalty
577         \addvspace{1.0em \@plus\p@}%
578         \setlength\@tempdima{1.5em}%
579         \begingroup
580             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
581             \parfillskip -\@pnumwidth
582             \leavevmode \bfseries
583             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
584             \hskip -\if@RTL\rightskip\else\leftskip\fi
585             #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
586         \endgroup
587     \fi}
588 \renewcommand\left@footnoterule{%
589     \kern-3\p@
590     \hrule\@width.4\columnwidth
591     \kern2.6\p@}
592 \renewcommand\right@footnoterule{%
593     \kern-3\p@
594     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
595     \kern2.6\p@}
596 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
597 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
598 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
599 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
600 \ApplyPatchIfPackageLoaded{nameref}{%
601     \bidi@patchcmd\NR@part\raggedright{%
602         \if@RTL\raggedleft\else\raggedright\fi
603     }{\bidi@warningnoline{Oops! patching `\'string\NR@part' failed}}}%
604     \bidi@patchcmd\NR@spart\raggedright{%
605         \if@RTL\raggedleft\else\raggedright\fi
606     }{\bidi@warningnoline{Oops! patching `\'string\NR@spart' failed}}}%
607 }{%
608     \bidi@patchcmd\@part\raggedright{%
609         \if@RTL\raggedleft\else\raggedright\fi
610     }{\bidi@warningnoline{Oops! patching `\'string\@part' failed}}}%
611     \bidi@patchcmd\@spart\raggedright{%
612         \if@RTL\raggedleft\else\raggedright\fi
613     }{\bidi@warningnoline{Oops! patching `\'string\@spart' failed}}}%
614 }
615 \renewenvironment{thebibliography}[1]
616     {\section*{\refname}%
617         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
618         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
619         \bidi@@thebibliography@font@hook%
620         \list{\@biblabel{\@arabic\c@enumiv}}%
621             {\settowidth\labelwidth{\@biblabel{#1}}%
622             \leftmargin\labelwidth

```



```

623         \advance\leftmargin\labelsep
624         \@openbib@code
625         \usecounter{enumiv}%
626         \let\p@enumiv\@empty
627         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
628     \sloppy
629     \clubpenalty4000
630     \@clubpenalty \clubpenalty
631     \widowpenalty4000%
632     \sfcode`. \@m}
633     {\def\@noitemerr
634      {\@latex@warning{Empty `thebibliography' environment}}}%
635     \endlist}
636 \renewenvironment{theindex}
637     {\if@twocolumn
638      \@restonecolfalse
639      \else
640      \@restonecoltrue
641      \fi
642      \columnseprule \z@
643      \columnsep 35\p@
644      \twocolumn[\section*{\indexname}}%
645      \@mkboth{\MakeUppercase\indexname}%
646              {\MakeUppercase\indexname}}%
647      \thispagestyle{plain}\parindent\z@
648      \parskip\z@ \@plus .3\p@\relax
649      \let\item\@idxitem}
650      {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

651 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
652 \renewenvironment{theindex}{%
653   \if@twocolumn
654     \@restonecolfalse
655   \else
656     \@restonecoltrue
657   \fi
658   \columnseprule \z@
659   \columnsep 35\p@
660   \twocolumn[\section*{\indexname}}%
661   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
662   \thispagestyle{plain}\parindent\z@
663   \parskip\z@ \@plus .3\p@\relax
664   \let\item\@idxitem
665   }{%
666   \if@restonecol\onecolumn\else\clearpage\fi}
667 \renewcommand*\head@style{%
668   \interlinepenalty \@M
669   \hyphenpenalty=\@M \exhyphenpenalty=\@M
670   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
671 \if@titlepage
672   \renewenvironment{abstract}{%
673     \titlepage

```



```

674     \null\vfil
675     \section*{\SectFont\abstractname}
676     \noindent\ignorespaces}
677     {\par\vfil\null\endtitlepage}
678 \else
679 \renewenvironment{abstract}{%
680     \if@twocolumn
681     \section*{\abstractname}%
682     \else
683     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
684     \section*{\small\SectFont\abstractname}%
685     \noindent\ignorespaces
686     \fi}
687     {\if@twocolumn\else\par\egroup\fi}
688 \fi
689 \renewcommand*\@regtocline[3]{%
690     \ifnum #1>\c@tocdepth
691     \else
692     \vskip\z@\@plus.2\p@
693     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
694     \if@RTL\rightskip\else\leftskip\fi\unitindent
695     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
696     \parfillskip\z@
697     \@tempdima\unitindent
698     \parindent\z@
699     \leavevmode
700     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
701     \hskip 1em \nobreak{\slshape #3}\par
702     }%
703     \fi}
704 \if@oldtoc
705 \renewcommand*\l@part[2]{%
706     \ifnum \c@tocdepth >-2\relax
707     \addpenalty\@secpenalty
708     \addvspace{2.25em \@plus\p@}%
709     \begingroup
710     \setlength\@tempdima{3em}%
711     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
712     \parfillskip -\@pnumwidth
713     {\leavevmode
714     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
715     \nobreak
716     \if@compatibility
717     \global\@nobreaktrue
718     \everypar{\global\@nobreakfalse\everypar{}}%
719     \fi
720     \endgroup
721     \fi}
722 \else
723 \renewcommand*\l@part{%
724     \ifnum \c@tocdepth >-2\relax
725     \addpenalty\@secpenalty
726     \addvspace{2.25em \@plus \p@}%
727     \@regtocline{0}%

```



```

728 \fi}
729 \fi
730 \if@oldtoc
731 \renewcommand*{\l@section[2]{%
732 \addpenalty\@secpenalty
733 \addvspace{1.0em \@plus\p@}%
734 \setlength\@tempdima{1.5em}%
735 \begingroup
736 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
737 \parfillskip -\@pnumwidth
738 \leavevmode \bfseries
739 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
740 \hskip -\if@RTL\rightskip\else\leftskip\fi
741 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
742 \endgroup}
743 \else
744 \renewcommand*{\l@section{\@regtocline{1}}
745 \fi
746 \renewcommand*{\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
747 \renewcommand*{\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
748 \renewcommand*{\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
749 \renewcommand*{\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
750 \renewenvironment{thebibliography}[1]
751 {\section*{\refname}%
752 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
753 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
754 \bidi@thebibliography@font@hook%
755 \list{\@biblabel{\@arabic\c@enumiv}}%
756 {\settowidth\labelwidth{\@biblabel{#1}}%
757 \leftmargin\labelwidth
758 \advance\leftmargin\labelsep
759 \@openbib@code
760 \usecounter{enumiv}%
761 \let\p@enumiv\@empty
762 \renewcommand*{\theenumiv{\@arabic\c@enumiv}}%
763 \sloppy\clubpenalty4000\widowpenalty4000%
764 \sfcode\.\@m}
765 {\def\@noitemerr
766 {\@latex@warning{Empty 'thebibliography' environment}}}%
767 \endlist}
768 \renewcommand*{\left@footnoterule{%
769 \kern-3\p@
770 \kern.5\baselineskip
771 \hrule\@width\unitindent
772 \kern.4\baselineskip
773 }
774 \renewcommand*{\right@footnoterule{%
775 \kern-3\p@
776 \kern.5\baselineskip
777 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
778 \kern.4\baselineskip}
779 \if@titlepage
780 \renewcommand*{\TitleFont{\rmfamily}
781 \renewcommand*{\maketitle{%

```



```

782 \begin{titlepage}%
783   \let\footnotesize\small
784   \let\right@footnoterule\relax
785   \let\left@footnoterule\relax
786   \let\textwidth@footnoterule\relax
787   \let \footnote \thanks
788   \long\def\@makefntext##1{\parindent\z@
789     \def\labelitemi{\textendash}\@revlabeltrue
790     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
791   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
792   \if@compatibility\setcounter{page}{0}\fi
793   \null\vfil
794   \vskip 60\p@
795   \begin{center}%
796     \TitleFont
797     {\LARGE \def\\{\penalty -\@M}
798       \if@allcaps
799         \expandafter\uc@nothanks\@title\thanks\relax
800       \else
801         \@title
802       \fi\par}%
803   \vskip 3em%
804   {\large
805     \lineskip .75em \parindent\z@
806     \begin{tabular}[t]{c}%
807       \if@allcaps
808         \expandafter\uc@authornothanks\@author\and\relax
809       \else
810         \@author
811       \fi
812     \end{tabular}\par}%
813   \vskip 1.5em%
814   {\large
815     \if@allcaps
816       \uppercase\expandafter{\@date}%
817     \else
818       \@date
819     \fi\par}%
820   \end{center}\par
821   \@thanks
822   \vfil\null
823 \end{titlepage}%
824 \setcounter{footnote}{0}%
825 \global\let\thanks\relax
826 \global\let\maketitle\relax
827 \global\let\@thanks\@empty
828 \global\let\@author\@empty
829 \global\let\@title\@empty
830 \global\let\@date\@empty
831 \global\let\title\relax
832 \global\let\author\relax
833 \global\let\date\relax
834 \global\let\and\relax
835 }

```



```

836 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
837 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
838     \futurelet\@tempa\uc@ax}
839 \def\uc@ax{%
840     \ifx\@tempa\relax
841     \else
842         \\\andname \\\expandafter\uc@authornothanks
843     \fi}
844 \def\uc@tx{\ifx\@tempa\relax
845     \else \expandafter\uc@ty \fi}
846 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
847 \else
848 \renewcommand*\maketitle{\par
849     \begin{group}
850     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
851     \def\@makefnmark{\rlap{%
852         \@textsuperscript{\normalfont\@thefnmark}}}%
853     \long\def\@makefntext{\@xmakefntext{%
854         \@textsuperscript{\normalfont\@thefnmark}}}%
855     \if@twocolumn
856         \ifnum \col@number=\@one
857             \@maketitle
858         \else
859             \twocolumn[\@maketitle]%
860         \fi
861     \else
862         \newpage
863         \global\@topnum\z@
864         \@maketitle
865     \fi
866     \thispagestyle{plain}\@thanks
867 \end{group}
868 \setcounter{footnote}{0}%
869 \global\let\thanks\relax
870 \global\let\maketitle\relax
871 \global\let\@maketitle\relax
872 \global\let\@thanks\@empty
873 \global\let\@author\@empty
874 \global\let\@title\@empty
875 \global\let\@date\@empty
876 \global\let\title\relax
877 \global\let\author\relax
878 \global\let\date\relax
879 \global\let\and\relax
880 }
881 \def\@maketitle{%
882     \newpage
883     \null
884     \vskip 2em%
885     \begin{center}%
886         \let \footnote \thanks
887         {\LARGE \TitleFont \@title \par}%
888         \vskip 1.5em%
889         {\large \TitleFont

```



```

890     \lineskip .5em%
891     \begin{tabular}[t]{c}%
892         \@author
893     \end{tabular}\par}%
894     \vskip 1em%
895     {\large \TitleFont \@date}%
896 \end{center}%
897 \par
898 \vskip 1.5em}
899 \fi

```

11 File artikel2-xetex-bidi.def

```

900 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
901 \renewenvironment{theindex}{%
902     \if@twocolumn
903         \@restonecolfalse
904     \else
905         \@restonecoltrue
906     \fi
907     \columnseprule \z@
908     \columnsep 35\p@
909     \twocolumn[{\section*{\indexname}}]%
910     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
911     \thispagestyle{plain}\parindent\z@
912     \parskip\z@ \@plus .3\p@\relax
913     \let\item\@idxitem
914     }{%
915     \if@restonecol\onecolumn\else\clearpage\fi}
916 \renewcommand*\@regtocline[3]{%
917     \ifnum #1>\c@tocdepth
918     \else
919         \vskip\z@ \@plus .2\p@
920         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
921         \if@RTL\rightrightskip\else\leftskip\fi\unitindent
922         \if@RTL\leftskip\else\rightrightskip\fi\unitindent\@plus 1fil
923         \parfillskip\z@
924         \@tempdima\unitindent
925         \advance\@tempdima by \othermargin
926         \parindent\z@
927         \leavevmode
928         \hbox{} \hskip -\if@RTL\rightrightskip\else\leftskip\fi\relax#2\nobreak
929         \hskip 1em \nobreak{\slshape #3}\par
930     }%
931     \fi}
932 \if@oldtoc
933 \renewcommand*\l@section[2]{%
934     \addpenalty\@secpenalty
935     \addvspace{1.0em \@plus\p@}%
936     \setlength\@tempdima{1.5em}%
937     \begingroup
938     \parindent \z@ \if@RTL\leftskip\else\rightrightskip\fi \@pnumwidth
939     \parfillskip -\@pnumwidth
940     \leavevmode \bfseries

```



```

941 \advance\if@RTL\rightright\else\leftskip\fi\@tempdima
942 \hskip -\if@RTL\rightright\else\leftskip\fi
943 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
944 \endgroup}
945 \else
946 \renewcommand*\l@section{\@regtocline{1}}
947 \fi
948 \if@oldtoc
949 \renewcommand*\l@part[2]{%
950 \ifnum \c@tocdepth >-2\relax
951 \addpenalty\@secpenalty
952 \addvspace{2.25em \@plus\p@}%
953 \begingroup
954 \setlength\@tempdima{3em}%
955 \parindent \z@ \if@RTL\leftskip\else\rightright\fi \@pnumwidth
956 \parfillskip -\@pnumwidth
957 {\leavevmode
958 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
959 \nobreak
960 \if@compatibility
961 \global\@nobreaktrue
962 \everypar{\global\@nobreakfalse\everypar{}}%
963 \fi
964 \endgroup
965 \fi}
966 \else
967 \renewcommand*\l@part{%
968 \ifnum \c@tocdepth >-2\relax
969 \addpenalty\@secpenalty
970 \addvspace{2.25em \@plus \p@}%
971 \@regtocline{0}%
972 \fi}
973 \fi
974 \renewcommand*\head@style{%
975 \interlinepenalty \@M
976 \hyphenpenalty=\@M \exhyphenpenalty=\@M
977 \if@RTL\leftskip\else\rightright\fi=0cm plus .7\hsize\relax}
978 \if@titlepage
979 \renewenvironment{abstract}{%
980 \titlepage
981 \null\vfil
982 \section*{\SectFont\abstractname}%
983 \noindent\ignorespaces}
984 {\par\vfil\null\endtitlepage}
985 \else
986 \renewenvironment{abstract}{%
987 \if@twocolumn
988 \section*{\abstractname}%
989 \else
990 \section*{\hskip\unitindent\small\SectFont\abstractname}%
991 \list{}{\setlength\listparindent{\unitindent}%
992 \setlength\parindent {\z@}%
993 \setlength\leftmargin {\unitindent}%
994 \setlength\rightmargin {\unitindent}%

```




```

995         \setlength\parsep      {\z@}}%
996         \item[]%
997     \fi}
998     {\if@twocolumn\else\par\endlist\fi}
999 \fi
1000 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1001 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1002 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1003 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1004 \renewcommand*\left@footnoterule{%
1005     \kern-3\p@
1006     \hrule\@width 3\unitindent
1007     \kern 2.6\p@
1008 }
1009 \renewcommand*\right@footnoterule{%
1010     \kern-3\p@
1011     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1012     \kern 2.6\p@}
1013 \renewenvironment{thebibliography}[1]
1014     {\section*{\refname}%
1015         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1016         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1017         \bidi@thebibliography@font@hook%
1018         \list{\@biblabel{\@arabic\c@enumiv}}%
1019             {\settowidth\labelwidth{\@biblabel{#1}}%
1020             \leftmargin\labelwidth
1021             \advance\leftmargin\labelsep
1022             \@openbib@code
1023             \usecounter{enumiv}%
1024             \let\p@enumiv\@empty
1025             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1026         \sloppy\clubpenalty4000\widowpenalty4000%
1027         \sfcode`. \@m}
1028     {\def\@noitemerr
1029         {\@latex@warning{Empty `thebibliography' environment}}}%
1030     \endlist}
1031 \if@titlepage
1032 \renewcommand*\TitleFont{\rmfamily}
1033 \renewcommand*\maketitle{%
1034     \begin{titlepage}%
1035         \let\footnotesize\small
1036         \let\right@footnoterule\relax
1037         \let\left@footnoterule\relax
1038         \let\textwidth\footnoterule\relax
1039         \let \footnote \thanks
1040         \long\def\@makefntext##1{\parindent\z@
1041             \def\labelitemi{\textendash}\@revlabeltrue
1042             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1043         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1044         \if@compatibility\setcounter{page}{0}\fi
1045         \null\vfil
1046         \vskip 60\p@
1047         \begin{center}%
1048             \TitleFont

```



```

1049     {\LARGE \def\\{\penalty -\@M}
1050         \if@allcaps
1051             \expandafter\uc@nothanks\@title\thanks\relax
1052         \else
1053             \@title
1054             \fi\par}%
1055     \vskip 3em%
1056     {\large
1057         \lineskip .75em \parindent\z@
1058         \begin{tabular}[t]{c}%
1059             \if@allcaps
1060                 \expandafter\uc@authornothanks\@author\and\relax
1061             \else
1062                 \@author
1063             \fi
1064         \end{tabular}\par}%
1065     \vskip 1.5em%
1066     {\large
1067         \if@allcaps
1068             \uppercase\expandafter{\@date}%
1069         \else
1070             \@date
1071         \fi\par}%
1072     \end{center}\par
1073     \@thanks
1074     \vfil\null
1075 \end{titlepage}%
1076 \setcounter{footnote}{0}%
1077 \global\let\thanks\relax
1078 \global\let\maketitle\relax
1079 \global\let\@thanks\@empty
1080 \global\let\@author\@empty
1081 \global\let\@title\@empty
1082 \global\let\@date\@empty
1083 \global\let\title\relax
1084 \global\let\author\relax
1085 \global\let\date\relax
1086 \global\let\and\relax
1087 }
1088 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1089 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1090     \futurelet\@tempa\uc@ax}
1091 \def\uc@ax{%
1092     \ifx\@tempa\relax
1093     \else
1094         \ \ \andname \ \ \expandafter\uc@authornothanks
1095     \fi}
1096 \def\uc@tx{\ifx\@tempa\relax
1097     \else \expandafter\uc@ty \fi}
1098 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1099 \else
1100 \renewcommand*\maketitle{\par
1101     \begingroup
1102     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

1103 \long\def\@makefntext##1{\parindent\z@
1104 \def\labelitemi{\textendash}%
1105 \leavevmode\hb@xt@.5\unitindent{%
1106 \textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1107 \if@twocolumn
1108 \ifnum \col@number=\@ne
1109 \maketitle
1110 \else
1111 \twocolumn[\maketitle]%
1112 \fi
1113 \else
1114 \newpage
1115 \global\@topnum\z@
1116 \maketitle
1117 \fi
1118 \thispagestyle{plain}\@thanks
1119 \endgroup
1120 \setcounter{footnote}{0}%
1121 \global\let\thanks\relax
1122 \global\let\maketitle\relax
1123 \global\let\@maketitle\relax
1124 \global\let\@thanks\@empty
1125 \global\let\@author\@empty
1126 \global\let\@title\@empty
1127 \global\let\@date\@empty
1128 \global\let\title\relax
1129 \global\let\author\relax
1130 \global\let\date\relax
1131 \global\let\and\relax
1132 }
1133 \def\@maketitle{%
1134 \newpage
1135 \null
1136 \vskip 2em%
1137 \begin{center}%
1138 \let \footnote \thanks
1139 {\LARGE \TitleFont \@title \par}%
1140 \vskip 1.5em%
1141 {\large \TitleFont
1142 \lineskip .5em%
1143 \begin{tabular}[t]{c}%
1144 \author
1145 \end{tabular}\par}%
1146 \vskip 1em%
1147 {\large \TitleFont \@date}%
1148 \end{center}%
1149 \par
1150 \vskip 1.5em}
1151 \fi

```

12 File artikel3-xetex-bidi.def

```

1152 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1153 \renewenvironment{theindex}{%

```



```

1154 \if@twocolumn
1155 \@restonecolfalse
1156 \else
1157 \@restonecoltrue
1158 \fi
1159 \columnseprule \z@
1160 \columnsep 35\p@
1161 \twocolumn[\section*{\indexname}]%
1162 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1163 \thispagestyle{plain}\parindent\z@
1164 \parskip\z@ \@plus .3\p@\relax
1165 \let\item\@idxitem
1166 }{%
1167 \if@restonecol\onecolumn\else\clearpage\fi}
1168 \renewcommand*\head@style{%
1169 \interlinepenalty \@M
1170 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1171 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1172 \renewcommand*\@regtocline[3]{%
1173 \ifnum #1>\c@tocdepth
1174 \else
1175 \vskip\z@ \@plus .2\p@
1176 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
1177 \if@RTL\rightskip\else\leftskip\fi\unitindent
1178 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1179 \parfillskip\z@
1180 \@tempdima\unitindent
1181 \parindent\z@
1182 \leavevmode
1183 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1184 \hskip 1em \nobreak{\slshape #3}\par
1185 }%
1186 \fi}
1187 \if@oldtoc
1188 \renewcommand*\l@part[2]{%
1189 \ifnum \c@tocdepth >-2\relax
1190 \addpenalty\@secpenalty
1191 \addvspace{2.25em \@plus\p@}%
1192 \begingroup
1193 \setlength\@tempdima{3em}%
1194 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1195 \parfillskip -\@pnumwidth
1196 {\leavevmode
1197 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1198 \nobreak
1199 \if@compatibility
1200 \global\@nobreaktrue
1201 \everypar{\global\@nobreakfalse\everypar{}}%
1202 \fi
1203 \endgroup
1204 \fi}
1205 \else
1206 \renewcommand*\l@part{%
1207 \ifnum \c@tocdepth >-2\relax

```



```

1208 \addpenalty\@secpenalty
1209 \addvspace{2.25em \@plus \p@}%
1210 \@regtocline{0}%
1211 \fi}
1212 \fi
1213
1214 \if@oldtoc
1215 \renewcommand*\l@section[2]{%
1216 \addpenalty\@secpenalty
1217 \addvspace{1.0em \@plus \p@}%
1218 \setlength\@tempdima{1.5em}%
1219 \begingroup
1220 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1221 \parfillskip -\@pnumwidth
1222 \leavevmode \bfseries
1223 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1224 \hskip -\if@RTL\rightskip\else\leftskip\fi
1225 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1226 \endgroup}
1227 \else
1228 \renewcommand*\l@section{\@regtocline{1}}
1229 \fi
1230 \if@titlepage
1231 \renewenvironment{abstract}{%
1232 \titlepage
1233 \null\vfil
1234 \section*{\SectFont\abstractname}%
1235 \noindent\ignorespaces}
1236 {\par\vfil\null\endtitlepage}
1237 \else
1238 \renewenvironment{abstract}{%
1239 \if@twocolumn
1240 \section*{\abstractname}%
1241 \else
1242 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1243 \section*{\small\SectFont\abstractname}%
1244 \noindent\ignorespaces
1245 \fi}
1246 {\if@twocolumn\else\par\egroup\fi}
1247 \fi
1248 \renewcommand*\left@footnoterule{%
1249 \kern-3\p@
1250 \kern.5\baselineskip
1251 \hrule\@width\unitindent
1252 \kern.4\baselineskip
1253 }
1254 \renewcommand*\right@footnoterule{%
1255 \kern-3\p@
1256 \kern.5\baselineskip
1257 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1258 \kern.4\baselineskip}
1259 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1260 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1261 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}

```



```

1262 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1263 \renewenvironment{thebibliography}[1]
1264     {\section*{\refname}%
1265      \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1266      \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1267      \bidi@thebibliography@font@hook%
1268      \list{\@biblabel{\@arabic\c@enumiv}}%
1269          {\settowidth\labelwidth{\@biblabel{#1}}%
1270           \leftmargin\labelwidth
1271           \advance\leftmargin\labelsep
1272           \@openbib@code
1273           \usecounter{enumiv}%
1274           \let\p@enumiv\@empty
1275           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1276      \sloppy\clubpenalty4000\widowpenalty4000%
1277      \sfcode\.\@m}
1278     {\def\@noitemerr
1279      {\@latex@warning{Empty `thebibliography' environment}}}%
1280     \endlist}
1281 \if@titlepage
1282 \renewcommand*\TitleFont{\rmfamily}
1283 \renewcommand*\maketitle{%
1284     \begin{titlepage}%
1285         \let\footnotesize\small
1286         \let\right@footnoterule\relax
1287         \let\left@footnoterule\relax
1288         \let\textwidth\footnoterule\relax
1289         \let \footnote \thanks
1290         \long\def\@makefntext##1{\parindent\z@
1291             \def\labelitemi{\textendash}\@revlabeltrue
1292             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1293         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1294         \if@compatibility\setcounter{page}{0}\fi
1295         \null\vfil
1296         \vskip 60\p@
1297         \begin{center}%
1298             \TitleFont
1299             {\LARGE \def\\{\penalty -\@M}
1300              \if@allcaps
1301                  \expandafter\uc@nothanks\@title\thanks\relax
1302              \else
1303                  \@title
1304              \fi\par}%
1305         \vskip 3em%
1306         {\large
1307          \lineskip .75em \parindent\z@
1308          \begin{tabular}[t]{c}%
1309              \if@allcaps
1310                  \expandafter\uc@authornothanks\@author\and\relax
1311              \else
1312                  \@author
1313              \fi
1314          \end{tabular}\par}%
1315         \vskip 1.5em%

```



```

1316      {\large
1317        \if@allcaps
1318          \uppercase\expandafter{\@date}%
1319        \else
1320          \@date
1321        \fi\par}%
1322      \end{center}\par
1323      \@thanks
1324      \vfil\null
1325    \end{titlepage}%
1326    \setcounter{footnote}{0}%
1327    \global\let\thanks\relax
1328    \global\let\maketitle\relax
1329    \global\let\@thanks\@empty
1330    \global\let\@author\@empty
1331    \global\let\@title\@empty
1332    \global\let\@date\@empty
1333    \global\let\title\relax
1334    \global\let\author\relax
1335    \global\let\date\relax
1336    \global\let\and\relax
1337  }
1338  \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1339  \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1340    \futurelet\@tempa\uc@ax}
1341  \def\uc@ax{%
1342    \ifx\@tempa\relax
1343    \else
1344      \\\andname \\\expandafter\uc@authornothanks
1345    \fi}
1346  \def\uc@tx{\ifx\@tempa\relax
1347    \else \expandafter\uc@ty \fi}
1348  \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1349  \else
1350  \renewcommand*\maketitle{\par
1351    \begingroup
1352      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1353      \def\@makefnmark{\rlap{%
1354        \@textsuperscript{\normalfont\@thefnmark}}}%
1355      \long\def\@makefntext{\@xmakefntext{%
1356        \@textsuperscript{\normalfont\@thefnmark}}}%
1357      \if@twocolumn
1358        \ifnum \col@number=\@one
1359          \@maketitle
1360        \else
1361          \twocolumn[\@maketitle]%
1362        \fi
1363      \else
1364        \newpage
1365        \global\@topnum\z@
1366        \@maketitle
1367      \fi
1368      \thispagestyle{plain}\@thanks
1369    \endgroup

```



```

1370 \setcounter{footnote}{0}%
1371 \global\let\thanks\relax
1372 \global\let\maketitle\relax
1373 \global\let\@maketitle\relax
1374 \global\let\@thanks\@empty
1375 \global\let\@author\@empty
1376 \global\let\@title\@empty
1377 \global\let\@date\@empty
1378 \global\let\title\relax
1379 \global\let\author\relax
1380 \global\let\date\relax
1381 \global\let\and\relax
1382 }
1383 \def\@maketitle{%
1384 \newpage
1385 \null
1386 \vskip 2em%
1387 \if@titlecentered
1388 \begin{center}%
1389 \let \footnote \thanks
1390 {\LARGE \TitleFont \@title \par}%
1391 \vskip 1.5em%
1392 {\large \TitleFont
1393 \lineskip .5em%
1394 \begin{tabular}[t]{c}%
1395 \@author
1396 \end{tabular}\par}%
1397 \vskip 1em%
1398 {\large \TitleFont \@date}%
1399 \end{center}%
1400 \else
1401 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1402 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1403 \def\and{%%} \begin{tabular} has already started
1404 \end{tabular}\hskip 1em plus .17fil
1405 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1406 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1407 \vskip 1em {\large \TitleFont \@date}
1408 \fi
1409 \par
1410 \vskip 1.5em}
1411 \fi

```

13 File arydshln-xetex-bidi.def

```

1412 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1413 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTL\begin{array}\endR\egroup\fi\egroup}
1414 \def\endtabular{\endarray $\if@RTL\begin{array}\endR\fi\egroup}
1415 \expandafter\let\csname endtabular*\endcsname\endtabular
1416 \let\adl@array\@array
1417 \def\@array{\adl@everyvbox\everyvbox
1418 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1419 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1420 \let\adl@noalign\noalign

```




```

1421         \adl@array}
1422 \ifadl@usingarypkg
1423 \def\@testpach{\@chclass
1424 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1425 \ifnum \@lastchclass=7 5 \else
1426 \ifnum \@lastchclass=8 \tw@ \else
1427 \ifnum \@lastchclass=9 \thr@@
1428 \else \z@
1429 \ifnum \@lastchclass = 10 \else
1430 \edef\@nextchar{\expandafter\string\@nextchar}%
1431 \@chnum
1432 \if \@nextchar c\z@ \else
1433 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1434 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1435 \z@ \@chclass
1436 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1437 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1438 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1439 \if \@nextchar !6 \else
1440 \if \@nextchar @7 \else
1441 \if \@nextchar <8 \else
1442 \if \@nextchar >9 \else
1443 10
1444 \@chnum
1445 \if \@nextchar m\thr@@\else
1446 \if \@nextchar p4 \else
1447 \if \@nextchar b5 \else
1448 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1449 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1450
1451 \def\@classz{\@classx
1452 \@tempcnta \count@
1453 \prepnext@tok
1454 \@addtopreamble{\ifcase \@chnum
1455 \hfil
1456 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1457 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1458 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1459 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1460 \adl@endmbox\or
1461 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1462 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1463 \fi}\prepnext@tok}
1464 \def\adl@class@start{4}
1465 \def\adl@class@iiiorvii{7}
1466
1467 \else
1468 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1469 \ifnum \@lastchclass=\thr@@ 5\relax \else
1470 \z@ \if #1c\@chnum \z@ \else
1471 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1472 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1473 \@chclass
1474 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else

```



```

1475         \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1476         \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1477         \if #1@tw@ \else
1478         \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1479     \fi \fi \fi \fi \fi \fi \fi \fi}
1480
1481 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1482     \or \or \@addamp \or
1483     \@acolampacol \or \@firstampfalse \@acol \fi
1484     \edef\@preamble{\@preamble
1485         \ifcase \@chnum
1486             \hfil\adl@putlrc{$\relax\@sharp$}\hfil
1487             \or \adl@putlrc{$\relax\@sharp$}\hfil
1488             \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
1489 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1490     \or \or \@addamp \or
1491     \@acolampacol \or \@firstampfalse \@acol \fi
1492     \edef\@preamble{\@preamble
1493         \ifcase \@chnum
1494             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1495             \or \adl@putlrc{\@sharp\unskip}\hfil
1496             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1497 \def\adl@class@start{6}
1498 \def\adl@class@iiiorvii{3}
1499 \fi
1500 \ApplyPatchCodeToPackage{colortbl}{%
1501 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1502 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1503     \let\@endpbox\adl@org@endpbox}
1504 \let\adl@CT@setup\CT@setup
1505 \def\CT@setup{\adl@CT@setup
1506     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1507     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1508     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1509 \let\adl@act@CT@setup\CT@setup
1510 \def\@classz{\@classx
1511     \@tempcnta\count@ \prepnext@tok
1512     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1513     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1514     \expandafter\adl@extract@drsc
1515         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1516     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1517     \@addtopreamble{\if@RTL\beginL\fi%
1518         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1519         \ifcase \@chnum
1520             \hskip\stretch{.5}\kern\z@
1521             \dollarbegin
1522             \insert@column
1523             \dollarend\hskip\stretch{.5}%
1524         \or \dollarbegin \insert@column \dollarend \hfill
1525         \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1526         \or $\vcenter
1527             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1528         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox

```



```

1529         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1530         \fi
1531         \if@RTL\endR\fi\egroup\egroup
1532         \begingroup
1533             \CT@setup
1534             \CT@column@color
1535             \CT@row@color
1536             \CT@cell@color
1537             \CT@do@color
1538         \endgroup
1539         \@tempdima\ht\z@
1540         \advance\@tempdima\minrowclearance
1541         \vrule\@height\@tempdima\@width\z@
1542         \unhbox\z@\if@RTL\endL\fi}%
1543     \prepnext@tok}
1544 \let\adl@act@classz\@classz
1545 \let\adl@org@classz\@classz
1546 }

```

14 File beamer-xetex-bidi.def

```

1547 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1548 \AtBeginDocument{%
1549     \if@RTLmain
1550         \raggedleft
1551     \else
1552         \raggedright
1553     \fi
1554 }
1555
1556 \renewcommand*{\bidi@beamer@ragged}{%
1557     \if@RTL
1558         \raggedleft
1559     \else
1560         \raggedright
1561     \fi
1562 }
1563
1564

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1565 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1566 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1567
1568 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1569
1570 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1571
1572 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1573
1574 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1575
1576 \defbeamertemplate{subsection in toc}{sections numbered}

```



```

1577 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1578
1579 \defbeamertemplate{subsubsection in toc}{sections numbered}
1580 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}%
1581   \inserttocsubsubsection\par}
1582
1583 \defbeamertemplate{section in toc}{subsections numbered}
1584 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1585
1586 \defbeamertemplate{subsection in toc}{subsections numbered}
1587 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsubsection in toc}%
1588   \inserttocsubsubsection\par}
1589 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1590 {\leavevmode\normalsize\usebeamerfont{subsection in
1591   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1592   \inserttocsubsubsection\par}
1593
1594 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1595
1596 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1597
1598 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1599
1600 \defbeamertemplate{section in toc}{circle}
1601 {\leavevmode\bidi@beamer@leftskip=2ex%
1602   \llap{%
1603     \usebeamerfont*{section number projected}%
1604     \usebeamerfont{section number projected}%
1605     \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1606       \color{bg}
1607       \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1608       \pgfusepath{fill}
1609       \pgftext[base]{\color{fg}\inserttocsectionnumber}
1610     \end{pgfpicture}\kern1.25ex%
1611   }%
1612   \inserttocsection\par}
1613
1614 \defbeamertemplate{subsection in toc}{circle}
1615 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1616
1617 \defbeamertemplate{subsubsection in toc}{circle}
1618 {\leavevmode\normalsize\usebeamerfont{subsection in
1619   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1620   \inserttocsubsubsection\par}
1621
1622 \bidi@csundef{beamer@@tmpop@section in toc@square}
1623
1624 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1625
1626 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1627
1628 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1629
1630 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}

```



```

1631
1632 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1633
1634 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1635
1636 \defbeamertemplate{section in toc}{square}
1637 {\leavevmode\bidi@beamer@leftskip=3ex%
1638 \llap{%
1639 \usebeamerfont*{section number projected}%
1640 \usebeamercolor[bg]{section number projected}%
1641 \if@RTL
1642 \else
1643 \vrule width2.25ex height1.85ex depth.4ex%
1644 \hskip-2.25ex%
1645 \fi
1646 \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1647 \if@RTL
1648 \hskip-2.25ex%
1649 \vrule width2.25ex height1.85ex depth.4ex%
1650 \fi
1651 }\kern1.25ex}%
1652 \inserttocsection\par}
1653
1654 \defbeamertemplate{subsection in toc}{square}
1655 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1656 \usebeamercolor[bg]{subsection number projected}%
1657 \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1658
1659 \defbeamertemplate{subsubsection in toc}{square}
1660 {\leavevmode\normalsize\usebeamerfont{subsection in
1661 toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1662 \llap{%
1663 \usebeamercolor[bg]{subsubsection number projected}%
1664 \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1665
1666 \defbeamertemplate{enumerate item}{square}
1667 {
1668 \hbox{%
1669 \usebeamerfont*{item projected}%
1670 \usebeamercolor[bg]{item projected}%
1671 \if@RTL
1672 \else
1673 \vrule width2.25ex height1.85ex depth.4ex%
1674 \hskip-2.25ex%
1675 \fi
1676 \hbox to2.25ex{{%
1677 \hfil%
1678 \color{fg}\insertenumlabel%
1679 \hfil}}}%
1680 \if@RTL
1681 \hskip-2.25ex%
1682 \vrule width2.25ex height1.85ex depth.4ex%
1683 \fi
1684 }}%

```



```

1685 }
1686 [action]
1687 {\setbeamerfont{item projected}{size=\scriptsize}}
1688
1689 \defbeamertemplate{enumerate subitem}{square}
1690 {
1691   \hbox{%
1692     \usebeamerfont*{subitem projected}%
1693     \usebeamercolor[bg]{subitem projected}%
1694     \if@RTL
1695     \else
1696       \vrule width2.25ex height1.85ex depth.4ex%
1697       \hskip-2.25ex%
1698     \fi
1699     \hbox to2.25ex{%
1700       \hfil%
1701       \color{fg}\insertsubenumlabel%
1702       \hfil}}%
1703     \if@RTL
1704       \hskip-2.25ex%
1705       \vrule width2.25ex height1.85ex depth.4ex%
1706     \fi
1707   }}%
1708 }
1709
1710 \defbeamertemplate{enumerate subsubitem}{square}
1711 {
1712   \hbox{%
1713     \usebeamerfont*{subitem projected}%
1714     \usebeamercolor[bg]{subsubitem projected}%
1715     \if@RTL
1716     \else
1717       \vrule width2.25ex height1.85ex depth.4ex%
1718       \hskip-2.25ex%
1719     \fi
1720     \hbox to2.25ex{%
1721       \hfil%
1722       \color{fg}\insertsubsubenumlabel%
1723       \hfil}}%
1724     \if@RTL
1725       \hskip-2.25ex%
1726       \vrule width2.25ex height1.85ex depth.4ex%
1727     \fi
1728   }}%
1729 }
1730
1731 \defbeamertemplate{enumerate mini template}{square}
1732 {
1733   \hbox{%
1734     \usebeamerfont*{\beameritemnestingprefix item projected}%
1735     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1736     \if@RTL
1737     \else
1738       \vrule width2.25ex height1.85ex depth.4ex%

```



```

1739     \hskip-2.25ex%
1740     \fi
1741     \hbox to2.25ex{%
1742       \hfil%
1743       \color{fg}\insertenumlabel%
1744       \hfil}}%
1745     \if@RTL
1746       \hskip-2.25ex%
1747       \vrule width2.25ex height1.85ex depth.4ex%
1748     \fi
1749   }}%
1750 }
1751
1752 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1753
1754 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1755
1756 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1757
1758 \defbeamertemplate{section in toc}{ball unnumbered}
1759 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1760   \llap{%
1761     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1762   \inserttocsection\par}
1763
1764 \defbeamertemplate{subsection in toc}{ball unnumbered}
1765 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1766   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1767
1768 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1769 {\leavevmode\normalsize\usebeamerfont{subsection in
1770   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1771   \llap{%
1772     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1773
1774 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1775
1776 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1777
1778 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1779
1780 \defbeamertemplate{section in toc}{ball}
1781 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1782   \llap{%
1783     \normalsize%
1784     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1785       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1786       \pgftext{%
1787         \usebeamerfont*{section number projected}%
1788         \usebeamerfont*{section number projected}%
1789         \color{fg!90!bg}%
1790         \inserttocsectionnumber}
1791     \end{pgfpicture}%
1792     \kern1.25ex}%

```



```

1793 \inserttocsection\par
1794 }
1795 [action]
1796 {\setbeamerfont{section number projected}{size=\scriptsize}}
1797
1798 \defbeamertemplate{subsection in toc}{ball}
1799 {\leavevmode\bidibeamer@leftskip=5ex%
1800 \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1801 \inserttocsubsection\par%
1802 }
1803
1804 \defbeamertemplate{subsubsection in toc}{ball}
1805 {\leavevmode\normalsize\usebeamerfont{subsection in
1806 toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1807 \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1808 \inserttocsubsubsection\par%
1809 }
1810
1811 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1812
1813 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1814
1815 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1816
1817 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1818 {%
1819 \par\vskip\medskipamount%
1820 \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1821 {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1822 \bidi@beamer@ragged%
1823 \usebeamerfont{block body}%
1824 }%
1825
1826 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1827 {%
1828 \par\vskip\medskipamount%
1829 \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1830 {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1831 \bidi@beamer@ragged%
1832 \usebeamerfont{block body alerted}%
1833 }%
1834
1835 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1836 {%
1837 \par\vskip\medskipamount%
1838 \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]%
1839 {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1840 \bidi@beamer@ragged%
1841 \usebeamerfont{block body example}%
1842 }%
1843
1844 \bidi@csundef{beamer@@tmpop@caption@numbered}
1845
1846 \defbeamertemplate{caption}{numbered}

```




```

1847 {%
1848   \leavevmode
1849   \bidi@beamer@ragged
1850   {%
1851     \usebeamercolor[fg]{caption name}%
1852     \usebeamerfont*{caption name}%
1853     \insertcaptionname~\insertcaptionnumber
1854     \usebeamertemplate{caption label separator}%
1855   }%
1856   \insertcaption\par
1857 }
1858
1859 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1860
1861 \defbeamertemplate{caption}{caption name own line}
1862 {%
1863   \begin{minipage}{\textwidth}
1864     \leavevmode
1865     \bidi@beamer@ragged
1866     {%
1867       \usebeamercolor[fg]{caption name}%
1868       \usebeamerfont*{caption name}%
1869       \insertcaptionname%
1870     }\\
1871     \insertcaption
1872   \end{minipage}
1873 }
1874
1875 \ApplyPatchCodeToPackage{caption}{%
1876   \DeclareCaptionFont{beamer@font}{%
1877     \usebeamerfont*{caption}%
1878     \usebeamercolor[fg]{caption}%
1879   }
1880   \SetCaptionDefault{font}{beamer@font}
1881   \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1882   \SetCaptionDefault{justification}{bidi@beamer@ragged}
1883 }
1884

```

16 File beamerbaseboxes-xetex-bidi.def

```

1885 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1886 \renewcommand\beamerboxesrounded[2] [] {%
1887   \global\let\beamer@firstlineitemizeunskip=\relax%
1888   \vbox\bgroup%
1889   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1890   \setkeys{beamerboxes}{#1}%
1891   {%
1892     \usebeamercolor{\bmb@lower}%
1893     \globalcolorstrue%
1894     \colorlet{lower.bg}{bg}%
1895   }%
1896   {%
1897     \usebeamercolor{\bmb@upper}%

```



```

1898 \globalcolorstrue%
1899 \colorlet{upper.bg}{bg}%
1900 }%
1901 %
1902 % Typeset head
1903 %
1904 \vskip4bp
1905 \setbox\bmb@box=\hbox{%
1906   \begin{minipage}[b]{\bmb@width}%
1907     \usebeamercolor{fg}{\bmb@upper}%
1908     #2%
1909   \end{minipage}}%
1910 \ifdim\wd\bmb@box=0pt%
1911   \setbox\bmb@box=\hbox{}%
1912   \ht\bmb@box=1.5pt%
1913   \bmb@prevheight=-4.5pt%
1914 \else%
1915   \wd\bmb@box=\bmb@width%
1916   \bmb@temp=\dp\bmb@box%
1917   \ifdim\bmb@temp<1.5pt%
1918     \bmb@temp=1.5pt%
1919   \fi%
1920   \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1921   \dp\bmb@box=0pt%
1922   \bmb@prevheight=\ht\bmb@box%
1923 \fi%
1924 \bmb@temp=\bmb@width%
1925 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1926 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1927 \hbox{%
1928   \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1929     \ifdim\wd\bmb@box=0pt%
1930       \color{lower.bg}%
1931     \else%
1932       \color{upper.bg}%
1933     \fi%
1934     \pgfpathmoveto{-4bp}{-1bp}
1935     \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1936     \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1937     \pgfpathcurveto%
1938       {\pgfpoint{\bmb@dima}{3bp}}%
1939       {\pgfpoint{\bmb@dimb}{1.2bp}}%
1940       {\pgfpoint{\bmb@dimb}{-1bp}}%
1941     \bmb@dima=-\ht\bmb@box%
1942     \advance\bmb@dima by-2pt%
1943     \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1944     \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1945     \pgfusepath{fill}
1946   \end{pgfpicture}%
1947   \copy\bmb@box%
1948 }%
1949 \nointerlineskip%
1950 \vskip-1pt%
1951 \ifdim\wd\bmb@box=0pt%

```



```

1952 \else%
1953 \hbox{%
1954   \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1955     \bmb@dima=\bmb@width%
1956     \advance\bmb@dima by8bp%
1957     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1958     \pgfusepath{clip}
1959     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1960   \end{pgfpicture}%
1961 }%
1962 \nointerlineskip%
1963 \vskip-0.5pt%
1964 \fi%
1965 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1966 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1967   \vskip2pt%
1968   \usebeamercolor[fg]{\bmb@lower}%
1969   \colorlet{beamerstructure}{upper.bg}%
1970   \colorlet{structure}{upper.bg}%
1971   %\color{.}%
1972   \@bidi@list@minipage@parboxfalse
1973 }
1974
1975 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1976   \begingroup
1977   \@RTLfalse
1978 }{}{}
1979
1980

```

17 File beamerbasecolor-xetex-bidi.def

```

1981 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1982 \renewenvironment{beamercolorbox}[2][{}]{%
1983   \def\beamer@vmode{\leavevmode}%
1984   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1985     leftskip=0pt,rightskip=0pt plus1fil,%
1986     sep=0pt,colsep=0pt,colsep*=0pt,%
1987     shadow=false,rounded=false,ignorebg=false}%
1988   \ifRTL
1989     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1990   \else
1991     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1992   \fi
1993   \setkeys{beamercolbox}{#1}%
1994   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1995   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1996   \def\beamer@colbox@color{#2}%
1997   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1998     \ifbeamer@colbox@ignorebg%
1999       \colorlet{beamer@temp@color}{bg}%
2000       \usebeamercolor[fg]{#2}%
2001       \colorlet{bg}{beamer@temp@color}%
2002     \else%

```



```

2003     \usebeamercolor[fg]{#2}%
2004     \fi%
2005     \beginL
2006     \vbox\bgroup%
2007     \hsize=\beamer@colbox@wd%
2008     \@arrayparboxrestore%
2009     \leftskip=\beamer@colbox@ls%
2010     \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2011     \rightskip=\beamer@colbox@rs%
2012     \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2013     \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2014         \advance\leftskip by\beamer@colbox@colsep%
2015         \advance\rightskip by\beamer@colbox@colsep%
2016         \vskip\beamer@colbox@colsep%
2017     \fi%
2018     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2019     \fi%
2020     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2021     \beamer@vmode\ignorespaces}{%
2022     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2023     \if@tempswa
2024         \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2025         \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2026     \fi%
2027     \egroup\endL\color@endgroup\egroup%
2028     \wd\beamer@tempbox=\beamer@colbox@wd%
2029     \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2030     \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2031     \ifbeamer@colbox@rounded%
2032         \if@tempswa%
2033             \begin{beamerboxesrounded}[%
2034                 shadow=\beamer@colbox@shadow,%
2035                 lower=\beamer@colbox@color,%
2036                 upper=normal text,%
2037                 width=\beamer@colbox@wd]{%
2038                 \box\beamer@tempbox%
2039                 \end{beamerboxesrounded}%
2040             \else%
2041                 \ifdim\wd\beamer@tempbox>\textwidth%
2042                     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2043                 \fi%
2044                 \box\beamer@tempbox%
2045             \fi%
2046         \else%
2047             \if@tempswa\setbox\beamer@tempbox=\hbox{%
2048                 \usebeamercolor{\beamer@colbox@color}%
2049                 \hskip-\beamer@colbox@colseps%
2050                 \fboxsep=\z@\colorbox{bg}{%
2051                     \hskip\beamer@colbox@colseps%
2052                     \box\beamer@tempbox%
2053                     \hskip\beamer@colbox@colseps%
2054                 }%
2055                 \hskip-\beamer@colbox@colseps%
2056             }\fi%

```



```

2057 \ifdim\wd\beamer@tempbox>\textwidth%
2058 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\
2059 \fi%
2060 \box\beamer@tempbox%
2061 \fi%
2062 }
2063
2064

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2065 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2066 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2067
2068

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2069 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2070 \renewcommand{\setbeamersize}[1]{%
2071 \beamer@dogeometryfalse%
2072 \setkeys{beamer@margin}{#1}%
2073 \ifbeamer@dogeometry%
2074 % Reset left margin now
2075 \beamer@tempdim=\beamer@leftmargin%
2076 \advance\beamer@tempdim by\beamer@leftsidebar%
2077 \if@RTLmain
2078 \geometry{right=\the\beamer@tempdim}%
2079 \else
2080 \geometry{left=\the\beamer@tempdim}%
2081 \fi
2082 % Reset right margin now
2083 \beamer@tempdim=\beamer@rightmargin%
2084 \advance\beamer@tempdim by\beamer@rightsidebar%
2085 \if@RTLmain
2086 \geometry{left=\the\beamer@tempdim}%
2087 \else
2088 \geometry{right=\the\beamer@tempdim}%
2089 \fi
2090 \fi%
2091 }
2092
2093 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2094 \if@RTLmain
2095 \Gm@rmargin
2096 \else
2097 \Gm@lmargin
2098 \fi
2099 }
2100
2101 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2102 \if@RTLmain
2103 \Gm@lmargin
2104 \else

```



```

2105 \Gm@rmargin
2106 \fi
2107 }
2108
2109 \def\ps@navigation{
2110 \def\@oddhead{%
2111 \begingroup%
2112 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2113 \beamer@tempdim=\ht\beamer@tempbox%
2114 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2115 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2116 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2117 \beamer@tempdim=\ht\@tempboxa%
2118 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2119 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2120 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2121 \hbox{%
2122 {%
2123 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2124 \if@RTLmain
2125 {%
2126 \vbox to \sidebarheight{%
2127 \usebeamertemplate***{sidebar left}}%
2128 \vfil%
2129 }}%
2130 \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2131 \hskip-\textwidth
2132 }%
2133 \fi
2134 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2135 \usebeamercolor*{sidebar left}}%
2136 \usebeamertemplate{sidebar canvas left}}%
2137 \vss%
2138 }}%
2139 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2140 \box\beamer@tempbox}%
2141 \if@RTLmain
2142 \else
2143 {%
2144 \vbox to \sidebarheight{%
2145 \usebeamertemplate***{sidebar left}}%
2146 \vfil%
2147 }}\fi}%
2148 \beamer@tempdim=\ht\beamer@tempbox%
2149 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2150 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2151 \box\beamer@tempbox%
2152 }%
2153 {% print right sidebar first, since it should be overwritten by headline
2154 \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2155 \if@RTLmain
2156 {%
2157 \vbox to \sidebarheight{%
2158 \usebeamertemplate***{sidebar right}}%

```



```

2159         \vfil%
2160     }}%
2161     \hskip-\textwidth
2162     \fi
2163     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2164         \usebeamercolor*{sidebar right}%
2165         \usebeamertemplate{sidebar canvas right}%
2166         \vss%
2167     }}%
2168     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2169     \box\beamer@tempbox}%
2170     \if@RTLmain
2171     \else
2172     {%
2173         \vbox to \sidebarheight{%
2174             \usebeamertemplate***{sidebar right}%
2175             \vfil%
2176         }}\fi}%
2177     \beamer@tempdim=\ht\beamer@tempbox%
2178     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2179     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2180     \box\beamer@tempbox%
2181     }%
2182     \beamer@typesetheadorfoot{headline}%
2183     }%
2184     \hfil}%
2185     \endgroup}
2186     \def\@oddfoot{%
2187         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2188             \hfil}\hbox{}}\hfil
2189     }%
2190     \let\@evenhead\@oddhead
2191     \let\@evenfoot\@oddfoot}
2192
2193     \AtBeginDocument{%
2194         \pagestyle{navigation}%
2195     }
2196
2197     \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2198         {\parskip0pt\offinterlineskip%
2199             \hbox{%
2200                 \hskip-\bidi@beamer@Gm@lmargin%
2201                 \hbox{%
2202                     \vbox{%
2203                         \@tempdima=\textwidth%
2204                         \textwidth=\paperwidth%
2205                         \hsize=\textwidth%
2206                         \def\{\,%
2207                             \usebeamertemplate***{#1}%
2208                         }}%
2209                     \hskip-\bidi@beamer@Gm@rmargin%
2210                 }}\hfil%
2211         }
2212

```



```

2213 \def\ps@empty{%
2214   \let\@mkboth\@gobbletwo%
2215   \def\@oddhead{\begingroup%
2216     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition%
2217     \beamer@tempdim=\ht\beamer@tempbox%
2218     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2219     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2220     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2221     \beamer@tempdim=\ht\@tempboxa%
2222     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2223     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2224     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}%
2225     \endgroup%
2226   }
2227   \def\@oddfoot{\normalcolor\hfil%
2228     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beamer@margin%
2229     \ht\beamer@tempbox=0pt%
2230     \dp\beamer@tempbox=0pt%
2231     \box\beamer@tempbox}}%
2232   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot%
2233 }
2234 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2235   \beamer@colclose\def\beamer@colclose{%
2236     \begin{actionenv}#3%
2237       \setkeys{beamer@col}{#1}%
2238       \begin{minipage}[\beamer@colalign]{#2}%
2239         \leavevmode\bidibeamer@ragged\beamer@colheadskip\ignorespaces%
2240         {\end{minipage}\hfill\end{actionenv}}\@ignoretrue%
2241   \let\endcolumn\endbeamer@columnenv%
2242 }
2243 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2244   \beamer@colclose%
2245   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2246   \begin{actionenv}#3%
2247     \setkeys{beamer@col}{#1}%
2248     \begin{minipage}[\beamer@colalign]{#2}%
2249       \leavevmode\bidibeamer@ragged\beamer@colheadskip\ignorespaces%
2250     }
2251 \renewenvironment<>{columns}[1][{}]{%
2252   \begin{actionenv}#2%
2253     \ifbeamer@onlytextwidth
2254       \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2255       \def\beamer@colexitcode{\unskip\egroup}%
2256     \else%
2257       \def\beamer@colentrycode{%
2258         \hbox to\textwidth\bgroup%
2259         \leavevmode%
2260         \hskip-\beamer@leftmargin%
2261         \nobreak%
2262         \beamer@tempdim=\textwidth%
2263         \advance\beamer@tempdim by\beamer@leftmargin%
2264         \advance\beamer@tempdim by\beamer@rightmargin%
2265         \hbox to\beamer@tempdim\bgroup%
2266         \hbox{}\hfill\ignorespaces}%

```




```

2267 \def\beamer@colexitcode{\egroup%
2268 \nobreak%
2269 \hskip-\beamer@rightmargin\egroup}%
2270 \fi%
2271 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2272 \setkeys{beamer@col}{#1}%
2273 \par%
2274 \leavevmode
2275 \beamer@colentrycode%
2276 \def\beamer@colclose{}\ignorespaces}%
2277 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2278
2279
2280 \def\@makeRTLfntext#1{%
2281 \def\insertfootnotetext{#1}%
2282 \def\insertfootnotemark{\@makefnmark}%
2283 \usebeamertemplate***{RTLfootnote}}
2284
2285 \def\@makeLTRfntext#1{%
2286 \def\insertfootnotetext{#1}%
2287 \def\insertfootnotemark{\@makefnmark}%
2288 \usebeamertemplate***{LTRfootnote}}
2289
2290 \renewcommand<>\beamer@framefootnotetext[1]{%
2291 \global\setbox\beamer@footins\vbox{%
2292 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2293 \hsize\framewidth
2294 \textwidth\hsize
2295 \columnwidth\hsize
2296 \unvbox\beamer@footins
2297 \reset@font
2298 \bidi@@footnotetext@font
2299 \@parboxrestore
2300 \protected@edef\@currentlabel
2301 {\csname p@footnote\endcsname\@thefnmark}%
2302 \color@begingroup
2303 \uncover#2{\@makefntext{%
2304 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2305 \color@endgroup}}
2306
2307 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2308 \global\setbox\beamer@footins\vbox{%
2309 \@RTLtrue
2310 \hsize\framewidth
2311 \textwidth\hsize
2312 \columnwidth\hsize
2313 \unvbox\beamer@footins
2314 \reset@font
2315 \bidi@@RTLfootnotetext@font
2316 \@parboxrestore
2317 \protected@edef\@currentlabel
2318 {\csname p@footnote\endcsname\@thefnmark}%
2319 \color@begingroup
2320 \uncover#2{\@makeRTLfntext{%

```



```

2321         \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2322     \color@endgroup}}
2323
2324 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2325     \global\setbox\beamer@footins\vbox{%
2326         \RTLfalse
2327         \hsize\framewidth
2328         \textwidth\hsize
2329         \columnwidth\hsize
2330         \unvbox\beamer@footins
2331         \reset@font
2332         \bidi@LTRfootnotetext@font
2333         \@parboxrestore
2334         \protected@edef\@currentlabel
2335             {\csname p@footnote\endcsname\@thefnmark}%
2336         \color@begingroup
2337         \uncover#2{\@makeLTRfntext{%
2338             \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2339         \color@endgroup}}
2340
2341 \renewcommand<>\@mpfootnotetext[1]{%
2342 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
2343 \global\setbox\@mpfootins\vbox{%
2344     \unvbox\@mpfootins
2345     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2346     \reset@font
2347     \bidi@footnotetext@font
2348     \hsize\columnwidth
2349     \@parboxrestore
2350     \protected@edef\@currentlabel
2351         {\csname p@mpfootnote\endcsname\@thefnmark}%
2352     \color@begingroup
2353     \uncover#2{\@makefntext{%
2354         \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2355     \color@endgroup}}
2356
2357 \renewcommand<>\@mpRTLfootnotetext[1]{%
2358 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2359 \global\setbox\@mpfootins\vbox{%
2360     \unvbox\@mpfootins
2361     \@RTLtrue
2362     \reset@font
2363     \bidi@RTLfootnotetext@font
2364     \hsize\columnwidth
2365     \@parboxrestore
2366     \protected@edef\@currentlabel
2367         {\csname p@mpfootnote\endcsname\@thefnmark}%
2368     \color@begingroup
2369     \uncover#2{\@makeRTLfntext{%
2370         \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2371     \color@endgroup}}
2372
2373 \renewcommand<>\@mpLTRfootnotetext[1]{%
2374 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule

```



```

2375 \global\setbox\@mpfootins\vbox{%
2376 \unvbox\@mpfootins
2377 \@RTLfalse
2378 \reset@font
2379 \bidi@@LTRfootnotetext@font
2380 \hsize\columnwidth
2381 \@parboxrestore
2382 \protected@edef\@currentlabel
2383 {\csname p@mpfootnote\endcsname\@thefnmark}%
2384 \color@begingroup
2385 \uncover#2{\@makeLTRfntext{%
2386 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2387 \color@endgroup}}
2388
2389 \let\footnotetext=\beamer@framefootnotetext
2390 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2391 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2392
2393 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2394 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2395 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2396
2397 \renewcommand<>{\footnote}[1][{}]{%
2398 \let\beamer@footnotetext=\@footnotetext%
2399 \let\beamer@mpfn=\@mpfn%
2400 \let\beamer@thempfn=\thempfn%
2401 \let\beamer@kvorig=\KV@errx%
2402 \let\beamer@xkvorig=\XKV@err
2403 \def\beamer@footarg{}%
2404 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2405 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2406 \setkeys{beamerfootnote}{#1}%
2407 \let\KV@errx=\beamer@kvorig%
2408 \let\XKV@errx=\beamer@xkvorig
2409 \ifx\beamer@footarg\@empty%
2410 \def\beamer@next{\stepcounter\beamer@mpfn
2411 \protected@xdef\@thefnmark{\beamer@thempfn}%
2412 \@footnotemark\beamer@footnotetext#2}%
2413 \else%
2414 \def\beamer@next{%
2415 \begingroup
2416 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2417 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2418 \endgroup
2419 \@footnotemark\beamer@footnotetext#2}%
2420 \fi%
2421 \beamer@next}
2422
2423 \renewcommand<>{\RTLfootnote}[1][{}]{%
2424 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2425 \let\beamer@mpfn=\@mpfn%
2426 \let\beamer@thempfn=\thempfn%
2427 \let\beamer@kvorig=\KV@errx%
2428 \let\beamer@xkvorig=\XKV@err

```



```

2429 \def\beamer@footarg{}%
2430 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2431 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2432 \setkeys{beamerfootnote}{#1}%
2433 \let\KV@errx=\beamer@kvorig%
2434 \let\XKV@errx=\beamer@xkvorig%
2435 \ifx\beamer@footarg\@empty%
2436   \def\beamer@next{\stepcounter\beamer@mpfn
2437     \protected@xdef\@thefnmark{\beamer@thempfn}%
2438     \@footnotemark\beamer@RTLfootnotetext#2}%
2439 \else%
2440   \def\beamer@next{%
2441     \begingroup
2442       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2443       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2444     \endgroup
2445     \@footnotemark\beamer@RTLfootnotetext#2}%
2446 \fi%
2447 \beamer@next}
2448
2449 \renewcommand<>{\LTRfootnote}[1][{}]{%
2450   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2451   \let\beamer@mpfn=\@mpfn%
2452   \let\beamer@thempfn=\thempfn%
2453   \let\beamer@kvorig=\KV@errx%
2454   \let\beamer@xkvorig=\XKV@err
2455   \def\beamer@footarg{}%
2456   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2457   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2458   \setkeys{beamerfootnote}{#1}%
2459   \let\KV@errx=\beamer@kvorig%
2460   \let\XKV@errx=\beamer@xkvorig%
2461   \ifx\beamer@footarg\@empty%
2462     \def\beamer@next{\stepcounter\beamer@mpfn
2463       \protected@xdef\@thefnmark{\beamer@thempfn}%
2464       \@footnotemark\beamer@LTRfootnotetext#2}%
2465   \else%
2466     \def\beamer@next{%
2467       \begingroup
2468         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2469         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2470       \endgroup
2471       \@footnotemark\beamer@LTRfootnotetext#2}%
2472   \fi%
2473   \beamer@next}
2474
2475

```

20 File beamerbaseframesize-xetex-bidi.def

```

2476 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2477 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2478   \par\nointerlineskip%
2479   \global\beamer@slidehaszoomtrue%

```



```

2480 \advance\beamer@zoomcount by1\relax%
2481 \def\beamer@zoomborderwidth{0}%
2482 \edef\beamer@labelzoomed{\beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2483 \setkeys{beamerzoom}{#3}%
2484 \only<#1>{%
2485   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2486   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2487     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2488       \vbox to #7{%
2489         \hbox to#6{\hfil}%
2490         \vfil%
2491       }%
2492     \else%
2493       \begin{group}%
2494         \normalsize%
2495         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2496           \pgfsetfillopacity{0}
2497           \pgftext[x=0cm,y=3pt]{.}
2498           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2499         \end{pgfpicture}%
2500       \end{group}%
2501     \fi%
2502   }%}}%
2503   \ht\@tempboxa=0pt%
2504   \wd\@tempboxa=0pt%
2505   \dp\@tempboxa=0pt%
2506   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}%
2507   \ht\@tempboxa=0pt%
2508   \wd\@tempboxa=0pt%
2509   \dp\@tempboxa=0pt%
2510   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2511 }%
2512 \only<#2>{%
2513   \@ifundefined{\beamer@labelzoomed}%
2514   {%
2515     \hypertarget{\beamer@labelzoomed}{}%
2516     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2517   }{}%
2518   \gdef\beamer@zoomer{%
2519     % compute zoom factor
2520     \@tempdima=\beamer@frametextheight%
2521     \@tempdimb=#7\relax%
2522     \@tempcnta=\@tempdimb%
2523     \divide\@tempcnta by4096\relax%
2524     \multiply\@tempdima by16\relax%
2525     \divide\@tempdima by\@tempcnta%
2526     \@tempdimb=\paperwidth%
2527     \ifbeamer@plainframe%
2528     \else%
2529       \advance\@tempdimb by-\beamer@leftsidebar%
2530       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2531     \fi%
2532     \@tempdimc=#6\relax%
2533     \@tempcntb=\@tempdimc%

```



```

2534 \divide\@tempcntb by4096\relax%
2535 \multiply\@tempdimb by16\relax%
2536 \divide\@tempdimb by\@tempcntb%
2537 \ifdim\@tempdimb<\@tempdima%
2538 \@tempdima=\@tempdimb%
2539 \fi%
2540 \edef\beamer@temp{\strip@pt\@tempdima}%
2541 \@tempdimc=\beamer@frametextheight%
2542 \advance\@tempdimc by4pt%
2543 \@tempdimb=\paperwidth%
2544 \ifbeamer@plainframe%
2545 \else%
2546 \advance\@tempdimb by-\beamer@leftsidebar%
2547 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2548 \fi%
2549 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2550 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2551 \ht\@tempboxa=0pt%
2552 \wd\@tempboxa=0pt%
2553 \dp\@tempboxa=0pt%
2554 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2555 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2556 \if@RTL
2557 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pgftext[right,top]{\box\@tempboxa}\pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}\pgfusepath{clip}\begin{pgftransformgroup\pgftransformscale{\beamer@temp}\@tempdima=#4\relax%\@tempdimb=#5\relax%\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}%\pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}}\end{pgftransformgroup}\end{pgfpicture}}%
2558 \else
2559 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin}{-\beamer@frametextheight}{\pgftext[left,top]{\box\@tempboxa}\pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}\pgfusepath{clip}\begin{pgftransformgroup\pgftransformscale{\beamer@temp}\@tempdima=#4\relax%\@tempdimb=#5\relax%\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}%\pgftext[left,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}}\end{pgftransformgroup}\end{pgfpicture}}%
2560 \fi
2561 }%
2562 \setbox\beamer@framebox=\vbox{%
2563 \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2564 \nointerlineskip\unvbox\beamer@frametitlebox%
2565 \nobreak%

```



```

2588     \box\beamer@framebox%
2589     \nobreak%
2590     \vss%
2591     \beamer@exitcode%
2592 }%
2593 \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2594 }%
2595 }%
2596 }
2597
2598

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2599 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2600 \def\beamer@enum@{%
2601   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2602   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2603   \bgroup
2604   \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2605   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2606   \egroup
2607   \expandafter
2608   \list
2609     {\usebeamerfont{\beamer@enumtempl}}
2610     {\usecounter\@enumctr%
2611       \def\makelabel##1{\hss\llap{\%
2612         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2613         \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2614   \beamer@cramped%
2615   \bidi@beamer@ragged%
2616   \beamer@firstlineitemizeunskip%
2617 }
2618
2619 \renewcommand{\itemize}[1][\%
2620   \ifblank{##1}{\def\beamer@defaulttospec{##1}}%
2621   \ifnum \@itemdepth >2\relax\@toodeep\else
2622     \advance\@itemdepth\@ne
2623     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2624     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2625     \bgroup
2626     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2627     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2628     \egroup
2629     \list
2630       {\usebeamerfont{itemize \beameritemnestingprefix item}}
2631       {\def\makelabel##1{\%
2632         {\%
2633           \hss\llap{\%
2634             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2635             \usebeamerfont{fg}{itemize \beameritemnestingprefix item}##1}}}%
2636         }%
2637       }%
2638 }

```



```

2639 \fi%
2640 \beamer@cramped%
2641 \bidi@beamer@ragged%
2642 \beamer@firstlineitemizeunskip%
2643 }
2644
2645 \def\@@description{%
2646 \advance\beamer@descdefault by \labelsep%
2647 \usebeamerfont{description body}%
2648 \bgroup
2649 \usebeamercolor[fg]{description body}%
2650 \usebeamertemplate{description body begin}%
2651 \egroup
2652 \list
2653 {}
2654 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2655 \beamer@cramped%
2656 \bidi@beamer@ragged
2657 \beamer@firstlineitemizeunskip%
2658 }
2659
2660 \renewenvironment{thebibliography}[1]
2661 {%\leavevmode\unskip%
2662 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2663 \bidi@@thebibliography@font@hook%
2664 \list{\@biblabel{\@arabic\c@enumiv}}%
2665 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2666 \leftmargin\labelwidth
2667 \advance\leftmargin\labelsep
2668 \itemsep=0pt%
2669 \partopsep=0pt%
2670 \topsep=0pt%
2671 \usecounter{enumiv}%
2672 \let\p@enumiv\@empty
2673 \renewcommand\theenumiv{\@arabic\c@enumiv}
2674 \let\makelabel\beamer@biblabeltemplate}%
2675 \sloppy\bidi@beamer@ragged
2676 \clubpenalty10000
2677 \@clubpenalty \clubpenalty
2678 \widowpenalty10000%
2679 \sfcode`\.\@m}
2680 {\def\@noitemerr
2681 {\@latex@warning{Empty `thebibliography' environment}}}%
2682 \ifhmode\unskip\fi\endlist}
2683
2684

```

22 File beamerbasemisc-xetex-bidi.def

```

2685 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2686 \define@key{beamerst}{width}{%
2687 \def\beamer@ststart{%
2688 \begin{minipage}[t]{#1}%
2689 \bidi@beamer@ragged

```




```

2690     \beamer@stalign
2691     \beamer@stlinebreakrule
2692   }%
2693 \def\beamer@stend{\end{minipage}}
2694
2695

```

23 File beamerbasenavigation-xetex-bidi.def

```

2696 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2697 \def\slideentry#1#2#3#4#5#6{%
2698   %section number, subsection number, slide number, first/last frame, page number, part numb
2699   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2700     \ifbeamer@compress%
2701       \advance\beamer@xpos by1\relax%
2702     \else%
2703       \ifnum#2=0%
2704         \beamer@ypos@offset=1\relax%
2705       \fi
2706       \beamer@xpos=#3\relax%
2707       \beamer@ypos=#2\relax%
2708       \advance\beamer@ypos by \beamer@ypos@offset\relax
2709     \fi%
2710   \hbox to Opt{%
2711     \beamer@tempdim=-\beamer@vboxoffset%
2712     \advance\beamer@tempdim by-\beamer@boxsize%
2713     \multiply\beamer@tempdim by\beamer@ypos%
2714     \advance\beamer@tempdim by -.05cm%
2715     \raise\beamer@tempdim\hbox{%
2716       \beamer@tempdim=\beamer@boxsize%
2717       \multiply\beamer@tempdim by\beamer@xpos%
2718       \advance\beamer@tempdim by -\beamer@boxsize%
2719       \advance\beamer@tempdim by 1pt%
2720       \kern\beamer@tempdim
2721       \global\beamer@section@min@dim\beamer@tempdim
2722       \hbox{\beamer@link(#4){%
2723         \usebeamerfont{mini frame}%
2724         \ifnum\c@section=#1%
2725           \ifnum\c@subsection=#2%
2726             \usebeamercolor[fg]{mini frame}%
2727             \ifnum\c@subsectionslide=#3%
2728               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2729             \else%
2730               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2731             \fi%
2732           \else%
2733             \usebeamercolor{mini frame}%
2734             %\color{fg!50!bg}%
2735             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2736           \fi%
2737         \else%
2738           \usebeamercolor{mini frame}%
2739           %\color{fg!50!bg}%
2740           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%

```



```

2741         \fi%
2742     }}}} \hskip-10cm plus 1fil%
2743 } \fi \fi%
2744 \else%
2745 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2746 \fi \ignorespaces
2747 }
2748
2749 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2750 {
2751     \pgfpathmoveto{3.5bp}{0.5bp}
2752     \pgfpathqlineto{1.5bp}{2bp}
2753     \pgfpathqlineto{3.5bp}{3.5bp}
2754     \pgfusepathqfill
2755 }
2756
2757 \def\insertgotosymbol{%
2758 \if@RTL
2759     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2760         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2761     \end{pgfpicture}%
2762 \else
2763     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2764         \pgfuseobject{beamer@gotosymbol}%
2765     \end{pgfpicture}%
2766 \fi
2767 }
2768
2769 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2770 {
2771     \pgfpathmoveto{5.5bp}{0.5bp}
2772     \pgfpathqlineto{3.5bp}{2bp}
2773     \pgfpathqlineto{5.5bp}{3.5bp}
2774     \pgfpathmoveto{3.5bp}{0.5bp}
2775     \pgfpathqlineto{1.5bp}{2bp}
2776     \pgfpathqlineto{3.5bp}{3.5bp}
2777     \pgfusepathqfill
2778 }
2779
2780 \def\insertskipsymbol{%
2781 \if@RTL
2782     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2783         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2784     \end{pgfpicture}%
2785 \else
2786     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2787         \pgfuseobject{beamer@skipsymbol}%
2788     \end{pgfpicture}%
2789 \fi
2790 }
2791
2792 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2793 {
2794     \pgfpathmoveto{1.5bp}{0.5bp}

```



```

2795 \pgfpathqlineto{3.5bp}{2bp}
2796 \pgfpathqlineto{1.5bp}{3.5bp}
2797 \pgfusepathqfill
2798 }
2799
2800 \def\insertreturnsymbol{%
2801 \if@RTL
2802 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2803 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2804 \end{pgfpicture}%
2805 \else
2806 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2807 \pgfuseobject{beamerreturnsymbol}%
2808 \end{pgfpicture}%
2809 \fi
2810 }
2811
2812

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2813 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2814 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2815
2816

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2817 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2818 \newcommand*{\bidi@beamer@leftskip}{%
2819 \if@RTL
2820 \rightskip
2821 \else
2822 \leftskip
2823 \fi
2824 }
2825
2826 \newcommand*{\bidi@beamer@rightskip}{%
2827 \if@RTL
2828 \leftskip
2829 \else
2830 \rightskip
2831 \fi
2832 }
2833
2834 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2835
2836 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2837
2838 \defbeamertemplate*{subsection in toc}{default}
2839 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2840
2841 \defbeamertemplate*{subsubsection in toc}{default}
2842 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%

```



```

2843 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2844
2845 \newcommand*{\bidi@beamer@blacktriangle}{%
2846   \if@RTL
2847     $\blacktriangleleft$%
2848   \else
2849     $\blacktriangleright$%
2850   \fi
2851 }
2852
2853 \bidi@csundef{beamer@@tmpop@itemize item@default}
2854
2855 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2856
2857 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2858
2859 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2860 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2861 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2862
2863 \bidi@undef\beamer@@tmpop@footnote@default
2864
2865 \defbeamertemplate*{footnote}{default}
2866 {
2867   \parindent 1em\noindent%
2868   \bidi@beamer@ragged
2869   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2870 }
2871
2872 \defbeamertemplate*{RTLfootnote}{default}
2873 {
2874   \parindent 1em\noindent%
2875   \raggedleft
2876   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2877 }
2878
2879 \defbeamertemplate*{LTRfootnote}{default}
2880 {
2881   \parindent 1em\noindent%
2882   \raggedright
2883   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2884 }
2885
2886 \bidi@undef\beamer@@tmpop@caption@default
2887
2888 \defbeamertemplate*{caption}{default}
2889 {%
2890   \bidi@beamer@ragged
2891   {%
2892     \leavevmode
2893     \usebeamerfont*{caption name}%
2894     \usebeamerfont*{caption name}%
2895     \insertcaptionname
2896     \usebeamertemplate{caption label separator}%

```



```

2897 }%
2898 \insertcaption\par
2899 }
2900
2901 \bidi@csundef{beamer@@tmpop@block begin@default}
2902
2903 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2904
2905 \bidi@csundef{beamer@@tmpop@block example begin@default}
2906
2907 \defbeamertemplate*{block begin}{default}
2908 {
2909   \par\vskip\medskipamount%
2910   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2911     \usebeamerfont*{block title}\insertblocktitle%
2912   \end{beamercolorbox}%
2913   {\parskip0pt\par}%
2914   \ifbeamercoloreempty[bg]{block title}
2915   {}
2916   {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2917   \usebeamerfont{block body}%
2918   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2919     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2920   }
2921
2922 \defbeamertemplate*{block alerted begin}{default}
2923 {
2924   \par\vskip\medskipamount%
2925   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2926     \usebeamerfont*{block title alerted}\insertblocktitle%
2927   \end{beamercolorbox}%
2928   {\parskip0pt\par}%
2929   \ifbeamercoloreempty[bg]{block title alerted}
2930   {}
2931   {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2932   \usebeamerfont{block body alerted}%
2933   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2934     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2935   }
2936
2937 \defbeamertemplate*{block example begin}{default}
2938 {
2939   \par\vskip\medskipamount%
2940   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2941     \usebeamerfont*{block title example}\insertblocktitle%
2942   \end{beamercolorbox}%
2943   {\parskip0pt\par}%
2944   \ifbeamercoloreempty[bg]{block title example}
2945   {}
2946   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2947   \usebeamerfont{block body example}%
2948   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2949     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2950   }

```



```

2951
2952 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2953
2954 \defbeamerteremplate*{abstract begin}{default}
2955 {\beamer@colorbox[vmode]{abstract}}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2956
2957 \bidi@undef\beamer@@tmpop@button@default
2958
2959 \defbeamerteremplate*{button}{default}
2960 {%
2961   \setbox\beamer@tempbox=\hbox{{\insertbuttontext}}%
2962   \ht\beamer@tempbox=6pt%
2963   \dp\beamer@tempbox=0pt%
2964   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2965   \beamer@tempdim=\wd\beamer@tempbox%
2966   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2967   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2968   \if@RTL
2969     \kern4pt%
2970     \box\beamer@tempbox%
2971     \hskip-\beamer@tempdim%
2972   \fi
2973   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2974     \color{bg}
2975     \pgfsetlinewidth{0.8pt}
2976     \pgfpathqmoveto{0pt}{0pt}
2977     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2978     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2979     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2980     \pgfpathcurveto%
2981       {\pgfpoint{\the\beamer@dima}{8pt}}%
2982       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2983       {\pgfpoint{\the\beamer@dimb}{4pt}}
2984     \pgfpathcurveto%
2985       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2986       {\pgfpoint{\the\beamer@dima}{0pt}}%
2987       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2988     \pgfpathclose
2989     \pgfusepathqfill
2990     \colorlet{bg}{parent.bg}
2991     \usebeamercolor[fg]{button border}
2992     \pgfpathqmoveto{0pt}{0pt}
2993     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2994     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2995     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2996     \pgfpathcurveto%
2997       {\pgfpoint{\the\beamer@dima}{8pt}}%
2998       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2999       {\pgfpoint{\the\beamer@dimb}{4pt}}
3000     \pgfpathcurveto%
3001       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3002       {\pgfpoint{\the\beamer@dima}{0pt}}%
3003       {\pgfpoint{\the\beamer@tempdim}{0pt}}
3004     \pgfpathclose

```



```

3005 \pgfusepathqstroke
3006 \end{pgfpicture}%
3007 \if@RTL
3008 \else
3009 \hskip-\beamer@tempdim%
3010 \box\beamer@tempbox%
3011 \kern4pt%
3012 \fi
3013 }
3014
3015

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3016 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for beamer]
3017 \setbeamertemplate{sections/subsections in toc}[circle]
3018

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3019 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for beamer]
3020 \setbeamertemplate{section in toc}[square]
3021 \setbeamertemplate{subsection in toc}[square]
3022
3023 \setbeamertemplate{itemize items}[square]
3024 \setbeamertemplate{itemize subitem}[triangle]
3025
3026 \bidi@csundef{beamer@@tmpop@title page@focus}
3027
3028 \defbeamertemplate*{title page}{focus}{%
3029   {%
3030     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3031     \begin{tikzpicture}[overlay, remember picture]
3032       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4}
3033     \end{tikzpicture}
3034   }
3035
3036   \vspace{-1.65\baselineskip}
3037   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3038     \vspace{\baselineskip}
3039     \usebeamerfont{title}
3040     \usebeamercolor[fg]{frametitle}
3041     \inserttitle
3042   \end{minipage}
3043
3044   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3045     \usebeamerfont{subtitle}
3046     \usebeamercolor[fg]{frametitle}
3047     \insertsubtitle
3048   \end{minipage}
3049
3050   % Set the title graphic in a zero-height box, so that
3051   % the position of other elements is not affected.
3052   {\vfuzz=9999pt\vbox to 0pt {

```



```

3053     \if@RTL
3054         \raggedright
3055     \else
3056         \raggedleft
3057     \fi
3058     \inserttitlegraphic
3059 }
3060
3061 \begin{minipage}[t]{\textwidth}
3062     \usebeamerfont{author}
3063     \insertauthor
3064 \end{minipage}
3065
3066 \vspace*{\baselineskip}
3067 \begin{minipage}[t]{\textwidth}
3068     \usebeamerfont{institute}
3069     \insertinstitute
3070 \end{minipage}
3071
3072 \vspace*{\baselineskip}
3073 \begin{minipage}[t]{\textwidth}
3074     \usebeamerfont{date}
3075     \insertdate
3076 \end{minipage}
3077
3078 \vspace*{0pt plus 100fill}
3079
3080 \addtocounter{framenum}{-1}
3081 \addtocounter{realframenum}{-1}
3082 }
3083
3084
3085

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3086 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3087 \AtBeginDocument{%
3088     \setbeamsize{sidebar width left=.25\paperwidth}%
3089 }
3090
3091 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3092
3093 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3094
3095 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3096
3097 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3100
3101 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3102
3103 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}

```




```

3104
3105 \bidi\csundef{beamer@@tmpop@block example end@inmargin}
3106
3107 \defbeamertertemplate*{section in toc}{inmargin}
3108 {\leavevmode
3109   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3110
3111 \defbeamertertemplate*{title page}{inmargin}
3112 {
3113   \begin{block}{\inserttitleindicator}
3114     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3115     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3116   \end{block}
3117   \vfill
3118   \ifx\insertauthor\@empty
3119   \else
3120   \begin{block}{\insertauthorindicator}
3121     \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3122   \end{block}
3123   \fi
3124   \ifx\insertinstitute\@empty
3125   \else
3126   \begin{block}{\insertinstituteindicator}
3127     \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3128   \end{block}
3129   \fi
3130   \ifx\insertdate\@empty
3131   \else
3132   \begin{block}{\insertdateindicator}
3133     \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3134   \end{block}
3135   \fi
3136 }
3137
3138 \defbeamertertemplate*{block begin}{inmargin}
3139 {
3140   \par\vskip\medskipamount%
3141   \leavevmode%
3142   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3143   \beginL\beamer@putright
3144   %\usebeamercolor[fg]{block body}% to be done!
3145 }
3146
3147 \defbeamertertemplate*{block end}{inmargin}
3148 {\endbeamer@putright\endL\vskip\smallskipamount}
3149
3150 \defbeamertertemplate*{block alerted begin}{inmargin}
3151 {
3152   \par\vskip\medskipamount%
3153   \leavevmode%
3154   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3155   \beginL\beamer@putright
3156   %\usebeamercolor[fg]{block body alerted}% to be done!
3157 }

```



```

3158
3159 \defbeamertemplate*{block alerted end}{inmargin}
3160 {\endbeamer@putright\endL\vskip\smallskipamount}
3161
3162 \defbeamertemplate*{block example begin}{inmargin}
3163 {
3164   \par\vskip\medskipamount%
3165   \leavevmode%
3166   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}\usebeamerfont*{block
3167   \beginL\beamer@putright
3168   %\usebeamercolor[fg]{block body example}% to be done
3169 }
3170
3171 \defbeamertemplate*{block example end}{inmargin}
3172 {\endbeamer@putright\endL\vskip\smallskipamount}
3173
3174 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3175   \setbeamertemplate{section in toc}[inmargin]%
3176   \setbeamertemplate{subsection in toc}[inmargin]%
3177   \setbeamertemplate{subsubsection in toc}[inmargin]%
3178 }
3179
3180

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3181 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3182 \setbeamertemplate{title}{
3183   \bidi@beamer@ragged%
3184   \linespread{1.0}%
3185   \inserttitle%
3186   \par%
3187   \vspace*{0.5em}
3188 }
3189
3190 \setbeamertemplate{subtitle}{
3191   \bidi@beamer@ragged%
3192   \insertsubtitle%
3193   \par%
3194   \vspace*{0.5em}
3195 }
3196
3197 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3198
3199 \defbeamertemplate{section page}{progressbar}{
3200   \centering
3201   \begin{minipage}{22em}
3202     \bidi@beamer@ragged
3203     \usebeamercolor[fg]{section title}
3204     \usebeamerfont{section title}
3205     \insertsectionhead\[-1ex]
3206     \usebeamertemplate*{progress bar in section page}
3207     \par
3208     \ifx\insertsubsectionhead\@empty\else%

```



```

3209     \usebeamercolor[fg]{subsection title}%
3210     \usebeamerfont{subsection title}%
3211     \insertsubsectionhead
3212     \fi
3213 \end{minipage}
3214 \par
3215 \vspace{\baselineskip}
3216 }
3217
3218 \setbeamertemplate{progress bar in section page}{
3219   \setlength{\metropolis@progressonsectionpage}{%
3220     \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3221   }%
3222   \begin{tikzpicture}
3223     \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3224 \if@RTLmain
3225     \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3226 \else
3227     \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3228 \fi
3229   \end{tikzpicture}%
3230 }
3231
3232 \renewcommand{\metropolis@block}[1]{
3233   \par\vskip\medskipamount%
3234   \setlength{\parskip}{0pt}
3235   \ifbeamercolorempthy[bg]{block title#1}{%
3236     \if@RTL
3237       \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3238     \else
3239       \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3240     \fi
3241   }{%
3242     \ifbeamercolorempthy[bg]{block title}{%
3243       \if@RTL
3244         \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3245       \else
3246         \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3247       \fi
3248     }%
3249   }%
3250   \if@RTL
3251     \begin{beamercolorbox}[
3252       sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3253       rightskip=\metropolis@blockadjust,
3254       leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3255     ]{block title#1}%
3256   \else
3257     \begin{beamercolorbox}[
3258       sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3259       leftskip=\metropolis@blockadjust,
3260       rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3261     ]{block title#1}%
3262   \fi

```



```

3263 }}%
3264 \usebeamerfont*{block title#1}%
3265 \metropolis@strut%
3266 \insertblocktitle%
3267 \metropolis@strut%
3268 \end{beamercolorbox}%
3269 \nointerlineskip%
3270 \ifbeamercoloreempty[bg]{block body#1}{%
3271 \begin{beamercolorbox}[vmode]{block body#1}}{
3272 \ifbeamercoloreempty[bg]{block body}{%
3273 \begin{beamercolorbox}[vmode]{block body#1}%
3274 }}%
3275 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3276 \vspace{-\metropolis@parskip}
3277 }}%
3278 \usebeamerfont{block body#1}%
3279 \setlength{\parskip}{\metropolis@parskip}%
3280 }
3281
3282
3283 \setbeamertemplate{footnote}{%
3284 \parindent 0em\noindent%
3285 \bidi@beamer@ragged
3286 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3287 }
3288
3289 \setbeamertemplate{RTLfootnote}{%
3290 \parindent 0em\noindent%
3291 \raggedleft
3292 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3293 }
3294
3295 \setbeamertemplate{LTRfootnote}{%
3296 \parindent 0em\noindent%
3297 \raggedright
3298 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3299 }
3300
3301 \setbeamertemplate{itemize items}{\textbullet}
3302
3303 \setbeamertemplate{section page}[progressbar]
3304
3305

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3306 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for
3307 \setbeamertemplate{sections/subsections in toc}[square]
3308 \setbeamertemplate{items}[square]
3309

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3310 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b

```



```

3311 \setbeamertemplate{blocks}[rounded][shadow=\beamer@themerounded@shadow]
3312 \setbeamertemplate{items}[ball]
3313 \setbeamertemplate{sections/subsections in toc}[ball]
3314

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3315 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3316 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.
3317
3318 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3319
3320 \AtBeginDocument{%
3321   \if@RTLmain
3322     \setbeamertemplate{frametitle}[default][right]
3323   \fi
3324 }
3325
3326 \bidi@csundef{beamer@@tmpop@note page@default}
3327
3328 \newcommand*{\bidi@beamer@today}{%
3329 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3330
3331 \defbeamertemplate*{note page}{default}
3332 {%
3333   {%
3334     \scriptsize
3335     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3336     \ifbeamercolorempy[bg]{note title}{\}%
3337     \insertvrule{.25\paperheight}{note title.bg}%
3338     \vskip-.25\paperheight%
3339     \nointerlineskip%
3340   }%
3341   \vbox{
3342     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3343     \vskip-0.25\paperheight%
3344     \nointerlineskip
3345     \if@RTL
3346       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3347         \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3348           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3349           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@b
3350         \end{pgflowlevelscope}
3351       \end{pgfpicture}%
3352     \else
3353       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3354         \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3355           {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3356           \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@b
3357         \end{pgflowlevelscope}
3358       \end{pgfpicture}%
3359     \fi}
3360   \nointerlineskip
3361   \vbox to .25\paperheight{\vskip0.5em

```



```

3362 \if@RTL
3363 \moveright0.25\textwidth
3364 \fi
3365 \hbox{\insertshorttitle[width=0.75\textwidth]}%
3366 \setbox\beamer@tempbox=\hbox{\insertsection}%
3367
3368 \if@RTL
3369 \moveright\dimexpr0.29\textwidth-14pt\relax
3370 \fi
3371 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3372 width0.4pt height7pt\vrule width 9pt
3373 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\
3374 \if@RTL\endR\fi}%
3375 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3376
3377 \if@RTL
3378 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3379 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3380 width0.4pt height7pt\vrule width 9pt
3381 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\
3382 \if@RTL\endR\fi}%
3383 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3384
3385 \if@RTL
3386 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3387 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3388 width0.4pt height7pt\vrule width 9pt
3389 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3390 \if@RTL\endR\fi}%
3391 \vfil}%
3392 }%
3393 \ifbeamercolorempy[bg]{note page}{-}{%
3394 \nointerlineskip%
3395 \insertvrule{.75\paperheight}{note page.bg}%
3396 \vskip-.75\paperheight%
3397 }%
3398 \vskip.25em
3399 \nointerlineskip
3400 \insertnote
3401 }
3402
3403
3404

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3405 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3406 \bidi@undef\beamer@tmpop@footline@progressbar
3407
3408 \defbeamer*{footline}{progressbar}{%
3409 % If not appendix.
3410 \ifnum\mainend<0% From package appendixnumberbeamer.
3411 %
3412 \settowidth{\focus@pbar@leftoffset}{1}%

```



```

3413 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3414 %
3415 \ifx\beamer@focus@totalframenumbering\no%
3416 \settoheight{\focus@pbar@rightoffset}{}%
3417 \addtolength{\focus@pbar@rightoffset}{0.5em}%
3418 \else%
3419 \settoheight{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3420 \addtolength{\focus@pbar@rightoffset}{1.5em}%
3421 \fi%
3422 %
3423 % If not title page.
3424 \ifnum\value{realframenumber}>0%
3425 \ifnum\value{framenumber}<\inserttotalframenumber%
3426 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3427 \pgfmathsetmacro{\focus@pbar@progress}%
3428 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumber-\value{framenumber})/\value{realframenumber}}
3429
3430 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3431 \if@RTLmain
3432 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3433 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3434 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3435 \else
3436 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3437 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset,\the\focus@pbar@height);
3438 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3439 \fi
3440 \ifx\beamer@focus@totalframenumbering\no%
3441 \else%
3442 \if@RTLmain
3443 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height);
3444 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3445 \else
3446 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height);
3447 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3448 \fi
3449 \fi%
3450 \end{tikzpicture}%
3451 \else%
3452 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3453 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3454 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3455 \if@RTLmain
3456 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3457 \else
3458 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3459 \fi
3460 \ifx\beamer@focus@totalframenumbering\no%
3461 \else%
3462 \if@RTLmain
3463 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3464 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3465 \else
3466 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};

```



```

3467 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3468 \fi
3469 \fi%
3470 \end{tikzpicture}}%
3471 \fi%
3472 \fi%
3473 \fi%
3474 }
3475
3476

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3477 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3478 \bidi\csundef{beamer@tmpop@footline@infolines theme}
3479
3480 \defbeamertemplate*{footline}{infolines theme}
3481 {%
3482 \leavevmode%
3483 \hbox{%
3484 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3485 \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3486 \end{beamercolorbox}}%
3487 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3488 \usebeamerfont{title in head/foot}\insertshorttitle
3489 \end{beamercolorbox}}%
3490 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3491 \hfill%
3492 \usebeamerfont{date in head/foot}%
3493 \insertshortdate{}%
3494 \hfill%
3495 \bgroup
3496 \usebeamercolor[fg]{page number in head/foot}%
3497 \usebeamerfont{page number in head/foot}%
3498 \usebeamertemplate{page number in head/foot}%
3499 \egroup
3500 \end{beamercolorbox}}}%
3501 \vskip0pt%
3502 }
3503
3504 \bidi\csundef{beamer@tmpop@headline@infolines theme}
3505
3506 \defbeamertemplate*{headline}{infolines theme}
3507 {%
3508 \leavevmode%
3509 \hbox{%
3510 \if@RTL
3511 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3512 \else
3513 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3514 \fi
3515 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3516 \end{beamercolorbox}}%
3517 \if@RTL

```




```

3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3519 \else
3520 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3521 \fi
3522 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3523 \end{beamercolorbox}}%
3524 \vskip0pt%
3525 }
3526
3527 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3528 \setbeamertemplate{footline}[infolines theme]%
3529 }
3530

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3531 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3532 \setbeamertemplate{progress bar in head/foot}{
3533 \nointerlineskip
3534 \setlength{\metropolis@progressinheadfoot}{%
3535 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3536 }%
3537 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3538 \begin{tikzpicture}
3539 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3540 \if@RTLmain
3541 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3542 \else
3543 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3544 \fi
3545 \end{tikzpicture}%
3546 \end{beamercolorbox}
3547 }
3548
3549 \AtBeginDocument{%
3550 \setbeamertemplate{frametitle}[plain]%
3551 }
3552
3553

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3554 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3555 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3556
3557 \defbeamertemplate*{headline}{miniframes theme}
3558 {%
3559 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3560 \end{beamercolorbox}
3561 \begin{beamercolorbox}{section in head/foot}
3562 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3563 \end{beamercolorbox}%
3564 \ifbeamer@theme@subsection%
3565 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}

```



```

3566 \end{beamercolorbox}
3567 \if@RTL
3568 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3569 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3570 \else
3571 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3572 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3573 \fi
3574 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3575 \end{beamercolorbox}%
3576 \fi%
3577 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3578 \end{beamercolorbox}
3579 }
3580
3581

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3582 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3583 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3584
3585 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3586
3587 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3588
3589 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3590
3591 \ifdim\beamer@headheight>0pt
3592
3593 \defbeamertemplate*{frametitle}{sidebar theme}
3594 {%
3595 \nointerlineskip%
3596 \ifbeamer@plainframe%
3597 \hbox{\usebeamercolor[bg]{frametitle}%
3598 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3599 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beamer@
3600 \nointerlineskip%
3601 \fi%
3602 \vskip-\beamer@headheight%
3603 \vbox to \beamer@headheight{%
3604 \vfil
3605 \bidi@beamer@leftskip=-\beamer@leftmargin%
3606 \advance\bidi@beamer@leftskip by0.3cm%
3607 \bidi@beamer@rightskip=-\beamer@rightmargin%
3608 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3609 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3610 \ifx\insertframesubtitle\@empty\else%
3611 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3612 \fi%
3613 \vbox{}}%
3614 \vskip-1em%
3615 \vfil
3616 }%

```



```

3617 }
3618
3619 \AtBeginDocument{%
3620   \setbeamertemplate{frametitle}[sidebar theme]%
3621 }
3622
3623 \defbeamertemplate*{headline}{sidebar theme}
3624 {%
3625   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3626     \ifx\beamer@sidebarside\beamer@lefttext%
3627       \else%
3628         \hfill%
3629       \fi%
3630     \ifdim\beamer@sidebarwidth>0pt%
3631       \bgroup
3632       \usebeamercolor[bg]{logo}%
3633       \if@RTLmain
3634       \else
3635         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3636         \hskip-\beamer@sidebarwidth%
3637       \fi
3638       \hbox to \beamer@sidebarwidth{\hss\vbox to
3639         \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3640       \if@RTLmain
3641         \hskip-\beamer@sidebarwidth%
3642         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3643       \fi
3644       \egroup
3645     \else%
3646       \vrule width0pt height \beamer@headheight%
3647     \fi%
3648   \end{beamercolorbox}
3649 }
3650 \fi
3651
3652 \def\beamer@sidebarformat#1#2#3{%
3653 \if@RTL
3654   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3655 \else
3656   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3657 \fi
3658   \vbox{}%
3659   #3\par%
3660   \vbox{}%
3661   \vskip-1.5ex%
3662   \end{beamercolorbox}
3663 }
3664
3665 \ifdim\beamer@sidebarwidth>0pt
3666
3667 \AtBeginDocument{%
3668   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3669 }
3670

```



```

3671 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3672 {
3673   \beamer@tempdim=\beamer@sidebarwidth%
3674   \advance\beamer@tempdim by -6pt%
3675   {\usebeamerfont{title in sidebar}%
3676     \vskip1.5em%
3677     \hskip3pt%
3678     \bgroup
3679     \usebeamercolor[fg]{title in sidebar}%
3680     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3681     \vskip1.25em%
3682   }%
3683   {%
3684     \hskip3pt%
3685     \bgroup
3686     \usebeamercolor[fg]{author in sidebar}%
3687     \usebeamerfont{author in sidebar}%
3688     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3689     \vskip1.25em%
3690   }%
3691   \insertverticalnavigation{\beamer@sidebarwidth}%
3692   \vfill
3693   \ifx\beamer@sidebarside\beamer@lefttext%
3694   \else%
3695     \usebeamercolor{normal text}%
3696     \llap{\usebeamerfont{navigation symbols}\hskip0.1cm}%
3697     \vskip2pt%
3698   \fi%
3699 }%
3700 \fi
3701

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3702 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3703 \bidi@csundef{beamer@tmpop@footline@split theme}
3704
3705 \defbeamerfont*{footline}{split theme}
3706 {%
3707   \leavevmode%
3708   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3709 \else
3710 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3711 \fi
3712   \usebeamerfont{author in head/foot}\insertshortauthor
3713   \end{beamercolorbox}%
3714   \if@RTL
3715     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3716 \else
3717     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3718 \fi
3719     \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3720     \end{beamercolorbox}}%
3721     \vskip0pt%

```



```

3722 }
3723
3724

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3725 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3726 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3727   color(0pt)=(frametitle right.bg);
3728   color(\paperwidth)=(frametitle.bg)
3729 }
3730
3731 \newcommand*{\bidi@beamer@frametitleshade}{%
3732   \if@RTLmain
3733     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3734   \else
3735     \pgfuses shading{beamer@frametitleshade}%
3736   \fi
3737 }
3738
3739 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3740
3741 \defbeamertemplate*{frametitle}{shadow theme}
3742 {%
3743   \nointerlineskip%
3744   \vskip-2pt%
3745   \hbox{\leavevmode
3746     \advance\beamer@leftmargin by -12bp%
3747     \advance\beamer@rightmargin by -12bp%
3748     \beamer@tempdim=\textwidth%
3749     \advance\beamer@tempdim by \beamer@leftmargin%
3750     \advance\beamer@tempdim by \beamer@rightmargin%
3751     \hskip-\Gm@lmargin\hbox{%
3752       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3753         \vbox{}\vskip-.75ex%
3754         \bidi@beamer@leftskip0.3cm%
3755         \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3756         \bgroupp\usebeamerfont[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3757         \ifx\insertframesubtitle\@empty\else%
3758           {\usebeamerfont*{framesubtitle}\usebeamerfont[fg]{framesubtitle}\insertframesu
3759         \fi%
3760         \nointerlineskip
3761         \vbox{}}%
3762       \end{minipage}}%
3763     \beamer@tempdim=\ht\beamer@tempbox%
3764     \advance\beamer@tempdim by 2pt%
3765     \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3766       \begin{pgfscope}
3767         \pgfsetfillcolor{black}%
3768         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3769         \pgfsetfading{beamer@topshadowmask}{}%
3770         \pgfusepath{fill}%
3771       \end{pgfscope}
3772     \begin{pgfscope}

```



```

3773         \usebeamercolor{frametitle right}%
3774         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3775         \pgfusepath{clip}%
3776         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3777         \end{pgfscope}
3778     \end{pgfpicture}
3779     \hskip-\paperwidth%
3780     \box\beamer@tempbox%
3781 }%
3782 \hskip-\Gm@rmargin%
3783 }%
3784 \vskip-2pt
3785 }
3786
3787 \AtBeginDocument{%
3788   \setbeamertemplate{frametitle}[shadow theme]%
3789 }
3790
3791

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3792 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3793 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3794
3795 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3796
3797 \defbeamertemplate*{headline}{smoothbars theme}
3798 {%
3799   \pgfuseshading{beamer@barshade}%
3800   \vskip-0.05ex%
3801   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3802   \begin{pgfpicture}
3803     \begin{pgfscope}%
3804       \ifbeamer@sb@subsection%
3805         \pgfsetfillcolor{subsection in head/foot.bg}%
3806       \else%
3807         \pgfsetfillcolor{section in head/foot.bg}%
3808       \fi%
3809       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3810       \pgfsetfading{beamer@belowframetitlemask}{}%
3811       \pgfusepath{fill}%
3812     \end{pgfscope}%
3813   \end{pgfpicture}%
3814   \end{beamercolorbox}%
3815   \ifbeamer@sb@subsection%
3816     \vskip-9.75ex%
3817   \else%
3818     \vskip-6.85ex%
3819   \fi%
3820   \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3821     \insertnavigation{\paperwidth}
3822   \end{beamercolorbox}%
3823   \ifbeamer@sb@subsection%

```



```

3824 \if@RTL
3825   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3826     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3827   \else
3828     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3829       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3830   \fi
3831   \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3832   \end{beamercolorbox}%
3833   \fi%
3834 }%
3835
3836 \defbeamertemplate*{frametitle}{smoothbars theme}
3837 {%
3838   \nointerlineskip%
3839   \vskip-0.19ex%
3840   \usebeamerfont{headline}%
3841   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3842     \pgfuses shading{beamer@aboveframetitle}%
3843   \end{beamercolorbox}%
3844   \vskip-1ex%
3845   \nointerlineskip%
3846   \if@RTL
3847     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3848   \else
3849     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3850   \fi
3851     \vskip0.5ex%
3852     \usebeamerfont*{frametitle}\strut\insertframetitle%
3853     \ifx\insertframesubtitle\@empty%
3854       \strut\par%
3855     \else
3856       \par{\usebeamerfont*{framesubtitle}\usebeamercolor{fg}{framesubtitle}\strut\insertf
3857     \fi%
3858     \usebeamerfont{headline}%
3859     \vskip0.05ex%
3860   \end{beamercolorbox}%
3861   \nointerlineskip%
3862   \vskip-0.05ex%
3863   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3864   \begin{pgfpicture}
3865     \begin{pgfscope}%
3866       \pgfsetfillcolor{frametitle.bg}%
3867       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3868       \pgfsetfading{beamer@belowframetitlemask}{}%
3869       \pgfusepath{fill}%
3870     \end{pgfscope}%
3871   \end{pgfpicture}%
3872   \end{beamercolorbox}%
3873 }
3874
3875 \AtBeginDocument{%
3876   \setbeamertemplate{frametitle}[smoothbars theme]%
3877 }

```



3878
3879

41 File beamerouterthemesmoothtree-xetex-bidi.def

```
3880 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3881 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3882
3883 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3884
3885 \defbeamertemplate*{headline}{smoothtree theme}
3886 {%
3887   \pgfuses shading{beamer@treeshade}%
3888   \vskip-0.05ex%
3889   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3890   \begin{pgf picture}
3891     \begin{pgf scope}%
3892       \pgfsetfillcolor{subsection in head/foot.bg}%
3893       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3894       \pgfsetfading{beamer@belowframetitlemask}{}%
3895       \pgfusepath{fill}%
3896     \end{pgf scope}%
3897   \end{pgf picture}%
3898   \end{beamer colorbox}%
3899   \vskip-9.15ex%
3900   \if@RTL
3901     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3902       rightskip=.3cm, leftskip=.3cm plus1fil]{title in head/foot}
3903   \else
3904     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3905       leftskip=.3cm, rightskip=.3cm plus1fil]{title in head/foot}
3906     \fi
3907     \usebeamerfont{title in head/foot}\insertshorttitle
3908   \end{beamer colorbox}
3909   \if@RTL
3910     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3911       rightskip=.3cm, leftskip=.3cm plus1fil]{section in head/foot}
3912   \else
3913     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3914       leftskip=.3cm, rightskip=.3cm plus1fil]{section in head/foot}
3915     \fi
3916     \usebeamerfont{section in head/foot}%
3917     \hskip6pt\insertsectionhead
3918   \end{beamer colorbox}
3919   \if@RTL
3920     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3921       rightskip=.3cm, leftskip=.3cm plus1fil]{subsection in head/foot}
3922   \else
3923     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3924       leftskip=.3cm, rightskip=.3cm plus1fil]{subsection in head/foot}
3925     \fi
3926     \usebeamerfont{subsection in head/foot}%
3927     \hskip12pt\insertsubsectionhead
3928   \end{beamer colorbox}
```




```

3929 \vskip-0.4ex%
3930 }
3931
3932 \defbeamertertemplate*{frametitle}{smoothtree theme}
3933 {%
3934 \nointerlineskip%
3935 \vskip-0.05ex%
3936 \usebeamerfont{headline}%
3937 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3938 \pgfuses shading{beamer@aboveframetitle}%
3939 \end{beamercolorbox}
3940 \nointerlineskip%
3941 \if@RTL
3942 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3943 \else
3944 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3945 \fi
3946 \vskip-1.2ex%
3947 \usebeamerfont*{frametitle}\strut\insertframetitle%
3948 \ifx\insertframesubtitle\@empty%
3949 \strut\par%
3950 \else
3951 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3952 \fi%%
3953 \usebeamerfont{headline}%
3954 \end{beamercolorbox}%
3955 \nointerlineskip
3956 \vskip-0.2ex%
3957 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3958 \begin{pgfpicture}
3959 \begin{pgfscope}%
3960 \pgfsetfillcolor{frametitle.bg}%
3961 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3962 \pgfsetfading{beamer@belowframetitlemask}{}%
3963 \pgfusepath{fill}%
3964 \end{pgfscope}%
3965 \end{pgfpicture}%
3966 \end{beamercolorbox}%
3967 }
3968
3969
3970 \AtBeginDocument{%
3971 \setbeamertertemplate{frametitle}[smoothtree theme]%
3972 }
3973
3974

```

42 File beamerouterthemetree-xetex-bidi.def

```

3975 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3976 \bidi@csundef{beamer@tmpop@headline@tree theme}
3977
3978 \defbeamertertemplate*{headline}{tree theme}
3979 {%

```



```

3980 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3981 \end{beamercolorbox}
3982 \if@RTL
3983 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3984 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3985 \else
3986 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3987 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3988 \fi
3989 \usebeamerfont{title in head/foot}\insertshorttitle
3990 \end{beamercolorbox}
3991 \if@RTL
3992 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3993 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3994 \else
3995 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3996 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3997 \fi
3998 \usebeamerfont{section in head/foot}%
3999 \ifbeamer@tree@showhooks
4000 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4001 \ifdim\wd\beamer@tempbox>1pt%
4002 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4003 \hskip1pt%
4004 \fi%
4005 \else%
4006 \hskip6pt%
4007 \fi%
4008 \insertsectionhead
4009 \end{beamercolorbox}
4010 \if@RTL
4011 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4012 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4013 \else
4014 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4015 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4016 \fi
4017 \usebeamerfont{subsection in head/foot}%
4018 \ifbeamer@tree@showhooks
4019 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4020 \ifdim\wd\beamer@tempbox>1pt%
4021 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4022 \hskip1pt%
4023 \fi%
4024 \else%
4025 \hskip12pt%
4026 \fi%
4027 \insertsubsectionhead
4028 \end{beamercolorbox}
4029 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4030 \end{beamercolorbox}
4031 }
4032
4033

```



43 File beamerthemeHannover-xetex-bidi.def

```
4034 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4035 \AtBeginDocument{%
4036   \if@RTLmain
4037     \setbeamertemplate{frametitle}[default][left]%
4038   \else
4039     \setbeamertemplate{frametitle}[default][right]%
4040   \fi
4041 }
4042
4043
```

44 File beamerthemeSingapore-xetex-bidi.def

```
4044 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4045 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4046
4047 \beamertemplatedotitem
4048
4049 \AtBeginDocument{%
4050   \setbeamertemplate{frametitle}[default][center]%
4051 }
4052
4053
```

45 File bidi.sty

```
4054 \NeedsTeXFormat{LaTeX2e}
4055 \def\bididate{2025/09/08}
4056 \def\bidi@version{25.09.08}
4057 \def\bidi@releasename{Iran}
4058 \newcommand*{\bidi@releasename}{\bidi@releasename}
4059 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space
4060 Bidirectional typesetting in plain TeX and LaTeX]
4061 \newif\if@bidi@banner
4062 \newif\if@bidi@pdfbanner
4063 \newif\iffootdir@debug
4064 \newif\if@extrafootnote@features
4065 \newif\if@nonlatin
4066 \newif\if@bidi@pdfm@mark
4067 \newif\if@bidi@perpage@footnote
4068 \ExplSyntaxOn
4069 \msg_new:nnn {bidi} {cannot-use-engine}
4070 {
4071   Oops!~can~not~use~\c_sys_engine_str.\\\
4072   The~bidi~package~requires~XeTeX.
4073 }
4074 \sys_if_engine_xetex:F
4075 {
4076   \msg_fatal:nn {bidi} {cannot-use-engine}
4077 }
4078
4079 \keys_define:nn { bidi }
```



```

4080 {
4081   banner .choice: ,
4082   banner / on .code:n = \@bidi@bannertrue ,
4083   banner / off .code:n = \@bidi@bannerfalse ,
4084   banner .default:n = on
4085 }
4086 \keys_define:nn { bidi }
4087 {
4088   PDFbanner .choice: ,
4089   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4090   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4091   PDFbanner .default:n = on
4092 }
4093 \keys_define:nn { bidi }
4094 {
4095   RTLdocument .choice: ,
4096   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4097   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4098   RTLdocument .default:n = on
4099 }
4100 \keys_define:nn { bidi }
4101 {
4102   rldocument .choice: ,
4103   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4104   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4105   rldocument .default:n = on
4106 }
4107 \keys_define:nn { bidi }
4108 {
4109   documentdirection .choice: ,
4110   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4111   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4112 }
4113 \keys_define:nn { bidi }
4114 {
4115   tabledirection .choice: ,
4116   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4117   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4118 }
4119 \keys_define:nn { bidi }
4120 {
4121   footnotedirection .choice: ,
4122   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4123   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4124 }
4125 \keys_define:nn { bidi }
4126 {
4127   debugfootnotedirection .choice: ,
4128   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4129   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4130   debugfootnotedirection .default:n = on
4131 }
4132 \keys_define:nn { bidi }
4133 {

```



```

4134     footnoterule .choice: ,
4135     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4136     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4137     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4138     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4139     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4140 }
4141 \keys_define:nn { bidi }
4142 {
4143     extrafootnotefeatures .choice: ,
4144     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4145     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4146     extrafootnotefeatures .default:n = on
4147 }
4148 \keys_define:nn { bidi }
4149 {
4150     script .choice: ,
4151     script / latin .code:n = \@nonlatinfalse ,
4152     script / nonlatin .code:n = \@nonlatintrue ,
4153     script .default:n = latin
4154 }
4155 \keys_define:nn { bidi }
4156 {
4157     DetectColumn .choice: ,
4158     DetectColumn / on .code:n =
4159         \def\bidi@firstcolumn@status@write{%
4160             \protected@write\@auxout{%
4161                 {\string\bidi@column@status
4162                     {1}}}
4163         \def\bidi@lastcolumn@status@write{%
4164             \protected@write\@auxout{%
4165                 {\string\bidi@column@status{2}}} ,
4166     DetectColumn / off .code:n =
4167         \let\bidi@firstcolumn@status@write\relax
4168         \let\bidi@lastcolumn@status@write\relax ,
4169     DetectColumn .default:n = on
4170 }
4171 \keys_define:nn { bidi }
4172 {
4173     logo .choice: ,
4174     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4175     logo / off .code:n = \let\@bidi@logo@\empty \let\@bidi@inslogo@\empty ,
4176     logo .default:n = on
4177 }
4178 \keys_define:nn { bidi }
4179 {
4180     pdfinfo .choice: ,
4181     pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4182     pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4183     pdfinfo .default:n = on
4184 }
4185 % The 'perpagefootnote' option is documented in UK TeX FAQ at
4186 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4187 \keys_define:nn { bidi }

```



```

4188 {
4189   perpagefootnote .choice: ,
4190   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4191   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4192   perpagefootnote .default:n = on
4193 }
4194 \keys_set:nn { bidi }
4195 {
4196   banner = on ,
4197   PDFbanner = on ,
4198   DetectColumn = off
4199 }
4200 }
4201 \ExplSyntaxOff
4202 \ProcessKeyOptions
4203 \edef\@bidi@info{*****~J%
4204 * ~J%
4205 * bidi package (Bidirectional typesetting with~J%
4206 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4207 * ~J%
4208 * Description: A convenient interface for~J%
4209 * typesetting bidirectional texts in plain TeX~J%
4210 * and LaTeX. The package includes adaptations~J%
4211 * for use with many other commonly-used packages.~J%
4212 * ~J%
4213 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4214 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4215 * ~J%
4216 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4217 * ~J%
4218 * License: LaTeX Project Public License, version~J%
4219 * 1.3c or higher (your choice)~J%
4220 * ~J%
4221 * Location on CTAN: /macros/unicodetex/generic/bidi~J%
4222 * ~J%
4223 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4224 * ~J%
4225 * Primary author of bidi package: Vafa Khalighi.~J%
4226 * ~J%
4227 *****}
4228 \edef\bidi@everyjob{\the\everyjob}
4229 \if@bidi@banner
4230   \typeout{\@bidi@info}
4231   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4232 \fi
4233 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
4234 \RequirePackage{biditytools}
4235 \RequirePackage{zref-abspage}
4236 \RequirePackage{auxhook}
4237 \RequirePackage{ltxcmds}
4238 \eqnewif{\if@RTLmain}{\if@rlmain}
4239 \eqnewif{\if@RTL}{\if@rl}
4240 \newcommand*{\setlatin}{\@nonlatinfalse}
4241 \newcommand*{\setnonlatin}{\@nonlatintrue}

```



```

4242 \eqnewif{\if@RTLtab}{\if@tab@rl}
4243 \newif\if@hboxRconstruct
4244 \newif\if@bidi@pdfencrypt
4245 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4246 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4247 \newif\if@RTLmarginpar
4248 \newif\if@LTRmarginpar
4249 \newif\if@LTRbibitems
4250 \newif\if@RTLbibitems
4251 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4252 \newif\if@bidi@list@minipage@parbox
4253 \newif\if@bidi@list@minipage@parbox@not@nob
4254 \newcommand*{\@bidi@pdfcreator}{%
4255   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4256 }
4257 \newcommand*{\@bidi@pdfproducer}{%
4258   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4259 }
4260 \newcommand*{\@bidi@pdfcustomproperties}{%
4261   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4262   Released September 8, 2025.
4263 }
4264 \newcommand*{\@bidi@beamer@ragged}{%
4265   \@RTLmainfalse
4266   \AtBeginDocument{%
4267     \if@RTLmain\else
4268       \if@RTL\@RTLmaintrue%
4269       \else\@RTLmainfalse%
4270     \fi%
4271   \fi%
4272 }
4273 \let\n@xt=\
4274 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4275 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4276 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4277 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4278 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4279   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4280 \newinsert\@bidi@copyins@
4281 \skip\@bidi@copyins@=12\p@
4282 \dimen\@bidi@copyins@=40pc
4283 \count\@bidi@copyins@=1000
4284 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4285 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4286   \if@RTLmain
4287     \if@twocolumn
4288       \hboxR to \columnwidth
4289     \else
4290       \hboxR to \textwidth
4291     \fi
4292   \else
4293     \if@twocolumn
4294       \hboxL to \columnwidth
4295     \else

```



```

4296     \hboxL to \textwidth
4297     \fi
4298 \fi
4299 }
4300 \newcommand*{\@bidi@logo}[1]{%
4301   \toks@{%
4302     \setbox\z@\hbox{%
4303       \special{%
4304         pdf:image width 50pt height 50pt (#1)%
4305       }
4306     }%
4307     \dp\z@\z@
4308     \ht\z@=50pt
4309     \wd\z@=50pt
4310     \beginL
4311     \lower20pt\box\z@
4312     \endL
4313   }%
4314   \the\toks@
4315 }
4316 \newcount\@bidi@typesethour
4317 \newcount\@bidi@typesetminute
4318 \@bidi@typesethour=\time
4319 \divide\@bidi@typesethour 60
4320 \@bidi@typesetminute=-\@bidi@typesethour
4321 \multiply\@bidi@typesetminute 60
4322 \advance\@bidi@typesetminute \time
4323 \newcommand*{\TypesetHour}{\two@digits\@bidi@typesethour}
4324 \newcommand*{\TypesetMinute}{\two@digits\@bidi@typesetminute}
4325 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4326 \newcommand*{\@bidi@logo@}{%
4327   \@bidi@logo@hb@xt@columnwidth
4328   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4329     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4330 \ExplSyntaxOn
4331 \keys_define:nn { bidi / pdfencrypt }
4332 {
4333   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4334   userpassword .default:n =
4335 }
4336 \keys_define:nn { bidi / pdfencrypt }
4337 {
4338   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4339   ownerpassword .default:n =
4340 }
4341 \keys_define:nn { bidi / pdfencrypt }
4342 {
4343   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4344   keylength .default:n = 128
4345 }
4346 \keys_define:nn { bidi / pdfencrypt }
4347 {
4348   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4349   permissionflags .default:n = 2052

```




```

4350 }
4351 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4352 \ExplSyntaxOff
4353 \@onlypreamble\pdfencryptsetup
4354 \input{latex-xetex-bidi.def}
4355
4356 \pdfencryptsetup{%
4357   userpassword,%
4358   ownerpassword,%
4359   keylength,%
4360   permissionflags%
4361 }
4362
4363 \if@extrafootnotefeatures
4364   \input{extrafootnotefeatures-xetex-bidi.def}
4365 \fi
4366 \newcount\bidi@digits
4367 \XeTeXinterchartokenstate=\@ne
4368 \newXeTeXintercharclass\bidi@digits@charclass
4369 \newXeTeXintercharclass\bidi@sepmark@charclass
4370 \XeTeXcharclass`\.\ \bidi@sepmark@charclass
4371 \XeTeXcharclass`- \bidi@sepmark@charclass
4372 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4373 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4374 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4375 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4376 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4377 \bidi@AtEndPreamble{%
4378   \if@bidi@perpage@footnote
4379     \RequirePackage{bidi-perpage}%
4380     \ResetCounterPerPage{footnote}%
4381   \fi
4382   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4383     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4384       \@bidi@pdfencryptfalse
4385     else
4386       \@bidi@pdfencrypttrue
4387     \fi
4388   \else
4389     \@bidi@pdfencrypttrue
4390   \fi
4391   \if@bidi@pdfencrypt
4392     \special{pdf:encrypt
4393       userpw (\bidi@pdfencrypt@userpassword)
4394       ownerpw (\bidi@pdfencrypt@ownerpassword)
4395       length \bidi@pdfencrypt@keylength
4396       perm \bidi@pdfencrypt@permissionflags
4397     }%
4398   \fi
4399 }
4400 \if@bidi@pdfbanner
4401   \if@bidi@pdfm@mark
4402     \AtEndDocument{%
4403       \special{pdf:%

```



```

4404      docinfo<<%
4405          /Creator(\@bidi@pdfcreator)%
4406          /Producer(\@bidi@pdfproducer)%
4407          /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4408          \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4409              /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4410          }{}%
4411      >>%
4412  }%
4413  }
4414  \else
4415      \AtEndDocument{%
4416          \special{pdf:%
4417              docinfo<<%
4418                  /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4419                  \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4420                      /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4421                  }{}%
4422              >>%
4423          }%
4424      }
4425      \fi
4426  \else
4427      \if@bidi@pdfm@mark
4428          \AtEndDocument{%
4429              \special{pdf:%
4430                  docinfo<<%
4431                      /Creator(\@bidi@pdfcreator)%
4432                      /Producer(\@bidi@pdfproducer)%
4433                  >>%
4434              }%
4435          }
4436      \fi
4437  \fi

```

46 File bidi.tex

```

4438 \def\bididate{2025/09/08}
4439 \catcode\@=11
4440 \def\bidi@version{25.09.08}
4441 \def\bidi@releasename{Iran}
4442 \def\bidi@releasename{\bidi@releasename}
4443 \let \protect \relax
4444 \newlinechar`^^J
4445 \edef\@bidi@info{*****^^J%
4446 * ^^J%
4447 * bidi package (Bidirectional typesetting with^^J%
4448 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4449 * ^^J%
4450 * Description: A convenient interface for^^J%
4451 * typesetting bidirectional texts in plain TeX^^J%
4452 * and LaTeX. The package includes adaptations^^J%
4453 * for use with many other commonly-used packages.^^J%
4454 * ^^J%

```



```

4455 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4456 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4457 * ^^J%
4458 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4459 * ^^J%
4460 * License: LaTeX Project Public License, version^^J%
4461 * 1.3c or higher (your choice)^^J%
4462 * ^^J%
4463 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4464 * ^^J%
4465 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4466 * ^^J%
4467 * Primary author of bidi package: Vafa Khalighi.^^J%
4468 * ^^J%
4469 *****}
4470 \edef\bidi@everyjob{\the\everyjob}
4471 \message{\@bidi@info}
4472 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4473 \def\bidiversion{%
4474   \relax
4475   \ifmmode
4476     \bidi@version
4477   \else
4478     $\bidi@version$
4479   \fi
4480 }
4481 \input iftex.sty
4482 \RequireXeTeX
4483 \newif\if@bidi@pdfm@mark
4484 \newif\if@RTLmain
4485 \newif\if@RTL
4486 \newif\if@hboxRconstruct
4487 \newif\if@sentedir
4488 \newif\if@RTL@footnote
4489 \@RTLmainfalse
4490 \def\setRTLmain{%
4491   \if@RTLmain\else
4492     \if@RTL\@RTLmaintrue%
4493     \else\@RTLmainfalse%
4494   \fi%
4495   \fi%
4496 }
4497 \let\n@xt=\
4498 \protected\def\LRE{\protect\pLRE}%
4499 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4500 \protected\def\RLE{\protect\pRLE}
4501 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4502 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4503   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4504 \newinsert\@bidi@copyins@
4505 \skip\@bidi@copyins@=12\p@
4506 \dimen\@bidi@copyins@=40pc
4507 \count\@bidi@copyins@=1000
4508 \def\@bidi@inslogo@\{ \insert\@bidi@copyins@\{\@bidi@logo@\} }

```



```

4509 \def\@bidi@logo@hb@xt@{%
4510   \if@RTLmain
4511     \hboxR to
4512   \else
4513     \hboxL to
4514   \fi
4515 }
4516 \def\@bidi@logo#1{%
4517   \toks@{%
4518     \setbox\z@\hbox{%
4519       \special{%
4520         pdf:image width 50pt height 50pt (#1)%
4521       }
4522     }%
4523     \dp\z@\z@
4524     \ht\z@=50pt
4525     \wd\z@=50pt
4526     \beginL
4527     \lower20pt\box\z@
4528     \endL
4529   }%
4530   \the\toks@
4531 }
4532 \def\today{\ifcase\month\or
4533   January\or February\or March\or April\or May\or June\or
4534   July\or August\or September\or October\or November\or December\fi
4535   \space\number\day, \number\year}
4536 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4537 \newcount\bidi@typesethour
4538 \newcount\bidi@typesetminute
4539 \bidi@typesethour=\time
4540 \divide\bidi@typesethour 60
4541 \bidi@typesetminute=-\bidi@typesethour
4542 \multiply\bidi@typesetminute 60
4543 \advance\bidi@typesetminute \time
4544 \def\TypesetHour{\two@digits\bidi@typesethour}
4545 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4546 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4547 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4548 \def\bidi@logo{\@bidi@inslogo@}
4549 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4550 \def\@bidi@pdfcreator{%
4551   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4552 }
4553 \def\@bidi@pdfproducer{%
4554   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4555 }
4556 \def\@bidi@pdfcustomproperties{%
4557   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4558   Released September 8, 2025.
4559 }
4560 \def\bidi@pdfm@mark{%
4561   \special{pdf:%
4562     docinfo<<%

```



```

4563 \if@bidi@pdfm@mark
4564 /Creator(\@bidi@pdfcreator)%
4565 /Producer(\@bidi@pdfproducer)%
4566 \fi
4567 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4568 >>%
4569 }%
4570 }
4571 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4572 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4573 \input plain-xetex-bidi.def
4574 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4575 \catcode\@=12
4576 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4577 \NeedsTeXFormat{LaTeX2e}
4578 \ProvidesPackage{bidi2in1}
4579 \pagestyle{plain}
4580 \newcount\evenpage
4581 \newcount\oddpag
4582 \twocolumn
4583 \def\@oddfoot{\evenpage=\thepage%
4584 \multiply\evenpage by 2%
4585 \oddpag=\the\evenpage%
4586 \advance\oddpag by -1%
4587 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
4588 \def\@evenfoot{\evenpage=\thepage%
4589 \multiply\evenpage by 2%
4590 \oddpag=\the\evenpage%
4591 \advance\oddpag by -1%
4592 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
4593 \textwidth 9.49in
4594 \textheight 6.7in
4595 \columnsep 0.9in
4596 \columnseprule 0.125pt
4597 \headheight 0cm
4598 \topmargin 0in
4599 \marginparwidth 0in
4600 \marginparsep 0in
4601 \hoffset 0.05in % Corrected
4602 \voffset -0.5in %top margin space is 1.0in by default
4603 \oddsidemargin 0in
4604 \evensidemargin 0in
4605 \headsep 0cm
4606 \topskip 0cm
4607 \parskip 0.15in %
4608 \headsep 0pt
4609 \special{papersize=11.69in,8.26in}
4610 \renewcommand\maketitle{\par
4611 \begingroup
4612 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4613 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

4614 \long\def\@makefntext##1{\parindent 1em\noindent
4615 \hb@xt@1.8em{%
4616 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4617 \@maketitle
4618 \@thanks
4619 \endgroup
4620 \setcounter{footnote}{0}%
4621 \global\let\thanks\relax
4622 \global\let\maketitle\relax
4623 \global\let\@maketitle\relax
4624 \global\let\@thanks\@empty
4625 \global\let\@author\@empty
4626 \global\let\@date\@empty
4627 \global\let\@title\@empty
4628 \global\let\title\relax
4629 \global\let\author\relax
4630 \global\let\date\relax
4631 \global\let\and\relax
4632 }

```

48 File bidicode.sty

```

4633 \NeedsTeXFormat{LaTeX2e}
4634 \ProvidesPackage{bidicode}
4635 \RequirePackage{xcolor}
4636 \RequirePackage{showexpl}
4637 \definecolor{hellgelb}{rgb}{1,1,0.85}
4638 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4639 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4640 \definecolor{colIdentifier}{rgb}{0,0,0}
4641 \definecolor{colComments}{rgb}{1,0,0}
4642 \definecolor{colString}{rgb}{0,0.5,0}
4643 \lstset{%
4644     language=[LaTeX]TeX,%
4645     float=hbp,%
4646     basicstyle=\ttfamily\small,%
4647     identifierstyle=\color{colIdentifier},%
4648     keywordstyle=\color{colKeys},%
4649     texcsstyle=\color{colCS},%
4650     stringstyle=\color{colString},%
4651     commentstyle=\color{colComments},%
4652     backgroundcolor=\color{hellgelb},%
4653     columns=flexible,%
4654     tabsize=4,%
4655     extendedchars=true,%
4656     showspaces=false,%
4657     showstringspaces=false,%
4658     numbers=left,%
4659     numbersep=0.9em,%
4660     numberstyle=\tiny,%
4661     frame=single,%
4662     captionpos=b,%
4663     xleftmargin=1em,%
4664     breaklines=true,%

```



```

4665     breakautoindent=false,%
4666     breakindent=0pt,%
4667     escapeinside=**,%
4668     pos=r,%
4669     explpreset={%
4670         xleftmargin=1em,%
4671         columns=flexible,%
4672         language=[LaTeX]TeX%
4673     },%
4674     moretexcs={%
4675         bididate,%
4676         bidiversion,%
4677         deflatinfont,%
4678         defpersianfont,%
4679         ding,%
4680         endLTR,%
4681         endRTL,%
4682         false,%
4683         falsesymbol,%
4684         junicode,%
4685         lr,%
4686         LR,%
4687         LRE,%
4688         LTR,%
4689         maketitle,%
4690         Nastaliq,%
4691         newfontfamily,%
4692         Parsifont,%
4693         part,%
4694         RL,%
4695         RLE,%
4696         RTL,%
4697         RTLcases,%
4698         SepMark,%
4699         setLR,%
4700         setLTR,%
4701         setRL,%
4702         setRTL,%
4703         settextfont,%
4704         subsection,%
4705         subsubsection,%
4706         tableofcontents,%
4707         text,%
4708         theequation,%
4709         thesection,%
4710         true,%
4711         truesymbol,%
4712         XePersian,%
4713         xepersiandate,%
4714         xepersianversion%
4715     }%
4716 }
4717 \newcommand\HLON{%
4718     \gdef\lst@alloverstyle##1{%

```



```

4719 \fboxrule=0pt
4720 \fboxsep=0pt
4721 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4722 }}
4723 \newcommand\HLOFF{%
4724 \xdef\lst@alloverstyle##1{##1}%
4725 }
4726 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
4727 \newcommand\Larga[1]{\$\langle$\Larg{#1}$\rangle$}
4728 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4729 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4730 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4731 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4732 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4733
4734 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4735 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4736 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4737 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4738 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4739 \DeclareRobustCommand\lrb{\normalfont\ttfamily{}}
4740 \DeclareRobustCommand\rrb{\normalfont\ttfamily}}
4741
4742 \def\Lcs#1{\nxLcs{#1}}
4743 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4744 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4745
4746 \def\Coordx#1{$_{#1}$}
4747 \def\Coordy#1{$_{#1}$}
4748 \def\Coordz#1{$_{#1}$}
4749 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4750 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4751 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4752 \def\CAny{\Coordx{ },\kern 1pt\Coordy{ }}
4753 \def\CIIIAny{\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ }}
4754 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4755 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4756 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4757 \def\coordx#1{($x_{#1}$)}
4758 \def\coordy#1{($y_{#1}$)}
4759 \def\coordz#1{($z_{#1}$)}
4760 \def\cAny{(\Coordx{ },\kern 1pt\Coordy{ })}
4761 \def\ciiiiAny{(\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ })}
4762
4763 \newsavebox{\boxdef}
4764 \newenvironment{BDef}
4765 {\begin{lrbox}\boxdef
4766 \def\arraystretch{1.0}
4767 \begin{tabular}{@{}l@{}l@{}l@{}}
4768 }
4769 {\end{tabular}\end{lrbox}}
4770
4771 {\BCmd\fbox{\usebox\boxdef}\endBCmd}
4772 \aftergroup\@afterindentfalse\aftergroup\@afterheading

```




```

4773 }
4774
4775 \newenvironment{BDef*}
4776   {\begin{lrbox}\boxdef
4777     \def\arraystretch{1.0}
4778     \begin{tabular}{@{}l@{}l@{}l@{}}
4779   }
4780   {\end{tabular}\end{lrbox}
4781   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4782   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4783 }
4784 \newenvironment{BCmd*}{
4785   \@beginparpenalty-\@lowpenalty
4786   \topsep\BDefaboveskip
4787   \fboxsep3pt
4788   \flushleft}
4789 {\@endparpenalty\@M
4790  \@topsepadd\BDefbelowskip
4791  \endflushleft}
4792
4793 \newenvironment{BCmd*}{
4794   \@beginparpenalty\@M
4795   \topsep\BDefinlineskip
4796   \fboxsep3pt
4797   \flushleft}
4798 {\@endparpenalty5000
4799  \endflushleft}
4800
4801 \newskip\BDefaboveskip
4802 \newskip\BDefbelowskip
4803 \newskip\BDefinlineskip
4804 \setlength\BDefaboveskip{10pt plus 4pt}
4805 \setlength\BDefbelowskip{6pt}
4806 \setlength\BDefinlineskip{6pt}
4807
4808 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4809 \def\OptArg{\@ifnextchar*\OptArgi{\OptArg@ii*}}
4810 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4811 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4812 \NeedsTeXFormat{LaTeX2e}
4813 \ProvidesPackage{bidiftnxtra}
4814 \newtoks\bidip@ftn
4815 \let\FN@sff@footnote\footnote
4816 \let\FN@sff@LTRfootnote\LTRfootnote
4817 \let\FN@sff@RTLfootnote\RTLfootnote
4818 \def\footnote{\ifx\protect\@typeset@protect
4819   \expandafter\FN@sff@footnote
4820   \else
4821     \expandafter\FN@sff@gobble@opt
4822   \fi
4823 }

```



```

4824 \def\LTRfootnote{\ifx\protect\@typeset@protect
4825   \expandafter\FN@sfi@LTRfootnote
4826   \else
4827   \expandafter\FN@sfi@gobble@opt
4828   \fi
4829 }
4830 \def\RTLfootnote{\ifx\protect\@typeset@protect
4831   \expandafter\FN@sfi@RTLfootnote
4832   \else
4833   \expandafter\FN@sfi@gobble@opt
4834   \fi
4835 }
4836 \edef\FN@sfi@gobble@opt{\noexpand\protect
4837   \expandafter\noexpand\csname FN@sfi@gobble@opt \endcsname}
4838 \expandafter\def\csname FN@sfi@gobble@opt \endcsname{%
4839   \@ifnextchar[%]
4840     \FN@sfi@gobble@twobrace
4841     \@gobble
4842 }
4843 \def\FN@sfi@gobble@twobrace[#1]#2{}
4844 \let\FN@sfi@footnotemark\footnotemark
4845 \def\footnotemark{\ifx\protect\@typeset@protect
4846   \expandafter\FN@sfi@footnotemark
4847   \else
4848   \expandafter\FN@sfi@gobble@optonly
4849   \fi
4850 }
4851 \edef\FN@sfi@gobble@optonly{\noexpand\protect
4852   \expandafter\noexpand\csname FN@sfi@gobble@optonly \endcsname}
4853 \expandafter\def\csname FN@sfi@gobble@optonly \endcsname{%
4854   \@ifnextchar[%]
4855     \FN@sfi@gobble@brace
4856     {}%
4857 }
4858 \def\FN@sfi@gobble@brace[#1]{}
4859 \def\@tabular{%
4860   \leavevmode \hbox \bgroup
4861   \let\@footnotetext\@bidi@p@ftntext
4862   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4863   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4864   \let\@xfootnotenext\@bidi@p@xftntext
4865   \let\@xfootnote\@bidi@p@xfootnote
4866   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4867   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4868   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4869   \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4870   \if@RTLtab\beginR \fi
4871   $\let\@acol\@tabacol
4872   \let\@classz\@tabclassz
4873   \let\@classiv\@tabclassiv \let\\\@tabulacr\@tabarray}
4874 \def\endtabular{\@cacr\egroup\if@RTLtab\egroup\endR\egroup\fi
4875   \egroup $\if@RTLtab\endR\fi\egroup
4876   \ifx\@captive\@undefined
4877     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}

```



```

4878 \long\def\bidip@ftntext#1{%
4879   \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
4880   \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4881 \long\def\bidip@LTRftntext#1{%
4882   \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4883   \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4884 \long\def\bidip@RTLftntext#1{%
4885   \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4886   \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4887
4888
4889 \long\def\bidip@xftntext[#1]#2{%
4890   \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4891
4892 \long\def\bidip@xLTRftntext[#1]#2{%
4893   \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4894
4895 \long\def\bidip@xRTLftntext[#1]#2{%
4896   \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4897
4898
4899 \def\bidip@xfootnote[#1]{%
4900   \begingroup
4901     \csname c@\mpfn\endcsname #1\relax
4902     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4903   \endgroup
4904   \@footnotemark\bidip@xftntext[#1]}
4905
4906
4907 \def\bidip@xLTRfootnote[#1]{%
4908   \begingroup
4909     \csname c@\mpfn\endcsname #1\relax
4910     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4911   \endgroup
4912   \@footnotemark\bidip@xLTRftntext[#1]}
4913
4914
4915 \def\bidip@xRTLfootnote[#1]{%
4916   \begingroup
4917     \csname c@\mpfn\endcsname #1\relax
4918     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4919   \endgroup
4920   \@footnotemark\bidip@xRTLftntext[#1]}
4921
4922 \def\@xfloat #1[#2]{%
4923   \@nodocument
4924   \def \@captype {#1}%
4925   \def \@fps {#2}%
4926   \@onelevel@sanitize \@fps
4927   \def \reserved@b {!}%
4928   \ifx \reserved@b \@fps
4929     \@fpsadddefault
4930   \else
4931     \ifx \@fps \@empty

```



```

4932     \@fpsadddefault
4933     \fi
4934 \fi
4935 \ifhmode
4936     \@bsphack
4937     \@floatpenalty -\@Mii
4938 \else
4939     \@floatpenalty-\@Miii
4940 \fi
4941 \ifinner
4942     \@parmoderr\@floatpenalty\z@
4943 \else
4944     \@next\@currbox\@freelist
4945     {%
4946     \@tempcnta \sixt@n
4947     \expandafter \@tfor \expandafter \reserved@a
4948     \expandafter :\expandafter =\@fps
4949     \do
4950     {%
4951         \if \reserved@a h%
4952             \ifodd \@tempcnta
4953             \else
4954                 \advance \@tempcnta \@ne
4955             \fi
4956         \fi
4957         \if \reserved@a t%
4958             \@setfpsbit \tw@
4959         \fi
4960         \if \reserved@a b%
4961             \@setfpsbit 4%
4962         \fi
4963         \if \reserved@a p%
4964             \@setfpsbit 8%
4965         \fi
4966         \if \reserved@a !%
4967             \ifnum \@tempcnta>15
4968                 \advance\@tempcnta -\sixt@n\relax
4969             \fi
4970         \fi
4971     }%
4972     \@tempcntb \csname ftype@\@capttype \endcsname
4973     \multiply \@tempcntb \@xxxii
4974     \advance \@tempcnta \@tempcntb
4975     \global \count\@currbox \@tempcnta
4976     }%
4977 \@fltovf
4978 \fi
4979 \global \setbox\@currbox
4980     \color@vbox
4981     \normalcolor
4982     \vbox \bgroup
4983     \let\@footnotetext\@bidi@p@ftntext
4984     \let\@LTRfootnotetext\@bidi@p@LTRftntext
4985     \let\@RTLfootnotetext\@bidi@p@RTLftntext

```



```

4986 \let\@xfootnotenext\@xftntext
4987 \let\@xfootnote\@xfootnote
4988 \let\@xLTRfootnotenext\@xLTRftntext
4989 \let\@xLTRfootnote\@xLTRfootnote
4990 \let\@xRTLfootnotenext\@xRTLftntext
4991 \let\@xRTLfootnote\@xRTLfootnote
4992 \hsize\columnwidth
4993 \@parboxrestore
4994 \@floatboxreset
4995 }
4996 \def \@endfloatbox{%
4997 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
4998 \@minipagefalse
4999 \outer@nobreak
5000 \egroup %% end of vbox
5001 \global\@xftn\expandafter{\expandafter}\the\@xftn
5002 \color@endbox
5003 }

```

50 File bidimoderncv.cls

```

5004 \NeedsTeXFormat{LaTeX2e}
5005 \ProvidesClass{bidimoderncv}
5006 \newif\if@DEBUG\@DEBUGfalse
5007 \DeclareOption{a4paper}{
5008 \setlength\paperheight{297mm}
5009 \setlength\paperwidth{210mm}}
5010 \DeclareOption{a5paper}{
5011 \setlength\paperheight{210mm}
5012 \setlength\paperwidth{148mm}}
5013 \DeclareOption{b5paper}{
5014 \setlength\paperheight{250mm}
5015 \setlength\paperwidth{176mm}}
5016 \DeclareOption{letterpaper}{
5017 \setlength\paperheight{11in}
5018 \setlength\paperwidth{8.5in}}
5019 \DeclareOption{legalpaper}{
5020 \setlength\paperheight{14in}
5021 \setlength\paperwidth{8.5in}}
5022 \DeclareOption{executivepaper}{
5023 \setlength\paperheight{10.5in}
5024 \setlength\paperwidth{7.25in}}
5025 \DeclareOption{landscape}{
5026 \setlength\@tempdima{\paperheight}
5027 \setlength\paperheight{\paperwidth}
5028 \setlength\paperwidth{\@tempdima}}
5029 \newcommand\@ptsize{}
5030 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5031 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5032 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5033 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5034 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5035 \newif\if@colour\@colourtrue
5036 \DeclareOption{nocolour}{\@colourfalse}

```



```

5037 \ExecuteOptions{a4paper,11pt,colour,final}
5038 \ProcessOptions\relax
5039 \input{size1\@ptsize.clo}
5040 \RequirePackage{color}
5041 \RequirePackage{graphicx}
5042 \RequirePackage{ifthen}
5043 \RequirePackage{marvosym}
5044 \addtolength{\oddsidemargin}{-54pt}
5045 \addtolength{\textwidth}{109pt}
5046 \addtolength{\topmargin}{-70pt}
5047 \addtolength{\textheight}{122pt}
5048 \addtolength{\marginparsep}{-5pt}
5049 \addtolength{\marginparwidth}{-10pt}
5050 \RequirePackage{url}
5051 \RequirePackage{hyperref}
5052 \hypersetup{%
5053   breaklinks,
5054   baseurl      = http://,%
5055   pdfborder    = 0 0 0,%
5056   pdfpagemode  = UseNone,%
5057   pdfstartpage = 1}
5058 \AtEndOfClass{%
5059   \AtBeginDocument{%
5060     \hypersetup{%
5061       pdfauthor      = \@firstname~\@familyname,%
5062       pdftitle       = \@title,%
5063       pdfsubject     = \@firstname~\@familyname,%
5064       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
5065 \urlstyle{tt}
5066 \RequirePackage{fancyhdr}
5067 \fancypagestyle{plain}{%
5068   \renewcommand{\headrulewidth}{0pt}
5069   \renewcommand{\footrulewidth}{0pt}
5070   \fancyhf{}}
5071 \pagestyle{plain}
5072 \setlength\lineskip{1\p@}
5073 \setlength\normallineskip{1\p@}
5074 \renewcommand\baselinestretch{}
5075 \setlength{\parindent}{0pt}
5076 \setlength{\parskip}{0pt}
5077 \setlength\columnsep{10\p@}
5078 \setlength\columnseprule{0\p@}
5079 \pagestyle{empty}
5080 \pagenumbering{arabic}
5081 \raggedbottom
5082 \onecolumn
5083 \providecommand*\listitemsymbol{\textbullet}
5084 \providecommand*\addresssymbol{}
5085 \providecommand*\mobilesymbol{\Mobilefone}
5086 \providecommand*\phonesymbol{\Telefon}
5087 \providecommand*\faxsymbol{\FAX}
5088 \providecommand*\emailsymbol{\Letter}
5089 \definecolor{firstnamecolor}{rgb}{0,0,0}
5090 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}

```



```

5091 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5092 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5093 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5094 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5095 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5096 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5097 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5098 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5099 \providecommand*\{firstnamedfont}{\font}
5100 \providecommand*\{familynamedfont}{\font}
5101 \providecommand*\{titledfont}{\font}
5102 \providecommand*\{addressfont}{\font}
5103 \providecommand*\{quotedfont}{\font}
5104 \providecommand*\{sectionfont}{\font}
5105 \providecommand*\{subsectionfont}{\font}
5106 \providecommand*\{hintfont}{\font}
5107 \providecommand*\{firstnamedstyle}[1]{\font\@firstnamedfont\@firstnamedcolour#1}
5108 \providecommand*\{familynamedstyle}[1]{\font\@familynamedfont\@familynamedcolour#1}
5109 \providecommand*\{titledstyle}[1]{\font\@titledfont\@titledcolour#1}
5110 \providecommand*\{addressstyle}[1]{\font\@addressfont\@addresscolour#1}
5111 \providecommand*\{quotedstyle}[1]{\font\@quotedfont\@quotecolour#1}
5112 \providecommand*\{sectionstyle}[1]{\font\@sectionfont\@sectiontitlecolour#1}
5113 \providecommand*\{subsectionstyle}[1]{\font\@subsectionfont\@subsectioncolour#1}
5114 \providecommand*\{hintstyle}[1]{\font\@hintfont\@hintcolour#1}
5115 \newcommand*\{cvtheme}[2][\font]{
5116   \def\@cvtheme{#2}
5117   \def\@cvthemeoptions{#1}}
5118 \cvtheme{bidi-casual}
5119 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5120 \newcommand*\{resumename}[1]{\def\@resumename{#1}}
5121 \newcommand*\{firstname}[1]{\def\@firstname{#1}}
5122 \newcommand*\{familyname}[1]{\def\@familyname{#1}}
5123 \renewcommand*\{title}[1]{\def\@title{#1}}
5124 \newcommand*\{address}[1]{\def\@address{#1}}
5125 \newcommand*\{mobile}[1]{\def\@mobile{#1}}
5126 \newcommand*\{phone}[1]{\def\@phone{#1}}
5127 \renewcommand*\{fax}[1]{\def\@fax{#1}}
5128 \newcommand*\{email}[1]{\def\@email{#1}}
5129 \newcommand*\{extrainfo}[1]{\def\@extrainfo{#1}}
5130 \def\@photowidth{0pt}
5131 \newcommand*\{photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5132 \newcommand*\{quote}[1]{\def\@quote{#1}}
5133 \newlength{\quotewidth}
5134 \newlength{\hintscolumnwidth}
5135 \newlength{\separatorcolumnwidth}
5136 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5137 \newlength{\maincolumnwidth}
5138 \newlength{\doubleitemmaincolumnwidth}
5139 \newlength{\listitemsymbolwidth}
5140 \settozero{\listitemsymbolwidth}{\listitemsymbol{~}}
5141 \newlength{\listitemmaincolumnwidth}
5142 \newlength{\listdoubleitemmaincolumnwidth}
5143 \newcommand*\{recomputethemelengths}{\font}
5144 \newcommand*\{recomputelengths}{\font}

```



```

5145 \setlength{\quotewidth}{0.65\textwidth}%
5146 \setlength{\maincolumnwidth}{\textwidth}%
5147 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5148 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5149 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5150 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5151 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5152 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5153 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5154 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5155 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5156 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5157 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5158 \renewcommand{\headwidth}{\textwidth}%
5159 \recomputethemelengths
5160 \setlength{\hintscolumnwidth}{0.15\textwidth}
5161 \recomputelengths
5162 \title{}
5163 \renewcommand*{\maketitle}{}
5164 \newcommand*{\section}[1]{%
5165 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5166 \phantomsection}%
5167 \addcontentsline{toc}{part}{#1}%
5168 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5169 \hspace{\separatorcolumnwidth}%
5170 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5171 \newcommand*{\subsection}[1]{%
5172 \cvline[0.45em]{\subsectionstyle{#1}}
5173 \newcommand*{\cvline}[3][.25em]{%
5174 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5175 \bidi@raggedleft\hintfont{#2} &{#3}%
5176 \end{tabular}\[\[1]}
5177 \newcommand*{\cvdoubleitem}[4]{%
5178 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5179 \hfill%
5180 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5181 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5182 \cvline[0pt]{\#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5183 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5184 \cvline[0pt]{\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5185 \hfill%
5186 \ifthenelse{equal{#3}}{
5187 }{
5188 {\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}
5189 \newcommand*{\cventry}[6]{%
5190 \cvline{#1}{
5191 {\bfseries#2}%
5192 \ifx#3\else{, {\slshape#3}}\fi%
5193 \ifx#4\else{, #4}\fi%
5194 \ifx#5\else{, #5}\fi%
5195 .%
5196 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5197 }%
5198 \newcommand*{\cvlanguage}[3]{%

```




```

5199 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#3}\end{minipage}\hfill\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#4}\end{minipage}}
5200 \newcommand*{\cvcomputer}[4]{%
5201 \cvdoubleitem{#1}{\small#2}{\small#3}{\small#4}}
5202 \newcommand*{\link}[2][{}]{%
5203 \ifthenelse{\equal{#1}{}}{%
5204 \href{#2}{#2}}%
5205 \href{#2}{#1}}
5206 \newcommand*{\httplink}[2][{}]{%
5207 \ifthenelse{\equal{#1}{}}{%
5208 \href{http://#2}{#2}}%
5209 \href{http://#2}{#1}}
5210 \newcommand*{\emailink}[2][{}]{%
5211 \ifthenelse{\equal{#1}{}}{%
5212 \href{mailto:#2}{#2}}%
5213 \href{mailto:#2}{#1}}
5214 \newif\if@displaypagenumbers\@displaypagenumberstrue
5215 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5216 \AtBeginDocument{%
5217 \if@displaypagenumbers%
5218 \ifundefined{r@lastpage}{\if%
5219 \ifthenelse{\pageref{lastpage} > 1}{%
5220 \fancypagestyle{plain}{%
5221 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pageref{lastpage}}}%
5222 \pagestyle{plain}}}{\if%
5223 \AtEndDocument{\label{lastpage}}}%
5224 \fi}
5225 \newlength{\bibindent}
5226 \setlength{\bibindent}{1.5em}
5227 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5228 \newenvironment{thebibliography}[1]{%
5229 {%
5230 \section{\refname}%
5231 \small%
5232 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5233 \bidi@thebibliography@font@hook%
5234 \begin{list}{\bibliographyitemlabel}%
5235 {%
5236 \setlength{\topsep}{0pt}%
5237 \setlength{\labelwidth}{\hintscolumnwidth}%
5238 \setlength{\labelsep}{\separatorcolumnwidth}%
5239 \leftmargin\labelwidth%
5240 \advance\leftmargin\labelsep%
5241 \@openbib@code%
5242 \usecounter{enumiv}%
5243 \let\p@enumiv\@empty%
5244 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5245 \sloppy\clubpenalty4000\widowpenalty4000%
5246 }%
5247 {%
5248 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5249 \end{list}%
5250 }
5251 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5252 \let\@openbib@code\@empty

```



51 File bidi-perpage.sty

```

5253 \NeedsTeXFormat{LaTeX2e}
5254 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5255 \newcount\bidi@page@count
5256 \bidi@page@count\@ne
5257 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5258   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5259     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5260     }{%
5261     \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5262       \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5263     }{%
5264     \if@bidi@csundef\bidi@#2@count}{%
5265       \expandafter\newcount\csname bidi@#2@count\endcsname
5266     }{%
5267     \csname bidi@#2@count\endcsname\z@
5268     \if@bidi@csundef\bidi@previous@page@#2@count}{%
5269       \expandafter\newcount\csname
5270       bidi@previous@page@#2@count\endcsname
5271     }{%
5272     \csname bidi@previous@page@#2@count\endcsname\z@
5273     \if@bidi@csundef\bidi@reset@#2@perpage}{%
5274       \bidi@AfterEndDocumentCheckLabelsRerun{%
5275         \csname if@bidi@reset@#2@rerun\endcsname
5276         \PackageWarningNoLine{bidi-perpage}{%
5277           Counter `#2' may not have been reset per page.
5278           Rerun to reset counter `#2' per page%
5279         }%
5280       \fi
5281     }%
5282   }{%
5283     \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5284       \global\advance\csname bidi@#2@count\endcsname\@ne
5285       \if@filesw
5286         \edef\@tempa{%
5287           \write\@auxout{%
5288             \string\bidi@counter@page{#2}%
5289             {\number\csname bidi@#2@count\endcsname}%
5290             {\noexpand\number\noexpand\bidi@page@count}%
5291           }%
5292         }%
5293         \@tempa
5294       \fi
5295     \begingroup\expandafter\expandafter\expandafter\endgroup
5296     \expandafter\ifx\csname bidi@#2@@\number\csname
5297     bidi@#2@count\endcsname\endcsname\relax
5298       \global\csname @bidi@reset@#2@reruntrue\endcsname
5299     \else
5300       \global\csname @bidi@reset@#2@rerunfalse\endcsname
5301       \expandafter\@tempcnta\csname bidi@#2@@\number
5302       \csname bidi@#2@count\endcsname\endcsname\relax
5303       \ifnum\@tempcnta=\csname
5304       bidi@previous@page@#2@count\endcsname

```



```

5305 \else
5306 \global\csname
5307     bidi@previous@page@@#2@count\endcsname\@tempcnta
5308     \global\csname c@#2\endcsname#1\relax
5309 \fi
5310 \fi
5311 }%
5312 \expandafter\bidi@gappto\csname
5313     bidi@stepcounterhook@@#2\endcsname{%
5314     \csname bidi@reset@#2@perpage\endcsname
5315 }%
5316 }
5317 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@@#2}{#3}}
5318 \bidi@AtEndOutputPage{%
5319     \global\advance\bidi@page@count\@ne
5320 }

```

52 File biditools.sty

```

5321 \NeedsTeXFormat{LaTeX2e}
5322 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5323 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5324     \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5325     \ifx\@tempa\@tempb \global\let#2#1%
5326     \else
5327         \edef\@tempb{\meaning#2}%
5328         \ifx\@tempa\@tempb
5329         \else
5330             \latex@error{Unable to properly define \string#2; primitive
5331             \noexpand#1no longer primitive}\@eha
5332         \fi
5333     \fi
5334     \endgroup}
5335 \newtoks\@bidi@envbody
5336 \newtoks\@bidi@emptytoks
5337 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5338 \def\bidi@collect@body#1{%
5339     \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5340     \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5341     \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5342     \begingroup
5343     \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5344     \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5345     \bidi@process@envbody
5346 }
5347 \def\bidi@push@begins#1\begin#2{%
5348     \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5349 }
5350 \def\bidi@collect@@body#1\end#2{%
5351     \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5352     \ifx\@empty\begin@bidi@stack
5353         \endgroup
5354         \checkend{#2}%
5355         \bidi@addto@envbody{#1}%

```



```

5356 \else
5357   \bidi@addto@envbody{#1\end{#2}}%
5358 \fi
5359 \bidi@process@envbody % A little tricky! Note the grouping
5360 }
5361 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5362 \long\def\bidi@collect@long@body#1{%
5363   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5364   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5365   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5366   \begingroup
5367   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5368   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5369   \bidi@process@envbody
5370 }
5371 \long\def\bidi@push@long@begins#1\begin#2{%
5372   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5373 }
5374 \long\def\bidi@collect@long@@body#1\end#2{%
5375   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5376   \ifx\@empty\begin@bidi@stack
5377     \endgroup
5378     \@checkend{#2}%
5379     \bidi@addto@long@envbody{#1}%
5380   \else
5381     \bidi@addto@long@envbody{#1\end{#2}}%
5382   \fi
5383   \bidi@process@envbody % A little tricky! Note the grouping
5384 }
5385 \long\def\bidi@new@ifnextchar#1#2#3{%
5386   \let\reserved@d= #1%
5387   \def\reserved@a{#2}\def\reserved@b{#3}%
5388   \futurelet\@let@token\bidi@new@ifnch
5389 }
5390 \def\bidi@new@ifnch{%
5391   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5392   \reserved@b
5393 }
5394 \def\bidi@matrix@check#1{%
5395   \expandafter\ifx\csname\@currentvir\endcsname#1%
5396   \else\bidi@matrix@error#1%
5397     \expandafter\@gobble
5398   \fi
5399 }
5400 \def\bidi@matrix@error#1{%
5401   \PackageError{biditools}{%
5402     Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5403   }{%
5404     ``\string#1{...}' is old bidi package syntax whose use is
5405     ill-advised in the old versions of bidi package.%
5406   }%
5407 }
5408 \def\eqnewif#1#2{%
5409   \count@\escapechar \escapechar\m@ne

```



```

5410 \let#1\iffalse
5411 \let#2\iffalse
5412 \eq@if#1#2\iftrue
5413 \eq@if#1#2\iffalse
5414 \escapechar\count@}
5415 \def\eq@if#1#2#3{%
5416 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5417 \expandafter@gobbletwo\string#3\endcsname
5418 {\let#1#3%
5419 \let#2#3}%
5420 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5421 \expandafter@gobbletwo\string#3\endcsname
5422 {\let#2#3%
5423 \let#1#3}}
5424 \def\noteqnewif#1#2{%
5425 \count@\escapechar \escapechar\m@ne
5426 \let#1\iffalse
5427 \let#2\iffalse
5428 \not@eq@if#1#2\iftrue\iffalse
5429 \escapechar\count@}
5430 \def\not@eq@if#1#2#3#4{%
5431 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5432 \expandafter@gobbletwo\string#3\endcsname
5433 {\let#1#3%
5434 \let#2#4}%
5435 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5436 \expandafter@gobbletwo\string#4\endcsname
5437 {\let#1#4%
5438 \let#2#3}%
5439 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5440 \expandafter@gobbletwo\string#3\endcsname
5441 {\let#2#3%
5442 \let#1#4}%
5443 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5444 \expandafter@gobbletwo\string#4\endcsname
5445 {\let#2#4%
5446 \let#1#3}}
5447 \newcommand*\SetBoolean}[2]{%
5448 \lowercase{\def\@tempa{#2}}%
5449 \@ifundefined{@tempa\@tempa}%
5450 {\PackageError{biditools}%
5451 {You can only set a boolean to `true' or `false'}\@ehc}%
5452 {\@ifundefined{#1\@tempa}%
5453 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5454 {\csname#1\@tempa\endcsname}}}
5455 \newcommand*\GlobalSetBoolean}[2]{%
5456 \lowercase{\def\@tempa{#2}}%
5457 \@ifundefined{@tempa\@tempa}%
5458 {\PackageError{biditools}%
5459 {You can only set a boolean to `true' or `false'}\@ehc}%
5460 {\@ifundefined{#1\@tempa}%
5461 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5462 {\global\csname#1\@tempa\endcsname}}}
5463 \newcommand*\SetatBoolean}[2]{%

```



```

5464 \lowercase{\def\@tempa{#2}}%
5465 \@ifundefined{@tempwa\@tempa}%
5466 {\PackageError{biditools}%
5467   {You can only set a boolean to `true' or `false'}\@ehc}%
5468 {\@ifundefined{@#1\@tempa}%
5469   {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5470   {\csname @#1\@tempa\endcsname}}}
5471 \newcommand*{\GlobalSetatBoolean}[2]{%
5472   \lowercase{\def\@tempa{#2}}%
5473   \@ifundefined{@tempwa\@tempa}%
5474   {\PackageError{biditools}%
5475     {You can only set a boolean to `true' or `false'}\@ehc}%
5476   {\@ifundefined{@#1\@tempa}%
5477     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5478     {\global\csname @#1\@tempa\endcsname}}}
5479 \def\@bidi@removefromreset#1#2{%
5480   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5481   \def\@elt##1{%
5482     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5483     \else
5484       \noexpand\@elt{##1}%
5485     \fi}%
5486   \expandafter\xdef\csname cl@#2\endcsname{%
5487     \csname cl@#2\endcsname}}
5488 \newcommand*{\ifRtoL}{%
5489   \if@RTL
5490     \expandafter\@firstoftwo
5491   \else
5492     \expandafter\@secondoftwo
5493   \fi}
5494 \newcommand*{\ifLtoR}{%
5495   \if@RTL
5496     \expandafter\@secondoftwo
5497   \else
5498     \expandafter\@firstoftwo
5499   \fi}
5500 \newcommand*{\ifRtoLtable}{%
5501   \if@RTLtab
5502     \expandafter\@firstoftwo
5503   \else
5504     \expandafter\@secondoftwo
5505   \fi}
5506 \newcommand*{\ifLtoRtable}{%
5507   \if@RTLtab
5508     \expandafter\@secondoftwo
5509   \else
5510     \expandafter\@firstoftwo
5511   \fi}
5512 \newcommand*{\ifRtoLhboxconstruct}{%
5513   \if@hboxRconstruct
5514     \expandafter\@firstoftwo
5515   \else
5516     \expandafter\@secondoftwo
5517   \fi}

```



```

5518 \newcommand*{\ifLtoRhboxconstruct}{%
5519   \if@hboxRconstruct
5520     \expandafter\@secondoftwo
5521   \else
5522     \expandafter\@firstoftwo
5523   \fi}
5524 \newcommand*{\iflatin}{%
5525   \if@nonlatin
5526     \expandafter\@secondoftwo
5527   \else
5528     \expandafter\@firstoftwo
5529   \fi}
5530 \newcommand*{\ifnonlatin}{%
5531   \if@nonlatin
5532     \expandafter\@firstoftwo
5533   \else
5534     \expandafter\@secondoftwo
5535   \fi}
5536
5537 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5538   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5539
5540 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5541   \dimexpr #1*65536/\dimexpr 1pt\relax}
5542
5543 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5544   \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5545 }
5546 \newcommand*{\@if@ver@pkg@least}[2]{%
5547   \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5548     \expandafter\@secondoftwo
5549   \else
5550     \expandafter\@firstoftwo
5551   \fi
5552 }
5553 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5554 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5555   \if\relax#2\relax\else#1\fi#2#3#4
5556 }
5557 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5558   \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5559 }
5560 \newcommand*{\@if@ver@pkg@most}[2]{%
5561   \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5562     \expandafter\@secondoftwo
5563   \else
5564     \expandafter\@firstoftwo
5565   \fi
5566 }
5567 \newcommand*{\IfPackageVersionTF}[1]{%
5568   \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5569 }
5570 \newcommand*{\@if@ver@pkg@}[2]{%
5571   \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil

```



```

5572 \expandafter\@firstoftwo
5573 \else
5574 \expandafter\@secondoftwo
5575 \fi
5576 }
5577
5578 \newcommand*{\if@bidi@csdef}[1]{%
5579 \ifcsname#1\endcsname
5580 \expandafter\@firstoftwo
5581 \else
5582 \expandafter\@secondoftwo
5583 \fi}
5584 \newcommand*{\if@bidi@csundef}[1]{%
5585 \ifcsname#1\endcsname
5586 \expandafter\ifx\csname#1\endcsname\relax
5587 \expandafter\expandafter
5588 \expandafter\@firstoftwo
5589 \else
5590 \expandafter\expandafter
5591 \expandafter\@secondoftwo
5592 \fi
5593 \else
5594 \expandafter\@firstoftwo
5595 \fi}
5596 \newcommand{\if@bidi@def}[1]{%
5597 \ifdefined#1%
5598 \expandafter\@firstoftwo
5599 \else
5600 \expandafter\@secondoftwo
5601 \fi}
5602 \newcommand{\if@bidi@undef}[1]{%
5603 \ifdefined#1%
5604 \ifx#1\relax
5605 \expandafter\expandafter
5606 \expandafter\@firstoftwo
5607 \else
5608 \expandafter\expandafter
5609 \expandafter\@secondoftwo
5610 \fi
5611 \else
5612 \expandafter\@firstoftwo
5613 \fi}
5614 \newcommand{\if@bidi@blank}[1]{% from url.sty
5615 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5616 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5617 \newcommand{\bidi@notblank}[1]{%
5618 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5619 \newcommand{\if@bidi@defmacro}{}
5620 \long\edef\if@bidi@defmacro#1{%
5621 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5622 \noexpand\meaning#1\detokenize{macro}:&}
5623 \edef\bidi@ifdefmacro{%
5624 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5625 \bidi@ifdefmacro{\bidi@notblank{#2}}

```




```

5626 \newcommand*{\if@bidi@csmacro}[1]{%
5627   \if@bidi@csdef{#1}
5628     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5629     {\@secondoftwo}}
5630 \newcommand{\if@bidi@defprimitive}[1]{%
5631   \ifprimitive#1%
5632     \expandafter\@firstoftwo
5633   \else
5634     \expandafter\@secondoftwo
5635   \fi}
5636 \newcommand{\if@bidi@csprimitive}[1]{%
5637   \begingroup\expandafter\expandafter\expandafter\endgroup%
5638   \expandafter\ifprimitive\csname#1\endcsname%
5639   \expandafter\@firstoftwo
5640   \else
5641     \expandafter\@secondoftwo
5642   \fi}
5643 \newcommand*{\bidi@csdefcs}[2]{%
5644   \expandafter\@ifdefinable \csname#1\endcsname{%
5645     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5646   \newcommand*{\bidi@csletcs}[2]{%
5647     \expandafter\@ifdefinable \csname#1\endcsname{%
5648       \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
5649     \newcommand*{\bidi@cslet}[2]{%
5650       \expandafter\@ifdefinable \csname#1\endcsname{%
5651         \expandafter\let\csname#1\endcsname#2}}
5652   \newcommand{\bidi@namelongdef}[1]{%
5653     \long\expandafter\def\csname #1\endcsname}
5654   \newcommand{\bidi@namelonggdef}[1]{%
5655     \long\expandafter\gdef\csname #1\endcsname}
5656   \newcommand{\bidi@namelongedef}[1]{%
5657     \long\expandafter\edef\csname #1\endcsname}
5658   \newcommand{\bidi@namelongxdef}[1]{%
5659     \long\expandafter\xdef\csname #1\endcsname}
5660   \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5661   \def\bidi@ensure@new@command#1{%
5662     \begingroup \escapechar\m@ne\xdef\@gtempa{\{string#1\}}\endgroup
5663     \expandafter\if@bidi@csundef\@gtempa
5664       {\new@command#1}{\relax%
5665       \let\@ifdefinable\@rc@ifdefinable%
5666       \new@command#1}}
5667   \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5668
5669 \protected\def\bidi@error{\PackageError{bidi}}
5670 \protected\def\bidi@warning{\PackageWarning{bidi}}
5671 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5672 \protected\def\bidi@info{\PackageInfo{bidi}}
5673
5674 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@#2@#3}{#4}}
5675
5676 \newcount\bidi@poscount
5677
5678 \newcommand*{\WriteStartXPostaux}{%
5679   \global\advance\bidi@poscount\@ne

```



```

5680 \edef\@tempa{%
5681 \write\@auxout{%
5682 \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5683 }%
5684 }%
5685 \ifvmode
5686 \leavevmode
5687 \fi
5688 \if@RTL
5689 \if@filesw
5690 \@tempa
5691 \fi
5692 \pdfsavepos
5693 \else
5694 \pdfsavepos
5695 \if@filesw
5696 \@tempa
5697 \fi
5698 \fi
5699 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5700 \PackageWarningNoLine{biditools}{%
5701 The start x position '\number\bidiposcount' is not known yet.
5702 Rerun to get this x position%
5703 }%
5704 }{}%
5705 }
5706
5707 \newcommand*\WriteEndXPostoaux{%
5708 \edef\@tempa{%
5709 \write\@auxout{%
5710 \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5711 }%
5712 }%
5713 \if@RTL
5714 \if@filesw
5715 \@tempa
5716 \fi
5717 \pdfsavepos
5718 \else
5719 \pdfsavepos
5720 \if@filesw
5721 \@tempa
5722 \fi
5723 \fi
5724 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5725 \PackageWarningNoLine{biditools}{%
5726 The end x position '\number\bidiposcount' is not known yet.
5727 Rerun to get this x position%
5728 }%
5729 }{}%
5730 }
5731
5732 \newcommand*\WriteStartYPostoaux{%
5733 \global\advance\bidiposcount\@ne

```



```

5734 \edef\@tempa{%
5735 \write\@auxout{%
5736 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5737 }%
5738 }%
5739 \ifvmode
5740 \leavevmode
5741 \fi
5742 \if@RTL
5743 \if@filesw
5744 \@tempa
5745 \fi
5746 \pdfsavepos
5747 \else
5748 \pdfsavepos
5749 \if@filesw
5750 \@tempa
5751 \fi
5752 \fi
5753 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5754 \PackageWarningNoLine{biditools}{%
5755 The start y position ``\number\bidiposcount' is not known yet.
5756 Rerun to get this y position%
5757 }%
5758 }{}%
5759 }
5760
5761 \newcommand*\WriteEndYPostoaux{%
5762 \edef\@tempa{%
5763 \write\@auxout{%
5764 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5765 }%
5766 }%
5767 \if@RTL
5768 \if@filesw
5769 \@tempa
5770 \fi
5771 \pdfsavepos
5772 \else
5773 \pdfsavepos
5774 \if@filesw
5775 \@tempa
5776 \fi
5777 \fi
5778 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5779 \PackageWarningNoLine{biditools}{%
5780 The end y position ``\number\bidiposcount' is not known yet.
5781 Rerun to get this y position%
5782 }%
5783 }{}%
5784 }
5785
5786 \newcommand*\WriteStartXYPostoaux{%
5787 \global\advance\bidiposcount\@ne

```



```

5788 \edef\@tempa{%
5789 \write\@auxout{%
5790 \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5791 }%
5792 \write\@auxout{%
5793 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5794 }%
5795 }%
5796 \ifvmode
5797 \leavevmode
5798 \fi
5799 \if@RTL
5800 \if@filesw
5801 \@tempa
5802 \fi
5803 \pdfsavepos
5804 \else
5805 \pdfsavepos
5806 \if@filesw
5807 \@tempa
5808 \fi
5809 \fi
5810 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5811 \PackageWarningNoLine{biditools}{%
5812 The start x position ``\number\bidiposcount' is not known yet.
5813 Rerun to get this x position%
5814 }%
5815 }{}%
5816 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5817 \PackageWarningNoLine{biditools}{%
5818 The start y position ``\number\bidiposcount' is not known yet.
5819 Rerun to get this y position%
5820 }%
5821 }{}%
5822 }
5823
5824 \newcommand*\WriteEndXYPostoaux{%
5825 \edef\@tempa{%
5826 \write\@auxout{%
5827 \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5828 }%
5829 \write\@auxout{%
5830 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5831 }%
5832 }%
5833 \if@RTL
5834 \if@filesw
5835 \@tempa
5836 \fi
5837 \pdfsavepos
5838 \else
5839 \pdfsavepos
5840 \if@filesw
5841 \@tempa

```



```

5842 \fi
5843 \fi
5844 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5845     \PackageWarningNoLine{biditools}{%
5846         The end x position ` \number\bidi@poscount' is not known yet.
5847         Rerun to get this x position%
5848     }%
5849 }{}%
5850 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5851     \PackageWarningNoLine{biditools}{%
5852         The end y position ` \number\bidi@poscount' is not known yet.
5853         Rerun to get this y position%
5854     }%
5855 }{}%
5856 }
5857
5858 \newcommand*{\currentposxwidth}{%
5859     \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5860     {%
5861         \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5862         \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5863         \endcsname
5864         \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5865         \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5866         \endcsname sp\relax
5867     \else
5868         \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5869         \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5870         \endcsname sp\relax
5871     \fi
5872     }%
5873 }
5874
5875 \newcommand*{\currentposyheight}{%
5876     \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5877     {%
5878         \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5879         \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5880         \endcsname sp\relax
5881     }%
5882 }
5883
5884
5885
5886 \newcommand*{\setbaselineskip}[1]{%
5887     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5888     \selectfont
5889 }
5890
5891
5892 \newcommand*{\bidi@newrobustcmd}{%
5893     \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5894
5895     \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}

```



```

5896
5897 \def\bidinewcommand#1[#2]{%
5898   \@ifnextchar[%
5899     {\bidixargdef#1[#2]}
5900     {\ifx\l@ngrel@x\relax
5901       \let\l@ngrel@x\protected
5902       \else
5903         \protected\def\l@ngrel@x{\protected\long}%
5904       \fi
5905       \@argdef#1[#2]}}
5906
5907 \long\def\bidixargdef#1[#2][#3]#4{%
5908   \@ifdefinable#1{%
5909     \expandafter\protected
5910     \expandafter\def
5911     \expandafter#1%
5912     \expandafter{%
5913       \expandafter\@testopt
5914       \csname\string#1\endcsname{#3}}%
5915     \expandafter\@yargdef\csname\string#1\endcsname\tw#{#2}{#4}}}
5916
5917 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
5918
5919 \def\bidirenew@command#1{%
5920   \if@bididef{#1}
5921     {\biderror{\string#1 undefined}\@ehc}
5922     {}%
5923   \let\@ifdefinable\@rc@ifdefinable
5924   \bidinew@command#1}
5925
5926
5927
5928 \bidinewrobustcmd*{\bidiproviderobustcmd}{\@star@or@long\bidiprovide@command}
5929
5930 \def\bidiprovide@command#1{%
5931   \if@bididef{#1}
5932     {\def\reserved@a{\bidinew@command#1}}
5933     {\def\reserved@a{\bidirenew@command\reserved@a}}%
5934   \reserved@a}
5935
5936 \newcommand*{\bidicsuse}[1]{%
5937   \ifcsname#1\endcsname
5938     \csname#1\expandafter\endcsname
5939   \fi}
5940
5941 \newcommand{\bidieexpandonce}[1]{%
5942   \unexpanded\expandafter{#1}}
5943
5944 \def\bidiprotected{%
5945   \let\@protect\protect
5946   \let\protect\@unexpandable@protect
5947   \afterassignment\restore@protect}
5948
5949 \bidinewrobustcmd{\bidi@appto}[2]{%

```



```

5950 \if@bidi@undef{#1}
5951   {\edef#1{\unexpanded{#2}}}
5952   {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5953 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5954   \if@bidi@undef{#1}
5955     {\edef#1{#2}}
5956     {\edef#1{\bidi@expandonce#1#2}}}
5957 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5958   \if@bidi@undef{#1}
5959     {\xdef#1{\unexpanded{#2}}}
5960     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5961 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5962   \if@bidi@undef{#1}
5963     {\xdef#1{#2}}
5964     {\xdef#1{\bidi@expandonce#1#2}}}
5965
5966 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5967 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5968
5969
5970
5971 \bidi@newrobustcmd{\bidi@preto}[2]{%
5972   \if@bidi@undef{#1}
5973     {\edef#1{\unexpanded{#2}}}
5974     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5975 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5976   \if@bidi@undef{#1}
5977     {\edef#1{#2}}
5978     {\edef#1{#2\bidi@expandonce#1}}}
5979 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5980   \if@bidi@undef{#1}
5981     {\xdef#1{\unexpanded{#2}}}
5982     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5983 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5984   \if@bidi@undef{#1}
5985     {\xdef#1{#2}}
5986     {\xdef#1{#2\bidi@expandonce#1}}}
5987
5988 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5989 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5990
5991
5992
5993 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5994 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5995 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5996 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5997 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5998 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5999
6000
6001
6002 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6003 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}

```



```

6004 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6005 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6006 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6007 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6008
6009
6010
6011 \bidi@newrobustcmd{\if@bidi@patchable}{%
6012   \bidi@dbg@trce\if@bidi@patchable
6013   \begingroup
6014   \@makeother\%
6015   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6016
6017 \long\def\bidi@ifpatchable#1#2{%
6018   \endgroup
6019   \bidi@dbg@init#1%
6020   \if@bidi@undef{#1}
6021     {\bidi@dbg@fail{def}\@secondoftwo}
6022     {\bidi@dbg@info{def}%
6023       \if@bidi@defmacro{#1}
6024         {\bidi@dbg@info{mac}%
6025           \bidi@ifscanable{#1}
6026             {\bidi@ifhashcheck{#2}
6027               {\bidi@dbg@info{tok}%
6028                 \bidi@ifpattern#1{#2}
6029                   {\bidi@dbg@info{pat}%
6030                     \bidi@dbg@info{pos}\@firstoftwo}
6031                     {\bidi@dbg@fail{pat}\@secondoftwo}}
6032                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6033                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6034                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
6035
6036 \long\def\bidi@ifpatchable@i#1{%
6037   \endgroup
6038   \bidi@dbg@init#1%
6039   \if@bidi@undef{#1}
6040     {\bidi@dbg@fail{def}\@secondoftwo}
6041     {\bidi@dbg@info{def}%
6042       \if@bidi@defmacro{#1}
6043         {\bidi@dbg@info{mac}%
6044           \if@bidi@defparam{#1}
6045             {\bidi@dbg@info{prm}%
6046               \bidi@ifscanable{#1}
6047                 {\bidi@dbg@info{tok}%
6048                   \bidi@dbg@info{pos}\@firstoftwo}
6049                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6050                 {\bidi@dbg@info{prl}%
6051                   \if@bidi@defprotected{#1}
6052                     {\bidi@dbg@info{pro}}
6053                     {}%
6054                   \bidi@dbg@info{pos}\@firstoftwo}}
6055                 {\bidi@dbg@fail{mac}\@secondoftwo}}}
6056
6057 \bidi@newrobustcmd*{\bidi@patchcmd}{%

```




```

6058 \bidi@dbg@trce\bidi@patchcmd
6059 \begingroup
6060 \@makeother\#%
6061 \bidi@@patchcmd}
6062
6063 \newcommand{\bidi@patchcmd}[4][#####1]{%
6064 \bidi@ifpatchable#2{#3}
6065 {\bidi@dbg@succ{ret}}%
6066 \begingroup
6067 \edef\bidi@resrvda{%
6068 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6069 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6070 \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6071 ####1\detokenize{#4}####2}%
6072 \edef\noexpand\bidi@resrvda{%
6073 \noexpand\bidi@resrvda\meaning#2&}}%
6074 \bidi@resrvda
6075 \bidi@patchcmd@scantoks\bidi@resrvda
6076 \let#2\bidi@resrvda
6077 \bidi@undef\bidi@resrvda
6078 \@firstoftwo}
6079 {\@secondoftwo}}
6080
6081 \def\bidi@patchcmd@scantoks#1{%
6082 \edef\bidi@resrvda{\endgroup
6083 \unexpanded{\makeatletter\scantokens}{#1}%
6084 \catcode\number`\@=\the\catcode`\@ \relax}%
6085 \bidi@resrvda}
6086
6087 \protected\def\bidi@ifscanable#1{%
6088 \begingroup
6089 \edef\bidi@resrvda{%
6090 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6091 ####1\def\string\bidi@resrvda####2{####3}}%
6092 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6093 \bidi@resrvda
6094 \makeatletter
6095 \scantokens\expandafter{\bidi@resrvda}%
6096 \expandafter\endgroup\ifx#1\bidi@resrvda
6097 \expandafter\@firstoftwo
6098 \else
6099 \expandafter\@secondoftwo
6100 \fi}
6101
6102
6103 \protected\long\def\bidi@ifhashcheck#1{%
6104 \begingroup
6105 \edef\bidi@resrvda{\detokenize{#1}}%
6106 \expandafter\endgroup
6107 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6108
6109 \edef\bidi@ifhashcheck@i#1&{%
6110 \noexpand\expandafter
6111 \noexpand\bidi@ifhashcheck@ii

```



```

6112 \noexpand\strip@prefix#1\string#\string#&}
6113
6114 \edef\bidi@ifhashcheck@ii{%
6115 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
6116 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
6117
6118
6119 \protected\long\def\bidi@ifpattern#1#2{%
6120 \begingroup
6121 \edef\bidi@resrvda{%
6122 \def\noexpand\bidi@resrvda####1\detokenize{#2}###2&{%
6123 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{###2}}}%
6124 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6125 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6126 \noexpand\bidi@resrvda}
6127 \bidi@resrvda\@secondoftwo\@firstoftwo}
6128
6129
6130 \newcommand{\if@bidi@defparam}{%
6131 \long\edef\if@bidi@defparam#1{%
6132 \noexpand\expandafter\noexpand\bidi@ifdefparam
6133 \noexpand\meaning#1\detokenize{macro}:->&}
6134 \edef\bidi@ifdefparam{%
6135 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6136 \bidi@ifdefparam{\bidi@notblank{#2}}
6137
6138
6139 \newcommand{\if@bidi@defprotected}{%
6140 \long\edef\if@bidi@defprotected#1{%
6141 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6142 \noexpand\meaning#1\string\protected&}
6143 \edef\bidi@ifdefprotected{%
6144 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6145 \bidi@ifdefprotected{\bidi@notblank{#2}}
6146
6147
6148 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6149 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6150 \expandafter\let\csname #1\endcsname\bidi@undefined
6151 }
6152
6153 \let\bidi@dbg@trce\@gobble
6154 \let\bidi@dbg@init\@gobble
6155 \let\bidi@dbg@info\@gobble
6156 \let\bidi@dbg@succ\@gobble
6157 \let\bidi@dbg@fail\@gobble
6158
6159
6160
6161 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6162 \bidi@dbg@trce\bidi@apptocmd
6163 \begingroup
6164 \@makeother\#%
6165 \bidi@hooktocmd\bidi@append}

```



```

6166
6167
6168
6169 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6170   \bidi@dbg@trce\bidi@pretocmd
6171   \begingroup
6172   \@makeother\#%
6173   \bidi@hooktocmd\bidi@prepend}
6174
6175 \long\def\bidi@hooktocmd#1#2#3{%
6176   \endgroup
6177   \bidi@dbg@init#2%
6178   \if@bidi@undef{#2}
6179     {\bidi@dbg@fail{def}\@secondoftwo}
6180     {\bidi@dbg@info{def}%
6181       \if@bidi@defmacro{#2}
6182         {\bidi@dbg@info{mac}%
6183           \if@bidi@defparam{#2}
6184             {\bidi@dbg@info{prm}%
6185               \bidi@ifscanable{#2}
6186                 {\bidi@ifhashcheck{#3}
6187                   {\bidi@dbg@info{tok}%
6188                     \bidi@dbg@succ{ret}%
6189                     \bidi@hooktocmd@i#1#2{#3}%
6190                     \@firstoftwo}
6191                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6192                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6193             {\bidi@dbg@info{prl}%
6194               \if@bidi@defprotected{#2}
6195                 {\bidi@dbg@info{pro}%
6196                   \bidi@dbg@succ{red}%
6197                   \protected}
6198                 {\bidi@dbg@succ{red}}}%
6199             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6200             \@firstoftwo}}
6201     {\bidi@dbg@fail{mac}\@secondoftwo}}
6202
6203 \long\def\bidi@hooktocmd@i#1#2#3{%
6204   \begingroup
6205   \edef\bidi@resrvda{%
6206     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6207       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6208     \edef\noexpand\bidi@resrvda{%
6209       \noexpand\bidi@resrvda\meaning#2&}}%
6210   \bidi@resrvda
6211   \bidi@patchcmd@scantoks\bidi@resrvda
6212   \let#2\bidi@resrvda
6213   \bidi@undef\bidi@resrvda}
6214
6215 \long\def\bidi@append#1#2{#1#2}
6216 \long\def\bidi@prepend#1#2{#2#1}
6217
6218 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6219 %\newcommand*{\bidi@endpreamblehook}{

```



```

6220
6221 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}}%
6222
6223 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6224 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6225
6226 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6227 \newcommand*{\bidi@beforeheaderhook}{}
6228
6229 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6230 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6231
6232 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6233 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6234
6235 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6236 \newcommand*{\bidi@beforefooterhook}{}
6237
6238 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6239 \newcommand*{\bidi@afterfooterhook}{}
6240
6241
6242 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6243 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6244
6245 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6246 \newcommand*{\bidi@atendoutputpagehook}{}
6247
6248 %\bidi@preto\document{%
6249 % \endgroup
6250 % \let\bidi@AtEndPreamble\@firstofone
6251 % \bidi@endpreamblehook
6252 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6253 % \bidi@undef\bidi@endpreamblehook
6254 % \begingroup}
6255
6256 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6257 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6258
6259 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6260 %\newcommand*{\bidi@afterendpreamblehook}{}
6261
6262 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6263
6264 %\bidi@appto\document{%
6265 % \let\bidi@AfterEndPreamble\@firstofone
6266 % \bidi@afterendpreamblehook
6267 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6268 % \bidi@undef\bidi@afterendpreamblehook
6269 % \ignorespaces}
6270
6271 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerun}
6272 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6273

```



```

6274 \bidi@patchcmd\enddocument
6275 {\fi}
6276 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6277 \bidi@afterenddocumentchecklabelssrerunhook
6278 \fi}
6279 {}
6280 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6281
6282 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6283
6284 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6285 \newcommand*{\bidi@afterlastshipouthook}{}
6286
6287 \bidi@patchcmd\enddocument
6288 {\clearpage}
6289 {\clearpage
6290 \let\bidi@AfterLastShipout\@firstofone
6291 \bidi@afterlastshipouthook}
6292 {}
6293 {\let\bidi@clearpage\clearpage
6294 \def\clearpage{%
6295 \bidi@clearpage
6296 \let\bidi@AfterLastShipout\@firstofone
6297 \bidi@afterlastshipouthook}}
6298
6299 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6300 \newcommand*{\bidi@afterenddocumenthook}{}
6301
6302 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6303
6304 %\bidi@patchcmd\enddocument
6305 % {\deadcycles}
6306 % {\let\bidi@AfterEndDocument\@firstofone
6307 % \bidi@afterenddocumenthook
6308 % \deadcycles}
6309 % {}
6310 % {\let\bidi@@end\@end
6311 % \def\@end{%
6312 % \let\bidi@AfterEndDocument\@firstofone
6313 % \bidi@afterenddocumenthook
6314 % \bidi@@end}}
6315
6316 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6317 \bidi@csgappto{\bidi@begin@#1@hook}}
6318
6319 % Patch \begin<space> and \end<space> in newer LaTeX releases
6320 % \begin and \end in older ones.
6321 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6322 {\csname #1\endcsname}
6323 {\bidi@csuse{\bidi@begin@#1@hook}%
6324 \csname #1\endcsname}
6325 {}
6326 {\bidi@warning{%
6327 Patching '\string\begin' failed!\MessageBreak

```



```

6328     '\string\bid@AtBeginEnvironment' will not work\@gobble}}
6329
6330
6331
6332 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
6333   \bid@csgappto{@bid@end@#1@hook}}
6334
6335 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6336   {\csname end#1\endcsname}
6337   {\bid@csuse{@bid@end@#1@hook}%
6338     \csname end#1\endcsname}
6339   {}
6340   {\bid@warning{%
6341     Patching '\string\end' failed!\MessageBreak
6342     '\string\bid@AtEndEnvironment' will not work\@gobble}}
6343
6344
6345
6346 \bid@newrobustcmd{\bid@BeforeBeginEnvironment}[1]{%
6347   \bid@csgappto{@bid@beforebegin@#1@hook}}
6348
6349 \expandafter\bid@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6350   {\bid@csuse{@bid@beforebegin@#1@hook}}
6351   {}
6352   {\bid@warning{%
6353     Patching '\string\begin' failed!\MessageBreak
6354     '\string\bid@BeforeBeginEnvironment' will not work\@gobble}}
6355
6356 \bid@newrobustcmd{\bid@AfterEndEnvironment}[1]{%
6357   \bid@csgappto{@bid@afterend@#1@hook}}
6358
6359 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6360   {\if@ignore}
6361   {\bid@csuse{@bid@afterend@#1@hook}%
6362     \if@ignore}
6363   {}
6364   {\bid@warning{%
6365     Patching '\string\end' failed!\MessageBreak
6366     '\string\bid@AfterEndEnvironment' will not work\@gobble}}
6367
6368 \def\bid@namedef#1{\expandafter\def\csname #1\endcsname}
6369 \def\bid@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6370 \def\bid@nameedef#1{\expandafter\edef\csname #1\endcsname}
6371 \def\bid@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6372
6373 % From David Carlisle:
6374 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6375 % See also https://github.com/ho-tex/oberdiek/issues/26
6376
6377 \let\@bid@stepcounter\stepcounter
6378 \let\@bid@stpelt\@stpelt
6379
6380 \def\@stpelt#1{%
6381   \ifcsname bid@reset@#1@perpage\endcsname

```



```

6382 \begingroup
6383 \let\stepcounter\@bidi@stepcounter
6384 \@bidi@@stpelt{#1}%
6385 \endgroup
6386 \expandafter\@gobbletwo
6387 \fi
6388 \@bidi@@stpelt{#1}%
6389 }
6390
6391 \bidi@pretocmd\stepcounter
6392 {%
6393 \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6394 \csname bidi@stepcounterhook@@#1\endcsname
6395 }%
6396 }-}%
6397 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6398
6399 \chardef\bidi@backslash`\\
6400 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6401
6402 % anonymous control sequences
6403 \newcount\bidi@tempcountb
6404 \newtoks\bidi@temptoksa
6405 \newtoks\bidi@temptoksb
6406
6407 % Catcode (re)storing
6408 %
6409 \def\bidi@storecatcode#1%
6410 {\escapechar\m@ne
6411 \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6412 {\catcode`\string#1=
6413 \the\catcode\expandafter`\string#1}%
6414 \catcode\expandafter`\string#1=12\relax
6415 \escapechar`\\ \relax}
6416 \def\bidi@restorecatcode#1%
6417 {\escapechar\m@ne
6418 \csname bidi@restorecatcode\string#1\endcsname
6419 \escapechar`\\ \relax}
6420
6421 % Construct a control sequence inside \edef
6422 %
6423 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6424
6425 % Construct a control sequence out of #2, and give it to #1
6426 %
6427 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6428
6429 % Pick an escapecharacter
6430 % this presumes that its argument is a character.
6431 %
6432 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6433
6434 % Equality of strings.
6435 % the fast approach: does not work in expansion-only environment.

```



```

6436 %
6437 \def\bidiequalstring#1#2{00\fi\def\bidieqs@a{#1}\def\bidieqs@b{#2}%
6438     \ifx\bidieqs@a\bidieqs@b}
6439
6440 % Test by expansion only
6441 %
6442 \def\bidiequalstringX#1#2{00\fi
6443     \csname if\@bidiequalstringX#1&#2$\endcsname}
6444 \def\@bidiequalstringX#1#2$#3#4${\ifx#1#3%
6445     \ifx#1&true\else\bidihop@ES\@bidiequalstringX#2$#4$\fi
6446     \else false\fi}
6447 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6448
6449 % Lexicographic ordering
6450 % note the use of \def
6451 % also note the characters 0,127,255 that are used,
6452 % these are not supposed to appear in the strings
6453 %
6454 {\catcode0=12 \catcode255=12 \catcode127=12
6455 \gdef\bidistringbeforeNC#1#2{00\fi
6456     \bidicharsbefore#1^^@^^?#2^^ff^^?}%
6457 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6458     \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6459     \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6460     \else\ifnum\lccode`#1<\lccode`#3
6461         \def\bidinext{\csname iftrue\endcsname}%
6462     \else\ifnum\lccode`#1>\lccode`#3
6463         \def\bidinext{\csname iffalse\endcsname}%
6464     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6465     \fi \fi \fi \fi
6466     \bidinext}
6467 \gdef\bidistringbefore#1#2{00\fi
6468     \bidicharsbefore#1^^@^^?#2^^ff^^?}%
6469 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6470     \ifnum`#1<`#3
6471         \def\bidinext{\csname iftrue\endcsname}%
6472     \else\ifnum`#1>`#3
6473         \def\bidinext{\csname iffalse\endcsname}%
6474     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6475     \fi\fi
6476     \bidinext}
6477 }
6478
6479 % Null argument test
6480 %
6481 \def\bidieempty{}
6482 \def\bidieifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}
6483 \def\bidieifemptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}
6484 %\def\bidieifempty#1{\def\bidiecs@a{#1}\ifx\bidiecs@a\bidieempty}
6485 \def\bidieisemptylist#1{00\fi\def\bidiecs@a{#1}\ifx\cs@a\bidieempty}
6486
6487 % Next character test
6488 %
6489 \def\bidinextchar#1#2#3{00\fi

```




```

6490 \let\bidixnxt@ch#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6491 \futurelet\bidixnxt@c\@bidixfnxtc}
6492 \def\bidix@ifNextChar#1#2#3{%
6493 \let\bidixnxt@ch#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6494 \futurelet\bidixnxt@c\@bidixfnxtc}
6495 \def\@bidixfnxtc{\ifx\bidixnxt@ch\bidixnxt@c \expandafter\bidixnxt@a
6496 \else \expandafter\bidixnxt@b \fi}
6497
6498 % Test for defined-ness of string as control sequence.
6499 % works inside \edef
6500 %
6501 \def\bidix@undefinedcs#1{00\fi\bidix@csarg\ifx{#1}\relax}
6502
6503 % Define uniquely defined dummy macros,
6504 % usually to serve as bumper blocks at the end of a list
6505 %
6506 \newcount\bidix@dummies
6507 \def\DefNewDummy#1{
6508 \if\bidix@undefinedcs{#1}\bidix@csarg\edef{#1}{\bidix@dum\the\bidix@dummies}
6509 \advance\bidix@dummies\@ne
6510 \else
6511 \bidix@error{Attempt at second definition of `#1'}
6512 \fi}
6513
6514 % string case statement
6515 % use: \bidix@switch \iftest{...} in:
6516 % item1 action1
6517 % ...
6518 % itemn actionn
6519 % default defaultaction [optional]
6520 % \endbidix@switch
6521 % inspired by Jonathan Fine: Some Basic Control Macros
6522 % Tugboat 12 #4
6523 %
6524 \let\@bidix\fi\fi \let\endbidix@switch\relax \DefNewDummy{\bidix@default}
6525 \def\bidix@switch@exit #1 \@bidix\fi #2 \endbidix@switch {\fi #1}
6526 \def\bidix@switch #1#2#3{\bidix@csarg\ifx{#2}\bidix@default\bidix@switch@exit #3 \@bidix\fi
6527 #1{#2}\bidix@switch@exit #3 \@bidix\fi
6528 \bidix@switch {#1}
6529 }
6530 % this version puts the test object in {}
6531 \def\bidix@oswitch #1 in: #2 #3; {\bidix@csarg\ifx{#2}\bidix@default\bidix@switch@exit #3 \@bidix\fi
6532 #1{#2}\bidix@switch@exit #3 \@bidix\fi
6533 \bidix@switch #1 in:
6534 }
6535 % this version assumes that the test object is just one character
6536 \def\bidix@cswitch #1 in: #2 #3; {\bidix@csarg\ifx{#2}\bidix@default\bidix@switch@exit #3 \@bidix\fi
6537 #1#2\bidix@switch@exit #3 \@bidix\fi
6538 \bidix@cswitch #1 in:
6539 }
6540 % this version assumes that the test object can have an optional space
6541 \def\bidix@bswitch #1 in: #2 #3; {\bidix@csarg\ifx{#2}\bidix@default\bidix@switch@exit #3 \@bidix\fi
6542 #1#2 \bidix@switch@exit #3 \@bidix\fi
6543 \bidix@bswitch #1 in:

```



```

6544 }
6545 % this version can cope with significant spaces at the start of #3;
6546 % #2 is macro argument
6547 \def\bidimswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6548   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6549   \bidimswitch #1 in:
6550 }
6551 % idem; #2 does not have to be enclosed in braces
6552 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6553   #1#2 \bidi@switch@exit #3 \@bidi@fi
6554   \bidi@fswitch #1 in:
6555 }
6556
6557 % Routines for taking the value of a string:
6558 % if the string is defined as control sequence
6559 % take the value of that, otherwise take the string itself
6560
6561 % String or value of control sequence
6562 %
6563 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6564
6565 % String or control sequence
6566 %
6567 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6568
6569 % String or \noexpand-ed control sequence;
6570 % for use in \edef
6571 %
6572 \newif\ifbidi@in@label
6573 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6574   \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6575 \newtoks\bidi@are@these@correct
6576 \def\bidi@t@w@w#1{%
6577   \if\bidi@undefinedcs{#1}#1%
6578   \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6579   \else
6580     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6581
6582 % List Manipulation .....
6583 % this assumes that #1 is a list of tokens, #2 is the name of a list
6584 %
6585 % Names of lists (and of items to pop into) are given as strings;
6586 % not as control sequences.
6587 %
6588 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6589 % basic append/prepend macro
6590 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6591   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6592 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6593   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6594 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6595 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6596 % variations:
6597 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}

```



```

6598 \long\def\bidiprepend@to@list#1#2{\@bidiprepend@to@list{#1}{#2}}
6599 \def\bidiprepend@list@to@list#1#2{%
6600   \@bidiprepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}%
6601 \def\bidiprepend@list@to@list#1#2{%
6602   \@bidiprepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}%
6603 \def\bidiprepend@csl@list@to@csl@list#1#2{%
6604   \@bidiprepend@to@csl@list{#1}{\expandafter\the#2}}
6605 \def\bidiprepend@csl@list@to@csl@list#1#2{%
6606   \@bidiprepend@to@csl@list{#1}{\expandafter\the#2}}
6607 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}{\expandafter\the#2}}
6608 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}{\expandafter\the#2}}
6609
6610 \let\bidibeenhskip\unhskip
6611
6612 % A few list macros for the user
6613 \def\NewTokenList:#1 {\bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6614 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6615 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6616 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6617 \def\TheTokenList:#1 {\let\bidibeenhskip\bidibeenhskip \let\bidibeenhskip\empty
6618   \if\bidibeenhskip{#1}\bidibeenhskip{Token List <#1> undefined}
6619   \else\bidibeenhskip\the#1\fi
6620   \let\bidibeenhskip\bidibeenhskip}
6621
6622 \def\bididel@tok@from@list#1#2{\begingroup
6623   \long\def\bidics@list#1#2#3{\biditok@SM
6624     {\biditoks@list#1}\biditoks@list#2}%
6625     \edef\bidics@listb{\global\bidicsname{#1}=
6626       {\the\biditoks@list#1}\the\biditoks@list#2}%
6627     \bidics@listb}%
6628     \edef\bidics@list{\noexpand\bidics@list#1}\expandafter\the\csname#1\endcsname\noexpand
6629     \bidics@listb \endgroup}
6630 \def\bidibeenhskip@of@list#1{\bidicsarg{\let\expandafter\bidics@list#1}%
6631   \bidibeenhskip@of@csl@list\bidics@list#1}
6632 \long\def\bidibeenhskip@of@csl@list#1#2{\begingroup\biditoks@list#1#2}%
6633   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list#1}
6634   \endgroup}
6635 \long\def\bidibeenhskip@local@in@front@of@list#1#2{\biditoks@list#1#2}%
6636   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6637   {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6638   \expandafter\the\csname#1\endcsname}%
6639   }
6640 \def\bidibeenhskip@set@list#1{\bidicsarg{\let\expandafter\bidics@list#1}%
6641   \bidibeenhskip@set@csl@list\bidics@list#1}
6642 \long\def\bidibeenhskip@set@csl@list#1#2{\begingroup\biditoks@list#1#2}%
6643   \global#1=\expandafter\the\biditoks@list#1\endgroup}
6644
6645 %%%%%%%%%%%%%%% Stack macros
6646 %
6647 % push in terms of prepending of lists
6648 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@csl@list#1\expandafter{\expandafter\expandafter}
6649 \def\bidipush@onto@cs#1{\bidicsarg\bidipush@onto@cs{#1}}
6650 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@csl@list#1}{\the#2}}
6651 \def\bidibeenhskip@local@push@onto@cs#1#2{\let\bidibeenhskip\relax

```



```

6652 \bidi@local@in@front@of@list{#1}{\{\{#2\}\}}
6653 % pop via auxiliary macro: #1 is result, #2 is stack
6654 % two cs arguments
6655 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6656 {\noexpand\@@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@@bidi@pop}\bidi@cs@e}
6657 % two string arguments
6658 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6659 {\noexpand\@@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@@b
6660 \long\def\@@bidi@popinto#1#2\#3#4\@@bidi@pop{#1{#3}#2{#4}}
6661 \def\bidi@copy@stacktop#1#2{%
6662 \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6663 {#1}\bidi@csarg\the{#2}\noexpand\@@bidi@pop}%
6664 \bidi@cs@e}
6665 \def\bidi@copy@stacktop#1\#2#3\@@bidi@pop{\csname#1\endcsname#2\relax}
6666 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6667 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6668 \def\bidi@length@of@csstack#1{\def\##1{\advance\bidi@stack@length\@ne}%
6669 \bidi@stack@length\@ne \the#1}
6670 % turn a stack upside down
6671 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6672 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6673 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6674 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\@ne
6675 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6676 \bidi@append@clist@to@clist\bidi@temptoksb\bidi@temptoksa% append a to b
6677 \bidi@temptoksa\bidi@temptoksb
6678 \repeat% copy b to a
6679 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6680 % invert a stack into a list
6681 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6682 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6683 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6684 \bidi@pop@into\bidi@temptoksb{#1}\advance\bidi@stack@length\@ne
6685 \bidi@append@list@to@list\bidi@temptoksb{\bidi@temptoksa}\repeat
6686 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6687
6688
6689 % General loop macro:
6690 % \looprepeat
6691 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6692 % \untilcondition{<cond>} \whilecondition{<cond>}
6693 % \doloopbody { <loop body> }
6694 % where all control sequences in between \looprepeat and \doloopbody are optional.
6695 %
6696 % var: characters to form a control sequence;
6697 % after \forvariable{index} you can access the loop counter as \index.
6698 % This is a count register; to print it use \number\index.
6699 % start,step,end: integers with obvious relations to the loop counter;
6700 % start and step have a default value of 1
6701 % cond: (sequence of commands ending in) any TeX \if... test.
6702 %
6703 % Count down instead of up with \downtovalue; the increment given in \bystep
6704 % is always positive, and is added or subtracted accordingly.
6705 %

```



```

6706 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6707 % at the beginning of the loop body.
6708 %
6709 % Exit from middle of loop: \breaklooprepeat
6710 % use this at any place in the loop; in case of a conditional use
6711 % \ifsomething ... \expandafter \breaklooprepeat \fi
6712 %
6713 % Note that the line ends do not cause spaces in the output.
6714 %
6715 % Technical details:
6716 % The loop body is not executed in a group: the braces are those
6717 % of a token list.
6718 % The 'forvariable' variable is \let to a \count register.
6719
6720
6721
6722 % Auxiliary stuff
6723 \def\bidilooptrepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6724 \def\bidilooptrepeat@csromannumeral#1{\csname #1\romannumeral\bidilooptrepeat@depth\endcsname}
6725 \def\bidilooptrepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooptrepeat@depth\endcsname}
6726
6727 \newcount\bidilooptrepeat@depth
6728 \let\endlooprepeat\relax \def\bidilooptprotect{}
6729 % Trace switches may later be defined by PAC_utils
6730 \let\bidilooptrepeat@traceinit\relax \let\bidilooptrepeat@traceexit\relax
6731
6732 % Main repeatloop macro
6733 % - go to next level and allocate unique counter/toks if this is the
6734 % first time we visit this level
6735 % - setup: gather bounds and termination conditions
6736 % - scoop up body in token list; after the assignment define and
6737 % execute body
6738 \def\looprepeat#1\do loopbody{\bidilooptrepeat@traceinit % exit in \breakrepeatloop
6739 \advance\bidilooptrepeat@depth\one\relax
6740 \bidilooptrepeat@csargromannumeral\ifx{\bidilooptrepeat@count}\relax
6741 \bidilooptrepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooptrepeat@count}%
6742 \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@toks}%
6743 \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@toks}%
6744 \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@toks}%
6745 \fi \bidilooptrepeat@zero \def\bidilooptrepeat@sign{}\def\bidilooptrepeat@comp{>}\bidilooptrepeat@tmp
6746 \edef\bidilooptrepeat@tmp
6747 {\def\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looprepeat}{\bidilooptrepeat@body}%
6748 \afterassignment\bidilooptrepeat@dxbody\bidilooptrepeat@csromannumeral{\bidilooptrepeat@toks}%
6749
6750 % Define and execute loop body
6751 % This is done with an \edef to construct the actual sequence
6752 \def\bidilooptrepeat@dxbody{\bidilooptrepeat@csargromannumeral\edef{\bidilooptrepeat@body}{%
6753 \bidilooptrepeat@csargromannumeral\the{\bidilooptrepeat@wtest}}%
6754 \noexpand\the\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@toks}}%
6755 \bidilooptrepeat@csargromannumeral\the{\bidilooptrepeat@utest}}%
6756 \global\bidilooptrepeat@csargromannumeral\advance{\bidilooptrepeat@count} by \bidilooptrepeat@tmp
6757 \noexpand\endlooprepeat
6758 \bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looprepeat}}%
6759 \bidilooptrepeat@csromannumeral{\bidilooptrepeat@body}\ignorespaces}

```



```

6760
6761 % Stop test
6762 %% In order to stop, issue a
6763 % \breaklooprepeat which scoops up the rest of the body and exits
6764 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral{bidi@looprepeat@body}}
6765 \advance\bidi@looprepeat@depth@m@ne \bidi@looprepeat@traceexit
6766 }
6767
6768
6769 % Setup
6770 % gather bounds and termination conditions
6771 \def\bidi@looprepeat@setup#1{%
6772   \begingroup
6773     \def\forvariable##1{%
6774       \edef\bidi@looprepeat@tmp{%
6775         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{bidi@looprepeat@body}}
6776       \bidi@looprepeat@tmp}%
6777     \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{bidi@looprepeat@count}##1\ignorespaces}%
6778     \def\tovalue##1{%
6779       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6780       {\bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6781       \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}\bidi@looprepeat@body
6782       \noexpand\expandafter \noexpand\breaklooprepeat
6783       \noexpand\fi}\ignorespaces}%
6784     \bidi@looprepeat@tmp}%
6785   \def\downtovalue##1{%
6786     \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6787   \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}%
6788     \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{-##1}\else
6789     \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6790   \def\untilcondition##1{%
6791     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6792     {\noexpand##1\relax
6793     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6794   \bidi@looprepeat@tmp}%
6795   \def\whilecondition##1{%
6796     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6797     {\noexpand##1\relax \noexpand\else
6798     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6799   \bidi@looprepeat@tmp}%
6800   \fromvalue{\@ne}\bystep{\@ne}#1%
6801   \endgroup}
6802 \def\bidi@looprepeat@zero
6803   {\bidi@looprepeat@csromannumeral{bidi@looprepeat@toks}}{\bidi@looprepeat@csromannumeral{bidi@looprepeat@body}}
6804   \bidi@looprepeat@csargromannumeral\def{bidi@looprepeat@body}{}}
6805
6806 %\tracingmacros2
6807 %\newcount\tmpcount % used in some examples below
6808
6809 %\looprepeat \forvariable{i}
6810 %   \bystep{2}
6811 % \doloopbody {%
6812 %   \ifnum i=13 \expandafter\breaklooprepeat \fi
6813 %   \number i}%

```



```

6814 %}%
6815
6816 %\looprepeat \forvariable{iii}
6817 %      \tovalue{8}
6818 %      \doloopbody {}
6819 %After loop: \number\iii%
6820
6821 %\looprepeat \forvariable{i}
6822 %      \fromvalue{10}
6823 %      \bystep{2}
6824 %      \downtovalue{0}
6825 %      \doloopbody {\number\i} }
6826
6827 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6828 %      \doloopbody {\number\x} }
6829
6830 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6831
6832 %\looprepeat \forvariable{j}
6833 %      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6834 %      \doloopbody {\number\j} }
6835
6836 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6837 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6838 % \doloopbody {(\number\i.\number\j) }
6839 % }
6840
6841 % infinite loop
6842 %\looprepeat \doloopbody {}
6843
6844 \ExplSyntaxOn
6845 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6846 {
6847   \IfBooleanTF { #1 }
6848   {
6849     \@ifclassloaded{ #2 }
6850     { #4 }
6851     {
6852       \hook_gput_code:nnn
6853       { file / #2.\@clsextension / after }
6854       { #3 }
6855       { #4 }
6856     }
6857   }
6858   {
6859     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6860   }
6861 }
6862
6863 \seq_new:N \g__biditools_input_file_seq
6864
6865 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6866 {
6867   \str_set:Nx \l_tmpa_str { #1 }

```



```

6868 \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6869 { \prg_return_true: }
6870 { \prg_return_false: }
6871 }
6872
6873 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6874 {
6875   \@ifclassloaded { #1 }
6876   {
6877     \__bidi_if_loading:nTF { #1.\@clsextension }
6878     { \prg_return_false: }
6879     { \prg_return_true: }
6880   }
6881   {
6882     \prg_return_false:
6883   }
6884 }
6885
6886 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6887 {
6888   \@ifpackageloaded { #1 }
6889   {
6890     \__bidi_if_loading:nTF { #1.\@pkgextension }
6891     { \prg_return_false: }
6892     { \prg_return_true: }
6893   }
6894   {
6895     \prg_return_false:
6896   }
6897 }
6898
6899 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6900 {
6901   \IfBooleanTF { #1 }
6902   {
6903     \bidi_if_class_loaded:nTF { #2 }
6904     { #4 }
6905     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6906   }
6907   {
6908     \bidi_if_class_loaded:nF
6909     { #2 }
6910     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6911   }
6912 }
6913
6914 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6915 {
6916   \IfBooleanTF { #1 }
6917   {
6918     \@ifpackageloaded{ #2 }
6919     { #4 }
6920     {
6921       \hook_gput_code:nnn

```




```

6922         { file / #2.\@pkgextension / after }
6923         { #3 }
6924         { #4 }
6925     }
6926 }
6927 {
6928     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6929 }
6930 }
6931
6932 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6933 {
6934     \IfBooleanTF { #1 }
6935     {
6936         \bidi_if_package_loaded:nTF { #2 }
6937         { #4 }
6938         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6939     }
6940     {
6941         \bidi_if_package_loaded:nF
6942         { #2 }
6943         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6944     }
6945 }
6946
6947 \clist_new:N \l__biditools_package_clist
6948 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6949 {
6950     Can-not-prevent-package~`#1'~from-being-loaded,~
6951     since-it-has-been-loaded-already-before-line~\msg_line_number:
6952 }
6953 \clist_new:N \g__biditools_prevent_clist
6954
6955 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6956 {
6957     \clist_set:Nx \l__biditools_package_clist { #3 }
6958     \clist_map_inline:Nn \l__biditools_package_clist
6959     {
6960         \@ifpackageloaded { ##1 }
6961         {
6962             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6963             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6964         }
6965         {
6966             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6967             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6968             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6969             {
6970                 \tl_new:c { g__biditools_exclude_package_##1_tl }
6971             }
6972             \IfValueT { #2 }
6973             {
6974                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6975             }

```



```

6976         \disable@package@load { ##1 }
6977         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6978     }
6979 }
6980 \clist_clear:N \l__biditools_package_clist
6981 }
6982
6983 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6984 {
6985     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6986     \clist_gclear:N \g__biditools_prevent_clist
6987 }
6988
6989 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6990 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6991
6992 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6993 {
6994     \clist_set:Nx \l__biditools_package_clist { #2 }
6995     \clist_map_inline:Nn \l__biditools_package_clist
6996     {
6997         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
6998         {
6999             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7000             \reenable@package@load { ##1 }
7001             \IfBooleanT { #1 }
7002             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7003         }
7004     }
7005 }
7006
7007 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7008 {
7009     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7010     {
7011         \debug_suspend:
7012         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7013         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7014         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7015         #2
7016         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7017         \debug_resume:
7018     }
7019 }
7020
7021 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7022 {
7023     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7024     {
7025         \debug_suspend:
7026         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7027         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7028         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7029         #2

```



```

7030      \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7031      \debug_resume:
7032    }
7033  }
7034
7035  \clist_new:N \l__biditools_file_patch_clist
7036
7037  \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7038  {
7039    \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7040    \clist_map_inline:Nn \l__biditools_file_patch_clist
7041    {
7042      \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7043    }
7044    \clist_clear:N \l__biditools_file_patch_clist
7045  }
7046
7047  \clist_new:N \l__biditools_package_patch_clist
7048
7049  \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7050  {
7051    \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7052    \clist_map_inline:Nn \l__biditools_package_patch_clist
7053    {
7054      \ApplyPatchToPackage { ##1 } [ #2 ]
7055    }
7056    \clist_clear:N \l__biditools_package_patch_clist
7057  }
7058
7059  \clist_new:N \l__biditools_class_patch_clist
7060
7061  \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7062  {
7063    \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7064    \clist_map_inline:Nn \l__biditools_class_patch_clist
7065    {
7066      \ApplyPatchToClass { ##1 } [ #2 ]
7067    }
7068    \clist_clear:N \l__biditools_class_patch_clist
7069  }
7070
7071  \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7072  {
7073    \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7074    \clist_map_inline:Nn \l__biditools_class_patch_clist
7075    {
7076      \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7077    }
7078    \clist_clear:N \l__biditools_class_patch_clist
7079  }
7080  \ExplSyntaxOff
7081
7082  \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7083  \newcommand*{\bidi@UnReplaceInput}

```



```

7084 {\undeclare@file@substitution}
7085 \newcommand*{\bidi@ReplacePackage}[2]{%
7086   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7087 }
7088 \newcommand*{\bidi@UnReplacePackage}[1]{%
7089   \undeclare@file@substitution{#1.\@pkgextension}%
7090 }
7091 \newcommand*{\bidi@ReplaceClass}[2]{%
7092   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7093 }
7094 \newcommand*{\bidi@UnReplaceClass}[1]{%
7095   \undeclare@file@substitution{#1.\@clsextension}%
7096 }
7097 \newcommand*{\bidi@BeforeFile}[1]{%
7098   \AddToHook{file/#1/before}%
7099 }
7100 \newcommand*{\bidi@AfterFile}[1]{%
7101   \AddToHook{file/#1/after}%
7102 }
7103 \newcommand*{\bidi@BeforeClass}[1]{%
7104   \bidi@BeforeFile{#1.\@clsextension}%
7105 }
7106 \newcommand*{\bidi@BeforePackage}[1]{%
7107   \bidi@BeforeFile{#1.\@pkgextension}%
7108 }
7109
7110 \long\def\bidi@protected@immediate@write#1#2#3{%
7111   \begingroup
7112     #2%
7113     \let\protect\@unexpandable@protect
7114     \edef\reserved@a{\immediate\write#1{#3}}%
7115     \reserved@a
7116   \endgroup
7117   \if@nobreak\ifvmode\nobreak\fi\fi
7118 }
7119
7120 \def\bidi@patch@AfterPackage#1{%
7121   \@ifpackageloaded{#1}{%
7122     \@firstofone
7123   }{%
7124     \AddToHook{package/#1/after}%
7125   }%
7126 }
7127
7128 \def\bidi@patch@AfterFile#1{%
7129   \IfFileLoadedTF{#1}{%
7130     \@firstofone
7131   }{%
7132     \AddToHook{file/#1/after}%
7133   }%
7134 }
7135
7136 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7137 {

```



```

7138 \bidi@patch@AfterFile{#1.#2}{%
7139 \ifnum\catcode`\@=11
7140 \input{#1-xetex-#3.def}%
7141 \else
7142 \bidi@storecatcode\@
7143 \makeatletter
7144 \input{#1-xetex-#3.def}%
7145 \bidi@restorecatcode\@
7146 \fi
7147 }%
7148 }
7149
7150 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7151 {
7152 \bidi@patch@AfterFile{#1.#3}{#2}%
7153 }
7154
7155 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7156 {
7157 \AddToHook{begindocument/before}{%
7158 \IfPackageLoadedF{#1}{%
7159 \ApplyPatchToFiles{#2}{#3}{#4}%
7160 }%
7161 }
7162 }
7163
7164 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7165 {
7166 \AddToHook{begindocument/before}{%
7167 \IfPackageLoadedF{#2}{%
7168 \ifnum\catcode`\@=11
7169 \@ifclassloaded{#1}{%
7170 \input{#1-xetex-#3.def}%
7171 }{}%
7172 \else
7173 \bidi@storecatcode\@
7174 \makeatletter
7175 \@ifclassloaded{#1}{%
7176 \input{#1-xetex-#3.def}%
7177 }{}%
7178 \bidi@restorecatcode\@
7179 \fi
7180 }%
7181 }
7182 }
7183
7184 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7185 {
7186 \AddToHook{begindocument/before}{%
7187 \IfPackageLoadedF{#2}{%
7188 \IfPackageLoadedT{#1}{%
7189 \ifnum\catcode`\@=11
7190 \input{#1-xetex-#3.def}%
7191 \else

```



```

7192         \bidi@storecatcode\@
7193         \makeatletter
7194         \input{#1-xetex-#3.def}%
7195         \bidi@restorecatcode\@
7196     \fi
7197 }%
7198 }%
7199 }
7200 }
7201
7202 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7203 {
7204     \AddToHook{begindocument/before}{%
7205         \ifnum\catcode`\@=11
7206             \@ifpackageloaded{#1}{#2}{#3}%
7207         \else
7208             \bidi@storecatcode\@
7209             \makeatletter
7210             \@ifpackageloaded{#1}{#2}{#3}%
7211             \bidi@restorecatcode\@
7212         \fi
7213     }
7214 }
7215
7216 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7217 {
7218     \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7219 }
7220
7221 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7222 {
7223     \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7224 }
7225
7226 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7227 {
7228     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7229 }
7230
7231 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7232 {
7233     \bidi@patch@AfterPackage{#1}{#2}%
7234 }
7235
7236 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7237 {
7238     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7239 }

```

53 File `bidituftefloat.sty`

```

7240 \NeedsTeXFormat{LaTeX2e}
7241 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7242 bidi implementation of tufte float]

```



```

7243 \RequirePackage{xifthen}
7244 \newcommand{\@biditytfloat@pkgname}{biditytfloat}
7245 \newcommand{\biditytfloatError}[2]{\PackageError{\@biditytfloat@pkgname}{#1}{#2}}
7246 \newcommand{\biditytfloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@biditytfloat@debug}}{\bid
7247 \newcommand{\biditytfloatInfoNL}[1]{\PackageInfo{\@biditytfloat@pkgname}{#1\@gobble}}
7248 \newboolean{\@biditytfloat@reversegeometry}
7249 \setboolean{\@biditytfloat@reversegeometry}{false}
7250 \DeclareOption{reversegeometry}{\setboolean{\@biditytfloat@reversegeometry}{true}}
7251 \newboolean{\@biditytfloat@a4paper}
7252 \DeclareOption{a4paper}{\setboolean{\@biditytfloat@a4paper}{true}}
7253 \newboolean{\@biditytfloat@b5paper}
7254 \DeclareOption{b5paper}{\setboolean{\@biditytfloat@b5paper}{true}}
7255 \newboolean{\@biditytfloat@symmetric}
7256 \newboolean{\@biditytfloat@twoside}
7257 \DeclareOption{twoside}{%
7258 \@twoside>true \mparswitchtrue%
7259 \setboolean{\@biditytfloat@twoside}{true}%
7260 \setboolean{\@biditytfloat@symmetric}{true}%
7261 }
7262 \DeclareOption{oneside}{%
7263 \@twoside>false \mparswitchfalse%
7264 \setboolean{\@biditytfloat@twoside}{false}%
7265 \setboolean{\@biditytfloat@symmetric}{false}%
7266 }
7267 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7268 \newboolean{\@biditytfloat@debug}
7269 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodete
7270 \ProcessOptions
7271 %% Globally sets the length
7272 \newcommand*{\gsetlength}[2]{%
7273 \setlength{#1}{#2}%
7274 \global#1=#1\relax%
7275 }
7276
7277 %% Set the font sizes and baselines to match biditytfloat's books
7278 \renewcommand\normalsize{%
7279 \setfontsize\normalsize\@xpt{14}%
7280 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7281 \abovedisplayshortskip \z@ \@plus3\p@
7282 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7283 \belowdisplayskip \abovedisplayskip
7284 \let\@listi\@listI}
7285 \normalbaselineskip=14pt
7286 \normalsize
7287 \renewcommand\footnotesize{%
7288 \setfontsize\footnotesize\@viipt{10}%
7289 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7290 \abovedisplayshortskip \z@ \@plus\p@
7291 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7292 \def\@listi{\leftmargin\leftmarginI
7293 \topsep 3\p@ \@plus\p@ \@minus\p@
7294 \parsep 2\p@ \@plus\p@ \@minus\p@
7295 \itemsep \parsep}%
7296 \belowdisplayskip \abovedisplayskip

```



```

7297 }
7298 %% Paragraph indentation and separation for marginal text
7299 \newcommand{\@biditytfloat@margin@par}{%
7300   \setlength{\RaggedRightParindent}{0.5pc}%
7301   \setlength{\JustifyingParindent}{0.5pc}%
7302   \setlength{\parindent}{0.5pc}%
7303   \setlength{\parskip}{0pt}%
7304 }
7305 \RequirePackage{ragged2e}
7306 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7307 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7308 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7309   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7310   }}
7311 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7312   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7313   }}{%
7314 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7315 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7316   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7317   }}
7318 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7319   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7320   }}
7321 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7322   {}
7323   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7324 \setlength\marginparpush{10pt}
7325 %% Font for margin items
7326 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7327 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7328 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7329 \newcommand{\@biditytfloat@justification}{\justifying}%
7330 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7331 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7332 \newboolean{@biditytfloat@changepage}
7333 \IfFileExists{changepage.sty}{%
7334   \biditytfloatDebugInfoNL{Found changepage.sty}
7335   \RequirePackage[strict]{changepage}
7336   \setboolean{@biditytfloat@changepage}{true}
7337 }{%
7338   \biditytfloatDebugInfoNL{Found chngpage.sty}
7339   \RequirePackage[strict]{chngpage}
7340   \setboolean{@biditytfloat@changepage}{false}
7341 }
7342 \newboolean{@biditytfloat@odd@page}
7343 \setboolean{@biditytfloat@odd@page}{true}
7344 \newcommand*{\@biditytfloat@checkoddpage}{%
7345   \checkoddpage%
7346   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7347     \ifoddpage%
7348       \setboolean{@biditytfloat@odd@page}{true}%
7349     \else%
7350       \setboolean{@biditytfloat@odd@page}{false}%

```




```

7351 \fi%
7352 }{%
7353 \ifcpoddpag%
7354 \setboolean{@biditytfloat@odd@page}{true}%
7355 \else%
7356 \setboolean{@biditytfloat@odd@page}{false}%
7357 \fi%
7358 }%
7359 }
7360 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running head
7361 \newlength{@biditytfloat@fullwidth}
7362 \newlength{@biditytfloat@caption@fill}
7363 \newcommand{@biditytfloatRecalculate}{%
7364 \setlength{@biditytfloat@overhang}{\marginparwidth}
7365 \addtolength{@biditytfloat@overhang}{\marginparsep}
7366
7367 \setlength{@biditytfloat@fullwidth}{\textwidth}
7368 \addtolength{@biditytfloat@fullwidth}{\marginparsep}
7369 \addtolength{@biditytfloat@fullwidth}{\marginparwidth}
7370
7371 \setlength{@biditytfloat@caption@fill}{\textwidth}
7372 \addtolength{@biditytfloat@caption@fill}{\marginparsep}
7373 }
7374 \AtBeginDocument{@biditytfloatRecalculate}
7375 \RequirePackage{optparams}% provides multiple optional arguments for commands
7376 \RequirePackage{placeins}
7377 \newsavebox{@biditytfloat@margin@floatbox}
7378 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7379 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in order}
7380 \begin{lrbox}{@biditytfloat@margin@floatbox}%
7381 \begin{minipage}{\marginparwidth}%
7382 \@biditytfloat@caption@font%
7383 \def\@capttype{#2}%
7384 \hbox{\vspace*{#1}%
7385 \@biditytfloat@caption@justification%
7386 \@biditytfloat@margin@par%
7387 \noindent%
7388 }
7389 {\end{minipage}%
7390 \end{lrbox}%
7391 \marginpar{\usebox{@biditytfloat@margin@floatbox}}%
7392 }
7393 \newenvironment{marginfigure}[1][-1.2ex]%
7394 {\begin{@biditytfloat@margin@float}[#1]{figure}}
7395 {\end{@biditytfloat@margin@float}}
7396 \newenvironment{margintable}[1][-1.2ex]%
7397 {\begin{@biditytfloat@margin@float}[#1]{table}}
7398 {\end{@biditytfloat@margin@float}}
7399 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7400
7401 \newcommand{@biditytfloat@float@debug@info}{}% contains debug info generated as the float is processed
7402 \newcommand{@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7403 \ifthenelse{equal{@biditytfloat@float@debug@info}{}}{
7404 {\def{@biditytfloat@float@debug@info{#1}}{

```



```

7405     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7406 }
7407 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7408 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7409 \newboolean{\@biditytfloat@float@recto}
7410 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7411 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7412 \newsavebox{\@biditytfloat@figure@box}
7413 \newsavebox{\@biditytfloat@caption@box}
7414 \let\@biditytfloat@orig@float\@float
7415 \let\@biditytfloat@orig@endfloat\endfloat
7416 \newlength{\@biditytfloat@caption@vertical@offset}
7417 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7418 \newcommand{\@biditytfloat@stored@shortcaption}{%
7419 \newcommand{\@biditytfloat@stored@caption}{%
7420 \newcommand{\@biditytfloat@stored@label}{%
7421 \long\def\@biditytfloat@caption[#1][#2]#3{%
7422 \ifthenelse{\isempty{#1}}{%
7423     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7424     {\gdef\@biditytfloat@stored@caption{#1}}%
7425 \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7426 \gdef\@biditytfloat@stored@caption{#3}%
7427 }
7428 \newcommand{\@biditytfloat@label}[1]{%
7429 \gdef\@biditytfloat@stored@label{#1}%
7430 }
7431 \newcommand{\@biditytfloat@fps}{%
7432 \newboolean{\@biditytfloat@float@star}
7433 \newlength{\@biditytfloat@float@contents@width}
7434 \newenvironment{\@biditytfloat@float}[3][htbp]%
7435 {% begin \@biditytfloat@float
7436 % Should this float be full-width or just text-width?
7437 \ifthenelse{\equal{#3}{star}}{%
7438     {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7439     {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7440 % Check page side (recto/verso) and store detected value -- can be overridden in environment
7441 \@biditytfloat@checkoddpage%
7442 \ifthenelse{\boolean{\@biditytfloat@odd@page}}{%
7443     {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7444     {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7445 % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7446 \renewcommand{\@biditytfloat@fps}{#1}%
7447 \@biditytfloat@float@debug@info{\MessageBreak#1} Allowed positions: [1]}%
7448 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7449     {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug@info{\MessageBreak#1} Presumed position: [bottom]}%
7450     {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug@info{\MessageBreak#1} Presumed position: [top]}%
7451 % Capture the contents of the \caption and \label commands to use later
7452 \global\let\@biditytfloat@orig@caption\caption%
7453 \global\let\@biditytfloat@orig@label\label%
7454 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[1][Opt]}}%
7455 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7456 % Handle subfigure package compatibility
7457 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7458     \bidi@patchcmd{\subfigure}{%

```



```

7459 \let\subfig@oldlabel=\label
7460 }{%
7461 \let\subfig@oldlabel=\@biditytfloat@orig@label
7462 }
7463 {}
7464 {}
7465 \let\subtable=\subfigure
7466 }{}% subfigure package is not loaded
7467 \@biditytfloat@orig@float{#2}[#1]%
7468 \ifthenelse{\boolean{@biditytfloat@float@star}}{%
7469   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7470   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7471   \begin{lrbox}{\@biditytfloat@figure@box}%
7472   \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7473 }{% end @biditytfloat@float
7474   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{} a
7475   \end{minipage}%
7476   \end{lrbox}%
7477   % build the caption box
7478   \begin{lrbox}{\@biditytfloat@caption@box}%
7479   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7480     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@cap
7481     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label
7482     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7483   \end{minipage}%
7484   \end{lrbox}%
7485   % now typeset the stored boxes
7486   \begin{fullwidth}%
7487   \begin{minipage}[\floatalignment]{\linewidth}%
7488     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7489     {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7490     {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7491   \end{minipage}%
7492   \end{fullwidth}%
7493   \@biditytfloat@orig@endfloat% end original LaTeX float environment
7494   % output debug info
7495   \ifthenelse{\boolean{@biditytfloat@debug}}{%
7496     \typeout{^^J^^J----- biditytfloat package float information -----}%
7497     \ifthenelse{\equal{\@biditytfloat@stored@label}}{}%
7498     {\typeout{Warning: Float unlabeled!}}%
7499     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7500     \typeout{Page number: [\thepage]}%
7501     \def\MessageBreak{^^J}%
7502     \typeout{\@biditytfloat@float@debug@info}%
7503     \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7504     {\typeout{Symmetric: [true]}}%
7505     {\typeout{Symmetric: [false]}}%
7506     \typeout{-----^^J^^J}%
7507   }{}%
7508   % reset commands and temp boxes and captions
7509   \gdef\@biditytfloat@float@debug@info{}%
7510   \let\caption\@biditytfloat@orig@caption%
7511   \let\label\@biditytfloat@orig@label%
7512   \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%

```



```

7513 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7514 \gdef\@biditytfloat@stored@shortcaption{}%
7515 \gdef\@biditytfloat@stored@caption{}%
7516 \gdef\@biditytfloat@stored@label{}%
7517 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7518 }
7519 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7520 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}{
7521 % asymmetric or page is odd, so caption is on the right
7522 \hbox{%
7523 \usebox{#2}%
7524 \hspace{\marginparsep}%
7525 \smash{\raisebox{#1}{\usebox{#3}}}%
7526 }
7527 \@biditytfloat@float@debug{Caption position: [right]}%
7528 }{% symmetric pages and page is even, so caption is on the left
7529 \hbox{%
7530 \smash{\raisebox{#1}{\usebox{#3}}}%
7531 \hspace{\marginparsep}%
7532 \usebox{#2}%
7533 }
7534 \@biditytfloat@float@debug{Caption position: [left]}%
7535 }%
7536 }
7537 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7538 \ifthenelse{\equal{\floatalignment}{b}}{
7539 % place caption above figure
7540 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}{
7541 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}
7542 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7543 }{% place caption below figure
7544 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}{
7545 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}
7546 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7547 }%
7548 }
7549 \renewenvironment{figure}[1][htbp]{
7550 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7551 {\end{@biditytfloat@float}}
7552 \renewenvironment{table}[1][htbp]{
7553 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7554 {\end{@biditytfloat@float}}
7555 \renewenvironment{figure*}[1][htbp]{
7556 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7557 {\end{@biditytfloat@float}}
7558 \renewenvironment{table*}[1][htbp]{
7559 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7560 {\end{@biditytfloat@float}}
7561 \newenvironment{fullwidth}
7562 {\ifthenelse{\boolean{@biditytfloat@symmetric}}{
7563 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}\@biditytfloat@float@overhang}}{
7564 {\begin{adjustwidth}{-}\@biditytfloat@float@overhang}}%
7565 }%
7566 {\ifthenelse{\boolean{@biditytfloat@symmetric}}{

```



```

7567     {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}
7568     {\end{adjustwidth}}}%
7569 }
7570 \long\def\@caption#1[#2]#3{%
7571   \par%
7572   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7573     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7574   \begingroup%
7575     \@parboxrestore%
7576     \if@minipage%
7577       \@setminipage%
7578     \fi%
7579     \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
7580     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7581     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7582   \endgroup}
7583 %%
7584 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7585 \DeclareRobustCommand{\@biditufteheading@newlinetospace}{%
7586   \ifstar{\@biditufteheading@newlinetospace@i}{\@biditufteheading@newlinetospace@i}%
7587 }
7588 \def\@biditufteheading@newlinetospace@i{%
7589   \ifdim\lastskip>z@\else\space\fi
7590   \ignorespaces%
7591 }
7592 \DeclareRobustCommand{\newlinetospace}[1]{%
7593   \let\@biditufteheading@orig@cr\\% save the original meaning of \\
7594   \def\\{\@biditufteheading@newlinetospace}% turn \\ and \\* into \space
7595   \let\newline\\% turn \newline into \space
7596   #1%
7597   \let\\ \@biditufteheading@orig@cr% revert to original meaning of \\
7598 }
7599 \RequirePackage{fancyhdr}
7600 \pagestyle{fancy}
7601 \AtBeginDocument{%
7602   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7603     {\fancyhfoffset[LE,RO]{\@bidituftefloat@overhang}}
7604     {\fancyhfoffset[RE,RO]{\@bidituftefloat@overhang}}
7605 }
7606 % The running heads/feet don't have rules
7607 \renewcommand{\headrulewidth}{0pt}
7608 \renewcommand{\footrulewidth}{0pt}
7609 % The 'fancy' page style is the default style for all pages.
7610 \fancyhf{} % clear header and footer fields
7611   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7612     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7613     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7614     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7615 % The 'plain' page style is used on chapter opening pages.
7616 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7617 % bottom of pages -- the folios are unexpressed.
7618 \fancypagestyle{plain}{
7619   \fancyhf{} % clear header and footer fields
7620   % Uncomment the following five lines of code if you want the opening page

```



```

7621 % of the chapter to express the folio in the lower outside corner.
7622 % \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7623 % {\fancyfoot[LE,RO]{\thepage}}
7624 % {\fancyfoot[RE,RO]{\thepage}}
7625 }
7626 % The 'empty' page style suppresses all headers and footers.
7627 % It's used on title pages and 'intentionally blank' pages.
7628 \fancypagestyle{empty}{
7629   \fancyhf{} % clear header and footer fields
7630 }
7631 \def\morefloats{% provides a total of 52 floats
7632   \ifthenelse{\isundefined{\bx@S}}{%
7633     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7634     \newinsert\bx@S
7635     \newinsert\bx@T
7636     \newinsert\bx@U
7637     \newinsert\bx@V
7638     \newinsert\bx@W
7639     \newinsert\bx@X
7640     \newinsert\bx@Y
7641     \newinsert\bx@Z
7642     \newinsert\bx@a
7643     \newinsert\bx@b
7644     \newinsert\bx@c
7645     \newinsert\bx@d
7646     \newinsert\bx@e
7647     \newinsert\bx@f
7648     \newinsert\bx@g
7649     \newinsert\bx@h
7650     \newinsert\bx@i
7651     \newinsert\bx@j
7652     \newinsert\bx@k
7653     \newinsert\bx@l
7654     \newinsert\bx@m
7655     \newinsert\bx@n
7656     \newinsert\bx@o
7657     \newinsert\bx@p
7658     \newinsert\bx@q
7659     \newinsert\bx@r
7660     \newinsert\bx@s
7661     \newinsert\bx@t
7662     \newinsert\bx@u
7663     \newinsert\bx@v
7664     \newinsert\bx@w
7665     \newinsert\bx@x
7666     \newinsert\bx@y
7667     \newinsert\bx@z
7668     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7669       \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7670       \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7671       \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7672       \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7673       \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7674       \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e

```



```

7675         \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7676         \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7677         \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7678         \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7679         \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7680 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7681 \ifthenelse{\isundefined{\bx@AA}}{%
7682   \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7683   \newinsert\bx@AA
7684   \newinsert\bx@BB
7685   \newinsert\bx@CC
7686   \newinsert\bx@DD
7687   \newinsert\bx@EE
7688   \newinsert\bx@FF
7689   \newinsert\bx@GG
7690   \newinsert\bx@HH
7691   \newinsert\bx@II
7692   \newinsert\bx@JJ
7693   \newinsert\bx@KK
7694   \newinsert\bx@LL
7695   \newinsert\bx@MM
7696   \newinsert\bx@NN
7697   \newinsert\bx@OO
7698   \newinsert\bx@PP
7699   \newinsert\bx@QQ
7700   \newinsert\bx@RR
7701   \newinsert\bx@SS
7702   \newinsert\bx@TT
7703   \newinsert\bx@UU
7704   \newinsert\bx@VV
7705   \newinsert\bx@WW
7706   \newinsert\bx@XX
7707   \newinsert\bx@YY
7708   \newinsert\bx@ZZ
7709 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7710   \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7711   \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7712   \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7713   \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7714   \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7715   \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7716   \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7717   \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7718   \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7719   \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7720   \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7721   \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7722   \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7723   \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7724   \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7725   \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7726   \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7727 }{%
7728   \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message

```



```

7729         {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7730     }%
7731 }%
7732 }
7733 \newboolean{@biditytfloat@packages@subfigure}
7734 \setboolean{@biditytfloat@packages@subfigure}{false}
7735 \AtBeginDocument{%
7736     \ifpackageloaded{subfigure}
7737     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7738     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7739 }
7740 \AtBeginDocument{%
7741     \ifpackageloaded{float}{%
7742         % Save the redefined float environment (instead of the LaTeX float environment)
7743         \let\@biditytfloat@orig@float\@float
7744         \let\@biditytfloat@orig@endfloat\endfloat
7745
7746         % Define Tuftian float styles (with the caption in the margin)
7747         \newcommand{\floatc@biditytfloatplain}[2]{%
7748             \begin{lrbox}{\@biditytfloat@caption@box}%
7749                 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7750                     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7751                 \end{minipage}%
7752             \end{lrbox}%
7753             \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7754     }
7755     \newcommand{\fs@biditytfloatplain}{%
7756         \def\@fs@cfont{\@biditytfloat@caption@font}%
7757         \let\@fs@capt\floatc@biditytfloatplain%
7758         \def\@fs@pre{}%
7759         \def\@fs@post{}%
7760         \def\@fs@mid{}%
7761         \let\@fs@iftopcapt\iftrue%
7762     }
7763     \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7764     \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7765     \newcommand\floatc@biditytfloatruled[2]{%
7766         {\@fs@cfont #1} #2\par%
7767     }
7768     \newcommand\fs@biditytfloatruled{%
7769         \def\@fs@cfont{\@biditytfloat@caption@font}%
7770         \let\@fs@capt\floatc@biditytfloatplain%
7771         \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7772         \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7773         \def\@fs@mid{}%
7774         \let\@fs@iftopcapt\iftrue%
7775     }
7776     \newcommand\fs@biditytfloatboxed{%
7777         \def\@fs@cfont{}%
7778         \let\@fs@capt\floatc@biditytfloatplain%
7779         \def\@fs@pre{%
7780             \setbox\@currbox\vbox{\hbadness10000
7781             \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7782             \hrule \hbox to\hsize{\vrule\kern3pt

```




```

7783         \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7784     }%
7785     \def\@fs@mid{\kern2pt}%
7786     \def\@fs@post{}%
7787     \let\@fs@iftopcapt\iftrue%
7788 }
7789 }{%
7790 % Nothing to do
7791 }
7792 }
7793 \AtBeginDocument{%
7794 \ifpackageloaded{algorithm}{%
7795 % Set the float style to the Tufte version
7796 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{list}}{\@fs@mid}{%
7797 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
7798 \floatstyle{\bidituftefloat\ALG@floatstyle}%
7799 \restylefloat{algorithm}%
7800 }{}%
7801 }{%
7802 % Nothing to do
7803 }
7804 }
7805 \PassOptionsToPackage{caption=false}{subfig}

```

54 File `bidituftesidenote.sty`

```

7806 \NeedsTeXFormat{LaTeX2e}
7807 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7808 bidi implementation of tufte sidenote]
7809 \RequirePackage{xifthen}
7810 \RequirePackage{ragged2e}
7811 \RequirePackage{setspace}
7812 \RequirePackage{biditools}
7813 \def\bidituftesidenotemarginpar{%
7814 \ifhmode
7815 \@bsphack
7816 \@floatpenalty -\@Mii
7817 \else
7818 \@floatpenalty -\@Miii
7819 \fi
7820 \ifinner
7821 \@parmoderr
7822 \@floatpenalty\z@
7823 \else
7824 \@next\@currbox\@freelist{}{}%
7825 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7826 {\@floatpenalty\z@
7827 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7828 \fi
7829 \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7830 \long\def\@bidituftesidenotexmpar[#1]#2{%
7831 \@bidituftesidenotesavemarbox\@marbox{#1}%
7832 \@bidituftesidenotesavemarbox\@currbox{#2}%
7833 \@xympar}

```



```

7834 \long\def \@bidityftesidenoteympar#1{%
7835   \@bidityftesidenotesavemarbox \@marbox{#1}%
7836   \global\setbox \@currbox\copy \@marbox
7837   \@xympar}
7838 \long\def \@bidityftesidenotesavemarbox #1#2{%
7839   \global\setbox #1%
7840     \color@vbox
7841     \vtop{%
7842       \hsize\marginparwidth
7843       \@parboxrestore
7844       \@bidityftesidenotemarginparreset
7845       #2%
7846       \@minipagefalse
7847       \outer@nobreak
7848     }%
7849   \color@endbox
7850 }
7851 \def \@bidityftesidenotemarginparreset {%
7852   \reset@font
7853   \normalsize
7854   \@minipagetrue
7855   \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7856 }
7857 \def \LTRbidityftesidenotemarginpar{%
7858   \ifhmode
7859     \@bsphack
7860     \@floatpenalty -\@Mii
7861   \else
7862     \@floatpenalty -\@Miii
7863   \fi
7864   \ifinner
7865     \@parmoderr
7866     \@floatpenalty\z@
7867   \else
7868     \@next \@currbox \@freelist{}{}%
7869     \@next \@marbox \@freelist{\global\count \@marbox\m@ne}%
7870     {\@floatpenalty\z@
7871       \@fltovf\def \@currbox{\@tempboxa}\def \@marbox{\@tempboxa}}%
7872   \fi
7873   \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7874 \long\def \@LTRbidityftesidenotexmpar[#1]#2{%
7875   \@LTRbidityftesidenotesavemarbox \@marbox{#1}%
7876   \@LTRbidityftesidenotesavemarbox \@currbox{#2}%
7877   \@xympar}
7878 \long\def \@LTRbidityftesidenoteympar#1{%
7879   \@LTRbidityftesidenotesavemarbox \@marbox{#1}%
7880   \global\setbox \@currbox\copy \@marbox
7881   \@xympar}
7882 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7883   \global\setbox #1%
7884     \color@vbox
7885     \vtop{%
7886       \hsize\marginparwidth
7887       \@parboxrestore

```



```

7888      \LTRbidituftesidenotemarginparreset
7889      #2%
7890      \@minipagefalse
7891      \outer@nobreak
7892      }%
7893      \color@endbox
7894  }
7895  \def \LTRbidituftesidenotemarginparreset {%
7896      \reset@font
7897      \normalsize
7898      \@minipagetrue
7899      \everypar{\@minipagefalse\everypar{}\beginL}%
7900  }
7901  \def \RTLbidituftesidenotemarginpar{%
7902      \ifhmode
7903          \@bsphack
7904          \floatpenalty -\@Mii
7905      \else
7906          \floatpenalty-\@Miii
7907      \fi
7908      \ifinner
7909          \@parmoderr
7910          \floatpenalty\z@
7911      \else
7912          \@next\@currbox\@freelist{}\{}%
7913          \next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7914          {\floatpenalty\z@
7915           \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7916      \fi
7917      \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7918  \long\def \@RTLbidituftesidenotexmpar[#1]#2{%
7919      \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7920      \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7921      \@xympar}
7922  \long\def \@RTLbidituftesidenoteympar#1{%
7923      \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7924      \global\setbox\@currbox\copy\@marbox
7925      \@xympar}
7926  \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7927      \global\setbox #1%
7928          \color@vbox
7929          \vtop{%
7930              \hsize\marginparwidth
7931              \@parboxrestore
7932              \@RTLbidituftesidenotemarginparreset
7933              #2%
7934              \@minipagefalse
7935              \outer@nobreak
7936              }%
7937      \color@endbox
7938  }
7939  \def \RTLbidituftesidenotemarginparreset {%
7940      \reset@font
7941      \normalsize

```



```

7942 \minipagetrue
7943 \everypar{\minipagefalse\everypar{}\beginR}%
7944 }
7945 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7946 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7947 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7948 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7949 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7950 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7951 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7952 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7953 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7954 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7955 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7956 \newcommand*{\@bidityftesidenote@RTLCitation@font}{\@bidityftesidenote@RTLmarginfont}
7957 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7958 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7959 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7960 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7961 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7962 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7963 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7964 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7965 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLCitation@font}{#1}}
7966 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@auto}
7967 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@auto}
7968 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@auto}
7969 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7970 \newcommand{\@bidityftesidenote@margin@par}{%
7971 \setlength{\RaggedRightParindent}{0.5pc}%
7972 \setlength{\JustifyingParindent}{0.5pc}%
7973 \setlength{\parindent}{0.5pc}%
7974 \setlength{\parskip}{0pt}%
7975 }
7976 %%
7977 % Globally sets the length
7978 \ifundefined{gsetlength}{%
7979 \newcommand*{gsetlength}[2]{%
7980 \setlength{#1}{#2}%
7981 \global#1=#1\relax%
7982 }%
7983 }{}
7984
7985 %%
7986 % A function that removes leading and trailing spaces from the supplied macro.
7987 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7988 % Executing \@bidityftesidenote@trim@spaces\xyzy will result in the contents of \xyzy
7989 % being trimmed of leading and trailing white space.
7990 \catcode`\Q=3
7991 \def\@bidityftesidenote@trim@spaces#1{%
7992 % Use grouping to emulate a multi-token afterassignment queue
7993 \begingroup%
7994 % Put \toks 0 {' into the afterassignment queue
7995 \aftergroup\toks\aftergroup0\aftergroup{%

```



```

7996 % Apply \trimb to the replacement text of #1, adding a leading
7997 % \noexpand to prevent brace stripping and to serve another purpose
7998 % later.
7999 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8000 % Transfer the trimmed text back into #1.
8001 \edef#1{\the\toks0}%
8002 }
8003 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8004 % clean up any leftover bizarre Qs, and trim a leading space. In
8005 % order for \trimc to work properly we need to put back a Q first.
8006 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8007 % Execute \vfuzz assignment to remove leading space; the \noexpand
8008 % will now prevent unwanted expansion of a macro or other expandable
8009 % token at the beginning of the trimmed text. The \endgroup will feed
8010 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8011 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8012 \catcode\Q=11
8013 %%
8014 % Citations should go in the margin as sidenotes
8015
8016 \RequirePackage{natbib}
8017 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8018 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8019 \renewcommand\BR@b@bibitem[2][{}]{%
8020   \ifthenelse{\isempty{#1}}{%
8021     {\BR@bibitem{#2}}%
8022     {\BR@bibitem{#1}{#2}}%
8023   \BR@c@bibitem{#2}%
8024 }
8025 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8026 %%
8027 % Normal \cite behavior
8028 \newcounter{@bidityftesidenote@num@bibkeys}%
8029 \newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
8030   % Snag the last bibentry in the list for later comparison
8031   \let\@temp@last@bibkey\@empty%
8032   \for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8033   \sidenote[] [1]{%
8034     % Loop through all the bibentries, separating them with semicolons and spaces
8035     \normalsize\normalfont\@bidityftesidenote@citation@font%
8036     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8037     \for\@temp@bibkeyx:=#2\do{%
8038       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8039         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8040         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8041         \bibentry{\@temp@bibkeyx}}%
8042       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8043         \bibentry{\@temp@bibkeyx};\ }%
8044       \stepcounter{@bidityftesidenote@num@bibkeys}%
8045     }%
8046   }%
8047 }
8048 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2][0pt]{%
8049   % Snag the last bibentry in the list for later comparison

```



```

8050 \let\@temp@last@bibkey\@empty%
8051 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8052 \LTRsidenote[] [#1]{%
8053   % Loop through all the bibentries, separating them with semicolons and spaces
8054   \normalsize\normalfont\@bituftesidenote@LTRcitation@font%
8055   \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8056   \@for\@temp@bibkeyx:=#2\do{%
8057     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8058       {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8059       \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8060       \bibentry{\@temp@bibkeyx}}%
8061       {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8062       \bibentry{\@temp@bibkeyx};\ }%
8063     \stepcounter{\@bituftesidenote@num@bibkeys}%
8064   }%
8065 }%
8066 }
8067 \newcommand{\@bituftesidenote@normal@cite}[2][Opt]{%
8068   % Snag the last bibentry in the list for later comparison
8069   \let\@temp@last@bibkey\@empty%
8070   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8071   \RTLsidenote[] [#1]{%
8072     % Loop through all the bibentries, separating them with semicolons and spaces
8073     \normalsize\normalfont\@bituftesidenote@citation@font%
8074     \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8075     \@for\@temp@bibkeyx:=#2\do{%
8076       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8077         {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8078         \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8079         \bibentry{\@temp@bibkeyx}}%
8080         {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8081         \bibentry{\@temp@bibkeyx};\ }%
8082       \stepcounter{\@bituftesidenote@num@bibkeys}%
8083     }%
8084   }%
8085 }
8086 %%
8087 % Macros for holding the list of cite keys until after the \sidenote
8088 \gdef\@bituftesidenote@citations{}% list of cite keys
8089 \newcommand{\@bituftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cite
8090   \ifx\@bituftesidenote@citations\@empty\else
8091     \g@addto@macro\@bituftesidenote@citations{,}% separate by commas
8092   \fi
8093   \g@addto@macro\@bituftesidenote@citations{#1}
8094 }
8095 \newcommand{\@bituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8096   % Snag the last bibentry in the list for later comparison
8097   \let\@temp@last@bibkey\@empty%
8098   \@for\@temp@bibkey:=\@bituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8099   \marginpar{%
8100     \hbox{}\vspace*{#1}%
8101     \@bituftesidenote@citation@font%
8102     \@bituftesidenote@citation@justification%
8103     \@bituftesidenote@margin@par% use parindent and parskip settings for marginal text

```



```

8104 \vspace*{-1\baselineskip}%
8105 % Loop through all the bibentries, separating them with semicolons and spaces
8106 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8107 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8108 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8109 {\ifthenelse{equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8110 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8111 \bibentry{\@temp@bibkeyx}}%
8112 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8113 \bibentry{\@temp@bibkeyx};\ }%
8114 \stepcounter{@bidityftesidenote@num@bibkeys}%
8115 }%
8116 }%
8117 }
8118 %%
8119 % \cite behavior when executed within a sidenote
8120 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8121 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8122 \@bidityftesidenote@add@citation{#1}
8123 }
8124 %%
8125 % Set the default \cite style. This is set and reset by the \sidenote command.
8126 \let\cite\@bidityftesidenote@normal@cite
8127 \let\LTRcite\@bidityftesidenote@normal@cite
8128 \let\RTLcite\@bidityftesidenote@normal@cite
8129 %%
8130 % Transform existing \footnotes into \sidenotes
8131 % Sidenote: ``Where God meant footnotes to go.'' ---bidityftesidenote
8132 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8133 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8134 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8135 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8136 % sidenote's text block.
8137 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8138 % Set the in-text footnote mark in the same typeface as the body text itself.
8139 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8140 \providecommand*\@multiplefootnotemark}{3sp}
8141 \providecommand*\@multfootsep}{,}
8142 \bidi@patch@AfterPackage{bidi}{%
8143 \renewcommand{\@footnotemark}{%
8144 \leavevmode%
8145 \ifhmode%
8146 \edef\@x@sf{\the\spacefactor}%
8147 \@bidityftesidenote@check@multiple@sidenotes%
8148 \nobreak%
8149 \fi%
8150 \@makefnmark%
8151 \ifhmode\spacefactor\@x@sf\fi%
8152 \relax%
8153 }%
8154 }
8155 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8156 \ifdim\lastkern=\@multiplefootnotemark\relax%
8157 \edef\@x@sf{\the\spacefactor}%

```



```

8158 \unkern%
8159 \textsuperscript{\multifootsep}%
8160 \spacefactor\@x@sf\relax%
8161 \fi
8162 }
8163 \bidi@patch@AfterPackage{bidi}{%
8164 \renewcommand\@footnotetext[2][0pt]{%
8165 \bidityftesidenotemarginpar{%
8166 \hbox{}\vspace*{#1}%
8167 \def\baselinestretch {\set@space@singlespace}%
8168 \reset@font%
8169 \bidi@footnotetext@font% \reset@font\footnotesize%
8170 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8171 \vspace*{-1\baselineskip}\noindent%
8172 \protected@edef\@currentlabel{%
8173 \csname p@footnote\endcsname\@thefnmark%
8174 }%
8175 \color@begingroup%
8176 \makefnintext{%
8177 \ignorespaces#2%
8178 }%
8179 \color@endgroup%
8180 }%
8181 }%
8182 \renewcommand\@LTRfootnotetext[2][0pt]{%
8183 \LTRbidityftesidenotemarginpar{%
8184 \hbox{}\vspace*{#1}%
8185 \def\baselinestretch {\set@space@singlespace}%
8186 \reset@font%
8187 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8188 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8189 \vspace*{-1\baselineskip}\noindent%
8190 \protected@edef\@currentlabel{%
8191 \csname p@footnote\endcsname\@thefnmark%
8192 }%
8193 \color@begingroup%
8194 \makefnintext{%
8195 \ignorespaces#2%
8196 }%
8197 \color@endgroup%
8198 }%
8199 }%
8200 \renewcommand\@RTLfootnotetext[2][0pt]{%
8201 \RTLbidityftesidenotemarginpar{%
8202 \hbox{}\vspace*{#1}%
8203 \def\baselinestretch {\set@space@singlespace}%
8204 \reset@font%
8205 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8206 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8207 \vspace*{-1\baselineskip}\noindent%
8208 \protected@edef\@currentlabel{%
8209 \csname p@footnote\endcsname\@thefnmark%
8210 }%
8211 \color@begingroup%

```




```

8212     \@makefnintext{%
8213         \ignorespaces#2%
8214     }%
8215     \color@endgroup%
8216 }%
8217 }%
8218 }
8219 %
8220 % Define \sidenote command. Can handle \cite.
8221 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8222 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8223 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8224 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8225     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8226     \gdef\@bidityftesidenote@citations{}% clear out any old citations
8227     \ifthenelse{\NOT\isempty{#2}}{%
8228         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8229     }{%
8230         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8231     }%
8232     \ifthenelse{\isempty{#1}}{%
8233         % no specific footnote number provided
8234         \stepcounter\@mpfn%
8235         \protected@xdef\@thefnmark{\thempfn}%
8236         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8237     }{%
8238         % specific footnote number provided
8239         \begingroup%
8240             \csname c@\@mpfn\endcsname #1\relax%
8241             \unrestored@protected@xdef\@thefnmark{\thempfn}%
8242         \endgroup%
8243         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8244     }%
8245     \@bidityftesidenote@print@citations% print any citations
8246     \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8247     \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8248     \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8249     \unskip\ignorespaces% remove extra white space
8250     \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8251     \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8252 }
8253 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8254     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8255     \gdef\@bidityftesidenote@citations{}% clear out any old citations
8256     \ifthenelse{\NOT\isempty{#2}}{%
8257         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8258     }{%
8259         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8260     }%
8261     \ifthenelse{\isempty{#1}}{%
8262         % no specific footnote number provided
8263         \stepcounter\@mpfn%
8264         \protected@xdef\@thefnmark{\thempfn}%
8265         \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%

```



```

8266 }{%
8267   % specific footnote number provided
8268   \begingroup%
8269     \csname c@\@mpfn\endcsname #1\relax%
8270     \unrestored@protected@xdef\@thefnmark{\thempfn}%
8271   \endgroup%
8272   \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8273 }%
8274 \@bidityftesidenote@print@citations%          print any citations
8275 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8276 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8277 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8278 \unskip\ignorespaces%                          remove extra white space
8279 \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8280 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8281 }
8282 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8283   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8284   \gdef\@bidityftesidenote@citations{}%         clear out any old citations
8285   \ifthenelse{\NOT\isempty{#2}}{%
8286     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8287   }{%
8288     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8289   }%
8290   \ifthenelse{\isempty{#1}}{%
8291     % no specific footnote number provided
8292     \stepcounter\@mpfn%
8293     \protected@xdef\@thefnmark{\thempfn}%
8294     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8295   }{%
8296     % specific footnote number provided
8297     \begingroup%
8298       \csname c@\@mpfn\endcsname #1\relax%
8299       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8300     \endgroup%
8301     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8302   }%
8303   \@bidityftesidenote@print@citations%          print any citations
8304   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8305   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8306   \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8307   \unskip\ignorespaces%                          remove extra white space
8308   \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8309   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8310 }
8311 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8312 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8313 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8314 \bidi@patch@AfterPackage{bidi}{%
8315 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8316 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8317 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8318 }
8319 %%

```



```

8320 % Sidenote without the footnote mark
8321 \newcommand\marginnote[2][Opt]{%
8322   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8323   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8324   \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
8325   \@bidityftesidenote@print@citations%            print any citations
8326   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8327   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8328   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8329 }
8330 \newcommand\LTRmarginnote[2][Opt]{%
8331   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8332   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8333   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
8334   \@bidityftesidenote@print@citations%            print any citations
8335   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8336   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8337   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8338 }
8339 \newcommand\RTLmarginnote[2][Opt]{%
8340   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8341   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8342   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
8343   \@bidityftesidenote@print@citations%            print any citations
8344   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8345   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8346   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8347 }

```

55 File bidityftetoc.sty

```

8348 \NeedsTeXFormat{LaTeX2e}
8349 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8350 bidi implementation of tuftes toc]
8351 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8352 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8353 \newcommand{\@bidityftetoc@error}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8354 %%
8355 % Turn off section numbering
8356 \setcounter{secnumdepth}{-1}
8357 \newboolean{\@bidityftetoc@toc}
8358 \setboolean{\@bidityftetoc@toc}{true}
8359 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8360 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8361 \ProcessOptions
8362 %%
8363 % Make Tuftian-style section headings and TOC formatting
8364 \bidityftetoc@patch@AfterPackage{bidi}{%
8365   \titleformat{\chapter}%
8366     [display]% shape
8367     {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8368     {\itshape\huge\thechapter}% label
8369     {0pt}% horizontal separation between label and title body
8370     {\huge\rmfamily\itshape}% before the title body

```



```

8371 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}]% after the title
8372 \titleformat{\section}%
8373   [hang]% shape
8374   {\normalfont\Large\itshape}% format applied to label+text
8375   {\thesection}% label
8376   {1em}% horizontal separation between label and title body
8377   {}% before the title body
8378   []% after the title body
8379 \titleformat{\subsection}%
8380   [hang]% shape
8381   {\normalfont\large\itshape}% format applied to label+text
8382   {\thesubsection}% label
8383   {1em}% horizontal separation between label and title body
8384   {}% before the title body
8385   []% after the title body
8386 \titleformat{\paragraph}%
8387   [runin]% shape
8388   {\normalfont\itshape}% format applied to label+text
8389   {\theparagraph}% label
8390   {1em}% horizontal separation between label and title body
8391   {}% before the title body
8392   []% after the title body
8393 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8394 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8395 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8396 }
8397 % Subsubsection and following section headings shouldn't be used.
8398 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8399 \renewcommand\subsubsection{%
8400   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8401     \MessageBreak See Robert Bringhurst's _The Elements of
8402     \MessageBreak Typographic Style_, section 4.2.2.
8403     \MessageBreak \noexpand\subsubsection was used}
8404     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8405     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8406     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8407 }
8408 \renewcommand\subparagraph{%
8409   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8410     \MessageBreak See Robert Bringhurst's _The Elements of
8411     \MessageBreak Typographic Style_, section 4.2.2.
8412     \MessageBreak \noexpand\subparagraph was used}
8413     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8414     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8415     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8416 }
8417 % Formatting for main TOC (printed in front matter)
8418 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8419 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8420   \bidity@patch@AfterPackage{bidi}{%
8421     \titlecontents{part}% FIXME
8422     [0em] % distance from left margin
8423     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8424     {\contentslabel{2em}} % before w/label (label = ``II'')

```



```

8425     {} % before w/o label
8426     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8427     [\end{fullwidth}] % after
8428     \titlecontents{chapter}%
8429     [0em] % distance from left margin
8430     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format)
8431     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8432     {\hspace*{0em}} % before w/o label
8433     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8434     [\end{fullwidth}] % after
8435     \titlecontents{section}% FIXME
8436     [0em] % distance from left margin
8437     {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format)
8438     {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8439     {\hspace*{2em}} % before w/o label
8440     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8441     [\end{fullwidth}] % after
8442     \titlecontents{subsection}% FIXME
8443     [0em] % distance from left margin
8444     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format)
8445     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8446     {\hspace*{4em}} % before w/o label
8447     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8448     [\end{fullwidth}] % after
8449     \titlecontents{paragraph}% FIXME
8450     [0em] % distance from left margin
8451     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format)
8452     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8453     {\hspace*{6em}} % before w/o label
8454     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8455     [\end{fullwidth}] % after
8456 }%
8457 {}
8458 %%
8459 % Format lists of figures/tables
8460 \renewcommand\listoffigures{%
8461   \@ifundefined{chapter}%
8462   {\section*{\listfigurename}}%
8463   {\chapter*{\listfigurename}}%
8464 % \begin{fullwidth}%
8465   \@starttoc{lof}%
8466 % \end{fullwidth}%
8467 }
8468 \renewcommand\listoftables{%
8469   \@ifundefined{chapter}%
8470   {\section*{\listtablename}}%
8471   {\chapter*{\listtablename}}%
8472 % \begin{fullwidth}%
8473   \@starttoc{lot}%
8474 % \end{fullwidth}%
8475 }
8476 \newcommand{\@biditytetoc@lof@line}[2]{%
8477   % #1 is the figure/table number and its caption text
8478   % #2 is the page number on which the figure/table appears

```



```

8479 \leftskip 0.0em
8480 \rightskip 0em
8481 \parfillskip 0em plus 1fil
8482 \parindent 0.0em
8483 \@afterindenttrue
8484 \interlinepenalty\@M
8485 \leavevmode
8486 \@tempdima 2.0em
8487 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8488 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8489 {#1}\nobreak\quad\nobreak#2%
8490 \par%
8491 }
8492 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8493 \let\l@table\l@figure

```

56 File biditytgeneralstructure.sty

```

8494 \NeedsTeXFormat{LaTeX2e}
8495 \ProvidesPackage{biditytgeneralstructure}[2011/06/18 v0.1
8496 bidi implementation of tufte general structure]
8497 \renewcommand\small{%
8498   \@setfontsize\small\@ixpt{12}%
8499   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8500   \abovedisplayshortskip \z@ \@plus2\p@
8501   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8502   \def\@listi{\leftmargin\leftmargini
8503             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8504             \parsep 2\p@ \@plus\p@ \@minus\p@
8505             \itemsep \parsep}%
8506   \belowdisplayskip \abovedisplayskip
8507 }
8508 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8509 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8510 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8511 \renewcommand\Large{\@setfontsize\Large\@xipt{16}}
8512 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8513 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8514 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8515 \setlength\leftmargini {1pc}
8516 \setlength\leftmarginii {1pc}
8517 \setlength\leftmarginiii {1pc}
8518 \setlength\leftmarginiv {1pc}
8519 \setlength\leftmarginv {1pc}
8520 \setlength\leftmarginvi {1pc}
8521 \setlength\labelsep {0.5pc}
8522 \setlength\labelwidth {\leftmargini}
8523 \addtolength\labelwidth{-\labelsep}
8524 \setlength{\parindent}{1.0pc}%
8525 \setlength{\parskip}{0pt}%
8526 \RequirePackage{ragged2e}
8527 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8528 % Paragraph indentation and separation for normal text
8529 \newcommand{\@biditytgeneralstructure@reset@par}{%

```



```

8530 \setlength{\RaggedRightParindent}{1.0pc}%
8531 \setlength{\JustifyingParindent}{1.0pc}%
8532 \setlength{\parindent}{1pc}%
8533 \setlength{\parskip}{Opt}%
8534 }
8535 \@biditytgeneralstructure@reset@par
8536 % Require paralist package for tighter lists
8537 \RequirePackage{paralist}
8538 % Add rightmargin to compactenum
8539 \def\@compactenum@{%
8540 \expandafter\list\csname label\@enumctr\endcsname{%
8541 \usecounter{\@enumctr}%
8542 \rightmargin=2em% added this
8543 \parsep\plparsep
8544 \itemsep\plitemsep
8545 \topsep\pltopsep
8546 \partopsep\plpartopsep
8547 \def\makelabel##1{\hss\llap{##1}}}}
8548 %%
8549 % An environment for paragraph-style section
8550 \providecommand\newthought[1]{%
8551 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8552 \noindent\textbf{#1}%
8553 }
8554 %%
8555 % Redefine the display environments (quote, quotation, etc.)
8556 \renewenvironment{verse}
8557 {\let\\@centercr
8558 \list{}\itemsep \z@
8559 \itemindent -1pc%
8560 \listparindent\itemindent
8561 \rightmargin \leftmargin
8562 \advance\leftmargin 1pc}%
8563 \small%
8564 \item\relax}
8565 {\endlist}
8566 \renewenvironment{quotation}
8567 {\list{}\listparindent 1pc%
8568 \itemindent \listparindent
8569 \rightmargin \leftmargin
8570 \parsep \z@ \@plus\p@}%
8571 \small%
8572 \item\relax\noindent\ignorespaces}
8573 {\endlist}
8574 \renewenvironment{quote}
8575 {\list{}\listparindent\leftmargin}%
8576 \small%
8577 \item\relax}
8578 {\endlist}
8579 % Italicize description run-in headings (instead of the default bold)
8580 \renewcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\em #1}
8581 %%
8582 % Redefine \bibsection to not mark the running heads.
8583 % (Code modified from natbib.sty.)

```



```

8584 \@ifundefined{chapter}%
8585   {\renewcommand\bibsection{\section*{\refname}}}
8586   {\@ifundefined{NAT@sectionbib}%
8587     {\renewcommand\bibsection{\chapter{\bibname}}}
8588     {\renewcommand\bibsection{\section*{\bibname}}}}
8589 \RequirePackage{multicol}
8590 \renewenvironment{theindex}{%
8591 \@ifundefined{chapter}%
8592   {\section*{\indexname}}%
8593   {\chapter{\indexname}}%
8594   \begin{fullwidth}%
8595   \small%
8596   \parskip0pt%
8597   \parindent0pt%
8598   \let\item\@idxitem%
8599   \begin{multicols}{3}%
8600 }{%
8601   \end{multicols}%
8602   \end{fullwidth}%
8603 }
8604 \AtBeginDocument{%
8605 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8606 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8607 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8608 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8609 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8610 \NeedsTeXFormat{LaTeX2e}
8611 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8612 bidi implementation of tufte hyperref]
8613 %%
8614 % Color
8615 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8616 \newboolean{@bidituftehyperref@loadhyper}
8617 \setboolean{@bidituftehyperref@loadhyper}{true}
8618 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8619 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8620 \ProcessOptions
8621 %% Loads the hyperref package and sets some default options.
8622 \newcommand{\bidituftehyperrefLoadHyperref}{%
8623 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8624 \hypersetup{%
8625   bookmarksdepth = section,
8626   citecolor = DarkGreen,
8627   linkcolor = DarkBlue,
8628   pagecolor = DarkBlue,
8629   urlcolor = DarkGreen,
8630 }%
8631 }
8632 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8633   \bidituftehyperrefLoadHyperref%
8634 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.

```




```

8635 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8636 }

```

58 File `bidituftetitle.sty`

```

8637 \NeedsTeXFormat{LaTeX2e}
8638 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8639 bidi implementation of tufte title]
8640 \RequirePackage{biditools}
8641 %%
8642 % `titlepage' option -- creates a full title page with \maketitle
8643 \newboolean{@bidituftetitle@titlepage}
8644 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8645 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8646 % Default `book' and `handout' options
8647 \@ifclassloaded{book}{%
8648 \ExecuteOptions{titlepage}}{%
8649 \@ifclassloaded{article}{%
8650 \ExecuteOptions{notitlepage}}%
8651 {}}
8652 \ProcessOptions
8653 %%
8654 % Modified \title, \author, and \date commands. These store the
8655 % (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
8656 \newcommand{\plaintitle}{}% plain-text-only title
8657 \newcommand{\plainauthor}{}% plain-text-only author
8658 \newcommand{\plainpublisher}{}% plain-text-only publisher
8659 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8660 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8661 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8662 \newcommand{\@publisher}{}% full publisher with \thanks{}
8663 \newcommand{\thedate}{\today}
8664 \bidi@patch@AfterPackage{bidi}{%
8665 \renewcommand{\thanks}[1]{\footnote{#1}}
8666 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8667 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8668 }
8669 \renewcommand{\title}[2][]{%
8670 \gdef{@title{#2}}%
8671 \begingroup%
8672 % TODO store contents of \thanks command
8673 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8674 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8675 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8676 \protected@xdef\thanklesstitle{#2}%
8677 \endgroup%
8678 \ifthenelse{\isempty{#1}}%
8679 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8680 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8681 \@ifundefined{hypersetup}%
8682 {}% hyperref is not loaded; do nothing
8683 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8684 }
8685 \let\@author\@empty% suppress default latex.ltx ``no author'' warning

```



```

8686 \renewcommand{\author}[2][]{%
8687 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8688 \begingroup%
8689 % TODO store contents of \thanks command
8690 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8691 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8692 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8693 \protected@xdef\thanklessauthor{#2}%
8694 \endgroup%
8695 \ifthenelse{\isempty{#1}}%
8696 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8697 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8698 \@ifundefined{hypersetup}%
8699 {}% hyperref is not loaded; do nothing
8700 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8701 }
8702 \renewcommand{\date}[1]{}%
8703 \gdef\@date{#1}%
8704 \begingroup%
8705 % TODO store contents of \thanks command
8706 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8707 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8708 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8709 \protected@xdef\thedata{#1}%
8710 \endgroup%
8711 }
8712 %%
8713 % Provides a \publisher command to set the publisher
8714 \newcommand{\publisher}[2][]{%
8715 \gdef\@publisher{#2}%
8716 \begingroup%
8717 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8718 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8719 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8720 \protected@xdef\thanklesspublisher{#2}%
8721 \endgroup%
8722 \ifthenelse{\isempty{#1}}
8723 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8724 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8725 }
8726 %%
8727 % Produces a full title page
8728 \newcommand{\maketitlepage}[0]{}%
8729 \cleardoublepage%
8730 {%
8731 \bfseries%
8732 \begin{fullwidth}%
8733 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8734 \vspace{11.5pc}%
8735 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8736 \vfill%
8737 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8738 \end{fullwidth}%
8739 }

```



```

8740 \thispagestyle{empty}%
8741 \clearpage%
8742 }
8743 %%
8744 % Title block
8745 \bidi@AfterEndPreamble{%
8746 \renewcommand{\maketitle}{%
8747 \newpage%
8748 \global\@topnum\z@% prevent floats from being placed at the top of the page
8749 \begingroup%
8750 \setlength{\parindent}{0pt}%
8751 \setlength{\parskip}{4pt}%
8752 \let\@title\@empty%
8753 \let\@author\@empty%
8754 \let\@date\@empty%
8755 \gdef\@title{\LARGE\itshape\@title\par}%
8756 \gdef\@author{\Large\itshape\@author\par}%
8757 \gdef\@date{\Large\itshape\@date\par}%
8758 \@title%
8759 \@author%
8760 \@date%
8761 \endgroup%
8762 \thispagestyle{plain}% suppress the running head
8763 }%
8764 }
8765 %%
8766 % Title page (if the 'titlepage' option was passed to the bidentufte-handout
8767 % class.)
8768 \bidi@AfterEndPreamble{%
8769 \ifthenelse{\boolean{@bidentufte@titlepage}}{
8770 {\renewcommand{\maketitle}{\maketitlepage}}
8771 {}
8772 }
8773 %%
8774 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8775 % without headers and footers
8776 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8777 \hbox{}
8778 %\vspace*{\fill}
8779 %\begin{center}
8780 % This page intentionally contains only this sentence.
8781 %\end{center}
8782 %\vspace{\fill}
8783 \thispagestyle{empty}
8784 \newpage
8785 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File bidentufte-handout.cls

```

8786 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8787 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8788 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8789 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8790 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}

```



```

8791 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8792 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetitle}}
8793 \ProcessOptions\relax
8794 \LoadClass{article}
8795 \RequirePackage{biditytethefloat}
8796 \RequirePackage{biditytethe sidenote}
8797 \RequirePackage{bidityttetoc}
8798 \RequirePackage{biditytethegeneralstructure}
8799 \RequirePackage{biditytethehyperref}
8800 \RequirePackage{bidityttetitle}
8801 \renewenvironment{abstract}
8802   {\begin{quotation}}
8803   {\end{quotation}}
8804 \AtBeginDocument{%
8805   \IfFileExists{biditytethe-handout.cfg}
8806     {\input{biditytethe-handout.cfg}}
8807     \ClassInfo{biditytethe-handout}{Loading biditytethe-handout configuration file \@gobble}}
8808   {}%
8809 }

```

60 File biditytethe-book.cls

```

8810 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8811 \ProvidesClass{biditytethe-book}[2011/06/18 v0.1 biditytethe-book class]
8812 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8813 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethefloat}}
8814 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetoc}}
8815 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8816 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetitle}}
8817 \ProcessOptions\relax
8818 \LoadClass{book}
8819 \RequirePackage{biditytethefloat}
8820 \RequirePackage{biditytethe sidenote}
8821 \RequirePackage{bidityttetoc}
8822 \RequirePackage{biditytethegeneralstructure}
8823 \RequirePackage{biditytethehyperref}
8824 \RequirePackage{bidityttetitle}
8825 %%
8826 % Set up any book-specific stuff now
8827 %%
8828 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8829 % to the opening page of Chapter 1. The running heads, when they appear,
8830 % contain only the (arabic) page number in the outside corner.
8831 %\newif\if@mainmatter \@mainmattertrue
8832 \renewcommand\frontmatter{%
8833   \cleardoublepage%
8834   \@mainmatterfalse%
8835   \pagenumbering{arabic}%
8836   %\pagestyle{plain}%
8837   \fancyhf{}%
8838   \ifthenelse{\boolean{@biditytethefloat@twoside}}{%
8839     {\fancyhead[LE,RO]{\thepage}}%
8840     {\fancyhead[RE,RO]{\thepage}}%
8841 }

```



```

8842 %%
8843 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8844 % numbering---it continues where it left off in the front matter.
8845 \renewcommand\mainmatter{%
8846   \cleardoublepage%
8847   \@mainmattertrue%
8848   \fancyhf{}%
8849   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8850     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8851     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8852     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8853     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8854 }
8855 %%
8856 % The back matter contains appendices, indices, glossaries, endnotes,
8857 % bibliographies, list of contributors, illustration credits, etc.
8858 \renewcommand\backmatter{%
8859   \if@openright%
8860     \cleardoublepage%
8861   \else%
8862     \clearpage%
8863   \fi%
8864   \@mainmatterfalse%
8865 }
8866 %%
8867 % Only show the chapter titles in the table of contents
8868 \setcounter{tocdepth}{0}
8869 \AtBeginDocument{%
8870 \IfFileExists{biditufte-book.cfg}
8871   {\input{biditufte-book.cfg}
8872     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8873   {}%
8874 }

```

61 File bidipoem.sty

```

8875 \NeedsTeXFormat{LaTeX2e}
8876 \ProvidesPackage{bidipoem}%
8877 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8878
8879 % Usage:
8880 %
8881 % \Setversedim #1#2 % define the layout (within a group):
8882 % #1 = length of both half-verses
8883 % #2 = separation distance = length of a connection, if present
8884 % Variant:
8885 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8886 % #1 = length of first (=right) half-verse
8887 % #2 = length of second (=left) half-verse
8888 % #3 = separation distance = length of a connection, if present
8889 %
8890 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8891 % #1 = text of first (=right) half-verse
8892 % #2 = text of second (=left) half-verse

```



```

8893 % Variant:
8894 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8895 % #1 = text of first (=right) half-verse
8896 % #2 = text of connection
8897 % #3 = text of second (=left) half-verse
8898 %
8899 % Alternative (if preferred):
8900 %
8901 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8902
8903
8904 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8905
8906 % define the layout, verses will be centered
8907
8908 \newdimen \bidipoem@hrlen \newdimen \bidipoem@hvsep
8909 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hrlen
8910
8911 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8912 \bidipoem@hvind \textwidth
8913 \bidipoem@hrlen #1\relax \advance \bidipoem@hvind -\bidipoem@hrlen
8914 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8915 \bidipoem@@hrlen \bidipoem@hrlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8916
8917 \def \bidipoem@set@verseI [#1]{% optional parameter
8918 \bidipoem@@hrlen #1\relax \bidipoem@set@@verse }
8919
8920 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8921 \advance \bidipoem@hvind -\bidipoem@@hrlen \bidipoem@hvsep #1\relax
8922 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8923
8924 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8925 \ifdim Opt > \bidipoem@hvind %
8926 \bidipoem@spreadbox \bidipoem@hrlen {#1}\ \hfill % first block
8927 \else
8928 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hrlen {#1}\fi
8929 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8930 \bidipoem@spreadbox \bidipoem@@hrlen {#3}% second block
8931 \par }
8932
8933 % macro for two half verses
8934 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8935 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
8936 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8937 \bidipoem@half@verses@next}
8938
8939 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8940 \traditionalconnverses {#1}{#2}{#3}}
8941
8942
8943 {\catcode\^^M=\active % these lines must end with %
8944 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8945 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8946 {\catcode\^^M=\active % these lines must end with %

```



```

8947 \gdef\modernpoem@obeylines{\catcode\^M\active \let^M\modernpoem@par}%
8948 \global\let^M\modernpoem@par} % this is in case ^M appears in a \write
8949 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8950 \def\poemmarginskip{1em plus 1fil minus 1em}
8951 \def\poemextrabaselineskip{0\baselineskip}
8952 \def\poemskip{\medskip}
8953 \newcommand{\bidipoem@openbox}{\leavevmode
8954 \hbox to.77778em{%
8955 \hfil\vrule
8956 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8957 \vrule\hfil}}
8958 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8959 \newdimen\versewidth
8960 \newtoks\bidipoem@p@ftn
8961 \def\poem@verse#1{%
8962 \ifdim\wd#1>\new@poem@width
8963 \xdef\new@poem@width{\the\wd#1}%
8964 \ifdim\new@poem@width>\poem@width
8965 \xdef\poem@width{\new@poem@width}%
8966 \global\let\poem@needrun\relax
8967 \fi
8968 \fi
8969 \hbox to\poem@width{\unhbox#1}%
8970 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8971 }
8972 \def\poem@linebegin{\vadjust{\hskip\@flushglue\hskip\poemmarginskip\relax}
8973 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8974 \def\poem@lineversesep{%
8975 \nobreak
8976 \hskip\z@ plus 1filll%
8977 \penalty600%
8978 \hskip\poemcolsepskip
8979 \hskip\z@ plus -2filll%
8980 \vadjust{}}%
8981 \nobreak
8982 \hskip\z@ plus 1filll%
8983 }
8984 \def\poem@lineparsebegin{%
8985 \halign\bgroup
8986 \global\setbox\verse@i=\hbox{%
8987 \let\@footnotetext\bidipoem@p@ftntext%
8988 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8989 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8990 \let\@xfootnotenext\bidipoem@p@xftntext%
8991 \let\@xfootnote\bidipoem@p@xfootnote%
8992 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8993 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8994 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8995 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8996 \ignorespaces##\unskip}&&
8997 \global\setbox\verse@ii=\hbox{%
8998 \let\@footnotetext\bidipoem@p@ftntext%
8999 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9000 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%

```



```

9001 \let\@xfootnotenext\bidipoem@p@xftntext%
9002 \let\@xfootnote\bidipoem@p@xfootnote%
9003 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9004 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9005 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9006 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9007 \ignorespaces##\unskip}
9008 \cr
9009 }
9010 \def\poem@lineparseend{%
9011 \crr\egroup
9012 \vskip-\baselineskip
9013 }
9014 \def\traditionalpoem@cr{%
9015 \cr\poem@line
9016 }
9017 \newbox\verse@i
9018 \newbox\verse@ii
9019 \newif\ifpoem@started
9020
9021 \def\poem@line{%
9022 \poem@lineparseend
9023 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9024 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9025 \ifpoem@started
9026 \ifdim\wd\verse@ii>\z@\else
9027 \nopagebreak[3]
9028 \fi
9029 \leavevmode
9030 \poem@linebegin
9031 \poem@verse\verse@i
9032 \ifdim\wd\verse@ii>\z@
9033 \poem@lineversesep
9034 \poem@verse\verse@ii
9035 \fi
9036 \poem@lineend
9037 % \nopagebreak
9038 \par
9039 \vskip\poemextrabaselineskip
9040 \fi
9041 \poem@lineparsebegin
9042 }
9043 \def\@traditionalpoem{%
9044 \stepcounter{poem@no}
9045 \ifnum\max@poem@no<\number\c@poem@no%
9046 \xdef\poem@width{\z@}%
9047 \else
9048 \xdef\poem@width{\poem@prop{poem@width}}%
9049 \fi
9050 \xdef\new@poem@width{\z@}%
9051 \global\versewidth=\poem@width
9052 \poemskip\par
9053 \begingroup
9054 \tabskip=\z@

```




```

9055 \parskip=\z@
9056 \parindent=\z@
9057 \parfillskip=\z@
9058 \rightskip=\z@
9059 \leftskip=\z@
9060 \widowpenalty=10000% No break between verses of the same line.
9061 \clubpenalty=10000% Same as above. Not really needed.
9062 \def\newblock{\hfil\poemblocksep\hfil\null}%
9063 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9064 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9065 \global\poem@startedfalse
9066 \csname poem@obeylines\endcsname
9067 \let\poem@obeylines\relax
9068 \poem@lineparsebegin
9069 }
9070 \def\@endtraditionalpoem{%
9071 \cr
9072 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9073 \noalign{%
9074 \skip0=\poemextrabaseskip
9075 \vskip-\skip0
9076 \vskip-\baseskip
9077 }%
9078 \fi\fi
9079 \poem@lineparseend
9080 \endgroup
9081 \par
9082 \vskip\baseskip
9083 \poemskip
9084 \ifdim\new@poem@width<\poem@width
9085 \global\let\poem@needrun\relax
9086 \fi
9087 \poem@write@aux{\poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9088 \ifx\AtEndDocument\undefined\poem@finish\fi
9089 \@endparenv
9090 }
9091
9092
9093 \long\def\bidipoem@p@ftntext#1{%
9094 \edef\@temp{ \the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname] }%
9095 \global\bidipoem@p@ftn\expandafter{\@temp{#1}}}%
9096 \long\def\bidipoem@p@LTRftntext#1{%
9097 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname] }%
9098 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9099 \long\def\bidipoem@p@RTLftntext#1{%
9100 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname] }%
9101 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9102
9103 \long\def\bidipoem@p@xftntext[#1]#2{%
9104 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}%
9105
9106 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9107 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}%
9108

```



```

9109 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9110   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9111
9112 \def\bidipoem@p@xfootnote[#1]{%
9113   \begingroup
9114     \csname c@\@mpfn\endcsname #1\relax
9115     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9116   \endgroup
9117   \@footnotemark\bidipoem@p@xftntext[#1]}
9118
9119 \def\bidipoem@p@xLTRfootnote[#1]{%
9120   \begingroup
9121     \csname c@\@mpfn\endcsname #1\relax
9122     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9123   \endgroup
9124   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9125
9126 \def\bidipoem@p@xRTLfootnote[#1]{%
9127   \begingroup
9128     \csname c@\@mpfn\endcsname #1\relax
9129     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9130   \endgroup
9131   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9132
9133
9134
9135 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9136 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9137 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9138 \def\poem@finish{%
9139 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9140 \ifx\poem@needrun\relax
9141 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9142 \global\let\poem@needrun\undefined
9143 \fi
9144 }
9145 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9146 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9147 \ifx\max@poem@no\undefined
9148   \def\max@poem@no{0}%
9149 \fi
9150 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
9151 \newcommand{\poem@write@aux}[2]{%
9152   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9153   \@x
9154 }
9155 \def\@modernpoem{%
9156 \par
9157 \begingroup
9158 \parskip=\z@
9159 \parindent=\z@
9160 \def\[{ \@settab\@tabplus\ignorespaces}%
9161 \def\]{ \@tabminus\ignorespaces}%
9162 \def\newblock{\poemblocksep}%

```



```

9163 \let\newpoem@tabcr\@tabcr
9164 \def\modernpoem@par{% Redefine \par for possible \obeylines
9165   \ifpoem@started\else
9166     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9167       \@stopfield
9168       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9169       \@contfield
9170     \fi
9171   \fi
9172   \ifpoem@started\newpoem@tabcr\fi}%
9173 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9174 \global\poem@startedfalse
9175 \csname poem@obeylines\endcsname
9176 \let\poem@obeylines\relax
9177 \begin{tabbing}%
9178 }
9179 \def\@endmodernpoem{%
9180 \global\poem@startedfalse
9181 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9182   \@stopfield
9183   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9184   \@contfield
9185 \fi
9186 \ifpoem@started\else\let\@stopline\@stopfield\fi
9187 \end{tabbing}%
9188 \endgroup
9189 \par
9190 \if@nparlist \else
9191   \ifdim\lastskip >\z@
9192     \@tempskipa\lastskip \vskip -\lastskip
9193     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9194     \vskip\@tempskipa
9195   \fi
9196   \@endparenv
9197 \fi
9198 }
9199 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9200 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9201 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9202 \gdef\@startfield{%
9203 \global\setbox\@curfield\hbox\bgroup%
9204 \let\@footnotetext\bidipoem@p@ftntext%
9205 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9206 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9207 \let\@xfootnotenext\bidipoem@p@xftntext%
9208 \let\@xfootnote\bidipoem@p@xfootnote%
9209 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9210 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9211 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9212 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9213 \color@begingroup}
9214 \gdef\@stopfield{%
9215   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9216 \gdef\@contfield{%

```



```

9217 \global\setbox\@curfield\hbox\bgroup%
9218 \let\@footnotetext\bidipoem@p@ftntext%
9219 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9220 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9221 \let\@xfootnotenext\bidipoem@p@xftntext%
9222 \let\@xfootnote\bidipoem@p@xfootnote%
9223 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9224 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9225 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9226 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9227 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9228 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9229 \renewenvironment{theindex}{%
9230   \if@twocolumn
9231     \@restonecolfalse
9232   \else
9233     \@restonecoltrue
9234   \fi
9235   \columnseprule \z@
9236   \columnsep 35\p@
9237   \twocolumn[\@makeschapterhead{\indexname}]%
9238   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9239   \thispagestyle{plain}\parindent\z@
9240   \parskip\z@ \@plus .3\p@\relax
9241   \let\item\@idxitem
9242 }{%
9243   \if@restonecol\onecolumn\else\clearpage\fi}
9244 \renewcommand*\head@style{%
9245   \interlinepenalty \@M
9246   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9247   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9248 \renewcommand*\@regtocline[3]{%
9249   \ifnum #1>\c@tocdepth
9250   \else
9251     \vskip\z@ \@plus .2\p@
9252     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9253     \if@RTL\rightskip\else\leftskip\fi\unitindent
9254     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9255     \parfillskip\z@
9256     \@tempdima\unitindent
9257     \parindent\z@
9258     \leavevmode
9259     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9260     \hskip 1em \nobreak{\slshape #3}\par
9261   }%
9262   \fi}
9263 \if@oldtoc
9264 \renewcommand*\l@part[2]{%
9265   \ifnum \c@tocdepth >-2\relax
9266     \addpenalty{-\@highpenalty}%
9267     \addvspace{2.25em \@plus\p@}%

```



```

9268 \begingroup
9269 \setlength\@tempdima{3em}%
9270 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9271 \parfillskip -\@pnumwidth
9272 {\leavevmode
9273 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9274 \nobreak
9275 \global\@nobreaktrue
9276 \everypar{\global\@nobreakfalse\everypar{}}%
9277 \endgroup
9278 \fi}
9279 \else
9280 \renewcommand*\l@part{%
9281 \ifnum \c@tocdepth >-2\relax
9282 \addpenalty{-\@highpenalty}%
9283 \advspace{2.25em \@plus \p@}%
9284 \@regtocline{0}%
9285 \fi}
9286 \fi
9287 \if@oldtoc
9288 \renewcommand*\l@chapter[2]{%
9289 \addpenalty{-\@highpenalty}%
9290 \vskip 1.0em \@plus \p@
9291 \setlength\@tempdima{1.5em}%
9292 \begingroup
9293 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9294 \parfillskip -\@pnumwidth
9295 \leavevmode \bfseries
9296 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9297 \hskip -\if@RTL\rightskip\else\leftskip\fi
9298 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9299 \penalty\@highpenalty
9300 \endgroup}
9301 \else
9302 \renewcommand*\l@chapter{\@regtocline{0}}
9303 \fi
9304 \renewenvironment{abstract}{%
9305 \titlepage
9306 \null\vfil
9307 \section*{\SectFont \abstractname}
9308 \noindent\ignorespaces}
9309 {\par\vfil\null\endtitlepage}
9310 \renewenvironment{thebibliography}[1]
9311 {\chapter*{\bibname}%
9312 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9313 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9314 \bidi@thebibliography@font@hook%
9315 \list{\@biblabel{\@arabic\c@enumiv}}%
9316 {\settowidth\labelwidth{\@biblabel{#1}}%
9317 \leftmargin\labelwidth
9318 \advance\leftmargin\labelsep
9319 \@openbib@code
9320 \usecounter{enumiv}%
9321 \let\p@enumiv\@empty

```



```

9322         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
9323         \sloppy\clubpenalty4000\widowpenalty4000%
9324         \sfcode`\.\@m}
9325     {\def\@noitemerr
9326       {\@latex@warning{Empty `thebibliography' environment}}}%
9327     \endlist}
9328 \renewcommand*\left@footnoterule{%
9329   \kern-3\p@
9330   \kern.5\baselineskip
9331   \hrule\@width\unitindent
9332   \kern.4\baselineskip
9333 }
9334 \renewcommand*\right@footnoterule{%
9335   \kern-3\p@
9336   \kern.5\baselineskip
9337   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9338   \kern.4\baselineskip}
9339 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9340 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9341 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9342 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9343 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9344 \renewcommand*\theequation{%
9345   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9346 \renewcommand*\thefigure{%
9347   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9348 \renewcommand*\thetable{%
9349   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9350 \renewcommand*\maketitle{%
9351   \begin{titlepage}%
9352     \let\footnotesize\small
9353     \let\right@footnoterule\relax
9354     \let\left@footnoterule\relax
9355     \let\textwidth\footnoterule\relax
9356     \let \footnote \thanks
9357     \long\def\@makefnmark##1{\parindent\z@
9358       \def\labelitemi{\textendash}\@revlabeltrue
9359       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9360     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9361     \if@compatibility\setcounter{page}{0}\fi
9362     \null\vfil
9363     \vskip 60\p@
9364     \begin{center}%
9365       \TitleFont
9366       {\LARGE \def\\{\penalty -\@M}
9367         \if@allcaps
9368           \expandafter\uc@nothanks\@title\thanks\relax
9369         \else
9370           \@title
9371         \fi\par}%
9372     \vskip 3em%
9373     {\large
9374       \lineskip .75em \parindent\z@
9375       \begin{tabular}[t]{c}%

```



```

9376         \if@allcaps
9377         \expandafter\uc@authornothanks\@author\and\relax
9378         \else
9379         \@author
9380         \fi
9381     \end{tabular}\par}%
9382     \vskip 1.5em%
9383     {\large
9384     \if@allcaps
9385     \uppercase\expandafter{\@date}%
9386     \else
9387     \@date
9388     \fi\par}%
9389     \end{center}\par
9390     \@thanks
9391     \vfil\null
9392 \end{titlepage}%
9393 \setcounter{footnote}{0}%
9394 \global\let\thanks\relax
9395 \global\let\maketitle\relax
9396 \global\let\@thanks\@empty
9397 \global\let\@author\@empty
9398 \global\let\@title\@empty
9399 \global\let\@date\@empty
9400 \global\let\title\relax
9401 \global\let\author\relax
9402 \global\let\date\relax
9403 \global\let\and\relax
9404 }

```

63 File boek-xetex-bidi.def

```

9405 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9406 \renewenvironment{theindex}{%
9407     \if@twocolumn
9408         \@restonecolfalse
9409     \else
9410         \@restonecoltrue
9411     \fi
9412     \columnseprule \z@
9413     \columnsep 35\p@
9414     \twocolumn[\@makeschapterhead{\indexname}]%
9415     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9416     \thispagestyle{plain}\parindent\z@
9417     \parskip\z@ \@plus .3\p@\relax
9418     \let\item\@idxitem
9419 }{%
9420     \if@restonecol\onecolumn\else\clearpage\fi}
9421 \renewcommand*\head@style{%
9422     \interlinepenalty \@M
9423     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9424     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9425 \renewcommand*\@regtocline[3]{%
9426     \ifnum #1>\c@tocdepth

```



```

9427 \else
9428 \vskip\z@\@plus.2\p@
9429 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9430 \if@RTL\righskip\else\leftskip\fi\unitindent
9431 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
9432 \parfillskip\z@
9433 \@tempdima\unitindent
9434 \parindent\z@
9435 \leavevmode
9436 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
9437 \hskip 1em \nobreak{\slshape #3}\par
9438 }%
9439 \fi}
9440 \if@oldtoc
9441 \renewcommand*\l@part[2]{%
9442 \ifnum \c@tocdepth >-2\relax
9443 \addpenalty{-\@highpenalty}%
9444 \addvspace{2.25em \@plus\p@}%
9445 \begingroup
9446 \setlength\@tempdima{3em}%
9447 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
9448 \parfillskip -\@pnumwidth
9449 {\leavevmode
9450 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9451 \nobreak
9452 \global\@nobreaktrue
9453 \everypar{\global\@nobreakfalse\everypar{}}%
9454 \endgroup
9455 \fi}
9456 \else
9457 \renewcommand*\l@part{%
9458 \ifnum \c@tocdepth >-2\relax
9459 \addpenalty{-\@highpenalty}%
9460 \addvspace{2.25em \@plus \p@}%
9461 \@regtocline{0}%
9462 \fi}
9463 \fi
9464 \if@oldtoc
9465 \renewcommand*\l@chapter[2]{%
9466 \addpenalty{-\@highpenalty}%
9467 \vskip 1.0em \@plus\p@
9468 \setlength\@tempdima{1.5em}%
9469 \begingroup
9470 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
9471 \parfillskip -\@pnumwidth
9472 \leavevmode \bfseries
9473 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
9474 \hskip -\if@RTL\righskip\else\leftskip\fi
9475 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9476 \penalty\@highpenalty
9477 \endgroup}
9478 \else
9479 \renewcommand*\l@chapter{\@regtocline{0}}
9480 \fi

```




```

9481 \renewcommand*\left@footnoterule{%
9482   \kern-3\p@
9483   \kern.5\baselineskip
9484   \hrule\@width\unitindent
9485   \kern.4\baselineskip
9486 }
9487 \renewcommand*\right@footnoterule{%
9488   \kern-3\p@
9489   \kern.5\baselineskip
9490   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9491   \kern.4\baselineskip}
9492 \renewenvironment{abstract}{%
9493   \titlepage
9494   \null\vfil
9495   \section*{\SectFont \abstractname}
9496   \noindent\ignorespaces}
9497   {\par\vfil\null\endtitlepage}
9498 \renewenvironment{thebibliography}[1]
9499   {\chapter*{\bibname}%
9500    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9501    \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9502    \bidi@thebibliography@font@hook%
9503    \list{\@biblabel{\@arabic\c@enumiv}}{%
9504      {\settowidth\labelwidth{\@biblabel{#1}}%
9505       \leftmargin\labelwidth
9506       \advance\leftmargin\labelsep
9507       \@openbib@code
9508       \usecounter{enumiv}%
9509       \let\p@enumiv\@empty
9510       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9511     \sloppy\clubpenalty4000\widowpenalty4000%
9512     \sfcode`. \@m}
9513   {\def\@noitemerr
9514     {\@latex@warning{Empty `thebibliography' environment}}}%
9515   \endlist}
9516 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9517 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9518 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9519 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9520 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9521 \renewcommand*\theequation{%
9522   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9523 \renewcommand*\thefigure{%
9524   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9525 \renewcommand*\thetable{%
9526   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9527 \renewcommand*\maketitle{%
9528   \begin{titlepage}%
9529     \let\footnotesize\small
9530     \let\right@footnoterule\relax
9531     \let\left@footnoterule\relax
9532     \let\textwidth\footnoterule\relax
9533     \let \footnote \thanks
9534     \long\def\@makefntext##1{\parindent\z@

```



```

9535         \def\labelitemi{\textendash}\@revlabeltrue
9536         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9537 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9538 \if@compatibility\setcounter{page}{0}\fi
9539 \null\vfil
9540 \vskip 60\p@
9541 \begin{center}%
9542   \TitleFont
9543   {\LARGE \def\{\{\penalty -\@M}
9544     \if@allcaps
9545       \expandafter\uc@nothanks\@title\thanks\relax
9546     \else
9547       \@title
9548     \fi\par}%
9549 \vskip 3em%
9550 {\large
9551   \lineskip .75em \parindent\z@
9552   \begin{tabular}[t]{c}%
9553     \if@allcaps
9554       \expandafter\uc@authornothanks\@author\and\relax
9555     \else
9556       \@author
9557     \fi
9558   \end{tabular}\par}%
9559 \vskip 1.5em%
9560 {\large
9561   \if@allcaps
9562     \uppercase\expandafter{\@date}%
9563   \else
9564     \@date
9565   \fi\par}%
9566 \end{center}\par
9567 \@thanks
9568 \vfil\null
9569 \end{titlepage}%
9570 \setcounter{footnote}{0}%
9571 \global\let\thanks\relax
9572 \global\let\maketitle\relax
9573 \global\let\@thanks\@empty
9574 \global\let\@author\@empty
9575 \global\let\@title\@empty
9576 \global\let\@date\@empty
9577 \global\let\title\relax
9578 \global\let\author\relax
9579 \global\let\date\relax
9580 \global\let\and\relax
9581 }

```

64 File `bookest-xetex-bidi.def`

```

9582 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9583 \def\@makechapterhead#1{%
9584   \vspace*{20\p@}
9585   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont

```



```

9586 \ifnum \c@secnumdepth >\m@ne
9587 \if@mainmatter
9588 {\colorA\huge\scshape \@chapapp\space \thechapter}
9589 \par\nobreak
9590 \vskip 10\p@
9591 \fi
9592 \fi
9593 \interlinepenalty\@M
9594 {\colorB\hrule}
9595 \vskip 15\p@
9596 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9597 {\colorA\Huge \bfseries #1}\par\nobreak
9598 \if@RTL\end{flushleft}\else\end{flushright}\fi
9599 \vskip 5\p@
9600 {\colorB\hrule}
9601 \vskip 30\p@
9602 }}
9603 \def\@makeschapterhead#1{%
9604 \vspace*{20\p@}
9605 {\parindent \z@ \raggedright \normalfont
9606 {\colorB\hrule}
9607 \vskip 15\p@
9608 \begin{center}
9609 {\colorA\Huge \bfseries #1}\par\nobreak
9610 \end{center}
9611 \vskip 5\p@
9612 {\colorB\hrule}
9613 \vskip 30\p@
9614 }}

```

65 File book-xetex-bidi.def

```

9615 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class]
9616 \renewenvironment{theindex}
9617 {\if@twocolumn
9618 \@restonecolfalse
9619 \else
9620 \@restonecoltrue
9621 \fi
9622 \columnseprule \z@
9623 \columnsep 35\p@
9624 \twocolumn[\@makeschapterhead{\indexname}]%
9625 \@mkboth{\MakeUppercase\indexname}%
9626 {\MakeUppercase\indexname}%
9627 \thispagestyle{plain}\parindent\z@
9628 \parskip\z@ \@plus .3\p@\relax
9629 \let\item\@idxitem}
9630 {\if@restonecol\onecolumn\else\clearpage\fi}
9631 \IfClassLoadedF{bookest}{%
9632 \if@titlepage
9633 \renewcommand\maketitle{\begin{titlepage}%
9634 \let\footnotesize\small
9635 \let\right@footnoterule\relax
9636 \let\left@footnoterule\relax

```



```

9637 \let\textwidth@footnoterule\relax
9638 \let \footnote \thanks
9639 \let \LTRfootnote \LTRthanks
9640 \let \RTLfootnote \RTLthanks
9641 \null\vfil
9642 \vskip 60\p@
9643 \begin{center}%
9644   {\LARGE \@title \par}%
9645   \vskip 3em%
9646   {\large
9647     \lineskip .75em%
9648     \begin{tabular}[t]{c}%
9649       \@author
9650     \end{tabular}\par}%
9651     \vskip 1.5em%
9652     {\large \@date \par}%           % Set date in \large size.
9653 \end{center}\par
9654 \@thanks
9655 \vfil\null
9656 \end{titlepage}%
9657 \setcounter{footnote}{0}%
9658 \global\let\thanks\relax
9659 \global\let\LTRthanks\relax
9660 \global\let\RTLthanks\relax
9661 \global\let\maketitle\relax
9662 \global\let\@thanks\@empty
9663 \global\let\@author\@empty
9664 \global\let\@date\@empty
9665 \global\let\@title\@empty
9666 \global\let\title\relax
9667 \global\let\author\relax
9668 \global\let\date\relax
9669 \global\let\and\relax
9670 }
9671 \else
9672 \renewcommand\maketitle{\par
9673   \begingroup
9674     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9675     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9676     \long\def\@makefntext#1{\parindent 1em\noindent
9677       \hb@xt@1.8em{%
9678         \hss\@textsuperscript{\normalfont\@thefnmark}}\##1}%
9679     \if@twocolumn
9680       \ifnum \col@number=\@ne
9681         \@maketitle
9682       \else
9683         \twocolumn[\@maketitle]%
9684       \fi
9685     \else
9686       \newpage
9687       \global\@topnum\z@ % Prevents figures from going at top of page.
9688       \@maketitle
9689     \fi
9690     \thispagestyle{plain}\@thanks

```



```

9691 \endgroup
9692 \setcounter{footnote}{0}%
9693 \global\let\thanks\relax
9694 \global\let\LTRthanks\relax
9695 \global\let\RTLthanks\relax
9696 \global\let\maketitle\relax
9697 \global\let\@maketitle\relax
9698 \global\let\@thanks\@empty
9699 \global\let\@author\@empty
9700 \global\let\@date\@empty
9701 \global\let\@title\@empty
9702 \global\let\title\relax
9703 \global\let\author\relax
9704 \global\let\date\relax
9705 \global\let\and\relax
9706 }
9707 \def\@maketitle{%
9708 \newpage
9709 \null
9710 \vskip 2em%
9711 \begin{center}%
9712 \let \footnote \thanks
9713 \let \LTRfootnote \LTRthanks
9714 \let \RTLfootnote \RTLthanks
9715 {\LARGE \@title \par}%
9716 \vskip 1.5em%
9717 {\large
9718 \lineskip .5em%
9719 \begin{tabular}[t]{c}%
9720 \@author
9721 \end{tabular}\par}%
9722 \vskip 1em%
9723 {\large \@date}%
9724 \end{center}%
9725 \par
9726 \vskip 1.5em}
9727 \fi}
9728 \IfPackageLoadedF{tocloft}{%
9729 \renewcommand*\l@part[2]{%
9730 \ifnum \c@tocdepth >-2\relax
9731 \addpenalty{-\@highpenalty}%
9732 \addvspace{2.25em \@plus\p}%
9733 \setlength\@tempdima{3em}%
9734 \begin{group
9735 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9736 \parfillskip -\@pnumwidth
9737 {\leavevmode
9738 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9739 \nobreak
9740 \global\@nobreaktrue
9741 \everypar{\global\@nobreakfalse\everypar{}}%
9742 \end{group
9743 \fi}
9744 \renewcommand*\l@chapter[2]{%

```



```

9745 \ifnum \c@tocdepth >\m@ne
9746 \addpenalty{-\@highpenalty}%
9747 \vskip 1.0em \@plus\p@
9748 \setlength\@tempdima{1.5em}%
9749 \begingroup
9750 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9751 \parfillskip -\@pnumwidth
9752 \leavevmode \bfseries
9753 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9754 \hskip -\if@RTL\rightskip\else\leftskip\fi
9755 #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
9756 \penalty\@highpenalty
9757 \endgroup
9758 \fi}
9759 }
9760 \renewcommand\left@footnoterule{%
9761 \kern-3\p@
9762 \hrule\@width.4\columnwidth
9763 \kern2.6\p@}
9764 \renewcommand\right@footnoterule{%
9765 \kern-3\p@
9766 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9767 \kern2.6\p@}
9768 \renewcommand\theequation
9769 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9770 \renewcommand \thefigure
9771 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9772 \renewcommand \thetable
9773 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9774 \renewcommand \thechapter {\@arabic\c@chapter}
9775 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9776 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9777 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9778 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9779 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9780 \def\@makechapterhead#1{%
9781 \vspace*{50\p@}%
9782 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9783 \ifnum \c@secnumdepth >\m@ne
9784 \if@mainmatter
9785 \huge\bfseries \@chapapp\space \thechapter
9786 \par\nobreak
9787 \vskip 20\p@
9788 \fi
9789 \fi
9790 \interlinepenalty\@M
9791 \Huge \bfseries #1\par\nobreak
9792 \vskip 40\p@
9793 }}
9794 \def\@makeschapterhead#1{%
9795 \vspace*{50\p@}%
9796 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9797 \normalfont
9798 \interlinepenalty\@M

```



```

9799 \Huge \bfseries #1\par\nobreak
9800 \vskip 40\p@
9801 }}
9802 \renewcommand\backmatter{%
9803 \if@openright
9804 \cleardoublepage
9805 \else
9806 \clearpage
9807 \fi
9808 \@mainmatterfalse}
9809 \IfPackageLoadedF{natbib}{%
9810 \renewenvironment{thebibliography}[1]
9811 {\chapter*{\bibname}%
9812 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9813 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9814 \bidi@thebibliography@font@hook%
9815 \list{\@biblabel{\@arabic\c@enumiv}}%
9816 {\settowidth\labelwidth{\@biblabel{#1}}%
9817 \leftmargin\labelwidth
9818 \advance\leftmargin\labelsep
9819 \@openbib@code
9820 \usecounter{enumiv}%
9821 \let\p@enumiv\@empty
9822 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9823 \sloppy
9824 \clubpenalty4000
9825 \@clubpenalty \clubpenalty
9826 \widowpenalty4000%
9827 \sfcode\.\@m}
9828 {\def\@noitemerr
9829 {\@latex@warning{Empty `thebibliography' environment}}}%
9830 \endlist}
9831 }

```

66 File breqn-xetex-bidi.def

```

9832 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9833 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9834 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9835 \if@noskipsec \leavevmode \fi
9836 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9837 \if\eq@group\else\eq@prelim\fi
9838 \setkeys{breqn}{#1}%
9839 \the\eqstyle
9840 \eq@setnumber
9841 \begingroup
9842 \eq@setup@a
9843 \eq@startup
9844 }
9845 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9846 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9847 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9848 \global\let\GRP@label\@empty
9849 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@

```



```

9850 \global\grp@linewidth\z@\global\grp@wdNum\z@
9851 \global\let\grp@eqs@numbered@False
9852 \global\let\grp@aligned@True
9853 \global\let\grp@shiftnumber@False
9854 \eq@prelim
9855 \setkeys{breqn}{#1}%
9856 \if\grp@hasNumber \grp@setnumber \fi
9857 }
9858 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9859 \let\display@setup\dseries@display@setup
9860 % Question: should this be the default for dseries???
9861 \global\eq@wdCond\z@
9862 \@dmath[layout={M},#1]%
9863 \mathsurround\z@\@math \penalty\@Mi
9864 \let\endmath\ends@math
9865 \def\premath{%
9866 \ifdim\lastskip<.3em \unskip
9867 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9868 }%
9869 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9870 \ignorespaces
9871 }
9872 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9873 \renewenvironment{dsuspend}{%
9874 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9875 \parshape 1 \displayindent \displaywidth\relax
9876 \hsize=\columnwidth \noindent\ignorespaces
9877 }{%
9878 \par\egroup
9879 \global\setbox\GRP@box\vbox{%
9880 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9881 \unvbox\GRP@box
9882 }%
9883 \global\GRP@queue\@xp{\the\GRP@queue
9884 \@elt{\let\eq@isIntertext@True}%
9885 }%
9886 }

```

67 File cals-xetex-bidi.def

```

9887 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
9888 \newcommand\cals@setup@alignment[1]{%
9889 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9890 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9891 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9892 }
9893 \newcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9894 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9895 \if@RTLtab\cals@activate@rtl\fi
9896 \let\cals@thead@tokens=\relax
9897 \let\cals@tfoot@tokens=\relax
9898 \let\cals@tbody@tokens=\relax
9899 \cals@tfoot@height=0pt \relax
9900 \let\cals@last@context=n%

```




```

9901 \let\cals@current@context=b%
9902 \parindent=0pt \relax%
9903 \cals@setup@alignment{#1}%
9904 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsz%
9905 %% Alignment inside is independent on center/flushright outside
9906 \parfillskip=0pt plus1fil\relax
9907 \let\cals@borderL=\relax
9908 \let\cals@borderR=\relax
9909 \let\cals@borderT=\relax
9910 \let\cals@borderB=\relax
9911 \setbox\cals@backup@row=\box\voidb@x\relax
9912 \cals@AtBeginTable
9913 }{% End of the table
9914 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9915 \renewcommand\alignL{%
9916 \if@RTLtab
9917   \cals@vfillAdd\cals@paddingL
9918 \else
9919   \cals@vfillDrop\cals@paddingL
9920 \fi
9921 \cals@vfillDrop\cals@paddingR}
9922 \renewcommand\alignR{%
9923 \if@RTLtab
9924   \cals@vfillDrop\cals@paddingL
9925 \else
9926   \cals@vfillAdd\cals@paddingL
9927 \fi
9928 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9929 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package]
9930 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9931 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package]
9932 \renewcommand*\caption@par{%
9933   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9934 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9935 \def\CT@setup{%
9936   \@tempdimb\col@sep
9937   \@tempdimc\col@sep
9938   \def\CT@color{%
9939     \global\let\CT@do@color\CT@@do@color
9940     \bidicolor}}
9941 \def\@classz{\@classx
9942   \@tempcnta \count@
9943   \prepnext@tok
9944 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9945   \@addtopreamble{\if@RTLtab\beginL\fi%

```



```

9946 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9947 \ifcase \@chnum
9948 \hskip\stretch{.5}\kern\z@
9949 \d@llarbegin
9950 \insert@column
9951 \d@llarend\hskip\stretch{.5}\or
9952 \d@llarbegin \insert@column \d@llarend \hfill \or
9953 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9954 $\vcenter
9955 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9956 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9957 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9958 \fi
9959 \if@RTLtab\endR\fi\egroup\egroup
9960 \begingroup
9961 \CT@setup
9962 \CT@column@color
9963 \CT@row@color
9964 \CT@cell@color
9965 \CT@do@color
9966 \endgroup
9967 \@tempdima\ht\z@
9968 \advance\@tempdima\minrowclearance
9969 \vrule\@height\@tempdima\@width\z@
9970 \unhbox\z@\if@RTLtab\endL\fi}%
9971 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

9972 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9973 \long\def\color@b@x#1#2#3{%
9974 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9975 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9976 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9977 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9978 {#1{#2\color@block{wd\z@}{ht\z@}{dp\z@}}%
9979 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9980 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9981 \DeclareRobustCommand\color{%
9982 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor}%
9983 \def\@declaredcolor#1{%
9984 \@ifundefined{\string\color @#1}%
9985 {\c@lor@error{`#1'}}%
9986 {\expandafter\let\expandafter\current@color
9987 \csname\string\color @#1\endcsname
9988 \set@color}%
9989 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9990 \def\@undeclaredcolor[#1]#2{%
9991 \@ifundefined{color@#1}%
9992 {\c@lor@error{model `#1'}}%
9993 {\csname color@#1\endcsname\current@color{#2}%
9994 \set@color}%
9995 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9996 \DeclareRobustCommand\bidicolor{%

```



```

9997 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
9998 \def\@bidiundeclaredcolor[#1]#2{%
9999 \@ifundefined{color@#1}%
10000 {\c@lor@error{model `#1'}}%
10001 {\csname color@#1\endcsname\current@color{#2}%
10002 \set@color}%
10003 \ignorespaces}
10004 \def\@bidideclaredcolor#1{%
10005 \@ifundefined{\string\color @#1}%
10006 {\c@lor@error{`#1'}}%
10007 {\expandafter\let\expandafter\current@color
10008 \csname\string\color @#1\endcsname
10009 \set@color}%
10010 \ignorespaces}
10011 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10012 \def\color@fbox#1#2#3{%
10013 \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10014 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

72 File combine-xetex-bidi.def

```

10015 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10016 \renewcommand{\c@ll@chapsecii}[2]{%
10017 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10018 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10019 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10020 }
10021 \renewcommand{\c@ll@chapseci}{%
10022 \setlength\@tempdima{0em}%
10023 \begingroup
10024 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10025 \parfillskip -\@pnumwidth
10026 \leavevmode
10027 }
10028 \renewenvironment{tocindent}[1]{%
10029 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10030 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10031 \IfClassLoadedT{memoir}{\endinput}
10032 \RequirePackage{graphicx}
10033 \renewcommand*{\CROP@ulc}{%
10034 \if@RTLmain%
10035 \begin{picture}(0,0)
10036 \unitlength\p@\thinlines
10037 \put(-40,0){\circle{10}}
10038 \put(-30,-5){\line(0,1){10}}
10039 \put(-35,0){\line(1,0){30}}
10040 \put(-10,30){\circle{10}}
10041 \put(-5,30){\line(1,0){10}}
10042 \put(0,35){\line(0,-1){30}}
10043 \end{picture}%
10044 \else%

```



```

10045 \begin{picture}(0,0)
10046 \unitlength\p@\thinline
10047 \put(-30,0){\circle{10}}
10048 \put(-30,-5){\line(0,1){10}}
10049 \put(-35,0){\line(1,0){30}}
10050 \put(0,30){\circle{10}}
10051 \put(-5,30){\line(1,0){10}}
10052 \put(0,35){\line(0,-1){30}}
10053 \end{picture}%
10054 \fi%
10055 }
10056 \renewcommand*\CROP@urc{%
10057 \if@RTLmain%
10058 \begin{picture}(0,0)
10059 \unitlength\p@\thinline
10060 \put(20,0){\circle{10}}
10061 \put(30,-5){\line(0,1){10}}
10062 \put(35,0){\line(-1,0){30}}
10063 \put(-10,30){\circle{10}}
10064 \put(-5,30){\line(1,0){10}}
10065 \put(0,35){\line(0,-1){30}}
10066 \end{picture}%
10067 \else%
10068 \begin{picture}(0,0)
10069 \unitlength\p@\thinline
10070 \put(30,0){\circle{10}}
10071 \put(30,-5){\line(0,1){10}}
10072 \put(35,0){\line(-1,0){30}}
10073 \put(0,30){\circle{10}}
10074 \put(-5,30){\line(1,0){10}}
10075 \put(0,35){\line(0,-1){30}}
10076 \end{picture}%
10077 \fi%
10078 }
10079 \renewcommand*\CROP@llc{%
10080 \if@RTLmain%
10081 \begin{picture}(0,0)
10082 \unitlength\p@\thinline
10083 \put(-40,0){\circle{10}}
10084 \put(-30,-5){\line(0,1){10}}
10085 \put(-35,0){\line(1,0){30}}
10086 \put(-10,-30){\circle{10}}
10087 \put(-5,-30){\line(1,0){10}}
10088 \put(0,-35){\line(0,1){30}}
10089 \end{picture}%
10090 \else%
10091 \begin{picture}(0,0)
10092 \unitlength\p@\thinline
10093 \put(-30,0){\circle{10}}
10094 \put(-30,-5){\line(0,1){10}}
10095 \put(-35,0){\line(1,0){30}}
10096 \put(0,-30){\circle{10}}
10097 \put(-5,-30){\line(1,0){10}}
10098 \put(0,-35){\line(0,1){30}}

```



```

10099 \end{picture}%
10100 \fi%
10101 }
10102 \renewcommand*\CROP@lrc{%
10103 \if@RTLmain%
10104 \begin{picture}(0,0)
10105 \unitlength\p@\thinline
10106 \put(20,0){\circle{10}}
10107 \put(30,-5){\line(0,1){10}}
10108 \put(35,0){\line(-1,0){30}}
10109 \put(-10,-30){\circle{10}}
10110 \put(-5,-30){\line(1,0){10}}
10111 \put(0,-35){\line(0,1){30}}
10112 \end{picture}%
10113 \else%
10114 \begin{picture}(0,0)
10115 \unitlength\p@\thinline
10116 \put(30,0){\circle{10}}
10117 \put(30,-5){\line(0,1){10}}
10118 \put(35,0){\line(-1,0){30}}
10119 \put(0,-30){\circle{10}}
10120 \put(-5,-30){\line(1,0){10}}
10121 \put(0,-35){\line(0,1){30}}
10122 \end{picture}%
10123 \fi%
10124 }
10125 \ifpackagewith{crop}{cam}{%
10126 \CROP@except{cam}%
10127 }{}

```

74 File cutwin-xetex-bidi.def

```

10128 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10129 \renewcommand*\c@twcompctr}[2]{%
10130 \def\c@twfirst{1}
10131 \loop\advance\c@twinlines\m@ne
10132 \setbox\c@twslicea=\vsplit#1 to\baselineskip
10133 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10134 \c@twprune{\c@twslicea}{\c@twlftside}%
10135 \c@twprune{\c@twsliceb}{\c@twrtside}%
10136 \ifnum\c@twfirst=\@ne
10137 \setbox#2=\vbox{\unvbox#2\hbox
10138 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10139 \else
10140 \setbox#2=\vbox{\unvbox#2\hbox
10141 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
10142 \fi
10143 \def\c@twfirst{2}
10144 \ifnum\c@twinlines>\z@\repeat}
10145 \renewcommand*\c@twcompoddctr}[2]{%
10146 \def\c@twrounds{1}
10147 \def\c@twfirst{1}
10148 \@for\c@twlspec:=\c@twb\do{%
10149 \ifnum\c@twrounds=1

```



```

10150     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10151     \c@twprune{\c@twslicea}{\c@twlspec}%
10152     \def\c@twrounds{2}
10153   \else
10154     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10155     \c@twprune{\c@twsliceb}{\c@twlspec}%
10156     \ifnum\c@twfirst=1
10157       \setbox#2=\vbox{\unvbox#2\hbox
10158         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
10159       \def\c@twfirst{2}
10160     \else
10161       \setbox#2=\vbox{\unvbox#2\hbox
10162         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
10163     \fi
10164     \def\c@twrounds{1}
10165   \fi}}

```

75 File cuted-xetex-bidi.def

```

10166 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10167
10168 \def\RTL@outputdblcol{%
10169   \if@firstcolumn
10170     \global\@firstcolumnfalse
10171     \global\setbox\@leftcolumn\copy\@outputbox
10172     \splitmaxdepth\maxdimen
10173     \vbadness\maxdimen
10174     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10175     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10176     \toks@\expandafter{\topmark}%
10177     \xdef\@firstcoltopmark{\the\toks@}%
10178     \toks@\expandafter{\splitfirstmark}%
10179     \xdef\@firstcolfirstmark{\the\toks@}%
10180     \ifx\@firstcolfirstmark\@empty
10181       \global\let\@setmarks\relax
10182     \else
10183       \gdef\@setmarks{%
10184         \let\firstmark\@firstcolfirstmark
10185         \let\topmark\@firstcoltopmark}%
10186     \fi
10187   \else
10188     \global\@firstcolumntrue
10189     \setbox\@outputbox\vbox{%
10190       \hb@xt@\textwidth{%
10191         \hskip \columnwidth
10192         \hfil
10193         {\normalcolor\vrule \@width\columnseprule}%
10194         \hfil
10195         \hb@xt@\columnwidth{%
10196           \bidi@firstcolumn@status@write%
10197           \box\@leftcolumn \hss}%
10198         \hskip -\textwidth
10199         \hb@xt@\columnwidth{%
10200           \bidi@lastcolumn@status@write%

```



```

10201      \box\@outputbox \hss}%
10202      \hskip \columnsep
10203      \hskip \columnwidth }}%
10204      \ifvoid\hold@viper
10205      \else
10206        \setbox\@outputbox \vbox to\textheight{%
10207                                \box\hold@viper
10208                                \box\@outputbox
10209                                \vss
10210                                }%
10211      \fi
10212      \@combinedblfloats
10213      \@setmarks
10214      \@outputpage
10215      \begingroup
10216        \@dblfloatplacement
10217        \@startdblcolumn
10218        \@whiles\if@fcolmade \fi{\@outputpage
10219        \@startdblcolumn}%
10220        \ifvoid\@viper
10221        \else
10222          \global\setbox\@viper\vbox{%
10223              \vskip-\stripsep
10224              \unvbox\@viper
10225              }%
10226          \@viperoutput
10227        \fi
10228      \endgroup
10229      \fi}%
10230
10231      \def\LTR@outputdblcol{%
10232      \if@firstcolumn
10233        \global\@firstcolumnfalse
10234        \global\setbox\@leftcolumn\copy\@outputbox
10235        \splitmaxdepth\maxdimen
10236        \vbadness\maxdimen
10237        \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10238        \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10239        \toks@\expandafter{\topmark}%
10240        \xdef\@firstcoltopmark{\the\toks@}%
10241        \toks@\expandafter{\splitfirstmark}%
10242        \xdef\@firstcolfirstmark{\the\toks@}%
10243        \ifx\@firstcolfirstmark\@empty
10244          \global\let\@setmarks\relax
10245        \else
10246          \gdef\@setmarks{%
10247              \let\firstmark\@firstcolfirstmark
10248              \let\topmark\@firstcoltopmark}%
10249        \fi
10250      \else
10251        \global\@firstcolumntrue
10252        \setbox\@outputbox\vbox{%
10253            \hb@xt@\textwidth{%
10254                \hb@xt@\columnwidth{%

```



```

10255      \bidi@firstcolumn@status@write%
10256      \box\@leftcolumn \hss}%
10257      \hfil
10258      {\normalcolor\vrule \@width\columnseprule}%
10259      \hfil
10260      \hb@xt@\columnwidth{%
10261      \bidi@lastcolumn@status@write%
10262      \box\@outputbox \hss}}}%
10263 \ifvoid\hold@viper
10264 \else
10265   \setbox\@outputbox \vbox to\textheight{%
10266                               \box\hold@viper
10267                               \box\@outputbox
10268                               \vss
10269                               }%
10270   \fi
10271 \@combinedblfloats
10272 \@setmarks
10273 \@outputpage
10274 \begingroup
10275   \@dblfloatplacement
10276   \@startdblcolumn
10277   \@whiles\if@fcolmade \fi{\@outputpage
10278   \@startdblcolumn}%
10279   \ifvoid\@viper
10280   \else
10281     \global\setbox\@viper\vbox{%
10282               \vskip-\stripsep
10283               \unvbox\@viper
10284               }%
10285   \@viperoutput
10286   \fi
10287 \endgroup
10288 \fi}%
10289
10290 \def\@addviper{%
10291   \@insertfalse
10292   \def\var@@thecol@num{2}%
10293   \if@firstcolumn
10294     \def\var@@thecol@num{1}%
10295     \@reqcolroom=.5\@pageht
10296     \ht@viper=\@reqcolroom
10297     \advance\@reqcolroom by\ht\@viper
10298     \advance\@reqcolroom by\stripsep
10299   \else
10300     \@reqcolroom=\@colht
10301     \advance\@reqcolroom by\@pageht
10302     \ht@viper.5\@reqcolroom
10303     \@reqcolroom=\ht@viper
10304     \advance\@reqcolroom by\ht\@viper
10305     \advance\@reqcolroom by\stripsep
10306     \global\setbox\@holdpg\vbox{%
10307       \setbox\cuted@tempbox@a\vbox{%
10308         \aftergroup\unvbox

```




```

10309         \unvcopy\@leftcolumn
10310         \unskip\unkern\unpenalty
10311         \setbox\@tempboxa\lastbox
10312         \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10313             %% keeps lastbox
10314             \aftergroup\@leftcolumn
10315         \else
10316             %% removes lastbox
10317             \aftergroup\cuted@@tempbox@a
10318         \fi
10319     }%
10320     \unskip\unkern\unpenalty
10321     \on@stripcols@break
10322     \the\At@ViperColsBreak
10323     \unvbox\@holdpg
10324 }%
10325 \global\At@ViperColsBreak{}%
10326 \ht@viper=.5\ht\@holdpg
10327 \ifdim\ht@viper>\@colht
10328     \ht@viper=\@colht
10329 \fi
10330 \fi
10331 %%
10332 %% calculations for breaking
10333 %%
10334 \ifvoid\hold@viper
10335     \ht@hold@viper=\z@
10336 \else
10337     \ht@hold@viper=\ht\hold@viper
10338 \fi
10339 \cuted@@tempdim@b\ht@viper
10340 \set@split@topskip@to\topskip
10341 \loop
10342     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10343     \setbox\cuted@@varbox@a\copy\@holdpg
10344     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10345     %% set leftcolumn boxes
10346     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10347     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10348     \xdef\var@@leftcolumn@badness{\the\badness}%
10349     %% set rightcolumn boxes
10350     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10351     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10352     \xdef\var@@rightcolumn@badness{\the\badness}%
10353     %% analyzing split goodness
10354     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10355     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10356     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10357     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10358     \cuted@@wlog@debug{CUTED [----]}%
10359     ^^JLeft: \the\ht\cuted@@tempbox@c
10360     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10361     ^^JRight: \the\ht\cuted@@varbox@c
10362     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness

```



```

10363      ^^JSplit: \the\cuted@@tempdim@b
10364      ^^JExtra height: \the\cuted@@tempdim@spread
10365    }%
10366    \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10367      \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10368        \cuted@@tempdim@spread=\z@
10369      \fi
10370    \fi
10371    \ifdim\cuted@@tempdim@spread<\z@
10372      \if@left@column@spread
10373        \if@right@column@shrink
10374          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10375            \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10376          \else
10377            \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10378          \fi
10379          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10380          \ifnum\badness<\cuted@@column@badness
10381            \cuted@@tempdim@b=\cuted@@tempdim@a
10382            \cuted@@tempdim@spread=\z@
10383          \fi
10384          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10385          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10386          \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10387        \else
10388          \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10389            \unvcopy\cuted@@tempbox@c
10390          }%
10391          \ifnum\badness<\cuted@@column@badness
10392            \@tempdimb=\ht\cuted@@varbox@c
10393            \cuted@@tempdim@spread=\z@
10394          \fi
10395          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10396          \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10397            \unvcopy\cuted@@varbox@c
10398          }%
10399          \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\h
10400        \fi
10401      \else
10402        \if@right@column@shrink
10403          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10404          \else
10405            \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10406            \cuted@@tempdim@spread=\z@
10407          \fi
10408        \fi
10409      \fi
10410    \else
10411      \ifdim\cuted@@tempdim@spread>\z@
10412        \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10413          \cuted@@tempdim@b=\@colht
10414          \cuted@@tempdim@spread=\z@
10415        \fi
10416      \fi

```



```

10417     \fi
10418     \ifdim\cuted@@tempdim@spread<\z@
10419         \advance\cuted@@tempdim@b 1\p@
10420     \repeat
10421     \wlog{CUTED [- LAST -]%
10422         ^^JExtra skip:\the\cuted@@tempdim@spread
10423         ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10424         ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10425         ^^JSplit:\saved@tempdimb
10426         ^^JOutput:\the\cuted@@tempdim@b
10427         ^^JPageshrink:\the\pageshrink
10428         ^^JPagestretch:\the\pagestretch
10429         ^^J@colht:\the\@colht
10430     }%
10431 %%
10432 %% final construction of the cuted page above strip
10433 %%
10434 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10435 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10436     \cuted@@tempdim@a=\dimexpr
10437         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10438     \relax
10439     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10440     \unvbox\cuted@@tempbox@c
10441     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10442     \else
10443         \vskip-\cuted@@tempdim@spread
10444     \fi
10445     \prevdepth\z@
10446     \hrule\@height\cuted@@page@rule width\textwidth
10447     \vskip-\cuted@@page@rule
10448     \ifdim\cuted@@tempdim@a>\z@
10449         \if@left@column@spread
10450         \else
10451             \vss
10452         \fi
10453     \else
10454         \ifdim\cuted@@tempdim@a<\z@
10455             \if@left@column@shrink
10456             \else
10457                 \vss
10458             \fi
10459         \fi
10460     \fi
10461 }%
10462 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10463     ^^JCUTED [leftcolumn badness]: \number\badness
10464 }%
10465 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10466     \cuted@@tempdim@a=\dimexpr
10467         \cuted@@tempdim@b-\ht\@holdpg
10468     \relax
10469     \unvbox\@holdpg
10470     \ifdim\cuted@@tempdim@a>\z@

```



```

10471         \if@right@column@spread
10472         \else
10473             \vss
10474         \fi
10475     \else
10476         \ifdim\cuted@@tempdim@a<\z@
10477             \if@right@column@shrink
10478             \else
10479                 \vss
10480             \fi
10481         \fi
10482     \fi
10483 }%
10484 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10485 \setbox\cuted@@tempbox@var\vbox{%
10486     \hb@xt@\textwidth{%
10487         \if@RTLmain
10488             \hskip \columnwidth
10489             \hfil
10490             {\normalcolor\vrule \@width\columnseprule}%
10491             \hfil
10492             \hb@xt@\columnwidth{%
10493                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10494                 \hss
10495             }%
10496             \hskip -\textwidth
10497             \hb@xt@\columnwidth{%
10498                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10499                 \hss
10500             }%
10501             \hskip \columnsep
10502             \hskip \columnwidth
10503         \else
10504             \hb@xt@\columnwidth{%
10505                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10506                 \hss
10507             }%
10508             \hfil
10509             {\normalcolor\vrule \@width\columnseprule}%
10510             \hfil
10511             \hb@xt@\columnwidth{%
10512                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10513                 \hss
10514             }%
10515         \fi
10516     }%
10517 }%
10518 %%
10519 %% finalize cuted page
10520 %%
10521 \ifvoid\hold@viper
10522     \global\setbox\hold@viper\vbox{%
10523         \unvbox\cuted@@tempbox@var
10524         \penalty\interlinepenalty

```



```

10525         \vskip\stripsep
10526         \the\preCutedStrip
10527         \ifnum\outputpenalty<-\@Mii
10528             \vskip -\parskip
10529         \fi
10530         \outputpenalty\z@
10531     }%
10532 \else
10533     \global\setbox\hold@viper\vbox{%
10534         \unvbox\hold@viper
10535         \cuted@@tempbox@var
10536         \penalty\interlinepenalty
10537         \vskip\stripsep
10538         \the\preCutedStrip
10539         \ifnum\outputpenalty<-\@Mii
10540             \vskip -\parskip
10541         \fi
10542         \outputpenalty\z@
10543     }%
10544 \fi
10545 \ifdim\@colht>\@reqcolroom
10546     \global\setbox\hold@viper\vbox{%
10547         \unvbox\hold@viper
10548         \box\@viper
10549         \penalty\interlinepenalty
10550         \the\postCutedStrip
10551         \vskip\stripsep
10552         \ifnum\outputpenalty<-\@Mii
10553             \vskip -\parskip
10554         \fi
10555         \outputpenalty\z@
10556     }%
10557     \@inserttrue
10558     \global\@firstcolumntrue
10559     \advance\ht@hold@viper by-\ht\hold@viper
10560     \global\advance\@colht by\ht@hold@viper
10561     \ifdim\@colht<2.5\baselineskip
10562         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10563             too tall on page \thepage (\var@@thecol@num column)}}%
10564         \@emptycol
10565         \if@firstcolumn
10566         \else
10567             \@emptycol
10568         \fi
10569         \global\@lastvipertrue
10570 \else
10571     \global\vsizel\@colht
10572     \global\@colroom\@colht
10573     \check@floats\cuted@@tempdim@a
10574     \ifdim\cuted@@tempdim@a>\z@
10575         \global\advance\@colroom by-\cuted@@tempdim@a
10576     \fi
10577     \ifdim\@colroom<\z@
10578         \global\@colroom1\p@

```



```

10579         \ifdim\cuted@@tempdim@a>\@colht
10580             \latex@warning@no@line{TOP and/or BOT FLOAT's
10581                 to large on \thepage (\var@@thecol@num column)}}%
10582         \fi
10583         \@emptycol
10584         \if@firstcolumn
10585         \else
10586             \@emptycol
10587         \fi
10588         \global\@lastvipertrue
10589     \fi
10590 \fi
10591 \fi
10592 \if@insert
10593 \else
10594     \advance\ht@hold@viper by-\ht\hold@viper
10595     \global\advance\@colht by\ht@hold@viper
10596     \global\setbox\hold@viper\ vbox{%
10597         \unvbox\hold@viper
10598         \set@split@topskip@to{\z@ plus2\p@}%
10599         \vsplit\@viper to\@colht
10600         \vss
10601     }%
10602     \vbox{%
10603         \global\@firstcolumnfalse
10604         \newpage
10605     \fi
10606 }

```

76 File cvthemebidicasual.sty

```

10607 \NeedsTeXFormat{LaTeX2e}
10608 \ProvidesPackage{cvthemebidicasual}
10609 \DeclareOption{blue}{}
10610 \newif\if@colourorange\@colourorangefalse
10611 \DeclareOption{orange}{\@colourorangetrue}
10612 \newif\if@colourgreen\@colourgreenfalse
10613 \DeclareOption{green}{\@colourgreentrue}
10614 \newif\if@colourred\@colourredfalse
10615 \DeclareOption{red}{\@colourredtrue}
10616 \newif\if@colourgrey\@colourgreyfalse
10617 \DeclareOption{grey}{\@colourgreytrue}
10618 \DeclareOption*{
10619     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10620 \ExecuteOptions{colour}
10621 \ProcessOptions\relax
10622 \renewcommand*{\listitemsymbol}{\textbullet}
10623 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10624 \familynamecolour{808080}
10625 \firstnamecolour{A9A9A9}
10626 \quotecolour{696969}
10627 \addresscolour{696969}
10628 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10629 \sectiontitlecolour{1E90FF}

```



```

10630 \subsectioncolour{4682B4}
10631 \definecolor{rulecolour}{gray}{0.6}
10632 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10633 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10634 \if@colourorange
10635   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10636   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10637   \sectiontitlecolour{FF8C00}
10638   \subsectioncolour{FF8C00}
10639   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10640   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10641 \if@colourgreen
10642   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10643   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10644   \sectiontitlecolour{008000}
10645   \subsectioncolour{008000}
10646   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10647   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10648 \if@coloured
10649   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10650   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10651   \sectiontitlecolour{FF0000}
10652   \subsectioncolour{FF0000}
10653   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10654   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10655 \if@colougrey
10656   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10657   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10658   \sectiontitlecolour{808080}
10659   \subsectioncolour{808080}
10660   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10661   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10662 \renewcommand*{\ttdefault}{pcr}
10663 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10664 \renewcommand*{\familynamefont}{\firstnamefont}
10665 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10666 \renewcommand*{\quoteontext}{\large\slshape}
10667 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10668 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10669 \renewcommand*{\maketitle}{%
10670   {%
10671     \ifthenelse{\isundefined{\@photo}}{%
10672       {%
10673         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10674         \hfill%
10675         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10676         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10677       \ifthenelse{\isundefined{\@quote}}{%
10678         {%
10679           \centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10680         }%
10681       \newif\iffirstfooterelement\@firstfooterelementtrue
10682       \providecommand*{\footersymbol}{%
10683       \renewcommand*{\footersymbol}{%

```



```

10684 \if@firstfooterelement%
10685 \else%
10686 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10687 \providecommand*\makefooter{}
10688 \renewcommand*\makefooter{%
10689 \fancypagestyle{plain}{%
10690 \fancyfoot[c]{%
10691 \parbox{0.8\textwidth}{%
10692 \centering%
10693 \addressfont\@addresscolour%
10694 \ifthenelse{isundefined{\@address}}{}{}%
10695 \addresssymbol~\@address\\%
10696 \@firstfooterelementfalse}%
10697 \ifthenelse{isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10698 \ifthenelse{isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10699 \ifthenelse{isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10700 \ifthenelse{isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10701 \ifthenelse{isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
10702 }%
10703 \pagestyle{plain}}
10704 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10705 \NeedsTeXFormat{LaTeX2e}
10706 \ProvidesPackage{cvthemebidiclassic}
10707 \DeclareOption{blue}{}
10708 \newif\if@colourorange\@colourorangefalse
10709 \DeclareOption{orange}{\@colourorangetrue}
10710 \newif\if@colourgreen\@colourgreenfalse
10711 \DeclareOption{green}{\@colourgreentrue}
10712 \newif\if@colourred\@colourredfalse
10713 \DeclareOption{red}{\@colourredtrue}
10714 \newif\if@colourgrey\@colourgreyfalse
10715 \DeclareOption{grey}{\@colourgreytrue}
10716 \DeclareOption*{
10717 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10718 \ExecuteOptions{colour}
10719 \ProcessOptions\relax
10720 \renewcommand*\listitemsymbol{\textbullet}
10721 \firstnamecolour{}
10722 \familynamecolour{}
10723 \titlecolour{808080}
10724 \quotecolour{696969}
10725 \addresscolour{696969}
10726 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10727 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10728 \sectiontitlecolour{1E90FF}
10729 \subsectioncolour{4682B4}
10730 \if@colourorange
10731 \addresscolour{FF8C00}
10732 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10733 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10734 \sectiontitlecolour{FF8C00}

```




```

10735 \subsectioncolour{FF8C00}\fi
10736 \if@colourgreen
10737 \addresscolour{008000}
10738 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10739 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10740 \sectiontitlecolour{008000}
10741 \subsectioncolour{008000}\fi
10742 \if@coloured
10743 \addresscolour{FF0000}
10744 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10745 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10746 \sectiontitlecolour{FF0000}
10747 \subsectioncolour{FF0000}\fi
10748 \if@colourgrey
10749 \addresscolour{808080}
10750 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10751 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10752 \sectiontitlecolour{808080}
10753 \subsectioncolour{808080}\fi
10754 \renewcommand*{\ttdefault}{pcr}
10755 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10756 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10757 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10758 \renewcommand*{\familynamefont}{\firstnamefont}
10759 \renewcommand*{\quote font}{\large\slshape}
10760 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10761 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10762 \newlength{\maketitlenamemaxwidth}
10763 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10764 \newlength{\maketitlenamefullwidth}
10765 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10766 \newlength{\maketitlenamewidth}
10767 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10768 \newlength{\maketitlepicturewidth}
10769 \setlength{\maketitlepicturewidth}{\@photowidth}
10770 \newlength{\maketitledetailwidth}
10771 \renewcommand*{\recomputethemelengths}{%
10772 \setlength{\maketitledetailwidth}{\textwidth}%
10773 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10774 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10775 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10776 \recomputethemelengths
10777 \newif\if@firstdetailselement\@firstdetailselementtrue
10778 \newcommand*{\maketitledetailnewline}{%
10779 \if@firstdetailselement%
10780 \@firstdetailselementfalse%
10781 \else%
10782 \\\[.2em]\fi}
10783 \renewcommand*{\maketitle}{%
10784 % name and title
10785 \begin{minipage}[b]{\maketitlenamewidth}%
10786 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10787 \ifthenelse{\equal{\@title}{}}{\}\{\}\[1.25em]{\titlestyle{\@title}}%
10788 \end{minipage}%

```



```

10789 % optional data
10790 \begin{minipage}[b]{\maketitledetailwidth}%
10791   \bidi@raggedleft\addressfont\@addresscolour%
10792   \ifthenelse{\isundefined{\@address}}{\}%
10793     \maketitledetailsnewline%
10794     \addresssymbol~\@address%
10795     \ifthenelse{\isundefined{\@mobile}}{\}\{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10796     \ifthenelse{\isundefined{\@phone}}{\}\{\maketitledetailsnewline\phonesymbol~\@phone}%
10797     \ifthenelse{\isundefined{\@fax}}{\}\{\maketitledetailsnewline\faxsymbol~\@fax}%
10798     \ifthenelse{\isundefined{\@email}}{\}\{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10799     \ifthenelse{\isundefined{\@extrainfo}}{\}\{\maketitledetailsnewline\@extrainfo}%
10800 \end{minipage}%
10801 % optional photo
10802 \ifthenelse{\isundefined{\@photo}}%
10803   {\%
10804     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10805 % optional quote
10806 \ifthenelse{\isundefined{\@quote}}%
10807   {\%
10808     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10809   }

```

78 File dblfnote-xetex-bidi.def

```

10810 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10811 \let\autofootnoterule\relax
10812 \let\rightfootnoterule\relax
10813 \let\leftfootnoterule\relax
10814 \let\textwidthfootnoterule\relax
10815 \let\LRfootnoterule\relax
10816 \def\footnoterule{\kern-3\p@
10817   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10818 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10819 \let\@footnotetext\dfn@footnotetext}
10820 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10821   \let\insert\dfn@gobble
10822   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10823   \def\@makefnmark{\smash{\dfn@makefnmark}}
10824   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10825   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10826   \ifdim\dfn@dima>\z@else
10827     \dfn@dima1sp\relax
10828     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10829   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10830     \ifvoid\dfn@inselse
10831       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10832     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10833   \setbox\dfn@boxa\copy\dfn@ins
10834   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10835   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10836   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10837   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10838   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10839 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext

```



```

10840 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10841 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10842     \let\insert\dfn@gobble
10843     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10844     \def\@makefnmark{\smash{\dfn@makefnmark}}
10845     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10846     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10847     \ifdim\dfn@dima>z@\else
10848         \dfn@dima1sp\relax
10849         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10850     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10851         \ifvoid\dfn@ins\else
10852             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10853             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10854     \setbox\dfn@boxa\copy\dfn@ins
10855     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10856     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10857     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10858     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10859     \xdef\dfn@list{\dfn@list\@elt{number\dfn@dima}{number\@tempdima}}}}
10860 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10861 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10862 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10863     \dfn@dima\ht\footins
10864     \@tempcnta\z@ \dfn@countins
10865     \@tempdima\z@ \let\@elt\dfn@elt@getht
10866     \dfn@list\@nil
10867     \ifdim\@tempdima=\z@\else
10868         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10869         \global\setbox\dfn@ins\box\dfn@ins
10870         \@tempswatrue
10871         \ifdfn@trysingle
10872             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10873             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10874             \advance\@tempdima-\skip\footins
10875             \advance\@tempdima-\ht\dfn@boxa
10876             \ifdim\@tempdima<\z@\else \@tempswafalse
10877                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10878                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10879             \if@tempswa
10880                 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10881                 \global\setbox\footins\vbox{\hbox{%
10882                     \hskip \DFNcolumnwidth
10883                     \hskip\DFNcolumnsep
10884                     \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10885                         \unvbox\dfn@boxb\vss}\hss}
10886                     \hskip -\textwidth
10887                     \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10888                         \vbox to\@tempdima{
10889                             \setbox\@tempboxa\vbox{\footnoterule}
10890                             \ifdfn@ruleboth \unvbox\@tempboxa
10891                             \else \@tempdima\ht\@tempboxa
10892                                 \advance\@tempdima\dp\@tempboxa
10893                                 \vskip\@tempdima

```



```

10894             \prevdepth\dp\@tempboxa \fi
10895             \unvbox\dfn@boxa\vss}\fi\hss}
10896             \hskip \DFNcolumnsep
10897             \hskip \DFNcolumnwidth}}\fi\fi
10898 \global\dfn@fnht\z@
10899 \ifx\dfn@list\@empty\else
10900     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10901     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10902     \let\@elt\relax
10903     \ifdim\dfn@dimb>\z@
10904         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10905         \insert\footins{\floatingpenalty\@MM
10906             \vbox to\dfn@dimb{}}\fi
10907     \ifdim\dfn@fnht>\@tempdima
10908         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10909         \global\dfn@fnht\@tempdima
10910         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10911         \xdef\dfn@afteroutput{\insert\footins{
10912             \floatingpenalty\@MM
10913             \vbox to\number\@tempdimb sp{}}}%
10914         \global\let\noexpand\dfn@afteroutput\relax}%
10915     \fi\fi
10916 \fi}%
10917 \let\footnoterule\relax \dfn@latex@makecol
10918 \let\footnoterule\dfn@footnoterule}
10919 \def\dfn@LTRmakecol{\ifvoid\footins\else
10920     \dfn@dima\ht\footins
10921     \@tempcnta\z@ \dfn@countins
10922     \@tempdima\z@ \let\@elt\dfn@elt@getht
10923     \dfn@list\@nil
10924     \ifdim\@tempdima=\z@\else
10925     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10926     \global\setbox\dfn@ins\box\dfn@ins
10927     \@tempswatrue
10928     \ifdfn@trysingle
10929         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10930         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10931         \advance\@tempdima-\skip\footins
10932         \advance\@tempdima-\ht\dfn@boxa
10933         \ifdim\@tempdima<\z@\else \@tempswafalse
10934             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10935                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10936     \if@tempswa
10937     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10938     \global\setbox\footins\vbox{\hbox{%
10939         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10940             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10941         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10942             \vbox to\@tempdima{
10943                 \setbox\@tempboxa\vbox{\footnoterule}
10944                 \ifdfn@ruleboth \unvbox\@tempboxa
10945                 \else \@tempdima\ht\@tempboxa
10946                 \advance\@tempdima\dp\@tempboxa
10947                 \vskip\@tempdima

```



```

10948 \prevdepth\dp\@tempboxa \fi
10949 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10950 \global\dfn@fnht\z@
10951 \ifx\dfn@list\@empty\else
10952 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10953 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10954 \let\@elt\relax
10955 \ifdim\dfn@dimb>\z@
10956 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10957 \insert\footins{\floatingpenalty\@MM
10958 \vbox to\dfn@dimb{}}}\fi
10959 \ifdim\dfn@fnht>\@tempdima
10960 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10961 \global\dfn@fnht\@tempdima
10962 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10963 \xdef\dfn@afteroutput{\insert\footins{
10964 \floatingpenalty\@MM
10965 \vbox to\number\@tempdimb sp{}}}%
10966 \global\let\noexpand\dfn@afteroutput\relax}%
10967 \fi\fi
10968 \fi}%
10969 \let\footnoterule\relax \dfn@latex@makecol
10970 \let\footnoterule\dfn@footnoterule}
10971 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10972 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10973 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10974 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

10975 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10976 \bidi@patchcmd{\diagbox@double}{%
10977 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10978 }{\bidi@@diagbox@double@ii}{}}
10979 \bidi@patchcmd{\diagbox@double}{%
10980 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10981 }{\bidi@@diagbox@double@iii}{}}
10982 \newcommand*{\bidi@@diagbox@double@ii}{%
10983 \if@RTL
10984 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10985 \else
10986 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10987 \fi
10988 }
10989 \newcommand*{\bidi@@diagbox@double@iii}{%
10990 \if@RTL
10991 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10992 \else
10993 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10994 \fi
10995 }
10996 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10997 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10998 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}

```



```

10999 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11000     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11001 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11002 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11003     \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
11004 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11005 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11006     \if@RTL
11007         \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}
11008     \else
11009         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11010     \fi
11011 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11012     \if@RTL
11013         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11014     \else
11015         \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
11016     \fi
11017 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11018 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11019     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11020 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11021 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11022     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11023 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11024 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11025     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11026 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11027 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11028     \if@RTL
11029         \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11030     \else
11031         \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11032     \fi
11033 }
11034 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11035     \if@RTL
11036         \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11037     \else
11038         \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11039     \fi
11040 }
11041 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11042 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11043     \diagbox@setlinecolor
11044     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11045 }{%
11046     {\diagbox@setlinecolor
11047     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11048 }{-}{-}
11049 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11050 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11051     \diagbox@setlinecolor
11052     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%

```



```

11053 }{%
11054   {\diagbox@setlinecolor
11055     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11056 }{}{}
11057 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11058 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11059   \diagbox@setlinecolor
11060   \Line(0,\yym)(\x,0)
11061   \Line(\xm,\y)(\x,0)%
11062 }{%
11063   {\diagbox@setlinecolor
11064     \Line(0,\yym)(\x,0)
11065     \Line(\xm,\y)(\x,0)}%
11066 }{}{}
11067 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11068   \diagbox@setlinecolor
11069   \Line(0,0)(\xxm,\y)
11070   \Line(0,0)(\x,\yym)%
11071 }{%
11072   {\diagbox@setlinecolor
11073     \Line(0,0)(\xxm,\y)
11074     \Line(0,0)(\x,\yym)}%
11075 }{}{}
11076 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11077   \diagbox@setlinecolor
11078   \Line(0,\ym)(\x,\y)
11079   \Line(\xm,0)(\x,\y)%
11080 }{%
11081   {\diagbox@setlinecolor
11082     \Line(0,\ym)(\x,\y)
11083     \Line(\xm,0)(\x,\y)}%
11084 }{}{}
11085 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11086   \diagbox@setlinecolor
11087   \Line(0,\y)(\xxm,0)
11088   \Line(0,\y)(\x,\ym)%
11089 }{%
11090   {\diagbox@setlinecolor
11091     \Line(0,\y)(\xxm,0)
11092     \Line(0,\y)(\x,\ym)}%
11093 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11094 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11095 \renewcommand\SetWatermarkText[1]{%
11096   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11097 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11098 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11099   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11100

```



```

11101 \ESO@isMEMOIR{%
11102   \renewcommand\AtTextUpperLeft[1]{%
11103     \begingroup
11104       \ifodd\c@page
11105         \if@RTLmain
11106           \ESO@tempdima=\paperwidth
11107           \advance\ESO@tempdima-\textwidth
11108           \advance\ESO@tempdima-\spinemargin
11109         \else
11110           \ESO@tempdima=\spinemargin
11111         \fi
11112       \else
11113         \if@RTLmain
11114           \ESO@tempdima=\spinemargin
11115         \else
11116           \ESO@tempdima=\paperwidth
11117           \advance\ESO@tempdima-\textwidth
11118           \advance\ESO@tempdima-\spinemargin
11119         \fi
11120       \fi
11121       \ESO@tempdimb=-\uppermargin
11122       \AtPageUpperLeft{%
11123         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11124       }%
11125     \endgroup
11126   }
11127 }{%
11128   \renewcommand\AtTextUpperLeft[1]{%
11129     \begingroup
11130       \ESO@tempdima=1in\relax
11131       \if@twoside
11132         \ifodd\c@page
11133           \if@RTLmain
11134             \advance\ESO@tempdima\evensidemargin
11135           \else
11136             \advance\ESO@tempdima\oddsidemargin
11137           \fi
11138         \else
11139           \if@RTLmain
11140             \advance\ESO@tempdima\oddsidemargin
11141           \else
11142             \advance\ESO@tempdima\evensidemargin
11143           \fi
11144         \fi
11145       \else
11146         \advance\ESO@tempdima\oddsidemargin
11147       \fi
11148       \ESO@tempdimb=-1in\relax
11149       \advance\ESO@tempdimb-\topmargin
11150       \advance\ESO@tempdimb-\headheight
11151       \advance\ESO@tempdimb-\headsep
11152       \AtPageUpperLeft{%
11153         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11154       }%

```




```

11155 \endgroup
11156 }
11157 }

```

82 File empheq-xetex-bidi.def

```

11158 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11159 \MHInternalSyntaxOn
11160 \def\EQ_tag_plus_endmark:{%
11161 \iftagsleft@
11162 \gdef\maketag@@@##1{%
11163 \hfuzz\displaywidth
11164 \if@RTL\makebox[\widthof{##1}][r]{%
11165 \hbox to \displaywidth{\m@th\normalfont##1\hss
11166 \raisebox{-\dp\EQ_mathdisplay_box
11167 -\depthof{\EQ_outerbox:}}{
11168 {\PotEndMark{\hss}}}}
11169 \else\makebox[\widthof{##1}][l]{%
11170 \hbox to \displaywidth{\m@th\normalfont##1\hss
11171 \raisebox{-\dp\EQ_mathdisplay_box
11172 -\depthof{\EQ_outerbox:}}{
11173 {\PotEndMark{\hss}}}}}\fi}%
11174 \MH_else:
11175 \gdef\maketag@@@##1{%
11176 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11177 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11178 \MH_addtolength:dn \@tempdima
11179 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11180 \setlength{\@tempdimb}
11181 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11182 +\depthof{\EQ_innerbox:}}}}
11183 \MH_if_dim:w \@tempdima>\@tempdimb
11184 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11185 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11186 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11187 \def\EQ_next:{\raisebox{\@tempdima}}%
11188 \MH_else:
11189 \def\EQ_next:{
11190 \raisebox{-\dp\EQ_mathdisplay_box
11191 -\depthof{\EQ_outerbox:}}}%
11192 \MH_fi:\EQ_next:}}}%
11193 \MH_fi:}
11194 \def\EQ_post_process:{%
11195 \EQ_initialize:
11196 \EQ_begin_equation:
11197 \MH_if_boolean:nT {outer_mult}{
11198 \setkeys{MT_options_name:}{
11199 firstline-afterskip=Opt,
11200 lastline-preskip=Opt,
11201 multlined-width=Opt,
11202 }
11203 \ifodd \l_EQ_alignmentmode_int
11204 \setkeys{MT_options_name:}{multlined-pos=b}
11205 \MH_else:

```



```

11206     \setkeys{\MT_options_name:}{multlined-pos=t}
11207     \MH_fi:
11208     \g@addto@macro\EQ_complete_mathdisplay:{
11209         \begin{MTmultlined}\relax
11210     }
11211     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11212     \MH_if_boolean:nT {outer_mult}{
11213         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11214     }
11215     \EQ_end_equation:
11216     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11217     \savecounters@
11218     \EQ_typeset_tags:
11219     \edef\l_EQ_equation_fint{\number\c@equation}
11220     \restorecounters@
11221     \Hy@linkcounter=\EQ_hyperref_link_fint
11222     \settowidth\l_EQ_totalwidth_dim{%
11223         $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11224     \MH_if_boolean:nTF {outer_mult}
11225     { \def\EQ_next:{_mult} }
11226     { \def\EQ_next:{} }
11227     \@nameuse{EQ_modify_linewidth_
11228         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11229     \EQ_typeset_display:
11230     \@nameuse{EQ_find_displaywidth_
11231         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11232     \MH_addtolength:dn
11233     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11234     \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11235         $\EQ_left_side:
11236         \EQ_innerbox:{%
11237             \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11238             \makebox[\l_EQ_displaywidth_dim][c]
11239             {\usebox{\EQ_mathdisplay_box}}}%
11240         \MH_or:
11241             \makebox[\l_EQ_displaywidth_dim][c]
11242             {\usebox{\EQ_mathdisplay_box}}}%
11243         \MH_or:
11244             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11245                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11246                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11247                         \kern-\@mathmargin
11248                     \MH_fi:
11249                 \MH_fi:
11250                 \usebox{\EQ_mathdisplay_box}}%
11251             \else\makebox[\l_EQ_displaywidth_dim][l]{%
11252                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11253                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11254                         \kern-\@mathmargin
11255                     \MH_fi:
11256                 \MH_fi:
11257                 \usebox{\EQ_mathdisplay_box}}\fi%
11258             \MH_or:
11259             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%

```



```

11260      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11261      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11262      \kern-\@mathmargin
11263      \MH_fi:
11264      \MH_fi:
11265      \usebox{\EQ_mathdisplay_box}}
11266      \else\makebox[\l_EQ_displaywidth_dim][l]{%
11267      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11268      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11269      \kern-\@mathmargin
11270      \MH_fi:
11271      \MH_fi:
11272      \usebox{\EQ_mathdisplay_box}}\fi%
11273      \MH_fi:}%
11274      \EQ_right_side:$}%
11275      \begin{AmSequation*}
11276      \@nameuse{EQ_place_display_
11277      \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11278      \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11279      \MH_set_boolean_T:n {show_manual_tags}
11280      \MH_if_case:w \l_EQ_alignmentmode_int
11281      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
11282      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
11283      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
11284      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
11285      \MH_fi:
11286      \MH_fi:
11287      \end{AmSequation*}
11288      \global\c@equation=\l_EQ_equation_fint\relax
11289      }
11290      \AtBeginDocument{%
11291      \@ifpackageloaded{fancybox}{%
11292      \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11293      {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11294      \renewcommand*{\shadowbox{%
11295      \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11296      \VerbBox\EQ_shadowbox:n}
11297      {\MH_set_boolean_F:n {shadowbox_star}
11298      \VerbBox\EQ_shadowbox:n}}
11299      \def\EQ_shadowbox:n #1{%
11300      \sbox{\z@}{\fbox{#1}}%
11301      \MH_if_boolean:nTF {shadowbox_star}{
11302      \MH_setlength:dn \@tempdima{\z@}%
11303      }{
11304      \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11305      }
11306      \raisebox{\@tempdima}{%
11307      \if@RTL\makebox[\z@][r]{%
11308      \kern\shadowsize \textcolor{shadowcolor}{%
11309      \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11310      }%
11311      \else\makebox[\z@][l]{%
11312      \kern\shadowsize \textcolor{shadowcolor}{%
11313      \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%

```



```

11314      }\fi%
11315      \usebox\z@\textcolor{shadowcolor}{%
11316        \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11317    }-%
11318  }
11319  \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11320 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/08 v0.7 bidi adaptations for extarticle cla
11321 \renewcommand*\l@section[2]{%
11322   \ifnum \c@tocdepth >\z@
11323     \addpenalty\@secpenalty
11324     \addvspace{1.0em \@plus\p@}%
11325     \setlength\@tempdima{1.5em}%
11326     \begingroup
11327       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11328       \parfillskip -\@pnumwidth
11329       \leavevmode \bfseries
11330       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11331       \hskip -\if@RTL\rightskip\else\leftskip\fi
11332       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11333     \endgroup
11334   \fi}
11335 \renewcommand*\l@part[2]{%
11336   \ifnum \c@tocdepth >-2\relax
11337     \addpenalty\@secpenalty
11338     \addvspace{2.25em \@plus\p@}%
11339     \begingroup
11340       \setlength\@tempdima{3em}%
11341       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11342       \parfillskip -\@pnumwidth
11343       {\leavevmode
11344         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11345       \nobreak
11346     \endgroup
11347   \fi}
11348 \ApplyPatchIfPackageLoaded{nameref}{%
11349   \bidi@patchcmd\NR@part\raggedright{%
11350     \if@RTL\raggedleft\else\raggedright\fi
11351   }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11352   \bidi@patchcmd\NR@spart\raggedright{%
11353     \if@RTL\raggedleft\else\raggedright\fi
11354   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11355 }{%
11356   \bidi@patchcmd\@part\raggedright{%
11357     \if@RTL\raggedleft\else\raggedright\fi
11358   }{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11359   \bidi@patchcmd\@spart\raggedright{%
11360     \if@RTL\raggedleft\else\raggedright\fi
11361   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11362 }
11363 \renewenvironment{thebibliography}[1]
11364   {\section*{\refname

```



```

11365      \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11366      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11367      \bidi@thebibliography@font@hook%
11368      \list{\@biblabel{\@arabic\c@enumiv}}%
11369      {\settowidth\labelwidth{\@biblabel{#1}}%
11370      \leftmargin\labelwidth
11371      \advance\leftmargin\labelsep
11372      \@openbib@code
11373      \usecounter{enumiv}%
11374      \let\p@enumiv\@empty
11375      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11376      \sloppy\clubpenalty4000\widowpenalty4000%
11377      \sfcode`. \m
11378      {\def\@noitemerr
11379      {\@latex@warning{Empty `thebibliography' environment}}}%
11380      \endlist}
11381 \renewcommand\left@footnoterule{%
11382 \kern-3\p@
11383 \hrule\@width.4\columnwidth
11384 \kern2.6\p@}
11385 \renewcommand\right@footnoterule{%
11386 \kern-3\p@
11387 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11388 \kern2.6\p@}
11389 \if@titlepage
11390 \renewcommand\maketitle{\begin{titlepage}%
11391 \let\footnotesize\small
11392 \let\right@footnoterule\relax
11393 \let\left@footnoterule\relax
11394 \let\textwidth\footnoterule\relax
11395 \let \footnote \thanks
11396 \null\vfil
11397 \vskip 60\p@
11398 \begin{center}%
11399 {\LARGE \@title \par}%
11400 \vskip 3em%
11401 {\large
11402 \lineskip .75em%
11403 \begin{tabular}[t]{c}%
11404 \@author
11405 \end{tabular}\par}%
11406 \vskip 1.5em%
11407 {\large \@date \par}% % Set date in \large size.
11408 \end{center}\par
11409 \@thanks
11410 \vfil\null
11411 \end{titlepage}%
11412 \setcounter{footnote}{0}%
11413 \global\let\thanks\relax
11414 \global\let\maketitle\relax
11415 \global\let\@thanks\@empty
11416 \global\let\@author\@empty
11417 \global\let\@date\@empty
11418 \global\let\@title\@empty

```



```

11419 \global\let\title\relax
11420 \global\let\author\relax
11421 \global\let\date\relax
11422 \global\let\and\relax
11423 }
11424 \else
11425 \renewcommand\maketitle{\par
11426 \begin{group}
11427 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11428 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11429 \long\def\@makefntext##1{\parindent 1em\noindent
11430 \hb@xt@1.8em{%
11431 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11432 \if@twocolumn
11433 \ifnum \col@number=\@one
11434 \@maketitle
11435 \else
11436 \twocolumn[\@maketitle]%
11437 \fi
11438 \else
11439 \newpage
11440 \global\@topnum\z@ % Prevents figures from going at top of page.
11441 \@maketitle
11442 \fi
11443 \thispagestyle{plain}\@thanks
11444 \end{group}
11445 \setcounter{footnote}{0}%
11446 \global\let\thanks\relax
11447 \global\let\maketitle\relax
11448 \global\let\@maketitle\relax
11449 \global\let\@thanks\@empty
11450 \global\let\@author\@empty
11451 \global\let\@date\@empty
11452 \global\let\@title\@empty
11453 \global\let\title\relax
11454 \global\let\author\relax
11455 \global\let\date\relax
11456 \global\let\and\relax
11457 }
11458 \def\@maketitle{%
11459 \newpage
11460 \null
11461 \vskip 2em%
11462 \begin{center}%
11463 \let \footnote \thanks
11464 {\LARGE \@title \par}%
11465 \vskip 1.5em%
11466 {\large
11467 \lineskip .5em%
11468 \begin{tabular}[t]{c}%
11469 \@author
11470 \end{tabular}\par}%
11471 \vskip 1em%
11472 {\large \@date}%

```



```

11473 \end{center}%
11474 \par
11475 \vskip 1.5em}
11476 \fi
11477 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11478 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11479 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11480 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11481 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11482 \if@titlepage
11483 \renewcommand\maketitle{\begin{titlepage}%
11484 \let\footnotesize\small
11485 \let\right@footnoterule\relax
11486 \let\left@footnoterule\relax
11487 \let\textwidth@footnoterule\relax
11488 \let \footnote \thanks
11489 \let \LTRfootnote \LTRthanks
11490 \let \RTLfootnote \RTLthanks
11491 \null\vfil
11492 \vskip 60\p@
11493 \begin{center}%
11494 {\LARGE \@title \par}%
11495 \vskip 3em%
11496 {\large
11497 \lineskip .75em%
11498 \begin{tabular}[t]{c}%
11499 \@author
11500 \end{tabular}\par}%
11501 \vskip 1.5em%
11502 {\large \@date \par}% % Set date in \large size.
11503 \end{center}\par
11504 \@thanks
11505 \vfil\null
11506 \end{titlepage}%
11507 \setcounter{footnote}{0}%
11508 \global\let\thanks\relax
11509 \global\let\LTRthanks\relax
11510 \global\let\RTLthanks\relax
11511 \global\let\maketitle\relax
11512 \global\let\@thanks\@empty
11513 \global\let\@author\@empty
11514 \global\let\@date\@empty
11515 \global\let\@title\@empty
11516 \global\let\title\relax
11517 \global\let\author\relax
11518 \global\let\date\relax
11519 \global\let\and\relax
11520 }
11521 \else
11522 \renewcommand\maketitle{\par
11523 \begingroup

```



```

11524 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11525 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11526 \long\def\@makefntext##1{\parindent 1em\noindent
11527 \hb@xt@1.8em{%
11528 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11529 \if@twocolumn
11530 \ifnum \col@number=\@ne
11531 \@maketitle
11532 \else
11533 \twocolumn[\@maketitle]%
11534 \fi
11535 \else
11536 \newpage
11537 \global\@topnum\z@ % Prevents figures from going at top of page.
11538 \@maketitle
11539 \fi
11540 \thispagestyle{plain}\@thanks
11541 \endgroup
11542 \setcounter{footnote}{0}%
11543 \global\let\thanks\relax
11544 \global\let\LTRthanks\relax
11545 \global\let\RTLthanks\relax
11546 \global\let\maketitle\relax
11547 \global\let\@maketitle\relax
11548 \global\let\@thanks\@empty
11549 \global\let\@author\@empty
11550 \global\let\@date\@empty
11551 \global\let\@title\@empty
11552 \global\let\title\relax
11553 \global\let\author\relax
11554 \global\let\date\relax
11555 \global\let\and\relax
11556 }
11557 \def\@maketitle{%
11558 \newpage
11559 \null
11560 \vskip 2em%
11561 \begin{center}%
11562 \let \footnote \thanks
11563 \let \LTRfootnote \LTRthanks
11564 \let \RTLfootnote \RTLthanks
11565 {\LARGE \@title \par}%
11566 \vskip 1.5em%
11567 {\large
11568 \lineskip .5em%
11569 \begin{tabular}[t]{c}%
11570 \@author
11571 \end{tabular}\par}%
11572 \vskip 1em%
11573 {\large \@date}%
11574 \end{center}%
11575 \par
11576 \vskip 1.5em}
11577 \fi

```




```

11578 \renewcommand*\l@part[2]{%
11579   \ifnum \c@tocdepth >-2\relax
11580     \addpenalty{-\@highpenalty}%
11581     \addvspace{2.25em \@plus\p@}%
11582     \begingroup
11583       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11584       \parfillskip -\@pnumwidth
11585       {\leavevmode
11586         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11587       \nobreak
11588       \global\@nobreaktrue
11589       \everypar{\global\@nobreakfalse\everypar{}}%
11590     \endgroup
11591   \fi}
11592 \renewcommand\theequation
11593   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11594 \renewcommand \thefigure
11595   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11596 \renewcommand \thetable
11597   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11598 \renewcommand \thechapter {\@arabic\c@chapter}
11599 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11600 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11601 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11602 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11603 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11604 \def\@makechapterhead#1{%
11605   \vspace*{50\p@}%
11606   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11607     \ifnum \c@secnumdepth >\m@ne
11608       \if@mainmatter
11609         \huge\bfseries \@chapapp\space \thechapter
11610         \par\nobreak
11611         \vskip 20\p@
11612       \fi
11613     \fi
11614     \interlinepenalty\@M
11615     \Huge \bfseries #1\par\nobreak
11616     \vskip 40\p@
11617   }}
11618
11619 \def\@makeschapterhead#1{%
11620   \vspace*{50\p@}%
11621   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11622     \normalfont
11623     \interlinepenalty\@M
11624     \Huge \bfseries #1\par\nobreak
11625     \vskip 40\p@
11626   }}
11627 \renewcommand\backmatter{%
11628   \if@openright
11629     \cleardoublepage
11630   \else
11631     \clearpage

```



```

11632 \fi
11633 \@mainmatterfalse}
11634 \renewenvironment{thebibliography}[1]
11635 {\chapter*{\bibname
11636 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}}%
11637 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
11638 \bidi@thebibliography@font@hook%
11639 \list{\@biblabel{\@arabic\c@enumiv}}%
11640 {\settowidth\labelwidth{\@biblabel{#1}}%
11641 \leftmargin\labelwidth
11642 \advance\leftmargin\labelsep
11643 \@openbib@code
11644 \usecounter{enumiv}}%
11645 \let\p@enumiv\@empty
11646 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11647 \sloppy
11648 \clubpenalty4000
11649 \@clubpenalty \clubpenalty
11650 \widowpenalty4000%
11651 \sfcode`. \@m}
11652 {\def\@noitemerr
11653 {\@latex@warning{Empty `thebibliography' environment}}}%
11654 \endlist}

```

85 File extletter-xetex-bidi.def

```

11655 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11656 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11657 \thispagestyle{firstpage}%
11658 {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11659 \else % home address
11660 \thispagestyle{empty}%
11661 {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11662 \fromaddress \*[2\parskip]%
11663 \@date \end{tabular}\par}%
11664 \fi
11665 \vspace{2\parskip}%
11666 {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11667 \vspace{2\parskip}%
11668 #1\par\nobreak}
11669 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11670 \stopbreaks
11671 \noindent
11672 \ifx\@empty\fromaddress\else
11673 \hspace*{\longindentation}\fi
11674 \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11675 \ignorespaces #1\ \ [6\medskipamount]%
11676 \ifx\@empty\fromsig
11677 \fromname
11678 \else \fromsig \fi\strut}%
11679 \par}
11680 \renewcommand\left@footnoterule{%
11681 \kern-\p@
11682 \hrule \@width .4\columnwidth

```



```

11683 \kern .6\p@}
11684 \renewcommand\right@footnoterule{%
11685 \kern-\p@
11686 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11687 \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11688 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11689 \newdimen\bidi@columnwidth
11690 \def\bidi@floathook{%
11691 \bidi@columnwidth\columnwidth
11692 }
11693 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11694 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11695 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11696 \ifHy@hyperfootnotes
11697 \let\@H@@footnotetext\@footnotetext
11698 \let\@HLTR@@LTRfootnotetext\@LTRfootnotetext
11699 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
11700 \let\@H@@mpfootnotetext\@mpfootnotetext
11701 \let\@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11702 \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11703 \fi
11704 }%
11705 }%
11706 }
11707 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11708 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11709 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11710 \ifHy@hyperfootnotes
11711 \let\@H@@footnotetext\@footnotetext
11712 \let\@footnotetext\@H@@footnotetext
11713 \let\@HLTR@@LTRfootnotetext\@LTRfootnotetext
11714 \let\@LTRfootnotetext\@HLTR@@LTRfootnotetext
11715 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
11716 \let\@RTLfootnotetext\@HRTL@@RTLfootnotetext
11717 \let\@H@@mpfootnotetext\@mpfootnotetext
11718 \let\@mpfootnotetext\@H@@mpfootnotetext
11719 \let\@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11720 \let\@mpLTRfootnotetext\@HLTR@@mpLTRfootnotetext
11721 \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11722 \let\@mpRTLfootnotetext\@HRTL@@mpRTLfootnotetext
11723 \fi
11724 }%
11725 }%
11726 }
11727 \let\autofootnoterule\relax
11728 \let\rightfootnoterule\relax
11729 \let\leftfootnoterule\relax
11730 \let\textwidthfootnoterule\relax
11731 \let\LRfootnoterule\relax
11732 \def\footnoterule{\kern-3\p@
11733 \hrule \@width \columnwidth \kern 2.6\p@}

```



```

11734 \newcommand{\@preamnormalfmt}{%
11735   \parindent 1em%
11736   \noindent
11737 }
11738 \newcommand{\@normalfootfmt}[1]{%
11739   \@preamnormalfmt
11740   \footfootmark
11741   \rule{z@\footnotesep}{\ignorespaces{\foottextfont #1}%
11742   \@finalstrut\strutbox
11743 }
11744 \newcommand{\@normalRTLfootfmt}[1]{%
11745   \@preamnormalfmt
11746   \RTLfootfootmark
11747   \rule{z@\footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
11748   \@finalstrut\strutbox
11749 }
11750 \newcommand{\@normalLTRfootfmt}[1]{%
11751   \@preamnormalfmt
11752   \LTRfootfootmark
11753   \rule{z@\footnotesep}{\ignorespaces{\LTRfoottextfont #1}%
11754   \@finalstrut\strutbox
11755 }
11756 \renewcommand{\@footnotetext}[1]{%
11757   \insert\footins{%
11758     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11759     \def\baselinestretch{\m@m@footnote@spacing}%
11760     \reset@font
11761     \foottextfont
11762     \@preamfntext
11763     \hsize\columnwidth
11764     \protected@edef\@currentlabel{%
11765       \csname p@footnote\endcsname\@thefnmark}%
11766     \color@begingroup
11767       \@normalfootfmt{#1}%
11768     \color@endgroup}%
11769     \m@mmf@prepare}
11770 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11771   \bidi@step@absolute@footnote@count
11772   \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11773   \insert\footins{%
11774     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11775     \def\baselinestretch{\m@m@footnote@spacing}%
11776     \reset@font
11777     \foottextfont
11778     \@preamfntext
11779     \hsize\columnwidth
11780     \protected@edef\@currentlabel{%
11781       \csname p@footnote\endcsname\@thefnmark}%
11782     \color@begingroup
11783       \@normalfootfmt{#1}%
11784     \color@endgroup}%
11785     \m@mmf@prepare
11786 }
11787 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

11788 \insert\footins{%
11789 \RTLtrue%
11790 \def\baselinestretch{\m@m@footnote@spacing}%
11791 \reset@font
11792 \RTLfoottextfont
11793 \@preamfntext
11794 \hsize\columnwidth
11795 \protected@edef\@currentlabel{%
11796 \csname p@footnote\endcsname\@thefnmark}%
11797 \color@begingroup
11798 \@normalRTLfootfmt{#1}%
11799 \color@endgroup}%
11800 \m@m@mmf@prepare}
11801 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11802 \bidi@step@absolute@footnote@count
11803 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11804 \insert\footins{%
11805 \RTLtrue%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \RTLfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalRTLfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@m@mmf@prepare
11817 }
11818 \renewcommand{\@LTRfootnotetext}[1]{%
11819 \insert\footins{%
11820 \RTLfalse%
11821 \def\baselinestretch{\m@m@footnote@spacing}%
11822 \reset@font
11823 \LTRfoottextfont
11824 \@preamfntext
11825 \hsize\columnwidth
11826 \protected@edef\@currentlabel{%
11827 \csname p@footnote\endcsname\@thefnmark}%
11828 \color@begingroup
11829 \@normalLTRfootfmt{#1}%
11830 \color@endgroup}%
11831 \m@m@mmf@prepare}
11832 \renewcommand{\@mpfootnotetext}[1]{%
11833 \global\setbox\@mpfootins\vbox{%
11834 \unvbox\@mpfootins
11835 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
11836 \def\baselinestretch{\m@m@footnote@spacing}%
11837 \reset@font%
11838 \foottextfont \hsize\columnwidth \@parboxrestore
11839 \protected@edef\@currentlabel{%
11840 \csname p@mpfootnote\endcsname\@thefnmark}%
11841 \color@begingroup

```



```

11842 \normalfootfmt{#1}%
11843 \color@endgroup}}
11844 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11845 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11846 \global\setbox\@mpfootins\vbox{%
11847 \unvbox\@mpfootins
11848 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11849 \def\baselinestretch{\m@m@footnote@spacing}%
11850 \reset@font%
11851 \foottextfont \hsize\columnwidth \@parboxrestore
11852 \protected@edef\@currentlabel{%
11853 \csname p@mpfootnote\endcsname\@thefnmark}%
11854 \color@begingroup
11855 \normalfootfmt{#1}%
11856 \color@endgroup}}
11857 \renewcommand{\@mpLTRfootnotetext}[1]{%
11858 \global\setbox\@mpfootins\vbox{%
11859 \unvbox\@mpfootins
11860 \@RTLfalse
11861 \def\baselinestretch{\m@m@footnote@spacing}%
11862 \reset@font%
11863 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11864 \protected@edef\@currentlabel{%
11865 \csname p@mpfootnote\endcsname\@thefnmark}%
11866 \color@begingroup
11867 \@normalLTRfootfmt{#1}%
11868 \color@endgroup}}
11869 \renewcommand{\@mpRTLfootnotetext}[1]{%
11870 \global\setbox\@mpfootins\vbox{%
11871 \unvbox\@mpfootins
11872 \@RTLtrue
11873 \def\baselinestretch{\m@m@footnote@spacing}%
11874 \reset@font%
11875 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11876 \protected@edef\@currentlabel{%
11877 \csname p@mpfootnote\endcsname\@thefnmark}%
11878 \color@begingroup
11879 \@normalRTLfootfmt{#1}%
11880 \color@endgroup}}
11881 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11882 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11883 \global\setbox\@mpfootins\vbox{%
11884 \unvbox\@mpfootins
11885 \@RTLtrue
11886 \def\baselinestretch{\m@m@footnote@spacing}%
11887 \reset@font%
11888 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11889 \protected@edef\@currentlabel{%
11890 \csname p@mpfootnote\endcsname\@thefnmark}%
11891 \color@begingroup
11892 \@normalRTLfootfmt{#1}%
11893 \color@endgroup}}
11894 \let\m@mold@footnotetext\@footnotetext
11895 \let\m@mold@LTRfootnotetext\@LTRfootnotetext

```



```

11896 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11897 \let\m@mold@mpfootnotetext\@mpfootnotetext
11898 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11899 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11900 \bidi@ensure@newcommand{\normalfootnotes}{%
11901   \@bidi@before@Hy@hyperfootnotes
11902   \let\@footnotetext\m@mold@footnotetext
11903   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11904   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11905   \let\@mpfootnotetext\m@mold@mpfootnotetext
11906   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11907   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11908   \@bidi@after@Hy@hyperfootnotes
11909   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11910 }
11911 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11912 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11913   \def\m@m@singlespace{#1}%
11914   \def\m@m@footnote@spacing{#1}%
11915   \def\m@m@float@spacing{#1} %
11916 }
11917 \setSingleSpace{1}
11918 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11919 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11920   \kern-\multiplefootnotemarker
11921   \kern\multiplefootnotemarker\relax}
11922 \bidi@ensure@newlength{\footmarkwidth}
11923 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11924 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11925 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11926 \bidi@ensure@newcommand{\footfootmark}{%
11927   \ifdim\footmarkwidth < \z@
11928     \llap{\hb@xt@ -\footmarkwidth{%
11929       \hss\normalfont\footscript{\@thefnmark}}}%
11930     \hspace*{-\footmarkwidth}}%
11931   \else
11932     \ifdim\footmarkwidth = \z@
11933       {\normalfont\footscript{\@thefnmark}}%
11934     \else
11935       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11936     \fi
11937   \fi}
11938 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11939   \ifdim\footmarkwidth < \z@
11940     \llap{\hb@xt@ -\footmarkwidth{%
11941       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11942     \hspace*{-\footmarkwidth}}%
11943   \else
11944     \ifdim\footmarkwidth = \z@
11945       {\normalfont\LTRfootscript{\@thefnmark}}%
11946     \else
11947       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11948     \fi
11949   \fi}

```



```

11950 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11951   \ifdim\footmarkwidth < \z@
11952     \llap{\hb@xt@ -\footmarkwidth{%
11953       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11954       \hspace*{-\footmarkwidth}}}%
11955   \else
11956     \ifdim\footmarkwidth = \z@
11957       {\normalfont\RTLfootscript{\@thefnmark}}%
11958     \else
11959       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11960     \fi
11961   \fi}
11962 \footmarkstyle{\textsuperscript{#1}}
11963 \LTRfootmarkstyle{\textsuperscript{#1}}
11964 \RTLfootmarkstyle{\textsuperscript{#1}}
11965 \newcommand*{\bidi@normal@footmarkwidth}{%
11966   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11967 }
11968 \newcommand*{\bidi@star@footmarkwidth}{%
11969   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11970 }
11971 \bidi@normal@footmarkwidth
11972 \bidi@ensure@newcommand{\m@doextrafeet}{\extrafeetins}
11973 \bidi@ensure@newcommand*{\extrafeetins}{%
11974   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11975   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11976   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11977   \extrafeetinshook}
11978 \bidi@ensure@newcommand{\extrafeetinshook}{%
11979   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11980   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11981   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11982   \bidi@ensure@newlength{\footinsdim}
11983   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11984   \bidi@ensure@newcommand{\@preamfntext}{%
11985     \interlinepenalty\interfootnotelinepenalty
11986     \floatingpenalty \@MM
11987     \splittopskip=\footnotesep
11988     \splitmaxdepth=\dp\strutbox
11989     \@parboxrestore}
11990   \def\bidi@ifmulticol#1#2{\@tempswafalse
11991     \ifnum\col@number>\@ne
11992       \ifnum\count\footins>1999 \@tempwattrue \fi
11993     \fi
11994     \if@tempswa #1\else #2\fi
11995   }
11996   \def\bidi@joinfootnotes#1#2#3{%
11997     \ifvoid#1
11998     \else
11999       \@tempskipa\skip#1%
12000       \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12001       \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12002       \bidi@removexfootskip
12003     \ifvoid\footins

```




```

12004     \global\setbox\footins\vbox{#2#3}%
12005     \else
12006     \global\setbox\footins\vbox{%
12007         \unvbox\footins
12008         \bidi@footskip
12009         #2#3%
12010     }%
12011     \fi
12012 \fi
12013 }
12014 \def\bidi@reinsertfootnote#1#2#3{%
12015     \ifvoid#1%
12016     \else
12017         \insert\footins{#2#3}%
12018     \fi
12019 }
12020 \def\bidi@joinmpfootnotes#1#2#3{%
12021     \ifvoid#1
12022     \else
12023         \@tempkipa\skip#1%
12024         \bidi@ifmulticol{\divide\@tempkipa\col@number}{}%
12025         \edef\bidi@footskip{\vskip\the\@tempkipa\relax}%
12026         \bidi@removexfootskip
12027         \ifvoid\@mpfootins
12028             \global\setbox\@mpfootins\vbox{#2#3}%
12029         \else
12030             \global\setbox\@mpfootins\vbox{%
12031                 \unvbox\@mpfootins
12032                 \bidi@footskip
12033                 #2#3%
12034             }%
12035         \fi
12036     \fi
12037 }
12038 \newcount\bidi@absolutepage@count
12039 \bidi@absolutepage@count\@ne
12040 \newcount\bidi@absolutefootnote@count
12041 \bidi@AfterOutputBoxOutputPage{%
12042     \if@filesw
12043         \edef\@tempa{%
12044             \write\@auxout{%
12045                 \string\bidi@finalfootnoteperpage%
12046                 {\noexpand\number\noexpand\bidi@absolutepage@count}%
12047                 {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12048             }%
12049         }%
12050         \@tempa
12051     \fi
12052 }
12053 \bidi@AtEndOutputPage{%
12054     \global\advance\bidi@absolutepage@count\@ne
12055 }
12056 \newcommand*{\bidi@finalfootnoteperpage}[2]{%
12057     \expandafter\gdef\csname bidi@currentpagefinalfootnote@@#1\endcsname{#2}%

```



```

12058 }
12059 \newif\if@bidi@finalfootnoteperpage
12060 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12061   \if@bidi@csundef\bidi@currentpagefinalfootnote@@\number\bidi@absolute@count}{%
12062   \global\@bidi@finalfootnoteperpagetrue
12063 }{%
12064   \global\@bidi@finalfootnoteperpagefalse
12065   \ifnum\bidi@absolute@count=\bidi@csuse\bidi@currentpagefinalfootnote@@\number\bidi@absolute@count
12066     #1%
12067   \else
12068     #2%
12069   \fi
12070 }%
12071 }
12072 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12073   \bidi@ifafterfinalfootnoteperpage{%
12074     \bidi@reinsertfootnote{#1}{#2}{#3}%
12075   }{%
12076   }%
12077 }
12078 \newcommand*{\bidi@step@absolute@count}{%
12079   \global\advance\bidi@absolute@count\@ne
12080 }
12081 \bidi@AfterEndDocumentCheckLabelsRerun{%
12082   \if@bidi@finalfootnoteperpage
12083     \PackageWarningNoLine{bidi}{%
12084       The absolute final footnote is not
12085       known on every page of your
12086       document. Rerun TeX to get the
12087       absolute final footnote on every page
12088       of your document%
12089     }%
12090   \fi
12091 }
12092 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12093   \extrafeetminihook}
12094 \bidi@ensure@newcommand{\extrafeetendmini}{%
12095   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12096   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12097   \extrafeetendminihook}
12098 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12099   \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12100 \def\endminipage{%
12101   \par
12102   \unskip
12103   \m@mdoextrafeetendmini
12104   \ifvoid\@mpfootins
12105     \else
12106       \vskip\skip\@mpfootins
12107       \normalcolor
12108       \footnoterule
12109       \unvbox\@mpfootins
12110   \fi
12111   \@minipagefalse

```



```

12112 \color@endgroup
12113 \egroup
12114 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12115 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12116 \@namedef{\footstart#1}{%
12117 \leftskip=\z@
12118 \rightskip=\z@
12119 \parindent=\z@
12120 }%
12121 }
12122 \newinsert\footinsv@r
12123 \skip\footinsv@r\skip\footins
12124 \count\footinsv@r=1000 % no magnification
12125 \dimen\footinsv@r=\footinsdim
12126 \m@make@footstart{v@r}
12127 \newinsert\footinsv@l
12128 \skip\footinsv@l\skip\footins
12129 \count\footinsv@l=1000 % no magnification
12130 \dimen\footinsv@l=\footinsdim
12131 \m@make@footstart{v@l}
12132 \bidi@ensure@newcommand{\@footgroupv@r}{ }
12133 \newinsert\@mpfootinsv@r
12134 \skip\@mpfootinsv@r\skip\@mpfootins
12135 \newinsert\@mpfootinsv@l
12136 \skip\@mpfootinsv@l\skip\@mpfootins
12137 \bidi@ensure@newcommand{\mp@footgroupv@r}{ }
12138 \newcount\m@m@k \newdimen\m@m@h
12139 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12140 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12141 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12142 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12143 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12144 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12145 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12146 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12147 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12148 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12149 \setbox2 \vsplit0 to \dimen0
12150 \unvbox2 }
12151 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12152 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12153 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
12154 \@bidi@before@Hy@hyperfootnotes
12155 \let\@footnotetext\@twocolfootnotetext
12156 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12157 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12158 \dimen\footinsv@r=2\footinsdim
12159 \count\footinsv@r=500\relax
12160 \m@make@twocol@footgroup{v@r}%
12161 \let\@footgroupv@r\@twocol@footgroupv@r
12162 \dimen\footinsv@l=2\footinsdim
12163 \count\footinsv@l=500\relax
12164 \bidi@make@twocol@LTRfootgroup{v@l}%
12165 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l

```



```

12166 \let\@mpfootnotetext\@mptwocolfootnotetext
12167 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12168 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12169 \@bidi@after@Hy@hyperfootnotes
12170 \m@make@mptwocol@footgroup{v@r}%
12171 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12172 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12173 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12174 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12175 }
12176 \newcommand{\TwoColumnFootnotes}{%
12177 \@namedef{foottextfontv@r}{\foottextfont}%
12178 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12179 \@bidi@before@Hy@hyperfootnotes
12180 \let\@footnotetext\@TwoColfootnotetext
12181 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12182 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12183 \dimen\footinsv@r=2\footinsdim
12184 \count\footinsv@r=500\relax
12185 \m@make@twocol@footgroup{v@r}%
12186 \let\@footgroupv@r\@twocol@footgroupv@r
12187 \dimen\footinsv@l=2\footinsdim
12188 \count\footinsv@l=500\relax
12189 \bidi@make@twocol@LTRfootgroup{v@l}%
12190 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12191 \let\@mpfootnotetext\@mpTwoColfootnotetext
12192 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12193 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12194 \@bidi@after@Hy@hyperfootnotes
12195 \m@make@mptwocol@footgroup{v@r}%
12196 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12197 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12198 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12199 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12200 }
12201 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12202 \if@RTL@footnote
12203 \footinsv@r
12204 \else
12205 \footinsv@l
12206 \fi
12207 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12208 \def\baselinestretch{\m@mm@footnote@spacing}%
12209 \reset@font\foottextfont
12210 \@preamfntext
12211 \protected@edef\@currentlabel{%
12212 \csname p@footnote\endcsname\@thefnmark}%
12213 \color@begingroup
12214 \@twocolfootfmt{#1}%
12215 \color@endgroup}%
12216 \m@mmf@prepare}
12217 \newcommand{\@TwoColfootnotetext}[1]{%
12218 \bidi@step@absolute@footnote@count
12219 \if@RTL@footnote

```



```

12220 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12221 \else
12222 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12223 \fi
12224 \global\setbox
12225 \if@RTL@footnote
12226 \footinsv@r
12227 \else
12228 \footinsv@l
12229 \fi
12230 \vbox{%
12231 \unvbox
12232 \if@RTL@footnote
12233 \footinsv@r
12234 \else
12235 \footinsv@l
12236 \fi
12237 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12238 \def\baselinestretch{\m@m@footnote@spacing}%
12239 \reset@font\foottextfont
12240 \@preamfntext
12241 \protected@edef\@currentlabel{%
12242 \csname p@footnote\endcsname\@thefnmark}%
12243 \color@begingroup
12244 \@twocolfootfmt{#1}%
12245 \color@endgroup}%
12246 \m@mmf@prepare
12247 \if@RTL@footnote
12248 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12249 \else
12250 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12251 \fi
12252 }
12253 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12254 \def\baselinestretch{\m@m@footnote@spacing}%
12255 \reset@font\LTRfoottextfont
12256 \@preamfntext
12257 \protected@edef\@currentlabel{%
12258 \csname p@footnote\endcsname\@thefnmark}%
12259 \color@begingroup
12260 \@twocolLTRfootfmt{#1}%
12261 \color@endgroup}%
12262 \m@mmf@prepare}
12263 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12264 \bidi@step@absolute@footnote@count
12265 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12266 \global\setbox\footinsv@l\vbox{%
12267 \unvbox\footinsv@l
12268 \@RTLfalse
12269 \def\baselinestretch{\m@m@footnote@spacing}%
12270 \reset@font\LTRfoottextfont
12271 \@preamfntext
12272 \protected@edef\@currentlabel{%
12273 \csname p@footnote\endcsname\@thefnmark}%

```



```

12274 \color@begingroup
12275 \@twocolLTRfootfmt{#1}%
12276 \color@endgroup}%
12277 \m@mmf@prepare
12278 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12279 }
12280 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12281 \def\baselinestretch{\m@mm@footnote@spacing}%
12282 \reset@font\RTLfoottextfont
12283 \@preamftext
12284 \protected@edef\@currentlabel{%
12285 \csname p@footnote\endcsname\@thefnmark}%
12286 \color@begingroup
12287 \@twocolRTLfootfmt{#1}%
12288 \color@endgroup}%
12289 \m@mmf@prepare}
12290 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12291 \bidi@step@absolutefootnote@count
12292 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12293 \global\setbox\footinsv@r\vbox{%
12294 \unvbox\footinsv@r
12295 \@RTLtrue
12296 \def\baselinestretch{\m@mm@footnote@spacing}%
12297 \reset@font\RTLfoottextfont
12298 \@preamftext
12299 \protected@edef\@currentlabel{%
12300 \csname p@footnote\endcsname\@thefnmark}%
12301 \color@begingroup
12302 \@twocolRTLfootfmt{#1}%
12303 \color@endgroup}%
12304 \m@mmf@prepare
12305 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12306 }
12307 \bidi@ensure@newcommand{\@preamtwofmt}{%
12308 \hspace{.45\hsize}
12309 \parindent=\z@
12310 \tolerance=5000\relax
12311 \leavevmode}
12312 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12313 \@preamtwofmt
12314 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12315 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12316 \@preamtwofmt
12317 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12318 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12319 \@preamtwofmt
12320 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12321 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12322 \global\setbox
12323 \if@RTL@footnote
12324 \@mpfootinsv@r
12325 \else
12326 \@mpfootinsv@l
12327 \fi

```



```

12328 \vbox{%
12329   \unvbox
12330   \if@RTL@footnote
12331     \@mpfootinsv@r
12332 \else
12333   \@mpfootinsv@l
12334 \fi
12335   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12336   \def\baselinestretch{\m@m@footnote@spacing}%
12337   \reset@font\foottextfont
12338   \hsize\columnwidth \@parboxrestore
12339   \protected@edef\@currentlabel{%
12340     \csname p@mpfootnote\endcsname\@thefnmark}%
12341   \color@begingroup
12342     \@twocolfootfmt{#1}%
12343   \color@endgroup}%
12344   \m@m@mmf@prepare}
12345 \newcommand{\@mpTwoColfootnotetext}[1]{%
12346   \if@RTL@footnote
12347     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12348   \else
12349     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12350   \fi
12351   \global\setbox
12352     \if@RTL@footnote
12353       \@mpfootinsv@r
12354   \else
12355     \@mpfootinsv@l
12356   \fi
12357   \vbox{%
12358     \unvbox
12359     \if@RTL@footnote
12360       \@mpfootinsv@r
12361   \else
12362     \@mpfootinsv@l
12363   \fi
12364   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12365   \def\baselinestretch{\m@m@footnote@spacing}%
12366   \reset@font\foottextfont
12367   \hsize\columnwidth \@parboxrestore
12368   \protected@edef\@currentlabel{%
12369     \csname p@mpfootnote\endcsname\@thefnmark}%
12370   \color@begingroup
12371     \@twocolfootfmt{#1}%
12372   \color@endgroup}%
12373   \m@m@mmf@prepare}
12374 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12375   \global\setbox\@mpfootinsv@l\vbox{%
12376     \unvbox\@mpfootinsv@l
12377     \@RTLfalse
12378     \def\baselinestretch{\m@m@footnote@spacing}%
12379     \reset@font\LTRfoottextfont
12380     \hsize\columnwidth \@parboxrestore
12381     \protected@edef\@currentlabel{%

```



```

12382 \csname p@mpfootnote\endcsname\@thefnmark}%
12383 \color@begingroup
12384 \@twocolLTRfootfmt{#1}%
12385 \color@endgroup}%
12386 \m@mmf@prepare}
12387 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12388 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12389 \global\setbox\@mpfootinsv@l\vbox{%
12390 \unvbox\@mpfootinsv@l
12391 \@RTLfalse
12392 \def\baselinestretch{\m@m@footnote@spacing}%
12393 \reset@font\LTRfoottextfont
12394 \hsize\columnwidth \@parboxrestore
12395 \protected@edef\@currentlabel{%
12396 \csname p@mpfootnote\endcsname\@thefnmark}%
12397 \color@begingroup
12398 \@twocolLTRfootfmt{#1}%
12399 \color@endgroup}%
12400 \m@mmf@prepare}
12401 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12402 \global\setbox\@mpfootinsv@r\vbox{%
12403 \unvbox\@mpfootinsv@r
12404 \@RTLtrue
12405 \def\baselinestretch{\m@m@footnote@spacing}%
12406 \reset@font\RTLfoottextfont
12407 \hsize\columnwidth \@parboxrestore
12408 \protected@edef\@currentlabel{%
12409 \csname p@mpfootnote\endcsname\@thefnmark}%
12410 \color@begingroup
12411 \@twocolRTLfootfmt{#1}%
12412 \color@endgroup}%
12413 \m@mmf@prepare}
12414 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12415 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12416 \global\setbox\@mpfootinsv@r\vbox{%
12417 \unvbox\@mpfootinsv@r
12418 \@RTLtrue
12419 \def\baselinestretch{\m@m@footnote@spacing}%
12420 \reset@font\RTLfoottextfont
12421 \hsize\columnwidth \@parboxrestore
12422 \protected@edef\@currentlabel{%
12423 \csname p@mpfootnote\endcsname\@thefnmark}%
12424 \color@begingroup
12425 \@twocolRTLfootfmt{#1}%
12426 \color@endgroup}%
12427 \m@mmf@prepare}
12428 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12429 \@namedef{@twocol@footgroup#1}{%
12430 \def\baselinestretch{\m@m@footnote@spacing}%
12431 \hsize\bidi@columnwidth
12432 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12433 \m@r@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12434 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12435 \@namedef{@twocol@LTRfootgroup#1}{%

```




```

12436 \def\baselinestretch{\m@m@footnote@spacing}%
12437 \hsize\bidicolumnwidth
12438 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12439 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12440 \bidi@ensure@newcommand{\m@make@mp@twocol@footgroup}[1]{%
12441 \@namedef{\m@make@mp@twocol@footgroup#1}{%
12442 \def\baselinestretch{\m@m@footnote@spacing}%
12443 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12444 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12445 \newcommand{\bidi@make@mp@twocol@LTRfootgroup}[1]{%
12446 \@namedef{\m@make@mp@twocol@LTRfootgroup#1}{%
12447 \def\baselinestretch{\m@m@footnote@spacing}%
12448 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12449 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12450 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12451 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12452 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12453 \@bidi@before@Hy@hyperfootnotes
12454 \let\@footnotetext\@threecolfootnotetext
12455 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12456 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12457 \dimen\footinsv@r=3\footinsdim
12458 \count\footinsv@r=333\relax
12459 \m@make@threecol@footgroup{v@r}%
12460 \let\@footgroupv@r\@threecol@footgroupv@r
12461 \dimen\footinsv@l=3\footinsdim
12462 \count\footinsv@l=333\relax
12463 \bidi@make@threecol@LTRfootgroup{v@l}%
12464 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12465 \let\@mpfootnotetext\@mpthreecolfootnotetext
12466 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12467 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12468 \@bidi@after@Hy@hyperfootnotes
12469 \m@make@mpthreecol@footgroup{v@r}%
12470 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12471 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12472 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12473 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12474 }
12475 \newcommand{\ThreeColumnFootnotes}{%
12476 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12477 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12478 \@bidi@before@Hy@hyperfootnotes
12479 \let\@footnotetext\@ThreeColfootnotetext
12480 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12481 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12482 \dimen\footinsv@r=3\footinsdim
12483 \count\footinsv@r=333\relax
12484 \m@make@threecol@footgroup{v@r}%
12485 \let\@footgroupv@r\@threecol@footgroupv@r
12486 \dimen\footinsv@l=3\footinsdim
12487 \count\footinsv@l=333\relax
12488 \bidi@make@threecol@LTRfootgroup{v@l}%
12489 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l

```



```

12490 \let\@mpfootnotetext\@mpThreeColfootnotetext
12491 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12492 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12493 \@bidi@after@Hy@hyperfootnotes
12494 \m@make@mpthreecol@footgroup{v@r}%
12495 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12496 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12497 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12498 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12499 }
12500 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12501   \ifRTL@footnote
12502     \footinsv@r
12503   \else
12504     \footinsv@l
12505   \fi
12506 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12507   \def\baselinestretch{\m@footnote@spacing}%
12508   \reset@font\foottextfont
12509   \@preamfntext
12510   \protected@edef\@currentlabel{%
12511     \csname p@footnote\endcsname\@thefnmark}%
12512   \color@begingroup
12513     \@threecolfootfmt{#1}%
12514   \color@endgroup}\m@mmf@prepare}
12515 \newcommand{\@ThreeColfootnotetext}[1]{%
12516   \bidi@step@absolute@footnote@count
12517   \ifRTL@footnote
12518     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12519   \else
12520     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12521   \fi
12522   \global\setbox
12523   \ifRTL@footnote
12524     \footinsv@r
12525   \else
12526     \footinsv@l
12527   \fi
12528 \vbox{%
12529   \unvbox
12530   \ifRTL@footnote
12531     \footinsv@r
12532   \else
12533     \footinsv@l
12534   \fi
12535   \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12536   \def\baselinestretch{\m@footnote@spacing}%
12537   \reset@font\foottextfont
12538   \@preamfntext
12539   \protected@edef\@currentlabel{%
12540     \csname p@footnote\endcsname\@thefnmark}%
12541   \color@begingroup
12542     \@threecolfootfmt{#1}%
12543   \color@endgroup}\m@mmf@prepare

```



```

12544 \if@RTL@footnote
12545   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12546 \else
12547   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12548 \fi
12549 }
12550 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12551 \def\baselinestretch{\m@m@footnote@spacing}%
12552 \reset@font\LTRfoottextfont
12553 \@preamfntext
12554 \protected@edef\@currentlabel{%
12555   \csname p@footnote\endcsname\@thefnmark}%
12556 \color@begingroup
12557   \@threecolLTRfootfmt{#1}%
12558 \color@endgroup}\m@mmf@prepare}
12559 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12560 \bidi@step@absolutefootnote@count
12561 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12562 \global\setbox\footinsv@l\vbox{%
12563 \unvbox\footinsv@l
12564 \@RTLfalse
12565 \def\baselinestretch{\m@m@footnote@spacing}%
12566 \reset@font\LTRfoottextfont
12567 \@preamfntext
12568 \protected@edef\@currentlabel{%
12569   \csname p@footnote\endcsname\@thefnmark}%
12570 \color@begingroup
12571   \@threecolLTRfootfmt{#1}%
12572 \color@endgroup}\m@mmf@prepare
12573 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12574 }
12575 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12576 \def\baselinestretch{\m@m@footnote@spacing}%
12577 \reset@font\RTLfoottextfont
12578 \@preamfntext
12579 \protected@edef\@currentlabel{%
12580   \csname p@footnote\endcsname\@thefnmark}%
12581 \color@begingroup
12582   \@threecolRTLfootfmt{#1}%
12583 \color@endgroup}\m@mmf@prepare}
12584 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12585 \bidi@step@absolutefootnote@count
12586 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12587 \global\setbox\footinsv@r\vbox{%
12588 \unvbox\footinsv@r
12589 \@RTLtrue
12590 \def\baselinestretch{\m@m@footnote@spacing}%
12591 \reset@font\RTLfoottextfont
12592 \@preamfntext
12593 \protected@edef\@currentlabel{%
12594   \csname p@footnote\endcsname\@thefnmark}%
12595 \color@begingroup
12596   \@threecolRTLfootfmt{#1}%
12597 \color@endgroup}\m@mmf@prepare

```



```

12598 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12599 }
12600 \bidi@ensure@newcommand{\@preamthreefmt}{%
12601   \hsize .3\hsize
12602   \parindent=\z@
12603   \tolerance=5000\relax
12604   \leavevmode}
12605 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12606   \@preamthreefmt
12607   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12608 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12609   \@preamthreefmt
12610   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12611 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12612   \@preamthreefmt
12613   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12614 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12615   \global\setbox
12616     \if@RTL@footnote
12617     \@mpfootinsv@r
12618   \else
12619     \@mpfootinsv@l
12620   \fi
12621   \vbox{%
12622     \unvbox
12623     \if@RTL@footnote
12624     \@mpfootinsv@r
12625   \else
12626     \@mpfootinsv@l
12627   \fi
12628   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12629   \def\baselinestretch{\m@m@footnote@spacing}%
12630   \reset@font\foottextfont
12631   \hsize\columnwidth \@parboxrestore
12632   \protected@edef\@currentlabel{%
12633     \csname p@mpfootnote\endcsname\@thefnmark}%
12634   \color@begingroup
12635     \@threecolfootfmt{#1}%
12636   \color@endgroup}\m@mmf@prepare}
12637 \newcommand{\@mpThreeColfootnotetext}[1]{%
12638   \if@RTL@footnote
12639     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12640   \else
12641     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12642   \fi
12643   \global\setbox
12644     \if@RTL@footnote
12645     \@mpfootinsv@r
12646   \else
12647     \@mpfootinsv@l
12648   \fi
12649   \vbox{%
12650     \unvbox
12651     \if@RTL@footnote

```



```

12652 \mpfootinsv@r
12653 \else
12654 \mpfootinsv@l
12655 \fi
12656 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12657 \def\baselinestretch{\m@m@footnote@spacing}%
12658 \reset@font\foottextfont
12659 \hsize\columnwidth \@parboxrestore
12660 \protected@edef\@currentlabel{%
12661 \csname p@mpfootnote\endcsname\@thefnmark}%
12662 \color@begingroup
12663 \@threecolfootfmt{#1}%
12664 \color@endgroup}\m@mmf@prepare}
12665 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12666 \global\setbox\@mpfootinsv@l\vbox{%
12667 \unvbox\@mpfootinsv@l
12668 \@RTLfalse
12669 \def\baselinestretch{\m@m@footnote@spacing}%
12670 \reset@font\LTRfoottextfont
12671 \hsize\columnwidth \@parboxrestore
12672 \protected@edef\@currentlabel{%
12673 \csname p@mpfootnote\endcsname\@thefnmark}%
12674 \color@begingroup
12675 \@threecolLTRfootfmt{#1}%
12676 \color@endgroup}\m@mmf@prepare}
12677 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12678 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12679 \global\setbox\@mpfootinsv@l\vbox{%
12680 \unvbox\@mpfootinsv@l
12681 \@RTLfalse
12682 \def\baselinestretch{\m@m@footnote@spacing}%
12683 \reset@font\LTRfoottextfont
12684 \hsize\columnwidth \@parboxrestore
12685 \protected@edef\@currentlabel{%
12686 \csname p@mpfootnote\endcsname\@thefnmark}%
12687 \color@begingroup
12688 \@threecolLTRfootfmt{#1}%
12689 \color@endgroup}\m@mmf@prepare}
12690 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12691 \global\setbox\@mpfootinsv@r\vbox{%
12692 \unvbox\@mpfootinsv@r
12693 \@RTLtrue
12694 \def\baselinestretch{\m@m@footnote@spacing}%
12695 \reset@font\RTLfoottextfont
12696 \hsize\columnwidth \@parboxrestore
12697 \protected@edef\@currentlabel{%
12698 \csname p@mpfootnote\endcsname\@thefnmark}%
12699 \color@begingroup
12700 \@threecolRTLfootfmt{#1}%
12701 \color@endgroup}\m@mmf@prepare}
12702 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12703 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12704 \global\setbox\@mpfootinsv@r\vbox{%
12705 \unvbox\@mpfootinsv@r

```



```

12706 \RTLtrue
12707 \def\baselinestretch{\m@m@footnote@spacing}%
12708 \reset@font\RTLfoottextfont
12709 \hsize\columnwidth \@parboxrestore
12710 \protected@edef\@currentlabel{%
12711 \csname p@mpfootnote\endcsname\@thefnmark}%
12712 \color@begingroup
12713 \@threecolRTLfootfmt{#1}%
12714 \color@endgroup}\m@mmf@prepare}
12715 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12716 \@namedef{@threecol@footgroup#1}{%
12717 \def\baselinestretch{\m@m@footnote@spacing}%
12718 \hsize\bidi@columnwidth
12719 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12720 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12721 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12722 \@namedef{@threecol@LTRfootgroup#1}{%
12723 \def\baselinestretch{\m@m@footnote@spacing}%
12724 \hsize\bidi@columnwidth
12725 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12726 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12727 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12728 \@namedef{@mpthreecol@footgroup#1}{%
12729 \def\baselinestretch{\m@m@footnote@spacing}%
12730 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12731 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12732 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12733 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12734 \def\baselinestretch{\m@m@footnote@spacing}%
12735 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12736 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12737 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12738 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12739 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12740 \@bidi@before@Hy@hyperfootnotes
12741 \let\@footnotetext\@fourcolfootnotetext
12742 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12743 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12744 \dimen\footinsv@r=4\footinsdim
12745 \count\footinsv@r=250\relax
12746 \m@make@fourcol@footgroup{v@r}%
12747 \let\@footgroupv@r\@fourcol@footgroupv@r
12748 \dimen\footinsv@l=4\footinsdim
12749 \count\footinsv@l=250\relax
12750 \bidi@make@fourcol@LTRfootgroup{v@l}%
12751 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12752 \let\@mpfootnotetext\@mpfourcolfootnotetext
12753 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12754 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12755 \@bidi@after@Hy@hyperfootnotes
12756 \m@make@mpfourcol@footgroup{v@r}%
12757 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12758 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12759 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l

```



```

12760 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12761 }
12762 \newcommand{\FourColumnFootnotes}{%
12763   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12764   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12765   \@bidi@before@Hy@hyperfootnotes
12766   \let\@footnotetext\@FourColfootnotetext
12767   \let\@LTRfootnotetext\@FourColLTRfootnotetext
12768   \let\@RTLfootnotetext\@FourColRTLfootnotetext
12769   \dimen\footinsv@r=4\footinsdim
12770   \count\footinsv@r=250\relax
12771   \m@make@fourcol@footgroup{v@r}%
12772   \let\@footgroupv@r\@fourcol@footgroupv@r
12773   \dimen\footinsv@l=4\footinsdim
12774   \count\footinsv@l=250\relax
12775   \bidi@make@fourcol@LTRfootgroup{v@l}%
12776   \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12777   \let\@mpfootnotetext\@mpFourColfootnotetext
12778   \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12779   \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12780   \@bidi@after@Hy@hyperfootnotes
12781   \m@make@mpfourcol@footgroup{v@r}%
12782   \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12783   \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12784   \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12785   \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12786 }
12787 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12788   \if@RTL@footnote
12789     \footinsv@r
12790   \else
12791     \footinsv@l
12792   \fi
12793 { \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12794   \def\baselinestretch{\m@footnote@spacing}%
12795   \reset@font\foottextfont
12796   \@preamfntext
12797   \protected@edef\@currentlabel{%
12798     \csname p@footnote\endcsname\@thefnmark}%
12799   \color@begingroup
12800     \@fourcolfootfmt{#1}%
12801   \color@endgroup}%
12802   \m@mmf@prepare}
12803 \newcommand{\@FourColfootnotetext}[1]{%
12804   \bidi@step@absolute@footnote@count
12805   \if@RTL@footnote
12806     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12807   \else
12808     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12809   \fi
12810   \global\setbox
12811   \if@RTL@footnote
12812     \footinsv@r
12813   \else

```



```

12814 \footinsv@l
12815 \fi
12816 \vbox{%
12817 \unvbox
12818 \if@RTL@footnote
12819 \footinsv@r
12820 \else
12821 \footinsv@l
12822 \fi
12823 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12824 \def\baselinestretch{\m@m@footnote@spacing}%
12825 \reset@font\foottextfont
12826 \@preamfntext
12827 \protected@edef\@currentlabel{%
12828 \csname p@footnote\endcsname\@thefnmark}%
12829 \color@begingroup
12830 \@fourcolfootfmt{#1}%
12831 \color@endgroup}%
12832 \m@m@mmf@prepare
12833 \if@RTL@footnote
12834 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12835 \else
12836 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12837 \fi
12838 }
12839 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12840 \def\baselinestretch{\m@m@footnote@spacing}%
12841 \reset@font\LTRfoottextfont
12842 \@preamfntext
12843 \protected@edef\@currentlabel{%
12844 \csname p@footnote\endcsname\@thefnmark}%
12845 \color@begingroup
12846 \@fourcolLTRfootfmt{#1}%
12847 \color@endgroup}%
12848 \m@m@mmf@prepare}
12849 \newcommand{\@FourColLTRfootnotetext}[1]{%
12850 \bidi@step@absolutefootnote@count
12851 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12852 \global\setbox\footinsv@l\vbox{%
12853 \unvbox\footinsv@l
12854 \@RTLfalse%
12855 \def\baselinestretch{\m@m@footnote@spacing}%
12856 \reset@font\LTRfoottextfont
12857 \@preamfntext
12858 \protected@edef\@currentlabel{%
12859 \csname p@footnote\endcsname\@thefnmark}%
12860 \color@begingroup
12861 \@fourcolLTRfootfmt{#1}%
12862 \color@endgroup}%
12863 \m@m@mmf@prepare
12864 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12865 }
12866 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12867 \def\baselinestretch{\m@m@footnote@spacing}%

```




```

12868 \reset@font\RTLfoottextfont
12869 \@preamfntext
12870 \protected@edef\@currentlabel{%
12871   \csname p@footnote\endcsname\@thefnmark}%
12872 \color@begingroup
12873   \@fourcolRTLfootfmt{#1}%
12874 \color@endgroup}%
12875 \m@mmf@prepare}
12876 \newcommand{\@FourColRTLfootnotetext}[1]{%
12877   \bidi@step@absolutefootnote@count
12878   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12879   \global\setbox\footinsv@r\vbox{%
12880     \unvbox\footinsv@r
12881     \@RTLtrue
12882     \def\baselinestretch{\m@m@footnote@spacing}%
12883     \reset@font\RTLfoottextfont
12884     \@preamfntext
12885     \protected@edef\@currentlabel{%
12886       \csname p@footnote\endcsname\@thefnmark}%
12887     \color@begingroup
12888       \@fourcolRTLfootfmt{#1}%
12889     \color@endgroup}%
12890     \m@mmf@prepare
12891     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12892 }
12893 \bidi@ensure@newcommand{\@preamfourfmt}{%
12894   \hspace{.25\hspace}
12895   \parindent=\z@
12896   \tolerance=5000\relax
12897   \leavevmode}
12898 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12899   \@preamfourfmt
12900   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12901 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12902   \@preamfourfmt
12903   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12904 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12905   \@preamfourfmt
12906   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12907 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12908   \global\setbox
12909     \if@RTL@footnote
12910     \@mpfootinsv@r
12911   \else
12912     \@mpfootinsv@l
12913   \fi
12914   \vbox{%
12915     \unvbox
12916     \if@RTL@footnote
12917     \@mpfootinsv@r
12918   \else
12919     \@mpfootinsv@l
12920   \fi
12921   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12922 \def\baselinestretch{\m@m@footnote@spacing}%
12923 \reset@font\foottextfont
12924 \hsize\columnwidth \@parboxrestore
12925 \protected@edef\@currentlabel{%
12926 \csname p@mpfootnote\endcsname\@thefnmark}%
12927 \color@begingroup
12928 \@fourcolfootfmt{#1}%
12929 \color@endgroup}%
12930 \m@mmf@prepare}
12931 \newcommand{\@mpFourColfootnotetext}[1]{%
12932 \if@RTL@footnote
12933 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12934 \else
12935 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12936 \fi
12937 \global\setbox
12938 \if@RTL@footnote
12939 \@mpfootinsv@r
12940 \else
12941 \@mpfootinsv@l
12942 \fi
12943 \vbox{%
12944 \unvbox
12945 \if@RTL@footnote
12946 \@mpfootinsv@r
12947 \else
12948 \@mpfootinsv@l
12949 \fi
12950 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12951 \def\baselinestretch{\m@m@footnote@spacing}%
12952 \reset@font\foottextfont
12953 \hsize\columnwidth \@parboxrestore
12954 \protected@edef\@currentlabel{%
12955 \csname p@mpfootnote\endcsname\@thefnmark}%
12956 \color@begingroup
12957 \@fourcolfootfmt{#1}%
12958 \color@endgroup}%
12959 \m@mmf@prepare}
12960 \bidi@ensure@newcommand{\@mpfourcollTRfootnotetext}[1]{%
12961 \global\setbox\@mpfootinsv@l\vbox{%
12962 \unvbox\@mpfootinsv@l
12963 \@RTLfalse
12964 \def\baselinestretch{\m@m@footnote@spacing}%
12965 \reset@font\LTRfoottextfont
12966 \hsize\columnwidth \@parboxrestore
12967 \protected@edef\@currentlabel{%
12968 \csname p@mpfootnote\endcsname\@thefnmark}%
12969 \color@begingroup
12970 \@fourcollTRfootfmt{#1}%
12971 \color@endgroup}%
12972 \m@mmf@prepare}
12973 \newcommand{\@mpFourCollTRfootnotetext}[1]{%
12974 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12975 \global\setbox\@mpfootinsv@l\vbox{%

```



```

12976 \unvbox\@mpfootinsv@l
12977 \@RTLfalse
12978 \def\baselinestretch{\m@m@footnote@spacing}%
12979 \reset@font\LTRfoottextfont
12980 \hsize\columnwidth \@parboxrestore
12981 \protected@edef\@currentlabel{%
12982 \csname p@mpfootnote\endcsname\@thefnmark}%
12983 \color@begingroup
12984 \@fourcolLTRfootfmt{#1}%
12985 \color@endgroup}%
12986 \m@mmf@prepare}
12987 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12988 \global\setbox\@mpfootinsv@r\vbox{%
12989 \unvbox\@mpfootinsv@r
12990 \@RTLtrue
12991 \def\baselinestretch{\m@m@footnote@spacing}%
12992 \reset@font\RTLfoottextfont
12993 \hsize\columnwidth \@parboxrestore
12994 \protected@edef\@currentlabel{%
12995 \csname p@mpfootnote\endcsname\@thefnmark}%
12996 \color@begingroup
12997 \@fourcolRTLfootfmt{#1}%
12998 \color@endgroup}%
12999 \m@mmf@prepare}
13000 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
13001 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13002 \global\setbox\@mpfootinsv@r\vbox{%
13003 \unvbox\@mpfootinsv@r
13004 \@RTLtrue
13005 \def\baselinestretch{\m@m@footnote@spacing}%
13006 \reset@font\RTLfoottextfont
13007 \hsize\columnwidth \@parboxrestore
13008 \protected@edef\@currentlabel{%
13009 \csname p@mpfootnote\endcsname\@thefnmark}%
13010 \color@begingroup
13011 \@fourcolRTLfootfmt{#1}%
13012 \color@endgroup}%
13013 \m@mmf@prepare}
13014 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13015 \@namedef{\@fourcol@footgroup#1}{%
13016 \def\baselinestretch{\m@m@footnote@spacing}%
13017 \hsize\bidi@columnwidth
13018 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13019 \m@mrigidbodybalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
13020 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13021 \@namedef{\@fourcol@LTRfootgroup#1}{%
13022 \def\baselinestretch{\m@m@footnote@spacing}%
13023 \hsize\bidi@columnwidth
13024 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13025 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
13026 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13027 \@namedef{\@mpfourcol@footgroup#1}{%
13028 \def\baselinestretch{\m@m@footnote@spacing}%
13029 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

13030 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{4}{\splittopskip}}
13031 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13032 \@namedef{\mpfourcol@LTRfootgroup#1}{%
13033 \def\baselinestretch{\m@mf@footnote@spacing}%
13034 \@nameuse{\foottextfont#1} \splittopskip=\ht\strutbox
13035 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{4}{\splittopskip}}}
13036 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13037 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13038 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
13039 \@bidi@before@Hy@hyperfootnotes
13040 \let\@footnotetext\@fivecolfootnotetext
13041 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13042 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13043 \dimen\footinsv@r=5\footinsdim
13044 \count\footinsv@r=200\relax
13045 \m@make@fivecol@footgroup{v@r}%
13046 \let\@footgroupv@r\@fivecol@footgroupv@r
13047 \dimen\footinsv@l=5\footinsdim
13048 \count\footinsv@l=200\relax
13049 \bidi@make@fivecol@LTRfootgroup{v@l}%
13050 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13051 \let\@mpfootnotetext\@mpfivecolfootnotetext
13052 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13053 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13054 \@bidi@after@Hy@hyperfootnotes
13055 \m@make@mpfivecol@footgroup{v@r}%
13056 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13057 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13058 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13059 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13060 }
13061 \newcommand{\FiveColumnFootnotes}{%
13062 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13063 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
13064 \@bidi@before@Hy@hyperfootnotes
13065 \let\@footnotetext\@FiveColfootnotetext
13066 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13067 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13068 \dimen\footinsv@r=5\footinsdim
13069 \count\footinsv@r=200\relax
13070 \m@make@fivecol@footgroup{v@r}%
13071 \let\@footgroupv@r\@fivecol@footgroupv@r
13072 \dimen\footinsv@l=5\footinsdim
13073 \count\footinsv@l=200\relax
13074 \bidi@make@fivecol@LTRfootgroup{v@l}%
13075 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13076 \let\@mpfootnotetext\@mpFiveColfootnotetext
13077 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13078 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13079 \@bidi@after@Hy@hyperfootnotes
13080 \m@make@mpfivecol@footgroup{v@r}%
13081 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13082 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13083 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l

```



```

13084 \@ifstar\bidistar@footmarkwidth\bidinormal@footmarkwidth
13085 }
13086 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13087 \if@RTL@footnote
13088 \footinsv@r
13089 \else
13090 \footinsv@l
13091 \fi
13092 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13093 \def\baselinestretch{\m@m@footnote@spacing}%
13094 \reset@font\foottextfont
13095 \@preamfntext
13096 \protected@edef\@currentlabel{%
13097 \csname p@footnote\endcsname\@thefnmark}%
13098 \color@begingroup
13099 \@fivecolfootfmt{#1}%
13100 \color@endgroup}%
13101 \m@m@mmf@prepare}
13102 \newcommand{\@FiveColfootnotetext}[1]{%
13103 \bidi@step@absolute@footnote@count
13104 \if@RTL@footnote
13105 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13106 \else
13107 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13108 \fi
13109 \global\setbox
13110 \if@RTL@footnote
13111 \footinsv@r
13112 \else
13113 \footinsv@l
13114 \fi
13115 \vbox{%
13116 \unvbox
13117 \if@RTL@footnote
13118 \footinsv@r
13119 \else
13120 \footinsv@l
13121 \fi
13122 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13123 \def\baselinestretch{\m@m@footnote@spacing}%
13124 \reset@font\foottextfont
13125 \@preamfntext
13126 \protected@edef\@currentlabel{%
13127 \csname p@footnote\endcsname\@thefnmark}%
13128 \color@begingroup
13129 \@fivecolfootfmt{#1}%
13130 \color@endgroup}%
13131 \m@m@mmf@prepare
13132 \if@RTL@footnote
13133 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13134 \else
13135 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13136 \fi
13137 }

```



```

13138 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\LTRfoottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143 \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145 \@fivecolLTRfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@m@mmf@prepare}
13148 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13149 \bidi@step@absolutefootnote@count
13150 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13151 \global\setbox\footinsv@l\vbox{%
13152 \unvbox\footinsv@l
13153 \@RTLfalse
13154 \def\baselinestretch{\m@m@footnote@spacing}%
13155 \reset@font\LTRfoottextfont
13156 \@preamfntext
13157 \protected@edef\@currentlabel{%
13158 \csname p@footnote\endcsname\@thefnmark}%
13159 \color@begingroup
13160 \@fivecolLTRfootfmt{#1}%
13161 \color@endgroup}%
13162 \m@m@mmf@prepare
13163 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13164 }
13165 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13166 \def\baselinestretch{\m@m@footnote@spacing}%
13167 \reset@font\RTLfoottextfont
13168 \@preamfntext
13169 \protected@edef\@currentlabel{%
13170 \csname p@footnote\endcsname\@thefnmark}%
13171 \color@begingroup
13172 \@fivecolRTLfootfmt{#1}%
13173 \color@endgroup}%
13174 \m@m@mmf@prepare}
13175 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13176 \bidi@step@absolutefootnote@count
13177 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13178 \global\setbox\footinsv@r\vbox{%
13179 \unvbox\footinsv@r
13180 \@RTLtrue
13181 \def\baselinestretch{\m@m@footnote@spacing}%
13182 \reset@font\RTLfoottextfont
13183 \@preamfntext
13184 \protected@edef\@currentlabel{%
13185 \csname p@footnote\endcsname\@thefnmark}%
13186 \color@begingroup
13187 \@fivecolRTLfootfmt{#1}%
13188 \color@endgroup}%
13189 \m@m@mmf@prepare
13190 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13191 }

```



```

13192 \bidi@ensure@newcommand{\@preamfivefmt}{%
13193   \hsize .2\hsize
13194   \parindent=\z@
13195   \tolerance=5000\relax
13196   \leavevmode}
13197 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13198   \@preamfivefmt
13199   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13200 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13201   \@preamfivefmt
13202   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13203 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13204   \@preamfivefmt
13205   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13206 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13207   \global\setbox
13208     \if@RTL@footnote
13209     \@mpfootinsv@r
13210   \else
13211     \@mpfootinsv@l
13212   \fi
13213   \vbox{%
13214     \unvbox
13215     \if@RTL@footnote
13216     \@mpfootinsv@r
13217   \else
13218     \@mpfootinsv@l
13219   \fi
13220   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13221   \def\baselinestretch{\m@m@footnote@spacing}%
13222   \reset@font\foottextfont
13223   \hsize\columnwidth \@parboxrestore
13224   \protected@edef\@currentlabel{%
13225     \csname p@mpfootnote\endcsname\@thefnmark}%
13226   \color@begingroup
13227     \@fivecolfootfmt{#1}%
13228   \color@endgroup}%
13229   \m@mmf@prepare}
13230 \newcommand{\@mpFiveColfootnotetext}[1]{%
13231   \if@RTL@footnote
13232     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13233   \else
13234     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13235   \fi
13236   \global\setbox
13237     \if@RTL@footnote
13238     \@mpfootinsv@r
13239   \else
13240     \@mpfootinsv@l
13241   \fi
13242   \vbox{%
13243     \unvbox
13244     \if@RTL@footnote
13245     \@mpfootinsv@r

```



```

13246 \else
13247 \mpfootinsv@l
13248 \fi
13249 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13250 \def\baselinestretch{\m@m@footnote@spacing}%
13251 \reset@font\foottextfont
13252 \hsize\columnwidth \@parboxrestore
13253 \protected@edef\@currentlabel{%
13254 \csname p@mpfootnote\endcsname\@thefnmark}%
13255 \color@begingroup
13256 \@fivecolfootfmt{#1}%
13257 \color@endgroup}%
13258 \m@m@mmf@prepare}
13259 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13260 \global\setbox\@mpfootinsv@l\vbox{%
13261 \unvbox\@mpfootinsv@l
13262 \@RTLfalse
13263 \def\baselinestretch{\m@m@footnote@spacing}%
13264 \reset@font\LTRfoottextfont
13265 \hsize\columnwidth \@parboxrestore
13266 \protected@edef\@currentlabel{%
13267 \csname p@mpfootnote\endcsname\@thefnmark}%
13268 \color@begingroup
13269 \@fivecolLTRfootfmt{#1}%
13270 \color@endgroup}%
13271 \m@m@mmf@prepare}
13272 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13273 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13274 \global\setbox\@mpfootinsv@l\vbox{%
13275 \unvbox\@mpfootinsv@l
13276 \@RTLfalse
13277 \def\baselinestretch{\m@m@footnote@spacing}%
13278 \reset@font\LTRfoottextfont
13279 \hsize\columnwidth \@parboxrestore
13280 \protected@edef\@currentlabel{%
13281 \csname p@mpfootnote\endcsname\@thefnmark}%
13282 \color@begingroup
13283 \@fivecolLTRfootfmt{#1}%
13284 \color@endgroup}%
13285 \m@m@mmf@prepare}
13286 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13287 \global\setbox\@mpfootinsv@r\vbox{%
13288 \unvbox\@mpfootinsv@r
13289 \@RTLtrue
13290 \def\baselinestretch{\m@m@footnote@spacing}%
13291 \reset@font\RTLfoottextfont
13292 \hsize\columnwidth \@parboxrestore
13293 \protected@edef\@currentlabel{%
13294 \csname p@mpfootnote\endcsname\@thefnmark}%
13295 \color@begingroup
13296 \@fivecolRTLfootfmt{#1}%
13297 \color@endgroup}%
13298 \m@m@mmf@prepare}
13299 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%

```




```

13300 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13301 \global\setbox\@mpfootinsv@r\vbox{%
13302   \unvbox\@mpfootinsv@r
13303   \@RTLtrue
13304   \def\baselinestretch{\m@m@footnote@spacing}%
13305   \reset@font\RTLfoottextfont
13306   \hsize\columnwidth \@parboxrestore
13307   \protected@edef\@currentlabel{%
13308     \csname p@mpfootnote\endcsname\@thefnmark}%
13309   \color@begingroup
13310     \@fivecolRTLfootfmt{#1}%
13311   \color@endgroup}%
13312   \m@m@f@prepare}
13313 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13314   \@namedef{\@fivecol@footgroup#1}{%
13315     \def\baselinestretch{\m@m@footnote@spacing}%
13316     \hsize\bidi@columnwidth
13317     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13318     \m@m@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13319 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13320   \@namedef{\@fivecol@LTRfootgroup#1}{%
13321     \def\baselinestretch{\m@m@footnote@spacing}%
13322     \hsize\bidi@columnwidth
13323     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13324     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13325 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13326   \@namedef{\@mpfivecol@footgroup#1}{%
13327     \def\baselinestretch{\m@m@footnote@spacing}%
13328     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13329     \m@m@rigidbalance{\@nameuse{\@mpfootins#1}}{5}{\splittopskip}}}%
13330 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13331   \@namedef{\@mpfivecol@LTRfootgroup#1}{%
13332     \def\baselinestretch{\m@m@footnote@spacing}%
13333     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13334     \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{5}{\splittopskip}}}%
13335 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13336   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13337   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13338   \@bidi@before@Hy@hyperfootnotes
13339   \let\@footnotetext\@sixcolfootnotetext
13340   \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13341   \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13342   \dimen\footinsv@r=6\footinsdim
13343   \count\footinsv@r=166\relax
13344   \m@make@sixcol@footgroup{v@r}%
13345   \let\@footgroupv@r\@sixcol@footgroupv@r
13346   \dimen\footinsv@l=6\footinsdim
13347   \count\footinsv@l=166\relax
13348   \bidi@make@sixcol@LTRfootgroup{v@l}%
13349   \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13350   \let\@mpfootnotetext\@mpsixcolfootnotetext
13351   \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
13352   \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
13353   \@bidi@after@Hy@hyperfootnotes

```



```

13354 \m@make@mpsixel@footgroup{v@r}%
13355 \let\mp@footgroupv@r\@mpsixel@footgroupv@r
13356 \bidi@make@mpsixel@LTRfootgroup{v@l}%
13357 \let\mp@LTRfootgroupv@l\@mpsixel@LTRfootgroupv@l
13358 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13359 }
13360 \newcommand{\SixColumnFootnotes}{%
13361 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13362 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13363 \@bidi@before@Hy@hyperfootnotes
13364 \let\@footnotetext\@SixColfootnotetext
13365 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13366 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13367 \dimen\footinsv@r=6\footinsdim
13368 \count\footinsv@r=166\relax
13369 \m@make@sixel@footgroup{v@r}%
13370 \let\@footgroupv@r\@sixel@footgroupv@r
13371 \dimen\footinsv@l=6\footinsdim
13372 \count\footinsv@l=166\relax
13373 \bidi@make@sixel@LTRfootgroup{v@l}%
13374 \let\@LTRfootgroupv@l\@sixel@LTRfootgroupv@l
13375 \let\@mpfootnotetext\@mpSixColfootnotetext
13376 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13377 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13378 \@bidi@after@Hy@hyperfootnotes
13379 \m@make@mpsixel@footgroup{v@r}%
13380 \let\mp@footgroupv@r\@mpsixel@footgroupv@r
13381 \bidi@make@mpsixel@LTRfootgroup{v@l}%
13382 \let\mp@LTRfootgroupv@l\@mpsixel@LTRfootgroupv@l
13383 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13384 }
13385 \bidi@ensure@newcommand{\@sixelfootnotetext}[1]{\insert
13386 \if@RTL@footnote
13387 \footinsv@r
13388 \else
13389 \footinsv@l
13390 \fi
13391 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13392 \def\baselinestretch{\m@mm@footnote@spacing}%
13393 \reset@font\foottextfont
13394 \@preamfntext
13395 \protected@edef\@currentlabel{%
13396 \csname p@footnote\endcsname\@thefnmark}%
13397 \color@begingroup
13398 \@sixelfootfmt{#1}%
13399 \color@endgroup}%
13400 \m@mmf@prepare}
13401 \newcommand{\@SixColfootnotetext}[1]{%
13402 \bidi@step@absolute@footnote@count
13403 \if@RTL@footnote
13404 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13405 \else
13406 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13407 \fi

```



```

13408 \global\setbox
13409 \if@RTL@footnote
13410 \footinsv@r
13411 \else
13412 \footinsv@l
13413 \fi
13414 \vbox{%
13415 \unvbox
13416 \if@RTL@footnote
13417 \footinsv@r
13418 \else
13419 \footinsv@l
13420 \fi
13421 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13422 \def\baselinestretch{\m@{footnote@spacing}}%
13423 \reset@font\foottextfont
13424 \@preamfntext
13425 \protected@edef\@currentlabel{%
13426 \csname p@footnote\endcsname\@thefnmark}%
13427 \color@begingroup
13428 \@sixcolfootfmt{#1}%
13429 \color@endgroup}%
13430 \m@mmf@prepare
13431 \if@RTL@footnote
13432 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13433 \else
13434 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13435 \fi
13436 }
13437 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13438 \def\baselinestretch{\m@{footnote@spacing}}%
13439 \reset@font\LTRfoottextfont
13440 \@preamfntext
13441 \protected@edef\@currentlabel{%
13442 \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444 \@sixcolLTRfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mmf@prepare}
13447 \newcommand{\@SixColLTRfootnotetext}[1]{%
13448 \bidi@step@absolutefootnote@count
13449 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13450 \global\setbox\footinsv@l\vbox{%
13451 \unvbox\footinsv@l
13452 \@RTLfalse
13453 \def\baselinestretch{\m@{footnote@spacing}}%
13454 \reset@font\LTRfoottextfont
13455 \@preamfntext
13456 \protected@edef\@currentlabel{%
13457 \csname p@footnote\endcsname\@thefnmark}%
13458 \color@begingroup
13459 \@sixcolLTRfootfmt{#1}%
13460 \color@endgroup}%
13461 \m@mmf@prepare

```



```

13462 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13463 }
13464 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13465 \def\baselinestretch{\m@m@footnote@spacing}%
13466 \reset@font\RTLfoottextfont
13467 \@preamfntext
13468 \protected@edef\@currentlabel{%
13469 \csname p@footnote\endcsname\@thefnmark}%
13470 \color@begingroup
13471 \@sixcolRTLfootfmt{#1}%
13472 \color@endgroup}%
13473 \m@mmf@prepare}
13474 \newcommand{\@SixColRTLfootnotetext}[1]{%
13475 \bidi@step@absolutefootnote@count
13476 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13477 \global\setbox\footinsv@r\vbox{%
13478 \unvbox\footinsv@r
13479 \@RTLtrue
13480 \def\baselinestretch{\m@m@footnote@spacing}%
13481 \reset@font\RTLfoottextfont
13482 \@preamfntext
13483 \protected@edef\@currentlabel{%
13484 \csname p@footnote\endcsname\@thefnmark}%
13485 \color@begingroup
13486 \@sixcolRTLfootfmt{#1}%
13487 \color@endgroup}%
13488 \m@mmf@prepare
13489 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13490 }
13491 \bidi@ensure@newcommand{\@preamsixfmt}{%
13492 \hspace{.16\hsize}
13493 \parindent=\z@
13494 \tolerance=5000\relax
13495 \leavevmode}
13496 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13497 \@preamsixfmt
13498 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13499 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13500 \@preamsixfmt
13501 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13502 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13503 \@preamsixfmt
13504 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13505 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13506 \global\setbox
13507 \if@RTL@footnote
13508 \@mpfootinsv@r
13509 \else
13510 \@mpfootinsv@l
13511 \fi
13512 \vbox{%
13513 \unvbox
13514 \if@RTL@footnote
13515 \@mpfootinsv@r

```



```

13516 \else
13517 \mpfootinsv@l
13518 \fi
13519 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13520 \def\baselinestretch{\m@m@footnote@spacing}%
13521 \reset@font\foottextfont
13522 \hsize\columnwidth \@parboxrestore
13523 \protected@edef\@currentlabel{%
13524 \csname p@mpfootnote\endcsname\@thefnmark}%
13525 \color@begingroup
13526 \@sixcolfootfmt{#1}%
13527 \color@endgroup}%
13528 \m@m@mmf@prepare}
13529 \newcommand{\@mpSixColfootnotetext}[1]{%
13530 \if@RTL@footnote
13531 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13532 \else
13533 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13534 \fi
13535 \global\setbox
13536 \if@RTL@footnote
13537 \@mpfootinsv@r
13538 \else
13539 \@mpfootinsv@l
13540 \fi
13541 \vbox{%
13542 \unvbox
13543 \if@RTL@footnote
13544 \@mpfootinsv@r
13545 \else
13546 \@mpfootinsv@l
13547 \fi
13548 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13549 \def\baselinestretch{\m@m@footnote@spacing}%
13550 \reset@font\foottextfont
13551 \hsize\columnwidth \@parboxrestore
13552 \protected@edef\@currentlabel{%
13553 \csname p@mpfootnote\endcsname\@thefnmark}%
13554 \color@begingroup
13555 \@sixcolfootfmt{#1}%
13556 \color@endgroup}%
13557 \m@m@mmf@prepare}
13558 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13559 \global\setbox\@mpfootinsv@l\vbox{%
13560 \unvbox\@mpfootinsv@l
13561 \@RTLfalse
13562 \def\baselinestretch{\m@m@footnote@spacing}%
13563 \reset@font\LTRfoottextfont
13564 \hsize\columnwidth \@parboxrestore
13565 \protected@edef\@currentlabel{%
13566 \csname p@mpfootnote\endcsname\@thefnmark}%
13567 \color@begingroup
13568 \@sixcolLTRfootfmt{#1}%
13569 \color@endgroup}%

```



```

13570 \m@mmf@prepare}
13571 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13572 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13573 \global\setbox\@mpfootinsv@l\vbox{%
13574 \unvbox\@mpfootinsv@l
13575 \RTLfalse
13576 \def\baselinestretch{\m@m@footnote@spacing}%
13577 \reset@font\LTRfoottextfont
13578 \hsize\columnwidth \@parboxrestore
13579 \protected@edef\@currentlabel{%
13580 \csname p@mpfootnote\endcsname\@thefnmark}%
13581 \color@begingroup
13582 \@sixcollTRfootfmt{#1}%
13583 \color@endgroup}%
13584 \m@mmf@prepare}
13585 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13586 \global\setbox\@mpfootinsv@r\vbox{%
13587 \unvbox\@mpfootinsv@r
13588 \RTLtrue
13589 \def\baselinestretch{\m@m@footnote@spacing}%
13590 \reset@font\RTLfoottextfont
13591 \hsize\columnwidth \@parboxrestore
13592 \protected@edef\@currentlabel{%
13593 \csname p@mpfootnote\endcsname\@thefnmark}%
13594 \color@begingroup
13595 \@sixcolRTLfootfmt{#1}%
13596 \color@endgroup}%
13597 \m@mmf@prepare}
13598 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13599 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13600 \global\setbox\@mpfootinsv@r\vbox{%
13601 \unvbox\@mpfootinsv@r
13602 \RTLtrue
13603 \def\baselinestretch{\m@m@footnote@spacing}%
13604 \reset@font\RTLfoottextfont
13605 \hsize\columnwidth \@parboxrestore
13606 \protected@edef\@currentlabel{%
13607 \csname p@mpfootnote\endcsname\@thefnmark}%
13608 \color@begingroup
13609 \@sixcolRTLfootfmt{#1}%
13610 \color@endgroup}%
13611 \m@mmf@prepare}
13612 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13613 \@namedef{\@sixcol@footgroup#1}{%
13614 \def\baselinestretch{\m@m@footnote@spacing}%
13615 \hsize\bidi@columnwidth
13616 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13617 \m@r rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13618 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13619 \@namedef{\@sixcol@LTRfootgroup#1}{%
13620 \def\baselinestretch{\m@m@footnote@spacing}%
13621 \hsize\bidi@columnwidth
13622 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13623 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%

```



```

13624 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13625 \@namedef{\mpsixcol@footgroup#1}{%
13626 \def\baselinestretch{\m@m@footnote@spacing}%
13627 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13628 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
13629 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13630 \@namedef{\mpsixcol@LTRfootgroup#1}{%
13631 \def\baselinestretch{\m@m@footnote@spacing}%
13632 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13633 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
13634 \bidi@ensure@newcommand{\sevencolumnfootnotes}{%
13635 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13636 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13637 \@bidi@before@Hy@hyperfootnotes
13638 \let\@footnotetext\@sevencolfootnotetext
13639 \let\@LTRfootnotetext\@sevencolLTRfootnotetext
13640 \let\@RTLfootnotetext\@sevencolRTLfootnotetext
13641 \dimen\footinsv@r=7\footinsdim
13642 \count\footinsv@r=142\relax
13643 \m@make@sevencol@footgroup{v@r}%
13644 \let\@footgroupv@r\@sevencol@footgroupv@r
13645 \dimen\footinsv@l=7\footinsdim
13646 \count\footinsv@l=142\relax
13647 \bidi@make@sevencol@LTRfootgroup{v@l}%
13648 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13649 \let\@mpfootnotetext\@mpsevencolfootnotetext
13650 \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
13651 \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
13652 \@bidi@after@Hy@hyperfootnotes
13653 \m@make@mpsevencol@footgroup{v@r}%
13654 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13655 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13656 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13657 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13658 }
13659 \newcommand{\SevenColumnFootnotes}{%
13660 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13661 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13662 \@bidi@before@Hy@hyperfootnotes
13663 \let\@footnotetext\@SevenColfootnotetext
13664 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13665 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13666 \dimen\footinsv@r=7\footinsdim
13667 \count\footinsv@r=142\relax
13668 \m@make@sevencol@footgroup{v@r}%
13669 \let\@footgroupv@r\@sevencol@footgroupv@r
13670 \dimen\footinsv@l=7\footinsdim
13671 \count\footinsv@l=142\relax
13672 \bidi@make@sevencol@LTRfootgroup{v@l}%
13673 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13674 \let\@mpfootnotetext\@mpSevenColfootnotetext
13675 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13676 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13677 \@bidi@after@Hy@hyperfootnotes

```



```

13678 \m@make@mpsevenscol@footgroup{v@r}%
13679 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
13680 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
13681 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
13682 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13683 }
13684 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
13685 \if@RTL@footnote
13686 \footinsv@r
13687 \else
13688 \footinsv@l
13689 \fi
13690 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13691 \def\baselinestretch{\m@n@footnote@spacing}%
13692 \reset@font\foottextfont
13693 \@preamfntext
13694 \protected@edef\@currentlabel{%
13695 \csname p@footnote\endcsname\@thefnmark}%
13696 \color@begingroup
13697 \@sevenscolfootfmt{#1}%
13698 \color@endgroup}%
13699 \m@mmf@prepare}
13700 \newcommand{\@SevenColfootnotetext}[1]{%
13701 \bidi@step@absolute@footnote@count
13702 \if@RTL@footnote
13703 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13704 \else
13705 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13706 \fi
13707 \global\setbox
13708 \if@RTL@footnote
13709 \footinsv@r
13710 \else
13711 \footinsv@l
13712 \fi
13713 \vbox{%
13714 \unvbox
13715 \if@RTL@footnote
13716 \footinsv@r
13717 \else
13718 \footinsv@l
13719 \fi
13720 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13721 \def\baselinestretch{\m@n@footnote@spacing}%
13722 \reset@font\foottextfont
13723 \@preamfntext
13724 \protected@edef\@currentlabel{%
13725 \csname p@footnote\endcsname\@thefnmark}%
13726 \color@begingroup
13727 \@sevenscolfootfmt{#1}%
13728 \color@endgroup}%
13729 \m@mmf@prepare
13730 \if@RTL@footnote
13731 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```




```

13732 \else
13733 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13734 \fi
13735 }
13736 \bidi@ensure@newcommand{\@sevencolLTRfootnotetext}[1]{\insert\footinsv@1{\@RTLfalse%
13737 \def\baselinestretch{\m@m@footnote@spacing}%
13738 \reset@font\LTRfoottextfont
13739 \@preamfntext
13740 \protected@edef\@currentlabel{%
13741 \csname p@footnote\endcsname\@thefnmark}%
13742 \color@begingroup
13743 \@sevencolLTRfootfmt{#1}%
13744 \color@endgroup}%
13745 \m@m@mmf@prepare}
13746 \newcommand{\@SevenColLTRfootnotetext}[1]{%
13747 \bidi@step@absolute@footnote@count
13748 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13749 \global\setbox\footinsv@1\vbox{%
13750 \unvbox\footinsv@1
13751 \@RTLfalse
13752 \def\baselinestretch{\m@m@footnote@spacing}%
13753 \reset@font\LTRfoottextfont
13754 \@preamfntext
13755 \protected@edef\@currentlabel{%
13756 \csname p@footnote\endcsname\@thefnmark}%
13757 \color@begingroup
13758 \@sevencolLTRfootfmt{#1}%
13759 \color@endgroup}%
13760 \m@m@mmf@prepare
13761 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13762 }
13763 \bidi@ensure@newcommand{\@sevencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13764 \def\baselinestretch{\m@m@footnote@spacing}%
13765 \reset@font\RTLfoottextfont
13766 \@preamfntext
13767 \protected@edef\@currentlabel{%
13768 \csname p@footnote\endcsname\@thefnmark}%
13769 \color@begingroup
13770 \@sevencolRTLfootfmt{#1}%
13771 \color@endgroup}%
13772 \m@m@mmf@prepare}
13773 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13774 \bidi@step@absolute@footnote@count
13775 \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13776 \global\setbox\footinsv@r\vbox{%
13777 \unvbox\footinsv@r
13778 \@RTLtrue
13779 \def\baselinestretch{\m@m@footnote@spacing}%
13780 \reset@font\RTLfoottextfont
13781 \@preamfntext
13782 \protected@edef\@currentlabel{%
13783 \csname p@footnote\endcsname\@thefnmark}%
13784 \color@begingroup
13785 \@sevencolRTLfootfmt{#1}%

```



```

13786 \color@endgroup}%
13787 \m@mmf@prepare
13788 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13789 }
13790 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13791 \hspace{.142\hspace}
13792 \parindent=\z@
13793 \tolerance=5000\relax
13794 \leavevmode}
13795 \bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
13796 \@preamsevenfmt
13797 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13798 \bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
13799 \@preamsevenfmt
13800 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13801 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
13802 \@preamsevenfmt
13803 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13804 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13805 \global\setbox
13806 \if@RTL@footnote
13807 \@mpfootinsv@r
13808 \else
13809 \@mpfootinsv@l
13810 \fi
13811 \vbox{%
13812 \unvbox
13813 \if@RTL@footnote
13814 \@mpfootinsv@r
13815 \else
13816 \@mpfootinsv@l
13817 \fi
13818 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13819 \def\baselinestretch{\m@mm@footnote@spacing}%
13820 \reset@font\foottextfont
13821 \hspace\columnwidth \@parboxrestore
13822 \protected@edef\@currentlabel{%
13823 \csname p@mpfootnote\endcsname\@thefnmark}%
13824 \color@begingroup
13825 \@sevencolfootfmt{#1}%
13826 \color@endgroup}%
13827 \m@mmf@prepare}
13828 \newcommand{\@mpSevenColfootnotetext}[1]{%
13829 \if@RTL@footnote
13830 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13831 \else
13832 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13833 \fi
13834 \global\setbox
13835 \if@RTL@footnote
13836 \@mpfootinsv@r
13837 \else
13838 \@mpfootinsv@l
13839 \fi

```



```

13840 \vbox{%
13841   \unvbox
13842   \if@RTL@footnote
13843   \@mpfootinsv@r
13844 \else
13845   \@mpfootinsv@l
13846 \fi
13847 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13848 \def\baselinestretch{\m@m@footnote@spacing}%
13849 \reset@font\foottextfont
13850 \hsize\columnwidth \@parboxrestore
13851 \protected@edef\@currentlabel{%
13852   \csname p@mpfootnote\endcsname\@thefnmark}%
13853 \color@begingroup
13854   \@sevenscolfootfmt{#1}%
13855 \color@endgroup}%
13856 \m@m@mmf@prepare}
13857 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13858 \global\setbox\@mpfootinsv@l\vbox{%
13859   \unvbox\@mpfootinsv@l
13860   \@RTLfalse
13861   \def\baselinestretch{\m@m@footnote@spacing}%
13862   \reset@font\LTRfoottextfont
13863   \hsize\columnwidth \@parboxrestore
13864   \protected@edef\@currentlabel{%
13865     \csname p@mpfootnote\endcsname\@thefnmark}%
13866 \color@begingroup
13867   \@sevenscolLTRfootfmt{#1}%
13868 \color@endgroup}%
13869 \m@m@mmf@prepare}
13870 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13871 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13872 \global\setbox\@mpfootinsv@l\vbox{%
13873   \unvbox\@mpfootinsv@l
13874   \@RTLfalse
13875   \def\baselinestretch{\m@m@footnote@spacing}%
13876   \reset@font\LTRfoottextfont
13877   \hsize\columnwidth \@parboxrestore
13878   \protected@edef\@currentlabel{%
13879     \csname p@mpfootnote\endcsname\@thefnmark}%
13880 \color@begingroup
13881   \@sevenscolLTRfootfmt{#1}%
13882 \color@endgroup}%
13883 \m@m@mmf@prepare}
13884 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13885 \global\setbox\@mpfootinsv@r\vbox{%
13886   \unvbox\@mpfootinsv@r
13887   \@RTLtrue
13888   \def\baselinestretch{\m@m@footnote@spacing}%
13889   \reset@font\RTLfoottextfont
13890   \hsize\columnwidth \@parboxrestore
13891   \protected@edef\@currentlabel{%
13892     \csname p@mpfootnote\endcsname\@thefnmark}%
13893 \color@begingroup

```



```

13894 \sevenscolRTLfootfmt{#1}%
13895 \color@endgroup}%
13896 \m@mmf@prepare}
13897 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13898 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13899 \global\setbox\@mpfootinsv@r\vbox{%
13900 \unvbox\@mpfootinsv@r
13901 \RTLtrue
13902 \def\baselinestretch{\m@m@footnote@spacing}%
13903 \reset@font\RTLfoottextfont
13904 \hsize\columnwidth \@parboxrestore
13905 \protected@edef\@currentlabel{%
13906 \csname p@mpfootnote\endcsname\@thefnmark}%
13907 \color@begingroup
13908 \sevenscolRTLfootfmt{#1}%
13909 \color@endgroup}%
13910 \m@mmf@prepare}
13911 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13912 \@namedef{\sevenscol@footgroup#1}{%
13913 \def\baselinestretch{\m@m@footnote@spacing}%
13914 \hsize\bidi@columnwidth
13915 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13916 \m@r@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}
13917 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13918 \@namedef{\sevenscol@LTRfootgroup#1}{%
13919 \def\baselinestretch{\m@m@footnote@spacing}%
13920 \hsize\bidi@columnwidth
13921 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13922 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}
13923 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
13924 \@namedef{\mpsevenscol@footgroup#1}{%
13925 \def\baselinestretch{\m@m@footnote@spacing}%
13926 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13927 \m@r@rigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}
13928 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
13929 \@namedef{\mpsevenscol@LTRfootgroup#1}{%
13930 \def\baselinestretch{\m@m@footnote@spacing}%
13931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13932 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}
13933 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13934 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13935 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13936 \@bidi@before@Hy@hyperfootnotes
13937 \let\@footnotetext\@eightcolfootnotetext
13938 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13939 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13940 \dimen\footinsv@r=8\footinsdim
13941 \count\footinsv@r=125\relax
13942 \m@make@eightcol@footgroup{v@r}%
13943 \let\@footgroupv@r\@eightcol@footgroupv@r
13944 \dimen\footinsv@l=8\footinsdim
13945 \count\footinsv@l=125\relax
13946 \bidi@make@eightcol@LTRfootgroup{v@l}%
13947 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l

```



```

13948 \let\@mpfootnotetext\@mpeightcolfootnotetext
13949 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13950 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13951 \@bidi@after@Hy@hyperfootnotes
13952 \m@make@mpeightcol@footgroup{v@r}%
13953 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13954 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13955 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13956 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13957 }
13958 \newcommand{\EightColumnFootnotes}{%
13959 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13960 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13961 \@bidi@before@Hy@hyperfootnotes
13962 \let\@footnotetext\@EightColfootnotetext
13963 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13964 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13965 \dimen\footinsv@r=8\footinsdim
13966 \count\footinsv@r=125\relax
13967 \m@make@eightcol@footgroup{v@r}%
13968 \let\@footgroupv@r\@eightcol@footgroupv@r
13969 \dimen\footinsv@l=8\footinsdim
13970 \count\footinsv@l=125\relax
13971 \bidi@make@eightcol@LTRfootgroup{v@l}%
13972 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13973 \let\@mpfootnotetext\@mpEightColfootnotetext
13974 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13975 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13976 \@bidi@after@Hy@hyperfootnotes
13977 \m@make@mpeightcol@footgroup{v@r}%
13978 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13979 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13980 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13981 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13982 }
13983 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13984 \if@RTL@footnote
13985 \footinsv@r
13986 \else
13987 \footinsv@l
13988 \fi
13989 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13990 \def\baselinestretch{\m@mp@footnote@spacing}%
13991 \reset@font\foottextfont
13992 \@preamfntext
13993 \protected@edef\@currentlabel{%
13994 \csname p@footnote\endcsname\@thefnmark}%
13995 \color@begingroup
13996 \@eightcolfootfmt{#1}%
13997 \color@endgroup}%
13998 \m@mmf@prepare}
13999 \newcommand{\@EightColfootnotetext}[1]{%
14000 \bidi@step@absolutefootnote@count
14001 \if@RTL@footnote

```



```

14002 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14003 \else
14004 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14005 \fi
14006 \global\setbox
14007 \if@RTL@footnote
14008 \footinsv@r
14009 \else
14010 \footinsv@l
14011 \fi
14012 \vbox{%
14013 \unvbox
14014 \if@RTL@footnote
14015 \footinsv@r
14016 \else
14017 \footinsv@l
14018 \fi
14019 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14020 \def\baselinestretch{\m@m@footnote@spacing}%
14021 \reset@font\foottextfont
14022 \@preamfntext
14023 \protected@edef\@currentlabel{%
14024 \csname p@footnote\endcsname\@thefnmark}%
14025 \color@begingroup
14026 \@eightcolfootfmt{#1}%
14027 \color@endgroup}%
14028 \m@mmf@prepare
14029 \if@RTL@footnote
14030 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14031 \else
14032 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14033 \fi
14034 }
14035 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14036 \def\baselinestretch{\m@m@footnote@spacing}%
14037 \reset@font\LTRfoottextfont
14038 \@preamfntext
14039 \protected@edef\@currentlabel{%
14040 \csname p@footnote\endcsname\@thefnmark}%
14041 \color@begingroup
14042 \@eightcolLTRfootfmt{#1}%
14043 \color@endgroup}%
14044 \m@mmf@prepare}
14045 \newcommand{\@EightColLTRfootnotetext}[1]{%
14046 \bidi@step@absolute@footnote@count
14047 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14048 \global\setbox\footinsv@l\vbox{%
14049 \unvbox\footinsv@l
14050 \@RTLfalse
14051 \def\baselinestretch{\m@m@footnote@spacing}%
14052 \reset@font\LTRfoottextfont
14053 \@preamfntext
14054 \protected@edef\@currentlabel{%
14055 \csname p@footnote\endcsname\@thefnmark}%

```



```

14056 \color@begingroup
14057   \@eightcolLTRfootfmt{#1}%
14058 \color@endgroup}%
14059 \m@mmf@prepare
14060 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14061 }
14062 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14063   \def\baselinestretch{\m@mm@footnote@spacing}%
14064   \reset@font\RTLfoottextfont
14065   \@preamfntext
14066   \protected@edef\@currentlabel{%
14067     \csname p@footnote\endcsname\@thefnmark}%
14068   \color@begingroup
14069     \@eightcolRTLfootfmt{#1}%
14070   \color@endgroup}%
14071   \m@mmf@prepare}
14072 \newcommand{\@EightColRTLfootnotetext}[1]{%
14073   \bidi@step@absolutefootnote@count
14074   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14075   \global\setbox\footinsv@r\vbox{%
14076     \unvbox\footinsv@r
14077     \@RTLtrue%
14078     \def\baselinestretch{\m@mm@footnote@spacing}%
14079     \reset@font\RTLfoottextfont
14080     \@preamfntext
14081     \protected@edef\@currentlabel{%
14082       \csname p@footnote\endcsname\@thefnmark}%
14083     \color@begingroup
14084       \@eightcolRTLfootfmt{#1}%
14085     \color@endgroup}%
14086     \m@mmf@prepare
14087   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14088 }
14089 \bidi@ensure@newcommand{\@preameightfmt}{%
14090   \hspace{.125\hspace}
14091   \parindent=\z@
14092   \tolerance=5000\relax
14093   \leavevmode}
14094 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14095   \@preameightfmt
14096   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14097 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14098   \@preameightfmt
14099   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14100 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14101   \@preameightfmt
14102   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14103 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14104   \global\setbox
14105     \if@RTL@footnote
14106       \@mpfootinsv@r
14107   \else
14108     \@mpfootinsv@l
14109   \fi

```



```

14110 \vbox{%
14111   \unvbox
14112   \if@RTL@footnote
14113     \@mpfootinsv@r
14114 \else
14115   \@mpfootinsv@l
14116 \fi
14117   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14118   \def\baselinestretch{\m@m@footnote@spacing}%
14119   \reset@font\foottextfont
14120   \hsize\columnwidth \@parboxrestore
14121   \protected@edef\@currentlabel{%
14122     \csname p@mpfootnote\endcsname\@thefnmark}%
14123   \color@begingroup
14124     \@eightcolfootfmt{#1}%
14125   \color@endgroup}%
14126   \m@mmf@prepare}
14127 \newcommand{\@mpEightColfootnotetext}[1]{%
14128   \if@RTL@footnote
14129     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14130 \else
14131     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14132 \fi
14133 \global\setbox
14134   \if@RTL@footnote
14135     \@mpfootinsv@r
14136 \else
14137   \@mpfootinsv@l
14138 \fi
14139 \vbox{%
14140   \unvbox
14141   \if@RTL@footnote
14142     \@mpfootinsv@r
14143 \else
14144   \@mpfootinsv@l
14145 \fi
14146   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14147   \def\baselinestretch{\m@m@footnote@spacing}%
14148   \reset@font\foottextfont
14149   \hsize\columnwidth \@parboxrestore
14150   \protected@edef\@currentlabel{%
14151     \csname p@mpfootnote\endcsname\@thefnmark}%
14152   \color@begingroup
14153     \@eightcolfootfmt{#1}%
14154   \color@endgroup}%
14155   \m@mmf@prepare}
14156 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14157   \global\setbox\@mpfootinsv@l\vbox{%
14158     \unvbox\@mpfootinsv@l
14159     \@RTLfalse
14160     \def\baselinestretch{\m@m@footnote@spacing}%
14161     \reset@font\LTRfoottextfont
14162     \hsize\columnwidth \@parboxrestore
14163     \protected@edef\@currentlabel{%

```




```

14164      \csname p@mpfootnote\endcsname\@thefnmark}%
14165 \color@begingroup
14166   \@eightcolLTRfootfmt{#1}%
14167 \color@endgroup}%
14168 \m@mmf@prepare}
14169 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14170 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14171 \global\setbox\@mpfootinsv@l\vbox{%
14172   \unvbox\@mpfootinsv@l
14173   \@RTLfalse
14174   \def\baselinestretch{\m@m@footnote@spacing}%
14175   \reset@font\LTRfoottextfont
14176   \hsize\columnwidth \@parboxrestore
14177   \protected@edef\@currentlabel{%
14178     \csname p@mpfootnote\endcsname\@thefnmark}%
14179 \color@begingroup
14180   \@eightcolLTRfootfmt{#1}%
14181 \color@endgroup}%
14182 \m@mmf@prepare}
14183 \bidi@ensure@newcommand{\@mpEightColRTLfootnotetext}[1]{%
14184 \global\setbox\@mpfootinsv@r\vbox{%
14185   \unvbox\@mpfootinsv@r
14186   \@RTLtrue
14187   \def\baselinestretch{\m@m@footnote@spacing}%
14188   \reset@font\RTLfoottextfont
14189   \hsize\columnwidth \@parboxrestore
14190   \protected@edef\@currentlabel{%
14191     \csname p@mpfootnote\endcsname\@thefnmark}%
14192 \color@begingroup
14193   \@eightcolRTLfootfmt{#1}%
14194 \color@endgroup}%
14195 \m@mmf@prepare}
14196 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14197 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14198 \global\setbox\@mpfootinsv@r\vbox{%
14199   \unvbox\@mpfootinsv@r
14200   \@RTLtrue
14201   \def\baselinestretch{\m@m@footnote@spacing}%
14202   \reset@font\RTLfoottextfont
14203   \hsize\columnwidth \@parboxrestore
14204   \protected@edef\@currentlabel{%
14205     \csname p@mpfootnote\endcsname\@thefnmark}%
14206 \color@begingroup
14207   \@eightcolRTLfootfmt{#1}%
14208 \color@endgroup}%
14209 \m@mmf@prepare}
14210 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14211 \namedef{@eightcol@footgroup#1}{%
14212   \def\baselinestretch{\m@m@footnote@spacing}%
14213   \hsize\bidi@columnwidth
14214   \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14215   \m@rigrigidbodybalance{\@nameuse{footins#1}}{8}{\splittopskip}}}
14216 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14217 \namedef{@eightcol@LTRfootgroup#1}{%

```



```

14218 \def\baselinestretch{\m@m@footnote@spacing}%
14219 \hsize\bidicolumnwidth
14220 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14221 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14222 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
14223 \@namedef{@mpeightcol@footgroup#1}{%
14224 \def\baselinestretch{\m@m@footnote@spacing}%
14225 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14226 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
14227 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14228 \@namedef{@mpeightcol@LTRfootgroup#1}{%
14229 \def\baselinestretch{\m@m@footnote@spacing}%
14230 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14231 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
14232 \bidi@ensure@newcommand{\necolumnfootnotes}{%
14233 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14234 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14235 \@bidi@before@Hy@hyperfootnotes
14236 \let\@footnotetext\@necolfootnotetext
14237 \let\@LTRfootnotetext\@necolLTRfootnotetext
14238 \let\@RTLfootnotetext\@necolRTLfootnotetext
14239 \dimen\footinsv@r=9\footinsdim
14240 \count\footinsv@r=111\relax
14241 \m@make@necol@footgroup{v@r}%
14242 \let\@footgroupv@r\@necol@footgroupv@r
14243 \dimen\footinsv@l=9\footinsdim
14244 \count\footinsv@l=111\relax
14245 \bidi@make@necol@LTRfootgroup{v@l}%
14246 \let\@LTRfootgroupv@l\@necol@LTRfootgroupv@l
14247 \let\@mpfootnotetext\@mpnecolfootnotetext
14248 \let\@mpLTRfootnotetext\@mpnecolLTRfootnotetext
14249 \let\@mpRTLfootnotetext\@mpnecolRTLfootnotetext
14250 \@bidi@after@Hy@hyperfootnotes
14251 \m@make@mpnecol@footgroup{v@r}%
14252 \let\mp@footgroupv@r\@mpnecol@footgroupv@r
14253 \bidi@make@mpnecol@LTRfootgroup{v@l}%
14254 \let\mp@LTRfootgroupv@l\@mpnecol@LTRfootgroupv@l
14255 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14256 }
14257 \newcommand{\NineColumnFootnotes}{%
14258 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14259 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14260 \@bidi@before@Hy@hyperfootnotes
14261 \let\@footnotetext\@NineColfootnotetext
14262 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14263 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14264 \dimen\footinsv@r=9\footinsdim
14265 \count\footinsv@r=111\relax
14266 \m@make@necol@footgroup{v@r}%
14267 \let\@footgroupv@r\@necol@footgroupv@r
14268 \dimen\footinsv@l=9\footinsdim
14269 \count\footinsv@l=111\relax
14270 \bidi@make@necol@LTRfootgroup{v@l}%
14271 \let\@LTRfootgroupv@l\@necol@LTRfootgroupv@l

```



```

14272 \let\@mpfootnotetext\@mpNineColfootnotetext
14273 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14274 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14275 \@bidi@after@Hy@hyperfootnotes
14276 \m@make@mpninecol@footgroup{v@r}%
14277 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14278 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14279 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14280 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14281 }
14282 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
14283 \ifRTL@footnote
14284 \footinsv@r
14285 \else
14286 \footinsv@l
14287 \fi
14288 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14289 \def\baselinestretch{\m@mp@footnote@spacing}%
14290 \reset@font\foottextfont
14291 \@preamfntext
14292 \protected@edef\@currentlabel{%
14293 \csname p@footnote\endcsname\@thefnmark}%
14294 \color@begingroup
14295 \@ninecolfootfmt{#1}%
14296 \color@endgroup}%
14297 \m@mmf@prepare}
14298 \newcommand{\@NineColfootnotetext}[1]{%
14299 \bidi@step@absolute@footnote@count
14300 \ifRTL@footnote
14301 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14302 \else
14303 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14304 \fi
14305 \global\setbox
14306 \ifRTL@footnote
14307 \footinsv@r
14308 \else
14309 \footinsv@l
14310 \fi
14311 \vbox{%
14312 \unvbox
14313 \ifRTL@footnote
14314 \footinsv@r
14315 \else
14316 \footinsv@l
14317 \fi
14318 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14319 \def\baselinestretch{\m@mp@footnote@spacing}%
14320 \reset@font\foottextfont
14321 \@preamfntext
14322 \protected@edef\@currentlabel{%
14323 \csname p@footnote\endcsname\@thefnmark}%
14324 \color@begingroup
14325 \@ninecolfootfmt{#1}%

```



```

14326 \color@endgroup}%
14327 \m@mmf@prepare
14328 \if@RTL@footnote
14329 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14330 \else
14331 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14332 \fi
14333 }
14334 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14335 \def\baselinestretch{\m@m@footnote@spacing}%
14336 \reset@font\LTRfoottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolLTRfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@mmf@prepare}
14344 \newcommand{\@NineColLTRfootnotetext}[1]{%
14345 \bidi@step@absolute@footnote@count
14346 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14347 \global\setbox\footinsv@l\vbox{%
14348 \unvbox\footinsv@l
14349 \@RTLfalse
14350 \def\baselinestretch{\m@m@footnote@spacing}%
14351 \reset@font\LTRfoottextfont
14352 \@preamfntext
14353 \protected@edef\@currentlabel{%
14354 \csname p@footnote\endcsname\@thefnmark}%
14355 \color@begingroup
14356 \@ninecolLTRfootfmt{#1}%
14357 \color@endgroup}%
14358 \m@mmf@prepare
14359 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14360 }
14361 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14362 \def\baselinestretch{\m@m@footnote@spacing}%
14363 \reset@font\RTLfoottextfont
14364 \@preamfntext
14365 \protected@edef\@currentlabel{%
14366 \csname p@footnote\endcsname\@thefnmark}%
14367 \color@begingroup
14368 \@ninecolRTLfootfmt{#1}%
14369 \color@endgroup}%
14370 \m@mmf@prepare}
14371 \newcommand{\@NineColRTLfootnotetext}[1]{%
14372 \bidi@step@absolute@footnote@count
14373 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14374 \global\setbox\footinsv@r\vbox{%
14375 \unvbox\footinsv@r
14376 \@RTLtrue
14377 \def\baselinestretch{\m@m@footnote@spacing}%
14378 \reset@font\RTLfoottextfont
14379 \@preamfntext

```



```

14380 \protected@edef\@currentlabel{%
14381   \csname p@footnote\endcsname\@thefnmark}%
14382 \color@begingroup
14383   \@ninecolRTLfootfmt{#1}%
14384 \color@endgroup}%
14385 \m@mmf@prepare
14386 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14387 }
14388 \bidi@ensure@newcommand{\@preamninefmt}{%
14389   \hspace{.1\hspace}
14390   \parindent=\z@
14391   \tolerance=5000\relax
14392   \leavevmode}
14393 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14394   \@preamninefmt
14395   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14396 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14397   \@preamninefmt
14398   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14399 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14400   \@preamninefmt
14401   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14402 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14403   \global\setbox
14404     \if@RTL@footnote
14405       \@mpfootinsv@r
14406     \else
14407       \@mpfootinsv@l
14408     \fi
14409   \vbox{%
14410     \unvbox
14411     \if@RTL@footnote
14412       \@mpfootinsv@r
14413     \else
14414       \@mpfootinsv@l
14415     \fi
14416     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14417     \def\baselinestretch{\m@m@footnote@spacing}%
14418     \reset@font\foottextfont
14419     \hspace\columnwidth \@parboxrestore
14420     \protected@edef\@currentlabel{%
14421       \csname p@mpfootnote\endcsname\@thefnmark}%
14422     \color@begingroup
14423       \@ninecolfootfmt{#1}%
14424     \color@endgroup}%
14425     \m@mmf@prepare}
14426 \newcommand{\@mpNineColfootnotetext}[1]{%
14427   \if@RTL@footnote
14428     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14429   \else
14430     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14431   \fi
14432   \global\setbox
14433     \if@RTL@footnote

```



```

14434 \mpfootinsv@r
14435 \else
14436 \mpfootinsv@l
14437 \fi
14438 \vbox{%
14439 \unvbox
14440 \if@RTL@footnote
14441 \mpfootinsv@r
14442 \else
14443 \mpfootinsv@l
14444 \fi
14445 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14446 \def\baselinestretch{\m@m@footnote@spacing}%
14447 \reset@font\foottextfont
14448 \hsize\columnwidth \@parboxrestore
14449 \protected@edef\@currentlabel{%
14450 \csname p@mpfootnote\endcsname\@thefnmark}%
14451 \color@begingroup
14452 \@ninecolfootfmt{#1}%
14453 \color@endgroup}%
14454 \m@m@mmf@prepare}
14455 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14456 \global\setbox\@mpfootinsv@l\vbox{%
14457 \unvbox\@mpfootinsv@l
14458 \@RTLfalse
14459 \def\baselinestretch{\m@m@footnote@spacing}%
14460 \reset@font\LTRfoottextfont
14461 \hsize\columnwidth \@parboxrestore
14462 \protected@edef\@currentlabel{%
14463 \csname p@mpfootnote\endcsname\@thefnmark}%
14464 \color@begingroup
14465 \@ninecolLTRfootfmt{#1}%
14466 \color@endgroup}%
14467 \m@m@mmf@prepare}
14468 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14469 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14470 \global\setbox\@mpfootinsv@l\vbox{%
14471 \unvbox\@mpfootinsv@l
14472 \@RTLfalse
14473 \def\baselinestretch{\m@m@footnote@spacing}%
14474 \reset@font\LTRfoottextfont
14475 \hsize\columnwidth \@parboxrestore
14476 \protected@edef\@currentlabel{%
14477 \csname p@mpfootnote\endcsname\@thefnmark}%
14478 \color@begingroup
14479 \@ninecolLTRfootfmt{#1}%
14480 \color@endgroup}%
14481 \m@m@mmf@prepare}
14482 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14483 \global\setbox\@mpfootinsv@r\vbox{%
14484 \unvbox\@mpfootinsv@r
14485 \@RTLtrue
14486 \def\baselinestretch{\m@m@footnote@spacing}%
14487 \reset@font\RTLfoottextfont

```



```

14488 \hsize\columnwidth \@parboxrestore
14489 \protected@edef\@currentlabel{%
14490 \csname p@mpfootnote\endcsname\@thefnmark}%
14491 \color@begingroup
14492 \@ninecolRTLfootfmt{#1}%
14493 \color@endgroup}%
14494 \m@mmf@prepare}
14495 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14496 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14497 \global\setbox\@mpfootinsv@r\vbox{%
14498 \unvbox\@mpfootinsv@r
14499 \@RTLtrue
14500 \def\baselinestretch{\m@m@footnote@spacing}%
14501 \reset@font\RTLfoottextfont
14502 \hsize\columnwidth \@parboxrestore
14503 \protected@edef\@currentlabel{%
14504 \csname p@mpfootnote\endcsname\@thefnmark}%
14505 \color@begingroup
14506 \@ninecolRTLfootfmt{#1}%
14507 \color@endgroup}%
14508 \m@mmf@prepare}
14509 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14510 \@namedef{@ninecol@footgroup#1}{%
14511 \def\baselinestretch{\m@m@footnote@spacing}%
14512 \hsize\bidi@columnwidth
14513 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14514 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14515 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14516 \@namedef{@ninecol@LTRfootgroup#1}{%
14517 \def\baselinestretch{\m@m@footnote@spacing}%
14518 \hsize\bidi@columnwidth
14519 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14520 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14521 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14522 \@namedef{@mpninecol@footgroup#1}{%
14523 \def\baselinestretch{\m@m@footnote@spacing}%
14524 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14525 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14526 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14527 \@namedef{@mpninecol@LTRfootgroup#1}{%
14528 \def\baselinestretch{\m@m@footnote@spacing}%
14529 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14530 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14531 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14532 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14533 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14534 \@bidi@before@Hy@hyperfootnotes
14535 \let\@footnotetext\@tencolfootnotetext
14536 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14537 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14538 \dimen\footinsv@r=10\footinsdim
14539 \count\footinsv@r=100\relax
14540 \m@make@tencol@footgroup{v@r}%
14541 \let\@footgroupv@r\@tencol@footgroupv@r

```



```

14542 \dimen\footinsv@l=10\footinsdim
14543 \count\footinsv@l=100\relax
14544 \bidi@make@tencol@LTRfootgroup{v@l}%
14545 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14546 \let\@mpfootnotetext\@mptencolfootnotetext
14547 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14548 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14549 \@bidi@after@Hy@hyperfootnotes
14550 \m@make@mptencol@footgroup{v@r}%
14551 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14552 \bidi@make@mptencol@LTRfootgroup{v@l}%
14553 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14554 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14555 }
14556 \newcommand{\TenColumnFootnotes}{%
14557 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14558 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14559 \@bidi@before@Hy@hyperfootnotes
14560 \let\@footnotetext\@TenColfootnotetext
14561 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14562 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14563 \dimen\footinsv@r=10\footinsdim
14564 \count\footinsv@r=100\relax
14565 \m@make@tencol@footgroup{v@r}%
14566 \let\@footgroupv@r\@tencol@footgroupv@r
14567 \dimen\footinsv@l=10\footinsdim
14568 \count\footinsv@l=100\relax
14569 \bidi@make@tencol@LTRfootgroup{v@l}%
14570 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14571 \let\@mpfootnotetext\@mpTenColfootnotetext
14572 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14573 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14574 \@bidi@after@Hy@hyperfootnotes
14575 \m@make@mptencol@footgroup{v@r}%
14576 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14577 \bidi@make@mptencol@LTRfootgroup{v@l}%
14578 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14579 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14580 }
14581 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14582 \if@RTL@footnote
14583 \footinsv@r
14584 \else
14585 \footinsv@l
14586 \fi
14587 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14588 \def\baselinestretch{\m@footnote@spacing}%
14589 \reset@font\foottextfont
14590 \@preamfntext
14591 \protected@edef\@currentlabel{%
14592 \csname p@footnote\endcsname\@thefnmark}%
14593 \color@begingroup
14594 \@tencolfootfmt{#1}%
14595 \color@endgroup}%

```




```

14596 \m@mmf@prepare}
14597 \newcommand{\@TenColfootnotetext}[1]{%
14598 \bidi@step@absolutefootnote@count
14599 \if@RTL@footnote
14600 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14601 \else
14602 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14603 \fi
14604 \global\setbox
14605 \if@RTL@footnote
14606 \footinsv@r
14607 \else
14608 \footinsv@l
14609 \fi
14610 \vbox{%
14611 \unvbox
14612 \if@RTL@footnote
14613 \footinsv@r
14614 \else
14615 \footinsv@l
14616 \fi
14617 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14618 \def\baselinestretch{\m@m@footnote@spacing}%
14619 \reset@font\foottextfont
14620 \@preamfntext
14621 \protected@edef\@currentlabel{%
14622 \csname p@footnote\endcsname\@thefnmark}%
14623 \color@begingroup
14624 \@tencolfootfmt{#1}%
14625 \color@endgroup}%
14626 \m@mmf@prepare
14627 \if@RTL@footnote
14628 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14629 \else
14630 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14631 \fi
14632 }
14633 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14634 \def\baselinestretch{\m@m@footnote@spacing}%
14635 \reset@font\LTRfoottextfont
14636 \@preamfntext
14637 \protected@edef\@currentlabel{%
14638 \csname p@footnote\endcsname\@thefnmark}%
14639 \color@begingroup
14640 \@tencolLTRfootfmt{#1}%
14641 \color@endgroup}%
14642 \m@mmf@prepare}
14643 \newcommand{\@TenColLTRfootnotetext}[1]{%
14644 \bidi@step@absolutefootnote@count
14645 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14646 \global\setbox\footinsv@l\vbox{%
14647 \unvbox\footinsv@l
14648 \@RTLfalse%
14649 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14650 \reset@font\LTRfoottextfont
14651 \@preamfntext
14652 \protected@edef\@currentlabel{%
14653   \csname p@footnote\endcsname\@thefnmark}%
14654 \color@begingroup
14655   \@tencolLTRfootfmt{#1}%
14656 \color@endgroup}%
14657 \m@mmf@prepare
14658 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14659 }
14660 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14661   \def\baselinestretch{\m@m@footnote@spacing}%
14662   \reset@font\RTLfoottextfont
14663   \@preamfntext
14664   \protected@edef\@currentlabel{%
14665     \csname p@footnote\endcsname\@thefnmark}%
14666   \color@begingroup
14667     \@tencolRTLfootfmt{#1}%
14668   \color@endgroup}%
14669   \m@mmf@prepare}
14670 \newcommand{\@TenColRTLfootnotetext}[1]{%
14671   \bidi@step@absolutefootnote@count
14672   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14673   \global\setbox\footinsv@r\vbox{%
14674     \unvbox\footinsv@r
14675     \@RTLtrue
14676     \def\baselinestretch{\m@m@footnote@spacing}%
14677     \reset@font\RTLfoottextfont
14678     \@preamfntext
14679     \protected@edef\@currentlabel{%
14680       \csname p@footnote\endcsname\@thefnmark}%
14681     \color@begingroup
14682       \@tencolRTLfootfmt{#1}%
14683     \color@endgroup}%
14684     \m@mmf@prepare
14685     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14686 }
14687 \bidi@ensure@newcommand{\@preamtenfmt}{%
14688   \hsize .1\hsize
14689   \parindent=\z@
14690   \tolerance=5000\relax
14691   \leavevmode}
14692 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14693   \@preamtenfmt
14694   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14695 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14696   \@preamtenfmt
14697   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14698 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14699   \@preamtenfmt
14700   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14701 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14702   \global\setbox
14703     \if@RTL@footnote

```



```

14704 \mpfootinsv@r
14705 \else
14706 \mpfootinsv@l
14707 \fi
14708 \vbox{%
14709 \unvbox
14710 \if@RTL@footnote
14711 \mpfootinsv@r
14712 \else
14713 \mpfootinsv@l
14714 \fi
14715 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14716 \def\baselinestretch{\m@{footnote@spacing}}%
14717 \reset@font\foottextfont
14718 \hsize\columnwidth \@parboxrestore
14719 \protected@edef\@currentlabel{%
14720 \csname p@mpfootnote\endcsname\@thefnmark}%
14721 \color@begingroup
14722 \@tencolfootfmt{#1}%
14723 \color@endgroup}%
14724 \m@mmf@prepare}
14725 \newcommand{\@mpTenColfootnotetext}[1]{%
14726 \if@RTL@footnote
14727 \bidi@joinmpfootnotes\mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14728 \else
14729 \bidi@joinmpfootnotes\mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14730 \fi
14731 \global\setbox
14732 \if@RTL@footnote
14733 \mpfootinsv@r
14734 \else
14735 \mpfootinsv@l
14736 \fi
14737 \vbox{%
14738 \unvbox
14739 \if@RTL@footnote
14740 \mpfootinsv@r
14741 \else
14742 \mpfootinsv@l
14743 \fi
14744 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14745 \def\baselinestretch{\m@{footnote@spacing}}%
14746 \reset@font\foottextfont
14747 \hsize\columnwidth \@parboxrestore
14748 \protected@edef\@currentlabel{%
14749 \csname p@mpfootnote\endcsname\@thefnmark}%
14750 \color@begingroup
14751 \@tencolfootfmt{#1}%
14752 \color@endgroup}%
14753 \m@mmf@prepare}
14754 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14755 \global\setbox\mpfootinsv@l\vbox{%
14756 \unvbox\mpfootinsv@l
14757 \@RTLfalse

```



```

14758 \def\baselinestretch{\m@m@footnote@spacing}%
14759 \reset@font\LTRfoottextfont
14760 \hsize\columnwidth \@parboxrestore
14761 \protected@edef\@currentlabel{%
14762 \csname p@mpfootnote\endcsname\@thefnmark}%
14763 \color@begingroup
14764 \tencolLTRfootfmt{#1}%
14765 \color@endgroup}%
14766 \m@m@mmf@prepare}
14767 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14768 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14769 \global\setbox\@mpfootinsv@l\vbox{%
14770 \unvbox\@mpfootinsv@l
14771 \@RTLfalse
14772 \def\baselinestretch{\m@m@footnote@spacing}%
14773 \reset@font\LTRfoottextfont
14774 \hsize\columnwidth \@parboxrestore
14775 \protected@edef\@currentlabel{%
14776 \csname p@mpfootnote\endcsname\@thefnmark}%
14777 \color@begingroup
14778 \tencolLTRfootfmt{#1}%
14779 \color@endgroup}%
14780 \m@m@mmf@prepare}
14781 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14782 \global\setbox\@mpfootinsv@r\vbox{%
14783 \unvbox\@mpfootinsv@r
14784 \@RTLtrue
14785 \def\baselinestretch{\m@m@footnote@spacing}%
14786 \reset@font\RTLfoottextfont
14787 \hsize\columnwidth \@parboxrestore
14788 \protected@edef\@currentlabel{%
14789 \csname p@mpfootnote\endcsname\@thefnmark}%
14790 \color@begingroup
14791 \tencolRTLfootfmt{#1}%
14792 \color@endgroup}%
14793 \m@m@mmf@prepare}
14794 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14795 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14796 \global\setbox\@mpfootinsv@r\vbox{%
14797 \unvbox\@mpfootinsv@r
14798 \@RTLtrue
14799 \def\baselinestretch{\m@m@footnote@spacing}%
14800 \reset@font\RTLfoottextfont
14801 \hsize\columnwidth \@parboxrestore
14802 \protected@edef\@currentlabel{%
14803 \csname p@mpfootnote\endcsname\@thefnmark}%
14804 \color@begingroup
14805 \tencolRTLfootfmt{#1}%
14806 \color@endgroup}%
14807 \m@m@mmf@prepare}
14808 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14809 \@namedef{\tencol@footgroup#1}{%
14810 \def\baselinestretch{\m@m@footnote@spacing}%
14811 \hsize\bidi@columnwidth

```



```

14812 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14813 \m@rigrigidbodybalance{\nameuse{footins#1}}{10}{\splittopskip}}}}
14814 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14815 \namedef{@tencol@LTRfootgroup#1}{%
14816 \def\baselinestretch{\m@m@footnote@spacing}%
14817 \hsize\bidi@columnwidth
14818 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14819 \bidi@LTRigidbodybalance{\nameuse{footins#1}}{10}{\splittopskip}}}}
14820 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14821 \namedef{@mptencol@footgroup#1}{%
14822 \def\baselinestretch{\m@m@footnote@spacing}%
14823 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14824 \m@rigrigidbodybalance{\nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14825 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14826 \namedef{@mptencol@LTRfootgroup#1}{%
14827 \def\baselinestretch{\m@m@footnote@spacing}%
14828 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14829 \bidi@LTRigidbodybalance{\nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14830 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14831 \setbox0=\vbox{\unvbox#1%
14832 \global\setbox1=\lastbox}%
14833 \unhbox1
14834 \unskip
14835 \unskip
14836 \unpenalty
14837 \hskip\m@mipn@skip}
14838 \bidi@ensure@newcommand{\m@mungebox}{%
14839 \setbox0=\hbox{\m@munvxh0}%
14840 \dp0=\z@
14841 \ht0=\footfudgefactor\wd0
14842 \box0
14843 \penalty0}
14844 \newskip\m@mipn@skip
14845 \bidi@ensure@newcommand*{\m@minterparanoteglua}[1]{%
14846 {\foottextfont\global\m@mipn@skip=#1\relax}}
14847 \m@minterparanoteglua{1em plus.3em minus.3em}
14848 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14849 \setbox0=\hbox{}%
14850 \loop
14851 \unpenalty
14852 \setbox2=\lastbox
14853 \ifhbox2
14854 \setbox0=\hbox{\box2\unhbox0}
14855 \repeat}
14856 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14857 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14858 \newcommand*{\AddExtraParaSkip}[1]{%
14859 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14860 }
14861 \let\bidi@xparaskip\relax
14862 \@onlypreamble\AddExtraParaSkip
14863 \@onlypreamble\bidi@xparaskip
14864 \def\bidi@startparafootskip#1{%
14865 \global\advance\skip#1\bidi@paraskip

```



```

14866 }
14867 \onlypreamble\bidistartparafootskip
14868 \bidiensurenewcommand{\paragraphfootnotes}{%
14869   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14870   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14871   \@bidi@before@Hy@hyperfootnotes
14872   \let\@footnotetext\@parafootnotetext
14873   \let\@LTRfootnotetext\@paraLTRfootnotetext
14874   \let\@RTLfootnotetext\@paraRTLfootnotetext
14875   \dimen\footinsv@r=\footinsdim
14876   \count\footinsv@r=1000\relax
14877   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14878   \m@make@para@footgroup{v@r}%
14879   \m@make@para@footstart{v@r}%
14880   \let\@footgroupv@r\@para@footgroupv@r
14881   \let\@footstartv@r\@para@footstartv@r
14882   \dimen\footinsv@l=\footinsdim
14883   \count\footinsv@l=1000\relax
14884   \bidi@make@para@LTRfootgroup{v@l}%
14885   \m@make@para@footstart{v@l}%
14886   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14887   \let\@footstartv@l\@para@footstartv@l
14888   \let\@mpfootnotetext\@mpparafootnotetext
14889   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14890   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14891   \@bidi@after@Hy@hyperfootnotes
14892   \m@make@mppara@footgroup{v@r}%
14893   \bidi@make@mppara@LTRfootgroup{v@l}%
14894   \let\mp@footgroupv@r\@mppara@footgroupv@r
14895   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14896   \g@addto@macro\bidifloathook{%
14897     \begingroup
14898       \foottextfont \@tempdima\normalbaselineskip
14899       \multiply \@tempdima \@cclvi
14900       \@tempdimb \columnwidth
14901       \divide \@tempdimb \@cclvi
14902       \divide \@tempdima \@tempdimb
14903       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14904     \endgroup
14905   }
14906 \AtBeginDocument{%
14907   \begingroup
14908     \foottextfont
14909     \@tempdima\footnotesep
14910     \advance\@tempdima -\ht\strutbox
14911     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14912     \advance\@tempdima.5\normalbaselineskip
14913     \bidi@xparaskip
14914     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14915   \endgroup
14916   \bidi@startparafootskip\footinsv@r
14917   \bidi@startparafootskip\footinsv@l
14918 }
14919 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

14920 }
14921 \newcommand{\ParagraphFootnotes}{%
14922   \@namedef{foottextfontv@r}{\foottextfont}%
14923   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14924   \@bidi@before@Hy@hyperfootnotes
14925   \let\@footnotetext\@Parafootnotetext
14926   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14927   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14928   \dimen\footinsv@r=\footinsdim
14929   \count\footinsv@r=1000\relax
14930   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14931   \m@make@para@footgroup{v@r}%
14932   \m@make@para@footstart{v@r}%
14933   \let\@footgroupv@r\@para@footgroupv@r
14934   \let\@footstartv@r\@para@footstartv@r
14935   \dimen\footinsv@l=\footinsdim
14936   \count\footinsv@l=1000\relax
14937   \bidi@make@para@LTRfootgroup{v@l}%
14938   \m@make@para@footstart{v@l}%
14939   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14940   \let\@footstartv@l\@para@footstartv@l
14941   \let\@mpfootnotetext\@mpParafootnotetext
14942   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14943   \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14944   \@bidi@after@Hy@hyperfootnotes
14945   \m@make@mppara@footgroup{v@r}%
14946   \bidi@make@mppara@LTRfootgroup{v@l}%
14947   \let\mp@footgroupv@r\@mppara@footgroupv@r
14948   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14949   \g@addto@macro\@bidi@floathook{%
14950     \begingroup
14951       \foottextfont \@tempdima\normalbaselineskip
14952       \multiply \@tempdima \@cclvi
14953       \@tempdimb \columnwidth
14954       \divide \@tempdimb \@cclvi
14955       \divide \@tempdima \@tempdimb
14956       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14957     \endgroup
14958   }
14959 \AtBeginDocument{%
14960   \begingroup
14961     \foottextfont
14962     \@tempdima\footnotesep
14963     \advance\@tempdima -\ht\strutbox
14964     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14965     \advance\@tempdima.5\normalbaselineskip
14966     \bidi@xparaskip
14967     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14968   \endgroup
14969   \bidi@startparafootskip\footinsv@r
14970   \bidi@startparafootskip\footinsv@l
14971 }
14972 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14973 }

```



```

14974 \newcommand{\normalRTLparaLTRfootnotes}{%
14975   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14976   \@bidi@before@Hy@hyperfootnotes
14977   \if@RTL@footnote
14978     \let\@footnotetext\m@mold@footnotetext
14979   \else
14980     \let\@footnotetext\@parafootnotetext
14981   \fi
14982   \let\@LTRfootnotetext\@paraLTRfootnotetext
14983   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14984   \dimen\footinsv@1=\footinsdim
14985   \count\footinsv@1=1000\relax
14986   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14987   \bidi@make@para@LTRfootgroup{v@1}%
14988   \m@make@para@footstart{v@1}%
14989   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
14990   \let\@footstartv@1\@para@footstartv@1
14991   \if@RTL@footnote
14992     \let\@mpfootnotetext\m@mold@mpfootnotetext
14993   \else
14994     \let\@mpfootnotetext\@mpparafootnotetext
14995   \fi
14996   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14997   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14998   \@bidi@after@Hy@hyperfootnotes
14999   \bidi@make@mppara@LTRfootgroup{v@1}%
15000   \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15001   \g@addto@macro\@bidi@floathook{%
15002     \begingroup
15003       \LTRfoottextfont \@tempdima\normalbaselineskip
15004       \multiply \@tempdima \@cclvi
15005       \@tempdimb \columnwidth
15006       \divide \@tempdimb \@cclvi
15007       \divide \@tempdima \@tempdimb
15008       \xdef\footfudgefactor{\strip@pt\@tempdima}%
15009     \endgroup
15010   }
15011   \AtBeginDocument{%
15012     \begingroup
15013       \LTRfoottextfont
15014       \@tempdima\footnotesep
15015       \advance\@tempdima -\ht\strutbox
15016       \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15017       \advance\@tempdima.5\normalbaselineskip
15018       \bidi@xparaskip
15019       \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15020     \endgroup
15021     \bidi@startparafootskip\footinsv@1
15022   }
15023   \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15024 }
15025 \newcommand{\NormalRTLParaLTRFootnotes}{%
15026   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15027   \@bidi@before@Hy@hyperfootnotes

```




```

15028 \if@RTL@footnote
15029   \let\@footnotetext\@bidi@bidiold@footnotetext
15030 \else
15031   \let\@footnotetext\@Parafootnotetext
15032 \fi
15033 \let\@LTRfootnotetext\@ParaLTRfootnotetext
15034 \let\@RTLfootnotetext\@bidi@bidiold@RTLfootnotetext
15035 \dimen\footinsv@l=\footinsdim
15036 \count\footinsv@l=1000\relax
15037 \let\@bidi@removexfootskip\@bidi@removexparafootskip
15038 \@bidi@make@para@LTRfootgroup{v@l}%
15039 \m@make@para@footstart{v@l}%
15040 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15041 \let\@footstartv@l\@para@footstartv@l
15042 \if@RTL@footnote
15043   \let\@mpfootnotetext\@bidi@bidiold@mpfootnotetext
15044 \else
15045   \let\@mpfootnotetext\@mpParafootnotetext
15046 \fi
15047 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15048 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15049 \@bidi@after@Hy@hyperfootnotes
15050 \@bidi@make@mppara@LTRfootgroup{v@l}%
15051 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15052 \g@addto@macro\@bidi@floathook{%
15053   \begingroup
15054     \LTRfoottextfont \@tempdima\normalbaselineskip
15055     \multiply \@tempdima \@cclvi
15056     \@tempdimb \columnwidth
15057     \divide \@tempdimb \@cclvi
15058     \divide \@tempdima \@tempdimb
15059     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15060   \endgroup
15061 }
15062 \AtBeginDocument{%
15063   \begingroup
15064     \LTRfoottextfont
15065     \@tempdima\footnotesep
15066     \advance\@tempdima -\ht\strutbox
15067     \ifdim\@tempdima<z@ \@tempdima z@ \fi
15068     \advance\@tempdima.5\normalbaselineskip
15069     \bidi@xparaskip
15070     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15071   \endgroup
15072   \bidi@startparafootskip\footinsv@l
15073 }
15074 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15075 }
15076 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15077   \if@RTL@footnote
15078     \footinsv@r
15079   \else
15080     \footinsv@l
15081   \fi

```



```

15082 {%
15083 \let\bidirTL@everypar\@empty%
15084 \def\baselinestretch{\m@m@footnote@spacing}%
15085 \reset@font\foottextfont
15086 \@preamfntext
15087 \protected@edef\@currentlabel{%
15088 \csname p@footnote\endcsname\@thefnmark}%
15089 \setbox0=\vbox{\hsize=\maxdimen
15090 \color@begingroup
15091 \noindent \@parafootfmt{#1}%
15092 \color@endgroup}%
15093 \m@mungebox}\m@mmf@prepare}
15094 \newcommand{\@Parafootnotetext}[1]{%
15095 \bidi@step@absolute@footnote@count
15096 \if@RTL@footnote
15097 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15098 \else
15099 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15100 \fi
15101 \global\setbox
15102 \if@RTL@footnote
15103 \footinsv@r
15104 \else
15105 \footinsv@l
15106 \fi
15107 \vbox{%
15108 \unvbox
15109 \if@RTL@footnote
15110 \footinsv@r
15111 \else
15112 \footinsv@l
15113 \fi
15114 \let\bidirTL@everypar\@empty%
15115 \def\baselinestretch{\m@m@footnote@spacing}%
15116 \reset@font\foottextfont
15117 \@preamfntext
15118 \protected@edef\@currentlabel{%
15119 \csname p@footnote\endcsname\@thefnmark}%
15120 \setbox0=\vbox{\hsize=\maxdimen
15121 \color@begingroup
15122 \noindent \@parafootfmt{#1}%
15123 \color@endgroup}%
15124 \m@mungebox}\m@mmf@prepare
15125 \if@RTL@footnote
15126 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15127 \else
15128 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15129 \fi
15130 }
15131 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15132 \let\bidirTL@everypar\@empty%
15133 \def\baselinestretch{\m@m@footnote@spacing}%
15134 \reset@font\LTRfoottextfont
15135 \@preamfntext

```



```

15136 \protected@edef\@currentlabel{%
15137   \csname p@footnote\endcsname\@thefnmark}%
15138 \setbox0=\vbox{\hsize=\maxdimen
15139   \color@begingroup
15140   \noindent \@paraLTRfootfmt{#1}%
15141   \color@endgroup}%
15142 \m@ungebox}\m@mmf@prepare}
15143 \newcommand{\@ParaLTRfootnotetext}[1]{%
15144   \bidi@step@absolutefootnote@count
15145   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15146   \global\setbox\footinsv@l\vbox{%
15147     \unvbox\footinsv@l
15148     \let\bidi@RTL@everypar\@empty%
15149     \def\baselinestretch{\m@m@footnote@spacing}%
15150     \reset@font\LTRfoottextfont
15151     \@preamfntext
15152     \protected@edef\@currentlabel{%
15153       \csname p@footnote\endcsname\@thefnmark}%
15154     \setbox0=\vbox{\hsize=\maxdimen
15155       \color@begingroup
15156       \noindent \@paraLTRfootfmt{#1}%
15157       \color@endgroup}%
15158     \m@ungebox}\m@mmf@prepare
15159     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15160 }
15161 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15162   \let\bidi@RTL@everypar\@empty%
15163   \def\baselinestretch{\m@m@footnote@spacing}%
15164   \reset@font\RTLfoottextfont
15165   \@preamfntext
15166   \protected@edef\@currentlabel{%
15167     \csname p@footnote\endcsname\@thefnmark}%
15168   \setbox0=\vbox{\hsize=\maxdimen
15169     \color@begingroup
15170     \noindent \@paraRTLfootfmt{#1}%
15171     \color@endgroup}%
15172   \m@ungebox}\m@mmf@prepare}
15173 \newcommand{\@ParaRTLfootnotetext}[1]{%
15174   \bidi@step@absolutefootnote@count
15175   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15176   \global\setbox\footinsv@r\vbox{%
15177     \unvbox\footinsv@r
15178     \let\bidi@RTL@everypar\@empty%
15179     \def\baselinestretch{\m@m@footnote@spacing}%
15180     \reset@font\RTLfoottextfont
15181     \@preamfntext
15182     \protected@edef\@currentlabel{%
15183       \csname p@footnote\endcsname\@thefnmark}%
15184     \setbox0=\vbox{\hsize=\maxdimen
15185       \color@begingroup
15186       \noindent \@paraRTLfootfmt{#1}%
15187       \color@endgroup}%
15188     \m@ungebox}\m@mmf@prepare
15189     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```



```

15190 }
15191 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15192   \parindent=\z@
15193   \parfillskip=0pt \@plus 1fil
15194   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15195 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15196   \parindent=\z@
15197   \parfillskip=0pt \@plus 1fil
15198   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15199 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15200   \parindent=\z@
15201   \parfillskip=0pt \@plus 1fil
15202   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15203 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15204   \global\setbox
15205     \if@RTL@footnote
15206       \@mpfootinsv@r
15207     \else
15208       \@mpfootinsv@l
15209     \fi
15210   \vbox{%
15211     \unvbox
15212     \if@RTL@footnote
15213       \@mpfootinsv@r
15214     \else
15215       \@mpfootinsv@l
15216     \fi
15217     \let\bidi@RTL@everypar\@empty
15218     \def\baselinestretch{\m@m@footnote@spacing}%
15219     \reset@font\foottextfont
15220     \hsize\columnwidth \@parboxrestore
15221     \protected@edef\@currentlabel{%
15222       \csname p@mpfootnote\endcsname\@thefnmark}%
15223     \setbox0=\vbox{\hsize=\maxdimen
15224       \color@begingroup
15225       \noindent \@parafootfmt{#1}%
15226       \color@endgroup}%
15227     \m@mungebox}\m@m@mmf@prepare}
15228 \newcommand{\@mpParafootnotetext}[1]{%
15229   \if@RTL@footnote
15230     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15231   \else
15232     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15233   \fi
15234   \global\setbox
15235     \if@RTL@footnote
15236       \@mpfootinsv@r
15237     \else
15238       \@mpfootinsv@l
15239     \fi
15240   \vbox{%
15241     \unvbox
15242     \if@RTL@footnote
15243       \@mpfootinsv@r

```



```

15244 \else
15245 \mpfootinsv@l
15246 \fi
15247 \let\bidirTL@everypar\@empty
15248 \def\baselinestretch{\m@m@footnote@spacing}%
15249 \reset@font\foottextfont
15250 \hsize\columnwidth \@parboxrestore
15251 \protected@edef\@currentlabel{%
15252 \csname p@mpfootnote\endcsname\@thefnmark}%
15253 \setbox0=\vbox{\hsize=\maxdimen
15254 \color@begingroup
15255 \noindent \@parafootfmt{#1}%
15256 \color@endgroup}%
15257 \m@ungebox}\m@m@prepare}
15258 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15259 \global\setbox\@mpfootinsv@l\vbox{%
15260 \unvbox\@mpfootinsv@l
15261 \let\bidirTL@everypar\@empty
15262 \def\baselinestretch{\m@m@footnote@spacing}%
15263 \reset@font\LTRfoottextfont
15264 \hsize\columnwidth \@parboxrestore
15265 \protected@edef\@currentlabel{%
15266 \csname p@mpfootnote\endcsname\@thefnmark}%
15267 \setbox0=\vbox{\hsize=\maxdimen
15268 \color@begingroup
15269 \noindent \@paraLTRfootfmt{#1}%
15270 \color@endgroup}%
15271 \m@ungebox}\m@m@prepare}
15272 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15273 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15274 \global\setbox\@mpfootinsv@l\vbox{%
15275 \unvbox\@mpfootinsv@l
15276 \let\bidirTL@everypar\@empty
15277 \def\baselinestretch{\m@m@footnote@spacing}%
15278 \reset@font\LTRfoottextfont
15279 \hsize\columnwidth \@parboxrestore
15280 \protected@edef\@currentlabel{%
15281 \csname p@mpfootnote\endcsname\@thefnmark}%
15282 \setbox0=\vbox{\hsize=\maxdimen
15283 \color@begingroup
15284 \noindent \@paraLTRfootfmt{#1}%
15285 \color@endgroup}%
15286 \m@ungebox}\m@m@prepare}
15287 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15288 \global\setbox\@mpfootinsv@r\vbox{%
15289 \unvbox\@mpfootinsv@r
15290 \let\bidirTL@everypar\@empty
15291 \def\baselinestretch{\m@m@footnote@spacing}%
15292 \reset@font\RTLfoottextfont
15293 \hsize\columnwidth \@parboxrestore
15294 \protected@edef\@currentlabel{%
15295 \csname p@mpfootnote\endcsname\@thefnmark}%
15296 \setbox0=\vbox{\hsize=\maxdimen
15297 \color@begingroup

```



```

15298      \noindent \@paraRTLfootfmt{#1}%
15299      \color@endgroup}%
15300      \m@ungebox}\m@mmf@prepare}
15301 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15302   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15303   \global\setbox\@mpfootinsv@r\vbox{%
15304     \unvbox\@mpfootinsv@r
15305     \let\bidi@RTL@everypar\@empty
15306     \def\baselinestretch{\m@m@footnote@spacing}%
15307     \reset@font\RTLfoottextfont
15308     \hsize\columnwidth \@parboxrestore
15309     \protected@edef\@currentlabel{%
15310       \csname p@mpfootnote@endcsname\@thefnmark}%
15311     \setbox0=\vbox{\hsize=\maxdimen
15312       \color@begingroup
15313       \noindent \@paraRTLfootfmt{#1}%
15314       \color@endgroup}%
15315     \m@ungebox}\m@mmf@prepare}
15316 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15317   \@namedef{@para@footgroup#1}{%
15318     \unvbox\@nameuse{footins#1}
15319     \@RTLtrue
15320     \m@mmakehboxofhboxes
15321     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15322     \hsize\bidi@columnwidth
15323     \@parboxrestore
15324     \def\baselinestretch{\m@m@footnote@spacing}%
15325     \@nameuse{foottextfont#1}%
15326     \noindent\unhbox0\par}}
15327 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15328   \@namedef{@para@LTRfootgroup#1}{%
15329     \unvbox\@nameuse{footins#1}
15330     \@RTLfalse
15331     \m@mmakehboxofhboxes
15332     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15333     \hsize\bidi@columnwidth
15334     \@parboxrestore
15335     \def\baselinestretch{\m@m@footnote@spacing}%
15336     \@nameuse{foottextfont#1}%
15337     \noindent\unhbox0\par}}
15338 \newcommand{\bidi@removexparafootskip}{%
15339   \advance\@tempskipa -\bidi@paraskip
15340   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15341 }
15342 \let\bidi@removexpafootskip\relax
15343 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15344   \@namedef{@mppara@footgroup#1}{%
15345     \unvbox\@nameuse{@mpfootins#1}
15346     \@RTLtrue
15347     \m@mmakehboxofhboxes
15348     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15349     \def\baselinestretch{\m@m@footnote@spacing}%
15350     \@nameuse{foottextfont#1}%
15351     \noindent\unhbox0\par}}

```



```

15352 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15353 \@namedef{@mppara@LTRfootgroup#1}{%
15354 \unvbox\@nameuse{@mpfootins#1}
15355 \RTLfalse
15356 \m@mmakehboxofhboxes
15357 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15358 \def\baselinestretch{\m@m@footnote@spacing}%
15359 \@nameuse{foottextfont#1}%
15360 \noindent\unhbox0\par}}
15361 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15362 \@namedef{@para@footstart#1}{%
15363 \leftskip=\z@
15364 \rightskip=\z@
15365 \parindent=\z@
15366 }%
15367 }
15368 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15369 \xdef\@freelist{\@freelist\@midlist}%
15370 \global\let\@midlist\@empty
15371 \@combinefloats}
15372 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15373 \ifvbox\@kludgeins
15374 \@makespecialcolbox
15375 \else
15376 \setbox\@outputbox \vbox to\@colht{%
15377 \@texttop
15378 \dimen@ \dp\@outputbox
15379 \unvbox \@outputbox
15380 \vskip -\dimen@
15381 \@textbottom}%
15382 \fi}
15383 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15384 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15385 \boxmaxdepth\@maxdepth
15386 \@tempdima\dp\@cclv
15387 \unvbox\@cclv
15388 \vskip-\@tempdima
15389 \bidi@mopfn@bottom
15390 \vskip \skip\footins
15391 \color@begingroup
15392 \normalcolor
15393 \footnoterule
15394 \unvbox \footins
15395 \color@endgroup
15396 }%
15397 }
15398 \newcommand*{\bidi@mopfootnotebf}{%
15399 \setbox\@outputbox \vbox{%
15400 \boxmaxdepth\@maxdepth
15401 \unvbox\@outputbox
15402 \bidi@mopfn@bottom
15403 \vskip\skip\footins
15404 \color@begingroup
15405 \normalcolor

```



```

15406 \footnoterule
15407 \unvbox \footins
15408 \color@endgroup
15409 }%
15410 }
15411 \gdef\mem@makecol{%
15412 \m@m@makecolintro
15413 \m@mdoextrafeet
15414 \ifvoid\footins
15415 \setbox\@outputbox \box\@cclv
15416 \else
15417 \m@mopfootnote
15418 \fi
15419 \m@m@makecolfloats
15420 \m@m@makecoltext
15421 \global \maxdepth \@maxdepth}
15422 \gdef\bidi@makecolbf{%
15423 \m@m@makecolintro
15424 \m@mdoextrafeet
15425 \setbox\@outputbox \box\@cclv
15426 \m@m@makecolfloats
15427 \ifvoid\footins
15428 \else
15429 \bidi@mopfootnotebf
15430 \fi
15431 \m@m@makecoltext
15432 \global \maxdepth \@maxdepth}
15433 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15434 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15435 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15436 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15437 \FeetAboveFloat
15438 \FeetBelowRagged
15439 \def\bidi@reinserts#1{\ifvoid#1\else
15440 \ifnum\count\@currbox>\z@
15441 \advance\@pageht \ht#1%
15442 \advance\@pageht \skip#1%
15443 \advance\@pageht \dp#1%
15444 \fi
15445 \insert#1{\unvbox#1}%
15446 \fi
15447 }
15448 \def\bidi@init@multi@footins#1{%
15449 \multiply\count#1\col@number
15450 \multiply\skip#1\col@number
15451 }
15452 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15453 \insert#1{}\fi}
15454 \AtBeginDocument{%
15455 \bidi@preto\@doclearpage\m@mdoextrafeet
15456 \g@addto@macro\@reinserts{%
15457 \bidi@reinserts\footinsv@r
15458 \bidi@reinserts\footinsv@l
15459 }

```




```

15460 \bidi@floathook
15461 \g@addto@macro\@floatplacement{%
15462   \bidi@ifmulticol{}\bidi@floathook}%
15463 }%
15464 \if@bidi@csundef{multi@column@out}{%
15465   \@onlypreamble\bidi@init@multi@footins
15466   \let\bidi@ifmulticol\@secondoftwo
15467 }{%
15468   \bidi@preto\multi@column@out\m@mdoextrafeet
15469   \g@addto@macro\init@mult@footins{%
15470     \bidi@init@multi@footins\footinsv@r
15471     \bidi@init@multi@footins\footinsv@l
15472   }%
15473   \g@addto@macro\reinsert@footnotes{%
15474     \bidi@reinsert@footnotes\footinsv@r
15475     \bidi@reinsert@footnotes\footinsv@l
15476   }%
15477 }%
15478 }

```

87 File extreport-xetex-bidi.def

```

15479 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15480 \renewcommand*\l@part[2]{%
15481   \ifnum \c@tocdepth >-2\relax
15482     \addpenalty{-\@highpenalty}%
15483     \addvspace{2.25em \@plus\p@}%
15484     \begingroup
15485       \setlength\@tempdima{3em}%
15486       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15487       \parfillskip -\@pnumwidth
15488       {\leavevmode
15489         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15490       \nobreak
15491       \global\@nobreaktrue
15492       \everypar{\global\@nobreakfalse\everypar{}}%
15493     \endgroup
15494   \fi}
15495 \renewcommand*\l@chapter[2]{%
15496   \ifnum \c@tocdepth >\m@ne
15497     \addpenalty{-\@highpenalty}%
15498     \vskip 1.0em \@plus\p@
15499     \setlength\@tempdima{1.5em}%
15500     \begingroup
15501       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15502       \parfillskip -\@pnumwidth
15503       \leavevmode \bfseries
15504       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15505       \hskip -\if@RTL\rightskip\else\leftskip\fi
15506       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15507       \penalty\@highpenalty
15508     \endgroup
15509   \fi}
15510 \def\@makechapterhead#1{%

```



```

15511 \vspace*{50\p@}%
15512 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15513 \ifnum \c@secnumdepth >\m@ne
15514 \huge\bfseries \@chapapp\space \thechapter
15515 \par\nobreak
15516 \vskip 20\p@
15517 \fi
15518 \interlinepenalty\@M
15519 \Huge \bfseries #1\par\nobreak
15520 \vskip 40\p@
15521 }}
15522 \def\@makeschapterhead#1{%
15523 \vspace*{50\p@}%
15524 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15525 \normalfont
15526 \interlinepenalty\@M
15527 \Huge \bfseries #1\par\nobreak
15528 \vskip 40\p@
15529 }}
15530 \renewcommand\left@footnoterule{%
15531 \kern-3\p@
15532 \hrule\@width.4\columnwidth
15533 \kern2.6\p@}
15534 \renewcommand\right@footnoterule{%
15535 \kern-3\p@
15536 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15537 \kern2.6\p@}
15538 \renewenvironment{thebibliography}[1]
15539 {\chapter*{\bibname
15540 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15541 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15542 \bidi@thebibliography@font@hook%
15543 \list{\@biblabel{\@arabic\c@enumiv}}%
15544 {\settowidth\labelwidth{\@biblabel{#1}}%
15545 \leftmargin\labelwidth
15546 \advance\leftmargin\labelsep
15547 \@openbib@code
15548 \usecounter{enumiv}%
15549 \let\p@enumiv\@empty
15550 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15551 \sloppy\clubpenalty4000\widowpenalty4000%
15552 \sfcode\.\@m}
15553 {\def\@noitemerr
15554 {\@latex@warning{Empty `thebibliography' environment}}%
15555 \endlist}
15556 \if@titlepage
15557 \renewcommand\maketitle{\begin{titlepage}%
15558 \let\footnotesize\small
15559 \let\right@footnoterule\relax
15560 \let\left@footnoterule\relax
15561 \let\textwidth\footnoterule\relax
15562 \let\footnote\thanks
15563 \null\vfil
15564 \vskip 60\p@

```



```

15565 \begin{center}%
15566   {\LARGE \@title \par}%
15567   \vskip 3em%
15568   {\large
15569     \lineskip .75em%
15570     \begin{tabular}[t]{c}%
15571       \@author
15572     \end{tabular}\par}%
15573   \vskip 1.5em%
15574   {\large \@date \par}%           % Set date in \large size.
15575 \end{center}\par
15576 \@thanks
15577 \vfil\null
15578 \end{titlepage}%
15579 \setcounter{footnote}{0}%
15580 \global\let\thanks\relax
15581 \global\let\maketitle\relax
15582 \global\let\@thanks\@empty
15583 \global\let\@author\@empty
15584 \global\let\@date\@empty
15585 \global\let\@title\@empty
15586 \global\let\title\relax
15587 \global\let\author\relax
15588 \global\let\date\relax
15589 \global\let\and\relax
15590 }
15591 \else
15592 \renewcommand\maketitle{\par
15593   \begingroup
15594     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15595     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15596     \long\def\@makefntext##1{\parindent 1em\noindent
15597       \hb@xt@1.8em{%
15598         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15599     \if@twocolumn
15600       \ifnum \col@number=\@ne
15601         \@maketitle
15602       \else
15603         \twocolumn[\@maketitle]%
15604       \fi
15605     \else
15606       \newpage
15607       \global\@topnum\z@   % Prevents figures from going at top of page.
15608       \@maketitle
15609     \fi
15610     \thispagestyle{plain}\@thanks
15611   \endgroup
15612   \setcounter{footnote}{0}%
15613   \global\let\thanks\relax
15614   \global\let\maketitle\relax
15615   \global\let\@maketitle\relax
15616   \global\let\@thanks\@empty
15617   \global\let\@author\@empty
15618   \global\let\@date\@empty

```



```

15619 \global\let\@title\@empty
15620 \global\let\title\relax
15621 \global\let\author\relax
15622 \global\let\date\relax
15623 \global\let\and\relax
15624 }
15625 \def\@maketitle{%
15626 \newpage
15627 \null
15628 \vskip 2em%
15629 \begin{center}%
15630 \let \footnote \thanks
15631 {\LARGE \@title \par}%
15632 \vskip 1.5em%
15633 {\large
15634 \lineskip .5em%
15635 \begin{tabular}[t]{c}%
15636 \@author
15637 \end{tabular}\par}%
15638 \vskip 1em%
15639 {\large \@date}%
15640 \end{center}%
15641 \par
15642 \vskip 1.5em}
15643 \fi
15644 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15645 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15646 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15647 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15648 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15649 \renewcommand\theequation{%
15650 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15651 \renewcommand\thefigure{%
15652 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15653 \renewcommand\thetable{%
15654 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

15655 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15656 \def\fancy@oval#1#2#3{%
15657 \boxmaxdepth \maxdimen
15658 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15659 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15660 \@ovxx#1\relax
15661 \advance\@ovxx-\@wholewidth
15662 \@ovyy#2\relax
15663 \advance\@ovyy-\@wholewidth
15664 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15665 \advance\@tempdimb-2\p@
15666 \ifdim\@tempdimb>\the@cornersize\relax
15667 \@tempdimb=\the@cornersize
15668 \fi
15669 \@getcirc\@tempdimb

```



```

15670 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15671 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15672 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15673 \@circlefnt
15674 \setbox\@tempboxa\hbox{\beginL%
15675   \if@ovr \@ovvert32\kern -\@tempdima \fi
15676   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15677   \if@ovt \@ovhorz \kern -\@ovxx \fi
15678   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15679 \advance\@ovdx\@ovro
15680 \advance\@ovdy\@ovro
15681 \advance\@ovxx\@wholewidth
15682 \wd\@tempboxa=\@ovxx
15683 \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

15684 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
15685
15686 \let\f@nch@everypar\everypar
15687
15688 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
15689 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
15690

```

90 File fix2col-xetex-bidi.def

```

15691 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15692 \def\RTL@outputdblcol{%
15693   \if@firstcolumn
15694     \global\@firstcolumnfalse
15695     \global\setbox\@leftcolumn\copy\@outputbox
15696     \splitmaxdepth\maxdimen
15697     \vbadness\maxdimen
15698     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15699     \toks@{\expandafter{\topmark}}%
15700     \xdef\@firstcoltopmark{\the\toks@}%
15701     \toks@{\expandafter{\splitfirstmark}}%
15702     \xdef\@firstcolfirstmark{\the\toks@}%
15703     \ifx\@firstcolfirstmark\@empty
15704       \global\let\@setmarks\relax
15705     \else
15706       \gdef\@setmarks{%
15707         \let\firstmark\@firstcolfirstmark
15708         \let\topmark\@firstcoltopmark}%
15709     \fi
15710   \else \global\@firstcolumntrue
15711     \setbox\@outputbox \vbox {\hbox to\textwidth {%
15712       \hskip \columnwidth
15713       \hfil \vrule width\columnseprule \hfil
15714       \hbox to\columnwidth {%
15715         \bidi@firstcolumn@status@write%
15716         \box\@leftcolumn \hss}%
15717       \hskip -\textwidth

```



```

15718 \hbox to\columnwidth{%
15719 \bidi@lastcolumn@status@write%
15720 \box\@outputbox \hss}%
15721 \hskip \columnsep
15722 \hskip \columnwidth }}%
15723 \@combinedblfloats \@setmarks \@outputpage
15724 \begingroup \@dblfloatplacement \@startdblcolumn
15725 \@whiles\if@fcolmade \fi
15726 {\@outputpage \@startdblcolumn }\endgroup
15727 \fi}
15728 \def\LTR@outputdblcol{%
15729 \if@firstcolumn
15730 \global\@firstcolumnfalse
15731 \global\setbox\@leftcolumn\copy\@outputbox
15732 \splitmaxdepth\maxdimen
15733 \vbadness\maxdimen
15734 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15735 \toks@\expandafter{\topmark}%
15736 \xdef\@firstcoltopmark{\the\toks@}%
15737 \toks@\expandafter{\splitfirstmark}%
15738 \xdef\@firstcolfirstmark{\the\toks@}%
15739 \ifx\@firstcolfirstmark\@empty
15740 \global\let\@setmarks\relax
15741 \else
15742 \gdef\@setmarks{%
15743 \let\firstmark\@firstcolfirstmark
15744 \let\topmark\@firstcoltopmark}%
15745 \fi
15746 \else
15747 \global\@firstcolumntrue
15748 \setbox\@outputbox\vbox{%
15749 \hb@xt@\textwidth{%
15750 \hb@xt@\columnwidth{%
15751 \bidi@firstcolumn@status@write%
15752 \box\@leftcolumn \hss}%
15753 \hfil
15754 \vrule \@width\columnseprule
15755 \hfil
15756 \hb@xt@\columnwidth{%
15757 \bidi@lastcolumn@status@write%
15758 \box\@outputbox \hss}}}%
15759 \@combinedblfloats
15760 \@setmarks
15761 \@outputpage
15762 \begingroup
15763 \@dblfloatplacement
15764 \@startdblcolumn
15765 \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15766 \endgroup
15767 \fi}

```

91 File fleqn-xetex-bidi.def

```

15768 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX

```



```

15769 \DeclareRobustCommand\{\relax
15770         \ifmmode\@badmath
15771         \else
15772             \begin{trivlist}%
15773             \@beginparpenalty\predisplaypenalty
15774             \@endparpenalty\postdisplaypenalty
15775             \item[]\leavevmode
15776             \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
15777             \hskip\mathindent\bgroup
15778         \fi}
15779 \DeclareRobustCommand\{\relax
15780         \ifmmode
15781             \egroup $\hfil% $
15782             \endL\egroup
15783             \end{trivlist}%
15784         \else \@badmath
15785         \fi}
15786 \renewenvironment{equation}%
15787     {\@beginparpenalty\predisplaypenalty
15788     \@endparpenalty\postdisplaypenalty
15789     \refstepcounter{equation}%
15790     \trivlist \item[]\leavevmode
15791     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15792     \displaystyle
15793     \hskip\mathindent}%
15794     {$\hfil % $
15795     \displaywidth\linewidth\hbox{\@eqnnum}%
15796     \endL\egroup
15797     \endtrivlist}

```

92 File float-xetex-bidi.def

```

15798 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15799 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15800 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15801 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15802 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
15803     \expandafter\edef\csname the#1\endcsname{%
15804     \expandafter\noexpand\csname
15805     the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15806     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

93 File floatrow-xetex-bidi.def

```

15807 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15808 \RequirePackage{color}
15809 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15810     \expandafter\edef\csname theFB@captype\endcsname{%
15811     \expandafter\noexpand\csname
15812     the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}%

```

94 File flowfram-xetex-bidi.def

```

15813 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package

```



```

15814 \def\@outputdblcol{%
15815 \@nxtcol=\c@thisframe
15816 \c@curpg=\c@page
15817 \@g@tnextcol{\@nxtcol}%
15818 \if@ff@nwpg % next flow frame starts on new page
15819 \global\@firstcolumntrue
15820 \setcolbox\c@thisframe
15821 \if@specialpage
15822 \global\@specialpagefalse
15823 \nameuse{ps@\@specialstyle}\relax
15824 \fi
15825 \if@twoside
15826 \ifodd\count\z@
15827 \let\@thehead\@oddhead
15828 \let\@thefoot\@oddfoot
15829 \else
15830 \let\@thehead\@evenhead
15831 \let\@thefoot\@evenfoot
15832 \fi
15833 \else
15834 \let\@thehead\@oddhead
15835 \let\@thefoot\@oddfoot
15836 \fi
15837 \@begindvi
15838 \@dynamicthehead\@dynamicthefoot
15839 \vbadness=\@M
15840 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15841 \@combinedblfloats
15842 \@outputpage
15843 \advance\c@curpg by -\c@page\relax
15844 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15845 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
15846 \@outputpage}
15847 \begingroup
15848 \dblfloatplacement
15849 \startdblcolumn
15850 \@whilesw \if@fcolmade \fi
15851 {\@outputpage \@startdblcolumn }\endgroup
15852 \resetst@tics
15853 \resetdyn@mics
15854 \else % still on same page, save contents of box255
15855 \global\@firstcolumnfalse
15856 \setcolbox\c@thisframe
15857 \fi
15858 \global\c@thisframe=\@nxtcol
15859 \setcol{\c@thisframe}\relax
15860 \global\@colht\vsiz
15861 }
15862 \def\@outputpage{%
15863 \begingroup
15864 \let\protect\noexpand
15865 \resetactivechars
15866 \global\let\@if@newlist@if@newlist
15867 \global\@newlistfalse\@parboxrestore

```




```

15868 \global\let\bidibeforeoutputpageshipout\@firstofone
15869 \bidibeforeoutputpageshipouthook
15870 \shipout\vbox{\set@typeset@protect
15871   \aftergroup
15872   \endgroup
15873   \aftergroup
15874   \set@typeset@protect
15875   \reset@font\normalsize
15876   \bidifont@@outputpage
15877   \normalsfcodes
15878   \let\label\@gobble
15879   \let\index\@gobble
15880   \let\glossary\@gobble
15881   \baselineskip\z@skip
15882   \lineskip\z@skip
15883   \lineskiplimit\z@
15884   \vskip\topmargin\moveright\@themargin
15885   \vbox{%
15886     \global\let\bidibeforeheader\@firstofone
15887     \bidibeforeheaderhook
15888     \vskip\headheight
15889     \vskip\headsep
15890     \global\let\bidibeforeoutputboxoutputpage\@firstofone
15891     \bidibeforeoutputboxoutputpagehook
15892     \box\@outputbox
15893     \global\let\bidiafteroutputboxoutputpage\@firstofone
15894     \bidiafteroutputboxoutputpagehook
15895   }}%
15896 \global\let\bidiafteroutputpageshipout\@firstofone
15897 \bidiafteroutputpageshipouthook
15898 \global\let\if@newlist\@if@newlist
15899 \stepcounter{page}%
15900 \setcounter{displayedframe}{0}%
15901 \let\firstmark\botmark
15902 \global\let\bidiatendoutputpage\@firstofone
15903 \bidiatendoutputpagehook
15904 }
15905
15906
15907 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
15908 \expandafter\bidicolor\ff@txtcol}}
15909
15910 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
15911 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}}
15912
15913
15914 \renewcommand*\@docolbox}[1]{%
15915 \edef\ff@frametype{%
15916 \csname @ff@frametype@\romannumeral#1\endcsname}%
15917 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15918 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15919 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15920 \@ff@setoffset{#1}%
15921 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%

```



```

15922 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
15923 \@@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15924 {\csname colheight\romannumeral#1\endcsname}{%
15925 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15926 \csname\ff@frametype\endcsname}%
15927 }{%
15928 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15929 {\csname colheight\romannumeral#1\endcsname}{%
15930 \expandafter\box\csname column\romannumeral#1\endcsname}%
15931 }}}
15932 \IfClassLoadedT{book}{%
15933 \renewcommand\theequation
15934 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15935 \renewcommand \thefigure
15936 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15937 \renewcommand \thetable
15938 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15939 \renewcommand \thechapter {\@arabic\c@chapter}
15940 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15941 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15942 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15943 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15944 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15945 \IfClassLoadedT{report}{%
15946 \renewcommand\theequation
15947 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15948 \renewcommand \thefigure
15949 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15950 \renewcommand \thetable
15951 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15952 \renewcommand \thechapter {\@arabic\c@chapter}
15953 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15954 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15955 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15956 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15957 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15958 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15959 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
15960 \else
15961 #2\relax
15962 \fi}

```

95 File footnote-xetex-bidi.def

```

15963 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15964 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15965 \newif\ifbidi@autofooterule
15966 \def\bidi@mpfootnoterule{\footnoterule}
15967 \newcounter{footdir@label}
15968 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15969 \newcommand*{\footdir@write}{%
15970 \stepcounter{footdir@label}%
15971 \zref@labelbyprops{\thefootdir@label}{abspage}%
15972 }

```



```

15973 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15974 \newtoks\footdir@toks
15975 \newcommand*{\footdir@debug}[1]{%
15976   \iffootdir@debug
15977     \typeout{\footdir] #1}%
15978   \fi
15979 }
15980 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
15981 %   \newcommand*{\footdir@LeftRightElse}{%
15982 %     \ltx@ifundefined{footdir@the\value{zabspage}}{%
15983 %       \footdir@debug{abspage \the\value{zabspage}: else}%
15984 %     \ltx@thirdofthree
15985 %   }{%
15986 %     \if\csname footdir@the\value{zabspage}\endcsname L%
15987 %       \footdir@debug{abspage \the\value{zabspage}: left}%
15988 %     \expandafter\ltx@firstofthree
15989 %   \else
15990 %     \footdir@debug{abspage \the\value{zabspage}: right}%
15991 %     \expandafter\ltx@secondofthree
15992 %   \fi
15993 % }%
15994 % }%
15995 %}{%
15996 \providecommand*{\c@zabspage}{\c@abspage}%
15997 \newcommand*{\footdir@LeftRightElse}{%
15998   \footdir@write
15999   \zifrefundefined{\thefootdir@label}{%
16000     \footdir@debug{abspage ??: else}%
16001     \ltx@thirdofthree
16002   }{%
16003     \edef\footdir@abspage{%
16004       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16005     }%
16006     \ltx@ifundefined{footdir@\footdir@abspage}{%
16007       \footdir@debug{\footdir@abspage: else}%
16008       \ltx@thirdofthree
16009     }{%
16010       \if\csname footdir@\footdir@abspage\endcsname L%
16011         \footdir@debug{\footdir@abspage: left}%
16012         \expandafter\ltx@firstofthree
16013       \else
16014         \footdir@debug{\footdir@abspage: right}%
16015         \expandafter\ltx@secondofthree
16016       \fi
16017     }%
16018   }%
16019 }%
16020 %}
16021 \newcommand*{\footdir@fntext}[1]{%
16022   \zifrefundefined{\thefootdir@label}{%
16023   }{%
16024     \edef\footdir@name{%
16025       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16026     }%

```



```

16027 \ifundefined{\footdir@name}{%
16028 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16029 }{}%
16030 }%
16031 }
16032
16033 \newcommand*{\footdir@temp}[3]{%
16034 \ifdefinable{#1}{%
16035 \let#1#2%
16036 \renewcommand{#2}[1]{%
16037 \footdir@write
16038 \footdir@fntext{#3}%
16039 \stepcounter{footdir@label}%
16040 \footdir@fntext{#3}%
16041 \footdir@toks{##1}%
16042 \footdir@toks\expandafter{%
16043 \the\expandafter\footdir@toks
16044 \expandafter
16045 \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
16046 }%
16047 \expandafter#1\expandafter{\the\footdir@toks}%
16048 }%
16049 }%
16050 }
16051
16052 \def\right@footnoterule{%
16053 \kern-3\p@
16054 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16055 \kern2.6\p@}
16056 \def\left@footnoterule{\kern-3\p@
16057 \hrule \@width .4\columnwidth \kern 2.6\p@}
16058 \def\textwidth@footnoterule{\kern-3\p@
16059 \hrule \@width \columnwidth \kern 2.6\p@}
16060 \def\leftfootnoterule{%
16061 \bidi@autofootnoterulefalse%
16062 \def\footnoterule{\left@footnoterule}}
16063 \let\LRfootnoterule=\leftfootnoterule
16064 \def\rightfootnoterule{%
16065 \bidi@autofootnoterulefalse%
16066 \def\footnoterule{\right@footnoterule}}
16067 \def\textwidthfootnoterule{%
16068 \bidi@autofootnoterulefalse%
16069 \def\footnoterule{\textwidth@footnoterule}}
16070
16071
16072
16073 \def\auto@footnoterule{%
16074 \footdir@LeftRightElse%
16075 \left@footnoterule%
16076 \right@footnoterule%
16077 \left@footnoterule%
16078 }
16079
16080

```



```

16081
16082 \def\autofootnoterule{%
16083 \bidi@autofootnoteruletrue%
16084 \def\footnoterule{\auto@footnoterule}%
16085 }
16086
16087 \newcommand*{\SplitFootnoteRule}{%
16088 \gdef\split@prev{0}
16089 \let\pagefootnoterule\footnoterule
16090 \let\mpfootnoterule\footnoterule
16091 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16092 \def\footnoterule{\relax
16093 \ifx \@listdepth\@mplistdepth
16094 \mpfootnoterule
16095 \else
16096 \ifnum\split@prev=\z@
16097 \pagefootnoterule
16098 \else
16099 \splitfootnoterule
16100 \fi
16101 \xdef\split@prev{\the\insertpenalties}%
16102 \fi
16103 }%
16104 }
16105
16106
16107
16108
16109 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16110 \protected@xdef\@thefnmark{\thempfn}%
16111 \@footnotemark\@RTLfootnotetext}}
16112 \def\@xRTLfootnote[#1]{%
16113 \begingroup
16114 \csname c@\@mpfn\endcsname #1\relax
16115 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16116 \endgroup
16117 \@footnotemark\@RTLfootnotetext}
16118 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16119 \protected@xdef\@thefnmark{\thempfn}%
16120 \@footnotemark\@LTRfootnotetext}}
16121 \def\@xLTRfootnote[#1]{%
16122 \begingroup
16123 \csname c@\@mpfn\endcsname #1\relax
16124 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16125 \endgroup
16126 \@footnotemark\@LTRfootnotetext}
16127
16128
16129 \def\setfootnoteRL{\@RTL@footnotetrue}
16130 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16131 \def\setfootnoteLR{\unsetfootnoteRL}
16132
16133 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16134 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}

```



```

16135 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16136
16137 \long\def\@footnotetext#1{\insert\footins{%
16138   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16139   \reset@font%
16140   \bidi@@footnotetext@font% \reset@font\footnotesize
16141   \interlinepenalty\interfootnotelinepenalty
16142   \splittopskip\footnotesep
16143   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16144   \hsize\columnwidth \@parboxrestore
16145   \protected@edef\@currentlabel{%
16146     \csname p@footnote\endcsname\@thefnmark
16147   }%
16148   \color@begingroup
16149     \@makefntext{%
16150       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16151     \color@endgroup}}%
16152
16153
16154 \long\def\@RTLfootnotetext#1{\insert\footins{%
16155   \@RTLtrue%
16156   \reset@font%
16157   \bidi@@RTLfootnotetext@font% \reset@font\footnotesize
16158   \interlinepenalty\interfootnotelinepenalty
16159   \splittopskip\footnotesep
16160   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16161   \hsize\columnwidth \@parboxrestore
16162   \protected@edef\@currentlabel{%
16163     \csname p@footnote\endcsname\@thefnmark
16164   }%
16165   \color@begingroup
16166     \@makefntext{%
16167       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16168     \color@endgroup}}%
16169
16170 \long\def\@LTRfootnotetext#1{\insert\footins{%
16171   \@RTLfalse%
16172   \reset@font%
16173   \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
16174   \interlinepenalty\interfootnotelinepenalty
16175   \splittopskip\footnotesep
16176   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16177   \hsize\columnwidth \@parboxrestore
16178   \protected@edef\@currentlabel{%
16179     \csname p@footnote\endcsname\@thefnmark
16180   }%
16181   \color@begingroup
16182     \@makefntext{%
16183       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16184     \color@endgroup}}%
16185
16186 \AtBeginDocument{%
16187 \if@RTL@footnote
16188   \newcommand*{\bidi@footdir@footnote}{R}

```



```

16189 \else
16190   \newcommand*{\bidi@footdir@footnote}{L}
16191 \fi%
16192 }
16193
16194 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16195 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16196 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16197
16198 \long\def\@mpRTLfootnotetext#1{%
16199   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule%
16200   \global\setbox\@mpfootins\vbox{%
16201     \unvbox\@mpfootins
16202     \@RTLtrue
16203     \reset@font%
16204     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16205     \hsize\columnwidth
16206     \@parboxrestore
16207     \protected@edef\@currentlabel
16208       {\csname p@mpfootnote\endcsname\@thefnmark}%
16209     \color@begingroup
16210       \@makefntext{%
16211         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16212     \color@endgroup}}
16213 \long\def\@mpLTRfootnotetext#1{%
16214   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule%
16215   \global\setbox\@mpfootins\vbox{%
16216     \unvbox\@mpfootins
16217     \@RTLfalse
16218     \reset@font%
16219     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16220     \hsize\columnwidth
16221     \@parboxrestore
16222     \protected@edef\@currentlabel
16223       {\csname p@mpfootnote\endcsname\@thefnmark}%
16224     \color@begingroup
16225       \@makefntext{%
16226         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16227     \color@endgroup}}
16228 \long\def\@mpfootnotetext#1{%
16229   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule\left@footnoterule%
16230   \global\setbox\@mpfootins\vbox{%
16231     \unvbox\@mpfootins
16232     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
16233     \reset@font%
16234     \bidi@footnotetext@font% \reset@font\footnotesize
16235     \hsize\columnwidth
16236     \@parboxrestore
16237     \protected@edef\@currentlabel
16238       {\csname p@mpfootnote\endcsname\@thefnmark}%
16239     \color@begingroup
16240       \@makefntext{%
16241         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16242     \color@endgroup}}

```



```

16243 \def\@iiiminipage#1#2[#3]#4{%
16244   \leavevmode
16245   \@pboxswfalse
16246   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16247   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16248   \setlength\@tempdima{#4}%
16249   \def\@mpargs{#1}#2[#3]{#4}}%
16250   \setbox\@tempboxa\vbox\bgroup
16251     \color@begingroup
16252     \hsize\@tempdima
16253     \textwidth\hsize \columnwidth\hsize
16254     \@parboxrestore
16255     \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16256     \let\@footnotetext\@mpfootnotetext
16257     \let\@LTRfootnotetext\@mpLTRfootnotetext
16258     \let\@RTLfootnotetext\@mpRTLfootnotetext
16259     \let\@listdepth\@mplistdepth \@mplistdepth\z@
16260     \@minipagerestore
16261     \@setminipage}
16262 \def\endminipage{%
16263   \par
16264   \unskip
16265   \ifvoid\@mpfootins\else
16266     \vskip\skip\@mpfootins
16267     \normalcolor
16268     \bidi@mpfootnoterule
16269     \unvbox\@mpfootins
16270   \fi
16271   \@minipagefalse %% added 24 May 89
16272   \color@endgroup
16273   \egroup
16274   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16275 \def\LTRthanks#1{\footnotemark
16276   \protected@xdef\@thanks{\@thanks
16277     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16278 }
16279 \def\LTRfootnotetext{%
16280   \@ifnextchar [\@xLTRfootnotenext
16281     {\protected@xdef\@thefnmark{\thempfn}%
16282     \@LTRfootnotetext}}
16283 \def\@xLTRfootnotenext[#1]{%
16284   \begingroup
16285     \csname c@\@mpfn\endcsname #1\relax
16286     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16287   \endgroup
16288   \@LTRfootnotetext}
16289 \def\RTLthanks#1{\footnotemark
16290   \protected@xdef\@thanks{\@thanks
16291     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16292 }
16293 \let\@thanks\@empty
16294 \def\RTLfootnotetext{%
16295   \@ifnextchar [\@xRTLfootnotenext
16296     {\protected@xdef\@thefnmark{\thempfn}%

```




```

16297 \RTLfootnotetext}}
16298 \def\@xRTLfootnotenext[#1]{%
16299 \begingroup
16300 \csname c@\@mpfn\endcsname #1\relax
16301 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16302 \endgroup
16303 \RTLfootnotetext}
16304 \leftfootnoterule

```

96 File footnotebackref-xetex-bidi.def

```

16305 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16306 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16307 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16308
16309 \renewcommand*\LTRfootnote{%
16310 \refstepcounter{BackrefHyperFootnoteCounter}%
16311 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16312 \label{\BackrefFootnoteTag}%
16313 \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16314
16315 \renewcommand*\RTLfootnote{%
16316 \refstepcounter{BackrefHyperFootnoteCounter}%
16317 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16318 \label{\BackrefFootnoteTag}%
16319 \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16320 \newcommand\Backref@HyperLTRFootnote[1]{%
16321 \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16322
16323 \newcommand\Backref@HyperRTLFootnote[1]{%
16324 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16325
16326 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16327 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16328
16329 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16330 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16331
16332 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16333 \ifFootnoteBackref@numberlinked
16334 \renewcommand{\footfootmark}{%
16335 \ifdim\footmarkwidth < \z@
16336 \llap{\hb@xt@ -\footmarkwidth{%
16337 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16338 \hspace*{-\footmarkwidth}}}%
16339 \else
16340 \ifdim\footmarkwidth = \z@
16341 {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16342 \else
16343 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16344 \fi
16345 \fi}
16346 \renewcommand{\LTRfootfootmark}{%
16347 \ifdim\footmarkwidth < \z@

```



```

16348 \llap{\hb@xt@ -\footmarkwidth{%
16349 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16350 \hspace*{-\footmarkwidth}}%
16351 \else
16352 \ifdim\footmarkwidth = \z@
16353 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16354 \else
16355 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16356 \fi
16357 \fi}
16358 \renewcommand{\RTLfootfootmark}{%
16359 \ifdim\footmarkwidth < \z@
16360 \llap{\hb@xt@ -\footmarkwidth{%
16361 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16362 \hspace*{-\footmarkwidth}}%
16363 \else
16364 \ifdim\footmarkwidth = \z@
16365 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16366 \else
16367 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16368 \fi
16369 \fi}
16370 \fi
16371 }

```

97 File framed-xetex-bidi.def

```

16372 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
16373 \renewcommand\TitleBarFrame[3][\begingroup
16374 \ifx\delimiter#1\delimiter
16375 \let\TF@conlab\empty
16376 \else
16377 \def\TF@conlab{% continuation label
16378 \nointerlineskip
16379 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
16380 \fi
16381 %\let\TF@savecolor\current@color
16382 \textcolor{TFFrameColor}{%
16383 \CustomFBox
16384 {\TF@Title{#2}}{\TF@conlab}%
16385 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
16386 %{\let\current@color\TF@savecolor\set@color #3}%
16387 {\normalcolor #3}%
16388 }\endgroup
16389 }
16390 \renewenvironment{titled-frame}[1]{%
16391 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
16392 \TitleBarFrame{\textbf{#1}}}%
16393 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
16394 \TitleBarFrame[\if@RTL\blacktriangleleft\else\blacktriangleright\fi]{\textbf{#1}}}%
16395 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
16396 \TitleBarFrame[\if@RTL\blacktriangleleft\else\blacktriangleright\fi]{\textbf{#1\ (cont)}}}%
16397 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
16398 \TitleBarFrame{\textbf{#1\ (cont)}}}%

```



```

16399 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16400 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16401 % could interfere with the width measurement.
16402 {\endMakeFramed}
16403 \chardef\FrameRestore=\catcode`\| % for debug
16404 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16405 \def\fb@put@frame#1#2{\relax
16406 \ifdim\pagegoal=\maxdimen \pagegoal\vsizerelax
16407 | \message{===== Entering putframe =====^^J
16408 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16409 \ifinner
16410 \fb@putboxa#1%
16411 \fb@afterframe
16412 \else
16413 \dimen@=\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16414 \ifdim\dimen@<2\baselineskip % Too little room on page
16415 | \message{Page has only \the\dimen@space room left; eject.}%
16416 \eject \fb@adjheight \fb@put@frame#1#2%
16417 \else % there's appreciable room left on the page
16418 \fb@sizeofframe#1%
16419 | \message{\string\pagetotal=\the\pagetotal,
16420 | \string\pagegoal=\the\pagegoal,
16421 | \string\pagestretch=\the\pagestretch,
16422 | \string\pageshrink=\the\pageshrink,
16423 | \string\fb@frh=\the\fb@frh. \space}
16424 | \message{^^JBox of size \the\ht@tempboxa\space}%
16425 \begingroup % temporarily set \dimen@ to be...
16426 \advance\dimen@.8\pageshrink % maximum space available on page
16427 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16428 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16429 \expandafter\endgroup
16430 % expand \ifdim, then restore \dimen@ to real room left on page
16431 \ifdim\dimen@>\ht@tempboxa % whole box does fit
16432 | \message{fits in \the\dimen@.}%
16433 % ToDo: Change this to use vsplit anyway to capture the marks
16434 % MERGE THIS WITH THE else CLAUSE!!!
16435 \fb@putboxa#1%
16436 \fb@afterframe
16437 \else % box must be split
16438 | \message{must be split to fit in \the\dimen@.}%
16439 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16440 \fb@sizeofframe#2%
16441 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16442 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16443 \kern137sp\kern-137sp\penalty-30
16444 \unvbox\@tempboxa}%
16445 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16446 \splittopskip\the\splittopskip}%
16447 \boxmaxdepth\z@ \splittopskip\z@
16448 | \message{^^JBox of size \the\ht@tempboxa\space split to \the\dimen@}%
16449 % Split box here
16450 \setbox\@tw@vsplit\@tempboxa to\dimen@
16451 | \toks99\expandafter{\splitfirstmark}%
16452 | \toks98\expandafter{\splitbotmark}%

```



```

16453 | \message{Marks are: \the\toks99, \the\toks98. }%
16454 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16455 | \message{Natural height of split box is \the\ht\tw@, leaving
16456 | \the\ht\@tempboxa\space remainder. }%
16457 | % If the split-to size > (\vsize-\topskip), then set box to full size.
16458 | \begingroup
16459 | \advance\dimen@\topskip
16460 | \expandafter\endgroup
16461 | \ifdim\dimen@>\pagegoal
16462 | \message{Frame is big -- Use up the full column. }%
16463 | \dimen@ii\pagegoal
16464 | \advance\dimen@ii -\topskip
16465 | \advance\dimen@ii \FrameHeightAdjust\relax
16466 | \else % suspect this is implemented incorrectly:
16467 | % If the split-to size > feasible room_on_page, rebox it smaller.
16468 | \advance\dimen@.8\pageshrink
16469 | \ifdim\ht\tw@>\dimen@
16470 | \message{Box too tall; rebox it to \the\dimen@. }%
16471 | \dimen@ii\dimen@
16472 | \else % use natural size
16473 | \dimen@ii\ht\tw@
16474 | \fi
16475 | \fi
16476 | % Re-box contents to desired size \dimen@ii
16477 | \advance\dimen@ii -\fb@frh
16478 | \setbox\tw@\vbox to\dimen@ii \bgroup
16479 | % remove simulated frame and page flexibility:
16480 | \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16481 | \unvbox\tw@ \unpenalty\unpenalty
16482 | \ifdim\lastkern=-137sp % whole box went to next page
16483 | \message{box split at beginning! }%
16484 | % need work here???
16485 | \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16486 | \fb@adjheight
16487 | \fb@put@frame#1#2% INSERTED ???
16488 | \else % Got material split off at the head
16489 | \egroup \fb@resto@set
16490 | \ifvoid\@tempboxa % it all fit after all
16491 | \message{box split at end! }%
16492 | \setbox\@tempboxa\box\tw@
16493 | \fb@putboxa#1%
16494 | \fb@afterframe
16495 | \else % it really did split
16496 | \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16497 | \ifdim\wd\tw@>\z@
16498 | \wd\tw@\wd\@tempboxa
16499 | \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16500 | \else
16501 | \message{Zero width means likely blank. Don't frame it (guess)}%
16502 | \box\tw@
16503 | \fi
16504 | \hrule \@height\z@ \@width\hsize
16505 | \eject
16506 | \fb@adjheight

```



```

16507          \fb@put@frame\LastFrameCommand\MidFrameCommand
16508 \fi\fi\fi\fi\fi
16509 }
16510 \def\fb@putboxa#1{%
16511   \ifvoid\@tempboxa
16512     \PackageWarning{framed}{Boxa is void -- discard it. }%
16513   \else
16514 |   \message{Frame and place boxa. }%
16515 |   %{\showoutput\showbox\@tempboxa}%
16516   \centerline{#1{\hboxL{\box\@tempboxa}}}%
16517 \fi
16518 }
16519 \catcode`\|=\FrameRestore
16520 \def\FrameRestore{%
16521   \let\if@nobreak\iffalse
16522   \let\if@noskipsec\iffalse
16523   \let\-\@dischph
16524   \let'\@acci\let'\@accii\let\=\@acciii
16525   % \message{FrameRestore:
16526   %   \@totalleftmargin=\the \@totalleftmargin,
16527   %   \rightmargin=\the\rightmargin,
16528   %   \@listdepth=\the\@listdepth. }%
16529   % Test if we are in a list (or list-like paragraph)
16530   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
16531     \ifdim\rightmargin>\z@ 1\fi
16532     \ifnum\@listdepth>\z@ 1\fi 0>\z@
16533     %   \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
16534     %   \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16535     %   \labelwidth=\the\labelwidth. }%
16536     \@setminipage % snug fit around the item
16537     % Now try to propagate changes of width from \hsize to list parameters.
16538     % This is deficient, but a more advanced way to indicate modification to text
16539     % dimensions is not (yet) provided; in particular, no separate left/right
16540     % adjustment.
16541     \advance\linewidth-\columnwidth \advance\linewidth\hsize
16542     \parshape\@ne \@totalleftmargin \linewidth
16543   \else % Not in list
16544     \linewidth=\hsize
16545     %\message{No list, set \string\linewidth=\the\hsize. }%
16546   \fi
16547   \sloppy
16548 }

```

98 File ftnright-xetex-bidi.def

```

16549 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16550
16551 \def\prepare@bidi@copyins{%
16552   \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16553   \global\skip\@bidi@copyins@\z@
16554   \global\count\@bidi@copyins@\z@
16555   \global\dimen\@bidi@copyins@\textheight}
16556
16557 \newskip\bidi@rcol@copyinsskip

```



```

16558
16559 \def\LTR@outputdblcol{%
16560   \if@firstcolumn
16561     \global\@firstcolumnfalse
16562     \global\setbox\@leftcolumn\copy\@outputbox
16563     \global\count\footins\@m
16564     \global\skip\footins\rcol@footinsskip
16565     \global\count\@bidi@copyins\@m
16566     \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16567     \splitmaxdepth\maxdimen
16568     \vbadness\maxdimen
16569     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16570     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16571     \toks@\expandafter{\topmark}%
16572     \xdef\@firstcoltopmark{\the\toks@}%
16573     \toks@\expandafter{\splitfirstmark}%
16574     \xdef\@firstcolfirstmark{\the\toks@}%
16575     \ifx\@firstcolfirstmark\@empty
16576       \global\let\@setmarks\relax
16577     \else
16578       \gdef\@setmarks{%
16579         \let\firstmark\@firstcolfirstmark
16580         \let\topmark\@firstcoltopmark}%
16581     \fi
16582   \else
16583     \preparefootins
16584     \prepare@bidi@copyins
16585     \global\@firstcolumntrue
16586     \setbox\@outputbox\vbox{%
16587       \hb@xt@\textwidth{%
16588         \hb@xt@\columnwidth{%
16589           \bidi@firstcolumn@status@write%
16590           \box\@leftcolumn \hss}%
16591       \hfil
16592       {\normalcolor\vrule \@width\columnseprule}%
16593       \hfil
16594       \hb@xt@\columnwidth{%
16595         \bidi@lastcolumn@status@write%
16596         \box\@outputbox \hss}}}%
16597   \@combinedblfloats
16598   \@setmarks
16599   \@outputpage
16600   \begingroup
16601     \@dblfloatplacement
16602     \@startdblcolumn
16603     \@whilesw@if@fcolmade \fi{\@outputpage
16604       \@startdblcolumn}%
16605   \endgroup
16606 \fi}%
16607
16608 \def\RTL@outputdblcol{%
16609   \if@firstcolumn
16610     \global\@firstcolumnfalse
16611     \global\setbox\@leftcolumn\copy\@outputbox

```



```

16612 \global\count\footins\@m
16613 \global\skip\footins\rcol@footinsskip
16614 \global\count\@bidi@copyins\@m
16615 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16616 \splitmaxdepth\maxdimen
16617 \vbadness\maxdimen
16618 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16619 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16620 \toks@\expandafter{\topmark}%
16621 \xdef\@firstcoltopmark{\the\toks@}%
16622 \toks@\expandafter{\splitfirstmark}%
16623 \xdef\@firstcolfirstmark{\the\toks@}%
16624 \ifx\@firstcolfirstmark\@empty
16625 \global\let\@setmarks\relax
16626 \else
16627 \gdef\@setmarks{%
16628 \let\firstmark\@firstcolfirstmark
16629 \let\topmark\@firstcoltopmark}%
16630 \fi
16631 \else
16632 \preparefootins
16633 \prepare@bidi@copyins
16634 \global\@firstcolumntrue
16635 \setbox\@outputbox\vbox{%
16636 \hb@xt@\textwidth{%
16637 \hskip \columnwidth
16638 \hfil
16639 {\normalcolor\vrule \@width\columnseprule}%
16640 \hfil
16641 \hb@xt@\columnwidth{%
16642 \bidi@firstcolumn@status@write%
16643 \box\@leftcolumn \hss}%
16644 \hskip -\textwidth
16645 \hb@xt@\columnwidth{%
16646 \bidi@lastcolumn@status@write%
16647 \box\@outputbox \hss}%
16648 \hskip \columnsep
16649 \hskip \columnwidth }}%
16650 \@combinedblfloats
16651 \@setmarks
16652 \@outputpage
16653 \begingroup
16654 \@dblfloatplacement
16655 \@startdblcolumn
16656 \@whiles\if@fcolmade \fi{\@outputpage
16657 \@startdblcolumn}%
16658 \endgroup
16659 \fi}%
16660
16661 \def\@startcolumn{%
16662 \ifx\@deferlist\@empty
16663 \global\@fcolmadefalse
16664 \global\@colroom\@colht
16665 \else

```



```

16666 \ifvoid\footins\else
16667 \ftn@amount\ht\footins
16668 \advance\ftn@amount\dp\footins
16669 \advance\ftn@amount\skip\footins
16670 \fi
16671 \ifvoid\@bidi@copyins@\else
16672 \bidi@copyins@amount\ht\@bidi@copyins@
16673 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16674 \advance\bidi@copyins@amount\skip\@bidi@copyins@
16675 \fi
16676 \global\advance\@colht-\ftn@amount
16677 \global\advance\@colht-\bidi@copyins@amount
16678 \global\@colroom\@colht
16679 \@xstartcol
16680 \global\advance\@colht\ftn@amount
16681 \global\advance\@colroom\ftn@amount
16682 \global\advance\@colht\bidi@copyins@amount
16683 \global\advance\@colroom\bidi@copyins@amount
16684 \fi
16685 \if@fcolmade
16686 \setbox\@cclv\box\@outputbox
16687 \@makecol
16688 \else
16689 \ifvoid\footins\else
16690 \insert\footins{\unvbox\footins}\fi
16691 \ifvoid\@bidi@copyins@\else
16692 \insert\@bidi@copyins@\unvbox\@bidi@copyins@\fi
16693 \fi}
16694
16695 \newdimen\bidi@copyins@amount
16696
16697 \def\@makecol{\if@firstcolumn
16698 \setbox\@outputbox\box\@cclv
16699 \if@twocolumn \else
16700 \ifvoid\footins \else
16701 \@latexerr{ftnright package
16702 used in one-column mode}%
16703 {The ftnright package was designed to
16704 work with LaTeX's standard^^Jtwocolumn
16705 option. It does *not* work with the
16706 multicol package.^^JSo please specify
16707 `twocolumn' in the
16708 \noexpand\documentclass command.}%
16709 \shipout\box\footins \fi
16710 \ifvoid\@bidi@copyins@ \else
16711 \@latexerr{ftnright package
16712 used in one-column mode}%
16713 {The ftnright package was designed to
16714 work with LaTeX's standard^^Jtwocolumn
16715 option. It does *not* work with the
16716 multicol package.^^JSo please specify
16717 `twocolumn' in the
16718 \noexpand\documentclass command.}%
16719 \shipout\box\@bidi@copyins@ \fi\fi

```




```

16720 \ifnum\insertpenalties>\z@
16721   \@latexerr{ftnright package
16722     scrambled footnotes}%
16723   {There is too much footnote material in
16724     the first column and ftnright^^Jis
16725     unable to cope with this.^^JYou need
16726     to reduce the amount to get a properly
16727     formatted page.}%
16728 \fi
16729 \else
16730 \ifvoid\footins
16731   \ifvoid\@bidi@copyins@
16732     \setbox\@outputbox\box\@cclv
16733   \else
16734     \setbox\@outputbox\vbox
16735       {\ifvoid\@cclv \else
16736         \unvbox\@cclv
16737         \vskip \skip\@bidi@copyins@
16738       \fi
16739       \color@begingroup
16740       \normalcolor
16741       \unvbox \@bidi@copyins@
16742       \color@endgroup}%
16743 \fi
16744 \else
16745   \setbox\@outputbox\vbox
16746     {\ifvoid\@cclv \else
16747       \unvbox\@cclv
16748       \vskip\skip\footins\fi
16749       \color@begingroup
16750       \normalcolor
16751       \footnoterule\unvbox\footins
16752       \color@endgroup
16753       \ifvoid\@bidi@copyins@
16754       \else
16755         \vskip \skip\@bidi@copyins@
16756         \color@begingroup
16757         \normalcolor
16758         \unvbox \@bidi@copyins@
16759         \color@endgroup
16760       \fi
16761     }%
16762 \fi
16763 \fi
16764 \xdef\@freelist{\@freelist\@midlist}%
16765 \global \let \@midlist \@empty
16766 \@combinefloats
16767 \ifvbox\@kludgeins
16768   \@makespecialcolbox
16769 \else
16770   \setbox\@outputbox\vbox to\@colht
16771     {\boxmaxdepth\maxdepth
16772     \@texttop
16773     \@tempdima\dp\@outputbox

```



```

16774      \unvbox\@outputbox
16775      \vskip-\@tempdima
16776      \@textbottom}%
16777  \fi
16778  \global\maxdepth\@maxdepth}
16779
16780 \let\leftfootnoterule\@empty
16781 \let\rightfootnoterule\@empty
16782 \let\textwidthfootnoterule\@empty
16783 \let\autofootnoterule\@empty
16784 \let\footnoterule\@empty
16785 \long\def\@makefntext#1{\parindent 1em
16786   \noindent\hbox to 2em{}}%
16787   \llap{\@thefnmark\hbox{.}\,\,}\,#1}
16788
16789 \setlength{\skip\@bidi@copyins@}
16790   {10pt plus 5pt minus 3pt}
16791 \AtBeginDocument{\prepare@bidi@copyins}

```

99 File graphicx-xetex-bidi.def

```

16792 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16793 \def\Grot@box@std#1#2{\ifmmode\else\ifRTL\beginL\fi\fi%
16794   \Grot@setangle{#1}%
16795   \setbox\z@\hbox{\ifmmode\ifRTL\beginR\fi#2\ifRTL\endR\fi\else\ifRTL\beginR\fi#2\ifRTL\endR\fi}%
16796   \Grot@x\z@
16797   \Grot@y\z@
16798   \Grot@box\ifmmode\else\ifRTL\endL\fi\fi}
16799 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\ifRTL\beginL\fi\fi%
16800   \@begin@tempboxa\hbox{\ifmmode\ifRTL\beginR\fi#3\ifRTL\endR\fi\else\ifRTL\beginR\fi#3\ifRTL\endR\fi}%
16801   \Grot@x\width \divide\Grot@x\tw@
16802   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16803   \setkeys{Grot}{#1}%
16804   \setbox\z@\box\@tempboxa
16805   \Grot@setangle{#2}%
16806   \Grot@box\ifmmode\else\ifRTL\endL\fi\fi
16807   \@end@tempboxa}
16808 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\ifRTL\beginL\fi\fi%
16809   \leavevmode
16810   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16811   \setbox\z@\hbox{#3}%
16812   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16813   \ifdim#2\p<\z@
16814     \ht\tw@-#2\dp\z@
16815     \dp\tw@-#2\ht\z@
16816   \else
16817     \ht\tw@#2\ht\z@
16818     \dp\tw@#2\dp\z@
16819   \fi
16820   \ifdim#1\p<\z@
16821     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16822   \else
16823     \wd\tw@#1\wd\z@
16824     \box\tw@

```



```

16825 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16826 \def\Gin@iii[#1,#2][#3,#4]#5{%
16827 \begingroup
16828 \ifmmode\else\if@RTL\beginL\fi\fi
16829 \Gin@bboxtrue
16830 \Gin@defaultbp\Gin@llx{#1}%
16831 \Gin@defaultbp\Gin@lly{#2}%
16832 \Gin@defaultbp\Gin@urx{#3}%
16833 \Gin@defaultbp\Gin@ury{#4}%
16834 \Gininclude@graphics{#5}%
16835 \ifmmode\else\if@RTL\endL\fi\fi
16836 \endgroup}
16837 \def\Gin@ii[#1]#2{%
16838 \def\@tempa{[]}\def\@tempb{#2}%
16839 \ifx\@tempa\@tempb
16840 \def\@tempa{\Gin@iii[#1][]}%
16841 \expandafter\@tempa
16842 \else
16843 \begingroup
16844 \ifmmode\else\if@RTL\beginL\fi\fi
16845 \@tempswafalse
16846 \toks@{\Gininclude@graphics{#2}}%
16847 \setkeys{Gin}{#1}%
16848 \Gin@esetsize
16849 \the\toks@
16850 \ifmmode\else\if@RTL\endL\fi\fi
16851 \endgroup
16852 \fi}
16853 \def\reflectbox{\bidiGscale@box-1[1]}
16854 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16855 \leavevmode
16856 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16857 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16858 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16859 \ifdim#2\p@<\z@
16860 \ht\tw@-#2\dp\z@
16861 \dp\tw@-#2\ht\z@
16862 \else
16863 \ht\tw@#2\ht\z@
16864 \dp\tw@#2\dp\z@
16865 \fi
16866 \ifdim#1\p@<\z@
16867 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16868 \else
16869 \wd\tw@#1\wd\z@
16870 \box\tw@
16871 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16872 \def\scalebox#1{%
16873 \@ifnextchar[\bidiGscale@box{#1}]{\bidiGscale@box{#1}[#1]}%
16874 \def\resizebox{%
16875 \leavevmode
16876 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16877 \def\bidiGscale@@box#1#2#3{%
16878 \let\@tempa\Gin@exclamation

```



```

16879 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16880 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16881 \ifx\@tempb\@tempa
16882 \ifx\@tempc\@tempa
16883 \toks@{\mbox}%
16884 \else
16885 \toks@{\bidiGscale@box@dd{#3}#1}%
16886 \fi
16887 \else
16888 \ifx\@tempc\@tempa
16889 \toks@{\bidiGscale@box@dd{#2}\width}%
16890 \else
16891 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
16892 \fi
16893 \fi
16894 \the\toks@}
16895 \long\def\bidiGscale@box@dd#1#2#3{%
16896 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16897 \setlength\@tempdima{#1}%
16898 \setlength\@tempdimb{#2}%
16899 \Gscale@div\@tempa\@tempdima\@tempdimb
16900 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16901 \@end@tempboxa}
16902 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
16903 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16904 \setlength\@tempdima{#1}%
16905 \setlength\@tempdimb{#2}%
16906 \Gscale@div\@tempa\@tempdima\@tempdimb
16907 \setlength\@tempdima{#3}%
16908 \setlength\@tempdimb{#4}%
16909 \Gscale@div\@tempb\@tempdima\@tempdimb
16910 \ifGin@iso
16911 \ifdim\@tempa\p@>\@tempb\p@
16912 \let\@tempa\@tempb
16913 \else
16914 \let\@tempb\@tempa
16915 \fi
16916 \fi
16917 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16918 \@end@tempboxa}

```

100 File geometry-xetex-bidi.def

```

16919 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16920 \renewcommand*{\Gm@vrules@mpi}{%
16921 \if@RTLmain%
16922 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16923 \llap{\Gm@vrule}\ignorespaces
16924 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16925 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16926 \else%
16927 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16928 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16929 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%

```



```

16930 \renewcommand*{\Gm@vrules@mpii}{%
16931 \if@RTLmain%
16932   \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
16933     \hskip \textwidth\Gm@vrule\hskip \marginparsep
16934     \llap{\Gm@vrule}\hfil\Gm@vrule}%
16935 \else%
16936   \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16937     \llap{\Gm@vrule}\ignorespaces
16938     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16939     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16940 \bidi@patchcmd{\Gm@pageframes}{%
16941   \ifodd\count\z@
16942     \let\@themargin\oddsidemargin
16943   \else
16944     \let\@themargin\evensidemargin
16945   \fi
16946 }{%
16947   \ifodd\count\z@
16948     \if@RTLmain
16949       \let\@themargin\evensidemargin
16950     \else
16951       \let\@themargin\oddsidemargin
16952     \fi
16953   \else
16954     \if@RTLmain
16955       \let\@themargin\oddsidemargin
16956     \else
16957       \let\@themargin\evensidemargin
16958     \fi
16959   \fi
16960 }{}{}

```

101 File hvfloat-xetex-bidi.def

```

16961 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16962 \def\do@hvFloat[#1]#2#3{%
16963   \def\hv@shortCap{#1}
16964   \def\hv@longCap{#2}
16965   \def\hv@label{#3}
16966 %\newcommand*{\hvFloat}[5][{}]{%
16967 %  [#1]: keyvalues
16968 %  #2: type figure | table | ...
16969 %  #3: float contents
16970 %  [#4]: short caption
16971 %  #5: caption
16972 %  #6: label
16973 % \setDefault%
16974 % \def\@tempa{#1}%
16975 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16976 % \def\@tempa{90}%
16977 % \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
16978 % \else \setlength{\hvMaxCapWidth}{\linewidth}
16979 % \fi
16980 %

```



```

16981 % First we save the object in \hvObjectBox
16982 %
16983 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
16984 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
16985 \else
16986 \savebox{\hvObjectBox}{%
16987 \rotatebox{\hvSet@objectAngle}{%
16988 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
16989 \fi
16990 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
16991 %
16992 % Now we save the caption with its defined \hvCapWidth
16993 %
16994 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
16995 \else
16996 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
16997 \else
16998 \setlength{\hvCapWidth}{\hvObjectWidth}
16999 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17000 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17001 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
17002 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17003 \else
17004 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17005 \fi
17006 \fi
17007 \fi
17008 %
17009 % now we have the object and the caption with the right
17010 % rotated angles saved in boxes
17011 %
17012 \def\fps@figure{\hvSet@floatPos}
17013 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17014 \else \begin{\hv@floatType}% Start the floating environment
17015 \fi%
17016 \saveCaptionSkip% we put this space ourselves
17017 \ifx\hvSet@capAngle\hv@Width % need rotation?
17018 \sbox{\hvCaptionBox}{%
17019 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17020 \ifhv@nonFloat%
17021 \ifhv@onlyText#2%
17022 \else%
17023 \ifx\hv@floatType\hv@figure
17024 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17025 \else
17026 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17027 \fi
17028 \fi
17029 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17030 \fi%
17031 \label{#3}%
17032 \end{minipage}%
17033 }%
17034 \else%

```



```

17035 \sbox{\hvCaptionBox}{%
17036 \rotatebox{\hvSet@capAngle}{%
17037 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17038 \ifhv@nonFloat%
17039 \ifhv@onlyText#2%
17040 \else%
17041 \ifx\hv@floatType\hv@figure
17042 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
17043 \else
17044 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
17045 \fi
17046 \fi
17047 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17048 \fi%
17049 \label{#3}%
17050 \end{minipage}%
17051 }%
17052 }%
17053 \fi%
17054 %%
17055 \restoreCaptionSkip% save old values
17056 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17057 \else%
17058 \ifx\hvSet@objectPos\hv@Center
17059 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17060 \fi%
17061 \fi%
17062 %
17063 % to rotate object and caption together, we save all in another box
17064 % the caption comes first, if its on the left or the top
17065 %
17066 \savebox{\@tempboxa}{%
17067 \ifx\hvSet@capPos\hv@Left % caption on left side
17068 \ifRTL%
17069 \ifx\hvSet@capVPos\hv@Center%
17070 \ifhv@fbox
17071 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17072 \else
17073 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17074 \fi%
17075 \hspace{\hvSet@floatCapSep pt}%
17076 \ifhv@fbox
17077 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17078 \else
17079 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17080 \fi%
17081 \else%
17082 \ifx\hvSet@capVPos\hv@Top
17083 \ifhv@fbox
17084 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17085 \else
17086 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17087 \fi%
17088 \hspace{\hvSet@floatCapSep pt}%

```



```

17089      \ifhv@fbox
17090      \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17091      \else
17092      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17093      \fi
17094      \else
17095      \ifhv@fbox
17096      \fbox{\usebox{\hvObjectBox}}%
17097      \else
17098      \usebox{\hvObjectBox}%
17099      \fi
17100      \hspace{\hvSet@floatCapSep pt}%
17101      \ifhv@fbox
17102      \fbox{\usebox{\hvCaptionBox}}%
17103      \else
17104      \usebox{\hvCaptionBox}%
17105      \fi%
17106      \fi%
17107 \fi%
17108 \else% not RTL
17109      \ifx\hvSet@capVPos\hv@Center%
17110      \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17111      \else      \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17112      \fi%
17113      \hspace{\hvSet@floatCapSep pt}% capfloatsep
17114      \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17115      \else      \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17116      \fi%
17117 \else%
17118      \ifx\hvSet@capVPos\hv@Top % caption at top
17119      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17120      \else      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17121      \fi
17122      \hspace{\hvSet@floatCapSep pt}% capfloatsep
17123      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17124      \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
17125      \fi%
17126      \else% caption on bottom
17127      \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17128      \else\usebox{\hvCaptionBox}
17129      \fi%
17130      \hspace{\hvSet@floatCapSep pt}%
17131      \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17132      \else      \usebox{\hvObjectBox}
17133      \fi%
17134      \fi%
17135 \fi% end of RTL
17136 \fi%
17137 \else
17138      \ifx\hvSet@capPos\hv@Top
17139      \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17140      \begin{minipage}{\wd\hvCaptionBox}
17141      \else
17142      \begin{minipage}{\wd\hvObjectBox}

```




```

17143 \fi
17144 \centering
17145 \ifhv@fbox
17146 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17147 \fbox{\usebox{\hvObjectBox}}
17148 \else
17149 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17150 \usebox{\hvObjectBox}
17151 \fi%
17152 \end{minipage}
17153 \else
17154 \ifx\hvSet@capPos\hv@Bottom
17155 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17156 \begin{minipage}{\wd\hvCaptionBox}
17157 \else
17158 \begin{minipage}{\wd\hvObjectBox}
17159 \fi
17160 \centering
17161 \ifhv@fbox
17162 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17163 \fbox{\usebox{\hvCaptionBox}}
17164 \else
17165 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17166 \usebox{\hvCaptionBox}
17167 \fi%
17168 \end{minipage}
17169 \else% the last option: put the caption on the right
17170 \if@RTL%
17171 \ifx\hvSet@capVPos\hv@Center%
17172 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17173 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17174 \fi%
17175 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17176 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17177 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17178 \fi%
17179 \else%
17180 \ifx\hvSet@capVPos\hv@Top % caption at top
17181 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17182 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17183 \fi
17184 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17185 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}
17186 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17187 \fi%
17188 \else% caption on bottom
17189 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17190 \else\usebox{\hvCaptionBox}
17191 \fi%
17192 \hspace{\hvSet@floatCapSep pt}%
17193 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17194 \else \usebox{\hvObjectBox}
17195 \fi%
17196 \fi%

```



```

17197 \fi%
17198 \else% not RTL
17199 \ifx\hvSet@capVPos\hv@Center%
17200 \ifhv@fbox
17201 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17202 \else
17203 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17204 \fi%
17205 \hspace{\hvSet@floatCapSep pt}%
17206 \ifhv@fbox
17207 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17208 \else
17209 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17210 \fi%
17211 \else%
17212 \ifx\hvSet@capVPos\hv@Top
17213 \ifhv@fbox
17214 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17215 \else
17216 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17217 \fi%
17218 \hspace{\hvSet@floatCapSep pt}%
17219 \ifhv@fbox
17220 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17221 \else
17222 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17223 \fi
17224 \else
17225 \ifhv@fbox
17226 \fbox{\usebox{\hvObjectBox}}%
17227 \else
17228 \usebox{\hvObjectBox}%
17229 \fi
17230 \hspace{\hvSet@floatCapSep pt}%
17231 \ifhv@fbox
17232 \fbox{\usebox{\hvCaptionBox}}%
17233 \else
17234 \usebox{\hvCaptionBox}%
17235 \fi%
17236 \fi%
17237 \fi
17238 \fi% end of RTL
17239 \fi
17240 \fi
17241 \fi
17242 }% End savebox Object and caption
17243 %
17244 % now we rotate the object and caption, if needed
17245 %
17246 \ifx\hvSet@rotAngle\hv@Zero
17247 \usebox{\@tempboxa}
17248 \else
17249 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17250 \fi

```



```

17251 \ifhv@nonFloat
17252 \ifx\hvSet@objectPos\hv@Center
17253 \ifhv@nonFloat
17254 \hspace{\fill}
17255 \fi
17256 \fi
17257 \endgroup% End the nonfloat part
17258 \else
17259 \end{\hv@floatType}% End the floating environment
17260 \fi
17261 }

```

102 File hyperref-xetex-bidi.def

```

17262 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17263 \AtBeginDocument{%
17264 \def\contentsline#1#2#3#4{%
17265 \ifx\#4\%
17266 \csname l@#1\endcsname{#2}{#3}%
17267 \else
17268 \ifcase\Hy@linktoc % none
17269 \csname l@#1\endcsname{#2}{#3}%
17270 \or % section
17271 \csname l@#1\endcsname{%
17272 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17273 }{#3}%
17274 \or % page
17275 \csname l@#1\endcsname{#2}{#3}%
17276 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17277 }%
17278 \else % all
17279 \csname l@#1\endcsname{%
17280 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17281 }{#3}%
17282 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17283 }%
17284 \fi
17285 \fi
17286 }
17287 \ifHy@hyperfootnotes
17288 \let\H@@footnotetext\@footnotetext
17289 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17290 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17291 \def\@xfootnotenext[#1]{%
17292 \begingroup
17293 \csname c@#1\endcsname #1\relax
17294 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17295 \endgroup
17296 \ifx\@footnotetext\@mpfootnotetext
17297 \expandafter\H@@mpfootnotetext
17298 \else
17299 \expandafter\H@@footnotetext
17300 \fi
17301 }%

```



```

17302 \def\xRTLfootnotenext[#1]{%
17303 \begingroup
17304 \csname c@\mpfn\endcsname #1\relax
17305 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17306 \endgroup
17307 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17308 \expandafter\HRTL@\mpRTLfootnotetext
17309 \else
17310 \expandafter\HRTL@\@RTLfootnotetext
17311 \fi
17312 }%
17313 \def\xLTRfootnotenext[#1]{%
17314 \begingroup
17315 \csname c@\mpfn\endcsname #1\relax
17316 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17317 \endgroup
17318 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17319 \expandafter\HLTR@\mpLTRfootnotetext
17320 \else
17321 \expandafter\HLTR@\@LTRfootnotetext
17322 \fi
17323 }%
17324 \def\xfootnotemark[#1]{%
17325 \begingroup
17326 \c@footnote #1\relax
17327 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
17328 \endgroup
17329 \H@\footnotemark
17330 }%
17331 \let\H@\mpfootnotetext\@mpfootnotetext
17332 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
17333 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
17334 \long\def\@mpfootnotetext#1{%
17335 \H@\mpfootnotetext{%
17336 \ifHy@nesting
17337 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17338 \else
17339 \Hy@raisedlink{%
17340 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17341 }#1%
17342 \fi
17343 }%
17344 }%
17345 \long\def\@mpRTLfootnotetext#1{%
17346 \HRTL@\mpRTLfootnotetext{%
17347 \ifHy@nesting
17348 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17349 \else
17350 \Hy@raisedlink{%
17351 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17352 }#1%
17353 \fi
17354 }%
17355 }%

```



```

17356 \long\def\@mplTRfootnotetext#1{%
17357 \HLTR@mplTRfootnotetext{%
17358 \ifHy@nesting
17359 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17360 \else
17361 \Hy@raisedlink{%
17362 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17363 }#1%
17364 \fi
17365 }%
17366 }%
17367 \long\def\@footnotetext#1{%
17368 \H@@footnotetext{%
17369 \ifHy@nesting
17370 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17371 \else
17372 \Hy@raisedlink{%
17373 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17374 }%
17375 \let\@currentHlabel\Hy@footnote@currentHlabel
17376 \let\@currentHref\Hy@footnote@currentHref
17377 \let\@currentlabelname\@empty
17378 #1%
17379 \fi
17380 }%
17381 }%
17382 \long\def\@RTLfootnotetext#1{%
17383 \HRTL@RTLfootnotetext{%
17384 \ifHy@nesting
17385 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17386 \else
17387 \Hy@raisedlink{%
17388 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17389 }%
17390 \let\@currentHlabel\Hy@footnote@currentHlabel
17391 \let\@currentHref\Hy@footnote@currentHref
17392 \let\@currentlabelname\@empty
17393 #1%
17394 \fi
17395 }%
17396 }%
17397 \long\def\@LTRfootnotetext#1{%
17398 \HLTR@LTRfootnotetext{%
17399 \ifHy@nesting
17400 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17401 \else
17402 \Hy@raisedlink{%
17403 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17404 }%
17405 \let\@currentHlabel\Hy@footnote@currentHlabel
17406 \let\@currentHref\Hy@footnote@currentHref
17407 \let\@currentlabelname\@empty
17408 #1%
17409 \fi

```



```

17410 }%
17411 }%
17412 \ApplyPatchCodeToPackage{tabularx}{%
17413 \let\HyOrg@TX@endtabularx\TX@endtabularx
17414 \def\Hy@tabularx@hook{%
17415 \let\@footnotetext\H@@footnotetext
17416 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17417 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17418 \let\@footnotemark\H@@footnotemark
17419 \let\@mpfootnotetext\H@@mpfootnotetext
17420 \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
17421 \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
17422 }%
17423 \begingroup
17424 \toks@{\expandafter{\TX@endtabularx}}%
17425 \xdef\Hy@gtemp{%
17426 \noexpand\Hy@tabularx@hook
17427 \the\toks@
17428 }%
17429 \endgroup
17430 \let\TX@endtabularx\Hy@gtemp
17431 }%
17432 \ApplyPatchCodeToPackage{longtable}{%
17433 \CheckCommand{\LT@p@LTRfnttext}[1]{%
17434 \edef\@tempa{%
17435 \the\LT@p@ftn
17436 \noexpand\LTRfootnotetext[\the\c@footnote]}%
17437 }%
17438 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17439 }%
17440 \long\def\LT@p@LTRfnttext#1{%
17441 \edef\@tempa{%
17442 \the\LT@p@ftn
17443 \begingroup
17444 \noexpand\c@footnote=\the\c@footnote\relax
17445 \noexpand\protected\xdef\noexpand\@thefnmark{%
17446 \noexpand\thempfn
17447 }%
17448 \noexpand\Hy@LT@LTRfootnotetext{%
17449 \Hy@footnote@currentHref
17450 }%
17451 }%
17452 \global\LT@p@ftn\expandafter{%
17453 \@tempa{#1}%
17454 \endgroup
17455 }%
17456 }%
17457 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17458 \HLTR@@LTRfootnotetext{%
17459 \ifHy@nesting
17460 \hyper@@anchor{#1}{#2}%
17461 \else
17462 \Hy@raisedlink{%
17463 \hyper@@anchor{#1}{\relax}%

```



```

17464         }%
17465         \def\@currentHref{#1}%
17466         \let\@currentlabelname\@empty
17467         #2%
17468     \fi
17469 }%
17470 }%
17471 \CheckCommand{\LT@p@RTLftntext}[1]{%
17472     \edef\@tempa{%
17473         \the\LT@p@ftn
17474         \noexpand\RTLfootnotetext[\the\c@footnote]%
17475     }%
17476     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17477 }%
17478 \long\def\LT@p@RTLftntext#1{%
17479     \edef\@tempa{%
17480         \the\LT@p@ftn
17481         \begingroup
17482             \noexpand\c@footnote=\the\c@footnote\relax
17483             \noexpand\protected@xdef\noexpand\@thefnmark{%
17484                 \noexpand\thempfn
17485             }%
17486             \noexpand\Hy@LT@RTLfootnotetext{%
17487                 \Hy@footnote@currentHref
17488             }%
17489         }%
17490         \global\LT@p@ftn\expandafter{%
17491             \@tempa{#1}%
17492         \endgroup
17493     }%
17494 }%
17495 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17496     \HRTL@RTLfootnotetext{%
17497         \ifHy@nesting
17498             \hyper@@anchor{#1}{#2}%
17499         \else
17500             \Hy@raisedlink{%
17501                 \hyper@@anchor{#1}{\relax}%
17502             }%
17503             \def\@currentHref{#1}%
17504             \let\@currentlabelname\@empty
17505             #2%
17506         \fi
17507     }%
17508 }%
17509 }%
17510 \ApplyPatchCodeToPackage{bidipoem}{%
17511 \long\def\bidipoem@p@ftntext#1{%
17512     \edef\@tempx{%
17513         \the\bidipoem@p@ftn
17514     \begingroup
17515         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17516         \noexpand\protected@xdef\noexpand\@thefnmark{%
17517             \noexpand\thempfn

```



```

17518      }%
17519      \noexpand\Hy@bidipoem@footnotetext{%
17520        \Hy@footnote@currentHref
17521      }%
17522    }%
17523    \global\bidipoem@p@ftn\expandafter{%
17524      \@tempxi{#1}%
17525    \endgroup
17526  }%
17527 }%
17528 \long\def\Hy@bidipoem@footnotetext#1#2{%
17529   \H@@@footnotetext{%
17530     \ifHy@nesting
17531       \hyper@@anchor{#1}{#2}%
17532     \else
17533       \Hy@raisedlink{%
17534         \hyper@@anchor{#1}{\relax}%
17535       }%
17536       \def\@currentHref{#1}%
17537       \let\@currentlabelname\@empty
17538       #2%
17539     \fi
17540   }%
17541 }%
17542 \long\def\bidipoem@p@LTRftntext#1{%
17543   \edef\@tempxi{%
17544     \the\bidipoem@p@ftn
17545   \begingroup
17546     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17547     \noexpand\protected@xdef\noexpand\@thefnmark{%
17548       \noexpand\thempfn
17549     }%
17550     \noexpand\Hy@bidipoem@LTRfootnotetext{%
17551       \Hy@footnote@currentHref
17552     }%
17553   }%
17554   \global\bidipoem@p@ftn\expandafter{%
17555     \@tempxi{#1}%
17556   \endgroup
17557 }%
17558 }%
17559 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17560   \HLTR@@@LTRfootnotetext{%
17561     \ifHy@nesting
17562       \hyper@@anchor{#1}{#2}%
17563     \else
17564       \Hy@raisedlink{%
17565         \hyper@@anchor{#1}{\relax}%
17566       }%
17567       \def\@currentHref{#1}%
17568       \let\@currentlabelname\@empty
17569       #2%
17570     \fi
17571   }%

```




```

17572 }%
17573 \long\def\bidipoem@p@RTLftntext#1{%
17574 \edef\@tempxi{%
17575 \the\bidipoem@p@ftn
17576 \begingroup
17577 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17578 \noexpand\protected@xdef\noexpand\@thefnmark{%
17579 \noexpand\thempfn
17580 }%
17581 \noexpand\Hy@bidipoem@RTLfootnotetext{%
17582 \Hy@footnote@currentHref
17583 }%
17584 }%
17585 \global\bidipoem@p@ftn\expandafter{%
17586 \@tempxi{#1}%
17587 \endgroup
17588 }%
17589 }%
17590 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17591 \HRTL@@RTLfootnotetext{%
17592 \ifHy@nesting
17593 \hyper@@anchor{#1}{#2}%
17594 \else
17595 \Hy@raisedlink{%
17596 \hyper@@anchor{#1}{\relax}%
17597 }%
17598 \def\@currentHref{#1}%
17599 \let\@currentlabelname\@empty
17600 #2%
17601 \fi
17602 }%
17603 }%
17604 }%
17605 \let\HyOrg@maketitle\maketitle
17606 \def\maketitle{%
17607 \let\Hy@saved@footnotemark\@footnotemark
17608 \let\Hy@saved@footnotetext\@footnotetext
17609 \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17610 \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17611 \let\@footnotemark\H@@footnotemark
17612 \let\@footnotetext\H@@footnotetext
17613 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17614 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17615 \@ifnextchar[\Hy@maketitle@optarg{% ]
17616 \HyOrg@maketitle
17617 \Hy@maketitle@end
17618 }%
17619 }%
17620 \def\Hy@maketitle@optarg[#1]{%
17621 \HyOrg@maketitle[#{#1}]%
17622 \Hy@maketitle@end
17623 }%
17624 \def\Hy@maketitle@end{%
17625 \ifx\@footnotemark\H@@footnotemark

```



```

17626     \let\@footnotemark\Hy@saved@footnotemark
17627     \fi
17628     \ifx\@footnotetext\H@@footnotetext
17629         \let\@footnotetext\Hy@saved@footnotetext
17630     \fi
17631     \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
17632         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17633     \fi
17634     \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
17635         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17636     \fi
17637 }%
17638 \def\realfootnote{%
17639     \@ifnextchar[\@xfootnote{%
17640         \stepcounter{\@mpfn}%
17641         \protected@xdef\@thefnmark{\thempfn}%
17642         \H@@@footnotemark\H@@footnotetext
17643     }%
17644 }%
17645 \fi
17646 \def\Hy@BeginAnnot#1{%
17647     \ifmmode\else\beginL\fi%
17648     \global\advance\c@Hy@AnnotLevel\@ne
17649     \ifnum\c@Hy@AnnotLevel=\@ne
17650         #1%
17651     \fi
17652 }
17653 \def\Hy@EndAnnot{%
17654     \ifnum\c@Hy@AnnotLevel=\@ne
17655         \Hy@endcolorlink
17656         \@pdfm@mark{eann}%
17657     \fi
17658     \global\advance\c@Hy@AnnotLevel\m@ne
17659     \ifmmode\else\endL\fi%
17660 }
17661 \def\hyper@link#1#2#3{%
17662     \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
17663 }
17664 \def\hyper@linkfile#1#2#3{%
17665     \leavevmode
17666     \Hy@BeginAnnot{%
17667         \def\Hy@pstringF{#2}%
17668         \Hy@CleanupFile\Hy@pstringF
17669         \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17670         \Hy@pstringdef\Hy@pstringD{#3}%
17671         \Hy@MakeRemoteAction
17672         \@pdfm@mark{%
17673             bann<<%
17674                 /Type/Annot%
17675                 /Subtype/Link%
17676                 \ifHy@pdfa /F 4\fi
17677                 \Hy@setpdfborder
17678                 \ifx\@filebordercolor\relax
17679                     \else

```



```

17680         /C[\@filebordercolor]%
17681     \fi
17682     /A<<%
17683         /S/GoToR%
17684         /F(\Hy@pstringF)%
17685         /D%
17686         \ifx\#3\%
17687             [\Hy@href@page\@pdfremotestartview]%
17688         \else
17689             (\Hy@pstringD)%
17690     \fi
17691     \Hy@SetNewWindow
17692     \Hy@href@nextactionraw
17693     >>%
17694 >>%
17695 }%
17696 \Hy@colorlink\@filecolor
17697 }%
17698 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17699 \Hy@endAnnot
17700 }
17701 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17702 \leavevmode
17703 \Hy@BeginAnnot{%
17704     \Hy@pstringdef\Hy@pstringF{#1}%
17705     \Hy@pstringdef\Hy@pstringP{#3}%
17706     \@pdfmark{%
17707         bann<<%
17708         /Type/Annot%
17709         /Subtype/Link%
17710         \ifHy@pdfa /F 4\fi
17711         \Hy@setpdfborder
17712         \ifx\@runbordercolor\relax
17713         \else
17714             /C[\@runbordercolor]%
17715         \fi
17716         /A<<%
17717         /F(\Hy@pstringF)%
17718         /S/Launch%
17719         \Hy@SetNewWindow
17720         \ifx\#3\%
17721         \else
17722             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17723         \fi
17724         \Hy@href@nextactionraw
17725         >>%
17726     >>%
17727     }%
17728     \Hy@colorlink\@runcolor
17729 }%
17730 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17731 \Hy@endAnnot
17732 }
17733 \def\hyper@linkurl#1#2{%

```



```

17734 \leavevmode
17735 \Hy@BeginAnnot{%
17736   \Hy@pstringdef\Hy@pstringURI{#2}%
17737   \@pdfm@mark{%
17738     bann<<%
17739     /Type/Annot%
17740     /Subtype/Link%
17741     \ifHy@pdfa /F 4\fi
17742     \Hy@setpdfborder
17743     \ifx\@urlbordercolor\relax
17744     \else
17745       /C[\@urlbordercolor]%
17746     \fi
17747     /A<<%
17748     /S/URI%
17749     /URI(\Hy@pstringURI)%
17750     \ifHy@href@ismap
17751       /IsMap true%
17752     \fi
17753     \Hy@href@nextactionraw
17754     >>%
17755   >>%
17756  }%
17757   \Hy@colorlink\@urlcolor
17758 }%
17759 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17760 \Hy@EndAnnot
17761 }
17762 \def\Acrobatmenu#1#2{%
17763   \Hy@Acrobatmenu{#1}{#2}{%
17764     \Hy@BeginAnnot{%
17765       \EdefEscapeName\Hy@temp@menu{#1}%
17766       \@pdfm@mark{%
17767         bann<<%
17768         /Type/Annot%
17769         /Subtype/Link%
17770         \ifHy@pdfa /F 4\fi
17771         \Hy@setpdfborder
17772         \ifx\@menubordercolor\relax
17773         \else
17774           /C[\@menubordercolor]%
17775         \fi
17776         /A<<%
17777         /S/Named%
17778         /N/\Hy@temp@menu
17779         \Hy@href@nextactionraw
17780         >>%
17781       >>%
17782     }%
17783     \Hy@colorlink\@menucolor
17784   }%
17785   \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17786   \Hy@EndAnnot
17787 }%

```



```

17788 }
17789 \def\hyper@natlinkstart#1{%
17790   \Hy@backout{#1}%
17791   \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17792   \def\hyper@nat@current{#1}%
17793 }
17794 \def\hyper@natlinkend{%
17795   \if@RTL\endR\fi\hyper@linkend
17796 }
17797 \def\hyper@natlinkbreak#1#2{%
17798   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17799 }%
17800 }
17801 \pdfstringdefDisableCommands{%
17802   \let\LRE\@firstofone
17803   \let\LR\@firstofone
17804   \let\RLE\@firstofone
17805   \let\RL\@firstofone
17806   \def\XeTeX{Xe\TeX}%
17807   \def\XeLaTeX{Xe\LaTeX}%
17808 }
17809 \bidi@patchcmd\@TextField{%
17810   \@pdfm@mark
17811 }{%
17812   \if@RTL
17813     \hskip\Fld@width
17814     \fi
17815   \@pdfm@mark
17816 }{}{}
17817 \bidi@patchcmd\@TextField{%
17818   \unhbox
17819 }{%
17820   \if@RTL
17821     \hskip-\Fld@width
17822     \fi
17823   \unhbox
17824 }{}{}
17825 \bidi@patchcmd\@@Radio{%
17826   \@pdfm@mark
17827 }{%
17828   \if@RTL
17829     \hskip\Fld@width
17830     \fi
17831   \@pdfm@mark
17832 }{}{}
17833 \bidi@patchcmd\@@Radio{%
17834   \unhcopy
17835 }{%
17836   \if@RTL
17837     \hskip-\Fld@width
17838     \fi
17839   \unhcopy
17840 }{}{}
17841 \bidi@patchcmd\@Submit{%

```



```

17842 \@pdfm@mark
17843 }{%
17844 \if@RTL
17845 \null
17846 \hskip\wd\pdfm@box
17847 \fi
17848 \@pdfm@mark
17849 }{}{}
17850 \bidi@patchcmd\@Submit{%
17851 \unhbox
17852 }{%
17853 \if@RTL
17854 \hskip-\wd\pdfm@box
17855 \fi
17856 \unhbox
17857 }{}{}
17858 \bidi@patchcmd\@Reset{%
17859 \@pdfm@mark
17860 }{%
17861 \if@RTL
17862 \null
17863 \hskip\wd\pdfm@box
17864 \fi
17865 \@pdfm@mark
17866 }{}{}
17867 \bidi@patchcmd\@Reset{%
17868 \unhbox
17869 }{%
17870 \if@RTL
17871 \hskip-\wd\pdfm@box
17872 \fi
17873 \unhbox
17874 }{}{}

```

103 File `imsproc-xetex-bidi.def`

```

17875 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for
17876 \newenvironment{thebibliography}[1]{%
17877 \@bibttitlestyle
17878 \normalfont\bibliofont\labelsep .5em\relax
17879 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17880 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17881 \bidi@thebibliography@font@hook
17882 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17883 \leftmargin\labelwidth \advance\leftmargin\labelsep
17884 \usecounter{enumiv}}%
17885 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17886 \sfcode`\.\@m
17887 }{%
17888 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17889 \endlist
17890 }
17891
17892 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi

```



```

17893 \columnseprule\z@ \columnsep 35\p@
17894 \@indextitlestyle
17895 \thispagestyle{plain}%
17896 \let\item\@idxitem
17897 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17898 \if@RTL\raggedleft\else\raggedright\fi
17899 \hyphenpenalty\@M
17900 \footnotesize}
17901 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17902 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17903 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17904
17905 \def\right@footnoterule{%
17906 \kern-.4\p@
17907 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17908 \kern11\p@\kern-\footnotesep}
17909 \def\left@footnoterule{\kern-.4\p@
17910 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17911 \def\@makefnmark{%
17912 \leavevmode
17913 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17914 }
17915
17916 \def\part{\@startsection{part}{0}%
17917 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
17918 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17919 \def\@tocline#1#2#3#4#5#6#7{\relax
17920 \ifnum #1>\c@tocdepth % then omit
17921 \else
17922 \par \addpenalty\@secpenalty\addvspace{#2}%
17923 \begingroup \hyphenpenalty\@M
17924 \@ifempty{#4}{%
17925 \@tempdima\c@tocindent\number#1\endcsname\relax
17926 }{%
17927 \@tempdima#4\relax
17928 }%
17929 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#3\relax
17930 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17931 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17932 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17933 \nobreak
17934 \endgroup
17935 \fi}
17936 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17937 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17938 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17939 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17940 \def\maketitle{\par
17941 \@topnum\z@ % this prevents figures from falling at the top of page 1
17942 \@setcopyright
17943 \thispagestyle{firstpage}% this sets first page specifications
17944 \uppercase\nonmath\shorttitle
17945 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17946 \else \andify\shortauthors

```



```

17947 \fi
17948 \@maketitle@hook
17949 \beginingroup
17950 \@maketitle
17951 \toks@{\xp{\shortauthors}\@temptokena\@xp{\shorttitle}}%
17952 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17953 \edef\@tempa{%
17954   \@nx\markboth{\the\toks4
17955     \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17956 \@tempa
17957 \endgroup
17958 \c@footnote\z@
17959 \@cleartopmattertags
17960 }

```

104 File leqno-xetex-bidi.def

```

17961 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17962 \renewcommand\@eqnnum{\hbxt@.01\p@{}}%
17963 \rlap{\hskip -\displaywidth
17964 \normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}

```

105 File letter-xetex-bidi.def

```

17965 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17966 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
17967   \thispagestyle{firstpage}%
17968   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17969 \else % home address
17970   \thispagestyle{empty}%
17971   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17972     \fromaddress \[*[2\parskip]%
17973     \@date \end{tabular}\par}%
17974 \fi
17975 \vspace{2\parskip}%
17976 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
17977 \vspace{2\parskip}%
17978 #1\par\nobreak}
17979 \renewcommand\left@footnoterule{%
17980 \kern-\p@
17981 \hrule \@width .4\columnwidth
17982 \kern .6\p@}
17983 \renewcommand\right@footnoterule{%
17984 \kern-\p@
17985 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17986 \kern .6\p@}

```

106 File lettrine-xetex-bidi.def

```

17987 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
17988 \RemoveFromHook{begindocument}[lettrine]
17989 \AtBeginDocument[lettrine]{%
17990 \if\DefaultOptionsFile\relax
17991 \else

```




```

17992 \InputIfFileExists{\DefaultOptionsFile}%
17993 {}%
17994 {\PackageWarning{lettrine.sty}%
17995 {File \DefaultOptionsFile\space not found}%
17996 }%
17997 \fi
17998 \let\ifL@RTL\if@RTL
17999 }

```

107 File lineno-xetex-bidi.def

```

18000 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for
18001 \bidi@patchcmd{\MakeLineNo}{%
18002 \hb@xt@\z@{\makeLineNumber}%
18003 }{%
18004 \hboxL to \z@{\makeLineNumber}%
18005 }{}{}
18006
18007 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18008 \if@RTL
18009 \hb@xt@\linenumberwidth{\LineNumber\hss}%
18010 \else
18011 \LineNumber
18012 \fi
18013 }{}{}
18014
18015 \bidi@patchcmd{\makeLineNumberRight}{%
18016 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18017 }{%
18018 \if@RTL
18019 \LineNumber
18020 \else
18021 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18022 \fi
18023 }{}{}
18024
18025 \bidi@AfterPreamble{%
18026 \if@RTLmain
18027 \rightlinenumbers*
18028 \else
18029 \leftlinenumbers*
18030 \fi
18031 \@ifpackagewith{lineno}{left}{%
18032 \leftlinenumbers*
18033 }{}
18034 \@ifpackagewith{lineno}{right}{%
18035 \rightlinenumbers*
18036 }{}
18037 \@ifpackagewith{lineno}{switch}{%
18038 \if@RTLmain
18039 \switchlinenumbers*%
18040 \else
18041 \switchlinenumbers
18042 \fi

```



```

18043 }{}
18044 \@ifpackagewith{lineno}{switch*}{%
18045   \if@RTLmain
18046     \switchlinenumbers
18047   \else
18048     \switchlinenumbers*%
18049   \fi
18050 }{}
18051 }
18052

```

108 File listings-xetex-bidi.def

```

18053 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18054 \lst@Key{captiondirection}{textdirection}{%
18055   \lstKV@SwitchCases{#1}%
18056   {textdirection:\\%
18057     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18058     LTR:\chardef\bidi@lst@caption@direction\z@%
18059   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18060
18061 \lst@Key{captionscript}{textscript}{%
18062   \lstKV@SwitchCases{#1}%
18063   {textscript:\\%
18064     latin:\chardef\bidi@lst@caption@script\@ne\\%
18065     nonlatin:\chardef\bidi@lst@caption@script\z@%
18066   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18067
18068 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18069   \@ifundefined{bidi@lst@caption@direction}{-}{%
18070     \ifnum\bidi@lst@caption@direction=\z@%
18071       #1%
18072     \else%
18073       \ifnum\bidi@lst@caption@direction=\@ne%
18074         #2%
18075       \fi%
18076     \fi%
18077   }}
18078
18079 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18080   \@ifundefined{bidi@lst@caption@script}{-}{%
18081     \ifnum\bidi@lst@caption@script=\z@%
18082       #1%
18083     \else%
18084       \ifnum\bidi@lst@caption@script=\@ne%
18085         #2%
18086       \fi%
18087     \fi%
18088   }}
18089
18090 \long\def\bidi@lst@makecaption#1#2{%
18091   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18092   \vskip\abovcaptionskip
18093   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%

```



```

18094 \sbox\@tempboxa{%
18095 \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18096 #1: #2%
18097 \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18098 }%
18099 \ifdim \wd\@tempboxa >\hsize
18100 #1: #2\par
18101 \else
18102 \global \@minipagefalse
18103 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18104 \fi
18105 \vskip\belowcaptionskip}%
18106 \def\lst@makecaption{\@bidi@lst@makecaption}
18107 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18108 \bidi@AtEndPreamble{%
18109 \bidi@patchcmd{\lst@MakeCaption}{%
18110 \ifx #1%
18111 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18112 \expandafter\refstepcounter
18113 \fi {lstlisting}%
18114 }{%
18115 \ifx #1%
18116 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18117 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18118 \expandafter\refstepcounter
18119 \fi {lstlisting}%
18120 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18121 }{}{}%
18122 \bidi@patchcmd{\lst@MakeCaption}{%
18123 \addcontentsline{lol}{lstlisting}%
18124 {\protect\numberline{\thelstlisting}\lst@@caption}%
18125 }{%
18126 \begingroup%
18127 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18128 \addcontentsline{lol}{lstlisting}%
18129 {\protect\numberline{\thelstlisting}\lst@@caption}%
18130 \endgroup%
18131 }{}{}%
18132 }
18133 \ApplyPatchIfPackageLoaded{caption}{%
18134 \AtBeginCaption{%
18135 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18136 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18137 }
18138 \let\@bidi@lst@makecaption\caption@makecaption%
18139 \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18140 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18141 }{%
18142 \AtBeginDocument{%
18143 \@ifundefined{captionlabelfalse}{}{%
18144 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18145 \@ifundefined{caption@startrue}{}{%
18146 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
18147 }%

```



```

18148 }
18149 \AtBeginDocument{
18150   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18151   \lst@ifnumberbychapter
18152     \gdef\thelstlisting%
18153       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18154   \else
18155     \gdef\thelstlisting{\@arabic\c@lstlisting}
18156   \fi}

```

109 File longtable-xetex-bidi.def

```

18157 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18158 \ExplSyntaxOn
18159 \def\LT@array[#1]#2{%
18160   \UseTaggingSocket{tbl/init}
18161   \tl_if_empty:eTF { \LTcatype }
18162   {
18163     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18164   }
18165   {
18166     \@kernel@refstepcounter{\LTcatype}\stepcounter{LT@tables}
18167     \tl_gset:Ne \@currentHref {\LTcatype.\cs_if_exist_use:c {theH\LTcatype}}
18168   }
18169   \tbl_gzero_row_count:
18170   \UseTaggingSocket{tbl/longtable/init}
18171   \if l#1%
18172     \ifRTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18173   \else\if r#1%
18174     \ifRTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18175   \else\if c#1%
18176     \LTleft\fill \LTright\fill
18177   \fi\fi\fi
18178   \let\LT@mc@multicolumn
18179   \let\LT@@tabarray\@tabarray
18180   \let\LT@@hl\hline
18181   \def\@tabarray{%
18182     \let\hline\LT@@hl
18183     \LT@@tabarray}%
18184   \let\@LT@tabularcr
18185   \let\@tabularnewline\@
18186   \def\newpage{\noalign{\break}}%
18187   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18188   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18189   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18190   \@tempdima\ht\strutbox
18191   \let\@endpbox\LT@endpbox
18192   \ifx\extrarowheight\@undefined
18193     \let\@acol\@tabacol
18194     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18195     \def\@startpbox{\vtop\LT@startpbox}%
18196     \let\@@startpbox\@startpbox
18197     \let\@@endpbox\@endpbox
18198     \let\LT@LL@FM@cr\@tabularcr

```



```

18199 \else
18200   \advance\@tempdima\extrarowheight
18201   \col@sep\tabcolsep
18202   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18203 \fi
18204 \setbox\@arstrutbox\hbox{\vrule
18205   \@height \arraystretch \@tempdima
18206   \@depth \arraystretch \dp \strutbox
18207   \@width \z@}%
18208 \let\@sharp#\let\protect\relax
18209 \begingroup
18210   \mkpream{#2}%
18211   \tbl_count_table_cols:
18212   \xdef\LT@bchunk{%
18213     \tbl_inbetween_rows:
18214     \global\advance\c@LT@chunks\@ne
18215     \global\LT@rows\z@\setbox\z@\vbox\bgroup
18216     \LT@setprevdepth
18217     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18218     \tabskip\z@ \@arstrut
18219     \UseTaggingSocket{tbl/row/begin}%
18220     \tbl_init_cell_data_for_row:
18221     \@preamble \tabskip\LTRight \cr}%
18222 \endgroup
18223 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18224 \LT@make@row
18225 \m@th\let\par\@empty
18226 \everycr{%
18227   \noalign{%
18228     \tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space
18229       row:~ \the\g__tbl_row_int \space
18230       column:~ \the\g__tbl_col_int
18231   }
18232   \tbl_if_row_was_started:T
18233   {
18234     \UseTaggingSocket{tbl/row/end}
18235     \tbl_inbetween_rows:
18236   }
18237   \int_compare:nNnT \LT@rows < \LTchunksize
18238   { \tbl_gincr_row_count: } % next is row about to start
18239 }%
18240 }%
18241 \lineskip\z@\baselineskip\z@
18242 \LT@bchunk}
18243 \ExplSyntaxOff
18244 \def\LT@makecaption#1#2#3{%
18245   \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
18246     \reset@font
18247     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18248     \ifdim\wd\@tempboxa>\hsize
18249       #1{#2: }#3%
18250     \else
18251       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18252   \fi

```



```

18253 \endgraf\vskip\baselineskip}%
18254 \hss}}
18255 \ApplyPatchCodeToPackage{caption}{%
18256 \renewcommand\LT@makecaption[3]{%
18257 \caption@LT@make{%
18258 \caption@LT@settype\LTcapttype
18259 \caption@LT@setup
18260 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18261 \caption@startrue#1\caption@starfalse
18262 \caption@prepare@stepcounter\LTcapttype
18263 \caption@begin\LTcapttype
18264 \caption@normalsize
18265 \vskip-\ht\strutbox
18266 \caption@ifdefined\FBifcapttop{%
18267 \let\caption@belowskip\@empty}{}%
18268 \caption@make@above
18269 \caption@@make{#2}{#3}\endgraf
18270 \caption@make@below
18271 \caption@end}}}%
18272 }
18273 \def\LT@startpbox#1{%
18274 \bgroup
18275 \color@begingroup
18276 \let\@footnotetext\LT@p@ftntext
18277 \let\@LTRfootnotetext\LT@p@LTRftntext
18278 \let\@RTLfootnotetext\LT@p@RTLftntext
18279 \setlength\hspace{#1}%
18280 \@arrayparboxrestore
18281 \everypar{%
18282 \vrule \@height \ht\@arstrutbox \@width \z@
18283 \everypar{}}}%
18284 }
18285 \long\def\LT@p@LTRftntext#1{%
18286 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%
18287 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18288 \long\def\LT@p@RTLftntext#1{%
18289 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%
18290 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18291 \def\LT@output{%
18292 \ifnum\outputpenalty <-\@Mi
18293 \ifnum\outputpenalty > -\LT@end@pen
18294 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18295 \else
18296 \setbox\z@\vbox{\unvbox\@cc1v}%
18297 \ifdim \ht\LT@lastfoot>\ht\LT@foot
18298 \dimen@ \pagegoal
18299 \advance\dimen@ \ht\LT@foot
18300 \advance\dimen@ -\ht\LT@lastfoot
18301 \ifdim\dimen@<\ht\z@
18302 \setbox\@cc1v\vbox{\unvbox\z@\copy\LT@foot\vss}%
18303 \@makecol
18304 \@outputpage
18305 \global\vsame\@colroom
18306 \setbox\z@\vbox{\box\LT@head}%

```



```

18307         \fi
18308     \fi
18309     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18310         \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18311         \UseTaggingSocket{tbl/longtable/foot}
18312     \if@RTLtab\egroup\endR\egroup\fi
18313 \fi
18314 \else
18315     \setbox\@cclv\vbox{%
18316         \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18317         \unvbox\@cclv\copy\LT@foot\vss
18318         \if@RTLtab\egroup\endR\egroup\fi
18319     }%
18320     \UseTaggingSocket{tbl/longtable/foot}
18321     \@makecol
18322     \@outputpage
18323     \global\vsizel\@colroom
18324     \copy\LT@head\nobreak
18325 \fi}

```

110 File `lscapexetex-bidi.def`

```

18326 \ProvidesFile{lscapexetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package for
18327 \RequirePackage{graphicx}
18328 \bidi@patchcmd{\LS@rot}{\rotatebox{90}}{\box\@outputbox}}{%
18329     \if@RTL
18330         \rotatebox[origin=br]{-90}{\box\@outputbox}%
18331     \else
18332         \rotatebox{90}{\box\@outputbox}%
18333     \fi
18334 }{}{}
18335
18336 \g@addto@macro{\landscape}{%
18337     \if@bidi@csdef{bidi@columnwidth}{%
18338         \bidi@columnwidth\columnwidth
18339     }{}%
18340     \let\bidi@left@footnoterule\left@footnoterule
18341     \let\bidi@right@footnoterule\right@footnoterule
18342     \def\left@footnoterule{%
18343         \if@RTL
18344             \bidi@right@footnoterule
18345         \else
18346             \bidi@left@footnoterule
18347         \fi
18348     }%
18349     \def\right@footnoterule{%
18350         \if@RTL
18351             \bidi@left@footnoterule
18352         \else
18353             \bidi@right@footnoterule
18354         \fi
18355     }%
18356 }

```



111 File mathtools-xetex-bidi.def

```
18357 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18358 \RequirePackage{graphicx}
18359 \MHInternalSyntaxOn
18360 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18361   \@namedef{MT_tagform_#1:n}##1
18362     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
18363 }
18364 \renewtagform{default}{\{()\}}
18365 \MHInternalSyntaxOff
```

112 File mdframed-xetex-bidi.def

```
18366 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18367 \newif\if@bidi@mdf@RTL
18368 \def\mdf@lrbox#1{%
18369   \mdf@patchamsthm%patch amsthm
18370   \if@RTL\@bidi@mdf@RTLtrue\fi%
18371   \@RTLfalse%
18372   \setbox#1\vbox\bgroup%
18373   \color@begingroup%
18374   \if@bidi@mdf@RTL\@RTLtrue\fi%
18375   \mdf@horizontalmargin@equation%
18376   \columnwidth=\hsize%
18377   \textwidth=\hsize%
18378   \let\if@nobreak\iffalse%
18379   \let\if@noskipsec\iffalse%
18380   \let\par\@par%
18381   \let\-\@dischyph%
18382   \let'\@acci\let'\@accii\let\=\@acciii%
18383   \parindent\z@ \parskip\z@skip%
18384   \linewidth\hsize%
18385   \@totalleftmargin\z@%
18386   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18387   \parfillskip\@flushglue \lineskip\normallineskip%
18388   \baselineskip\normalbaselineskip%
18389   %% \sloppy%
18390   \let\\\@normalcr%
18391   \mdf@par@local%New feature to restore parskip/parindent local in save box
18392   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18393   \@afterindentfalse%
18394   %\@afterheading%
18395 }
18396 \renewrobustcmd\mdfframedtitleenv[1]{%
18397   \mdf@lrbox{\mdf@frametitlebox}%
18398   \mdf@frametitlealignment%
18399   \leavevmode{\color{\mdf@frametitlefontcolor}%
18400     \normalfont\mdf@frametitlefont{#1}
18401     \ifbool{mdf@ignorelastdescenders}%
18402     {%
18403       \par\strut\par
18404       \unskip\unskip\setbox0=\lastbox
18405       \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
```




```

18406     }{}}%
18407     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18408     \endmdf@lrbox\relax%
18409     \mdf@ignorevbadness%
18410     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18411     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18412     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18413     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18414     \mdfframetitleboxtotalheight=\dimexpr
18415         \ht\mdf@frametitlebox
18416         +\dp\mdf@frametitlebox%
18417         +\mdf@frametitleaboveskip@length
18418         +\mdf@frametitlebelowskip@length
18419         \relax%
18420 }
18421
18422 \renewrobustcmd*\mdf@footnoteoutput{%
18423     \ifvoid\@mpfootins\else%
18424         \nobreak%
18425         \vskip\mdf@footnotedistance@length%
18426         \normalcolor%
18427         \bidi\@mpfootnoterule%
18428         \unvbox\@mpfootins%
18429     \fi%
18430 }
18431
18432
18433 \renewrobustcmd*\mdf@footnoteinput{%
18434     \def\@mpfn{\mpfootnote}%
18435     \def\thempfn{\thempfootnote}%
18436     \c@mpfootnote\z@%
18437     \let\@footnotetext\@mpfootnotetext%
18438     \let\LTRfootnotetext\@mpLTRfootnotetext%
18439     \let\RTLfootnotetext\@mpRTLfootnotetext%
18440 }

```

113 File media9-xetex-bidi.def

```

18441 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18442 \RequirePackage{bidi-media9}

```

114 File bidi-media9.sty

```

18443 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18444 {bidi fixes for media9 package for the XeTeX engine}
18445
18446 \keys_define:nn{media9/mbtn}{
18447     draft .code:n = {},
18448     final .code:n = {},
18449
18450     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18451     tooltip .value_required:n = {true},
18452
18453     overface .code:n = {

```



```

18454 \sbox\l_mix_poster_box{
18455 \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18456 \mix_pdfxform:n{\l_mix_poster_box}
18457 \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18458 },
18459 overface .value_required:n = {true},
18460
18461 downface .code:n = {
18462 \sbox\l_mix_poster_box{
18463 \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18464 \mix_pdfxform:n{\l_mix_poster_box}
18465 \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18466 },
18467 downface .value_required:n = {true},
18468
18469 3Dgotoview .code:n = {
18470 \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18471 \regex_replace_once:nnN{([~:~+):??.*}{\1}\l_tmpa_tl
18472 \tl_trim_spaces:N\l_tmpa_tl
18473 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18474 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18475 \tl_set:Nx\l_tmpb_tl{#1} %extract idx
18476 \regex_replace_once:nnN{([~:~+):??.*}{\1}\l_tmpb_tl
18477 \tl_trim_spaces:N\l_tmpb_tl
18478 \tl_if_blank:VF\l_tmpb_tl{
18479 \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18480 \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
18481 }{
18482 \regex_match:nVTF{^~d+$}\l_tmpb_tl{
18483 \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
18484 }{
18485 \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
18486 \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
18487 \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
18488 }
18489 }
18490 }
18491 \mix_pdfobj:nnn{}{dict}{
18492 /S/JavaScript/JS~(
18493 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18494 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18495 annotRM['\l_tmpa_tl']=
18496 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18497 }
18498 annotRM['\l_tmpa_tl'].activated=true;
18499 )
18500 \tl_if_blank:VF\l_tmpb_tl{
18501 /Next~<<
18502 /S/GoTo3DView
18503 /TA~\tl_use:c{ann@\l_tmpa_tl}
18504 /V\l_mix_vidx_tl
18505 >>
18506 }
18507 }

```



```

18508     \tl_gput_right:Nx\g_mix_btnactions_tl{\~\mix_pdflastobj:}
18509   }
18510   ){
18511     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18512     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18513       \tl_new:N\g_mix_refundefwarned_tl
18514       \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18515     }
18516   }
18517 },
18518 3Dgotoview .value_required:n = {true},
18519
18520 mediacommand .code:n = {
18521   \tl_set:Nx\l_tmpa_tl{#1}
18522   \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl %extract ref
18523   \tl_trim_spaces:N\l_tmpa_tl
18524   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18525     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18526       \tl_set:Nx\l_tmpb_tl{#1}
18527       \regex_replace_once:nnN{([~:~]+~?)}{\1}\l_tmpb_tl
18528       \tl_trim_spaces:N\l_tmpb_tl
18529       \regex_replace_all:nnN{^{\|}$}{\|}\l_tmpb_tl
18530       \tl_set:Nx\l_mix_cmd_tl{
18531         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18532       \tl_trim_spaces:N\l_mix_cmd_tl
18533       \tl_set:Nx\l_mix_arg_tl{
18534         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18535       \tl_trim_spaces:N\l_mix_arg_tl
18536       \mix_pdfobj:nnn{{dict}}{
18537         /S/JavaScript/JS~(
18538           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18539           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18540             annotRM['\l_tmpa_tl']=
18541               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18542           }
18543           annotRM['\l_tmpa_tl'].activated=true;
18544         )
18545       \tl_if_blank:VF\l_mix_cmd_tl{
18546         /Next~<<
18547         /S/RichMediaExecute
18548         /TA~\tl_use:c{ann@\l_tmpa_tl}
18549         /TI~\tl_use:c{main@\l_tmpa_tl}
18550         /CMD~<<
18551         /C~(\l_mix_cmd_tl)
18552         \tl_if_blank:VF\l_mix_arg_tl{
18553           /A~[\l_mix_arg_tl]
18554         }
18555       }
18556       >>
18557     }
18558   }
18559   \tl_gput_right:Nx\g_mix_btnactions_tl{\~\mix_pdflastobj:}
18560 }
18561 ){

```



```

18562     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18563     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18564         \tl_new:N\g_mix_refundefwarned_tl
18565         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18566     }
18567 }
18568 },
18569 mediacommand .value_required:n = {true},
18570
18571 jsaction .code:n = {
18572     \tl_set:Nx\l_tmpa_tl{#1}
18573     \regex_match:nVTF{^[^{}:]+.*$}\l_tmpa_tl{
18574         \regex_replace_once:nnN{([{}:]+):??.*}{\1}\l_tmpa_tl %extract ref
18575         \tl_trim_spaces:N\l_tmpa_tl
18576     }{\tl_clear:N\l_tmpa_tl}
18577     \tl_set:Nx\l_tmpb_tl{#1}
18578     \tl_if_blank:VF\l_tmpa_tl{
18579         \tl_if_exist:cF{ann@\l_tmpa_tl}{
18580             \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18581             \cs_if_exist:NF\g_mix_refundefwarned_tl{
18582                 \tl_new:N\g_mix_refundefwarned_tl
18583                 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18584             }
18585         }
18586         \regex_replace_once:nnN{[^:]+\:}{\}\l_tmpb_tl
18587     }
18588     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18589     \tl_trim_spaces:N\l_tmpb_tl
18590     \tl_if_blank:VF\l_tmpb_tl{
18591         \mix_pdfobj:nnn{}{dict}{
18592             /S/JavaScript/JS~(
18593                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}
18594         \bool_lazy_and:nnT{
18595             \tl_if_exist_p:c{ann@\l_tmpa_tl}
18596         }{
18597             !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18598         }{
18599             \mix_pdfobj:nnn{}{dict}{
18600                 /S/JavaScript/JS~(
18601                     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18602                     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18603                         annotRM['\l_tmpa_tl']=
18604                         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18605                     }
18606                     annotRM['\l_tmpa_tl'].activated=true;
18607                 )
18608                 \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18609             }
18610         }
18611         \bool_if:nT{
18612             \bool_lazy_and_p:nn{
18613                 \tl_if_exist_p:c{ann@\l_tmpa_tl}
18614             }{
18615                 !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}

```



```

18616     }
18617     || !\tl_if_blank_p:V\l_tmpb_tl
18618   }{
18619     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18620   }
18621 },
18622 jsaction .value_required:n = {true},
18623
18624 unknown .code:n = {
18625   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18626 }
18627 }
18628
18629 \RenewDocumentCommand\includemedia{0{mm}}{%#1 options, #2 text/image #3 media file
18630   \mix_uriend:
18631   \group_begin:
18632   \mix_beginLTR:
18633   \mode_leave_vertical:
18634   %empty stream as appearance dummy
18635   \cs_if_exist:NF\g_mix_appearance_tl{
18636     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18637     \mix_pdfxform:n{\l_mix_poster_box}
18638     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18639   }
18640   \mix_reset:
18641   \mix_uribegin: %treat URI characters correctly
18642   \keys_set:nn{media9/user}{#1}
18643   \mix_uriend:
18644   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18645   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18646   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
18647   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18648   \tl_gtrim_spaces:N\g_mix_flashvars_tl
18649
18650   \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18651
18652   %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18653   %\hbox_set:Nn\l_mix_poster_box{#2}
18654   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18655   \mix_scale:n{\l_mix_poster_box}
18656   \bool_if:nT{
18657     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18658     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18659   }{
18660     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18661   }
18662   \bool_if:NTF\g_mix_usrdraft_bool{
18663     \tl_if_empty:NF\g_mix_usrlabel_tl{
18664       \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18665     }
18666     \tl_if_blank:oTF{#2}{
18667       \mix_uribegin: %treat URI characters correctly
18668       \mix_draftbox:n{\tl_to_str:n{#3}}
18669       \mix_uriend:

```



```

18670   }{
18671     \hbox_to_wd:nn{\g_mix_wd_tl}{
18672       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18673       \box_use:N\l_mix_poster_box\hss
18674     }
18675   }
18676 }{
18677   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18678     %attach script that switches off play button overlay upon activation
18679     \mix_pdfobj:nnn{}{stream}{
18680       {}{
18681         var~ocgs=host.getOCGs(host.pageNum);
18682         for(var~i=0;i<ocgs.length;i++){
18683           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18684             ocgs[i].state=false;
18685           }
18686         }
18687       }
18688     }
18689     \mix_pdfobj:nnn{}{dict}{
18690       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18691     }
18692     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18693     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18694     %enforce plain playbutton overlay for XeTeX
18695     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18696   }
18697   %embed main asset
18698   \mix_uribegin:
18699   \mix_embedasset:n{#3}
18700   \bool_if:nTF{
18701     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18702   }{
18703     \bool_gset_true:N\g_mix_iiid_bool
18704     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18705   }{
18706     \str_case_e:nnF{\l_mix_base_tl}{
18707       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18708       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18709       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18710       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18711       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18712     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18713   }
18714   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18715   \mix_uriend:
18716   %secondary assets (added by addresource)
18717   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18718   \seq_map_inline:Nn\g_mix_script_seq{
18719     \mix_embedasset:n{##1}
18720     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18721   }
18722   %attach 3D calculation script
18723   \bool_if:nTF{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{

```



```

18724     \mix_embedasset:n{3Dmenu.js}
18725     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18726   }
18727   %create 3D views from file (option 3Dviews)
18728   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18729     \tl_set:Nn\l_mix_level_tl{-1}
18730     \int_zero:N\l_mix_viewcnt_int
18731     \int_zero:N\l_mix_lineno_int
18732
18733     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18734     \ior_map_inline:Nn\l_mix_vfile_stream{
18735       \int_incr:N\l_mix_lineno_int
18736       \keys_set:nn{media9/views}{##1} %process input line
18737     }
18738     \ior_close:N\l_mix_vfile_stream
18739   }
18740   \bool_if:nT{ %create default 3D view if required
18741     \g_mix_iiid_bool &&
18742     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18743   }{
18744     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18745     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18746     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18747     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18748     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18749     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18750     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18751
18752     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18753     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18754     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18755     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18756
18757     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18758     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18759     \tl_clear:N\l_mix_naarray_tl
18760
18761     \bool_if:NF\l_mix_ciiw_bool{
18762       \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18763       \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18764     }
18765
18766     \tl_clear:N\l_mix_naarray_tl
18767     \tl_clear:N\l_mix_saarray_tl
18768     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18769
18770     \mix_view:n{Default}
18771     \tl_set:Nx\l_mix_dfltvview_tl{\mix_pdflastobj:}
18772   }
18773   }
18774   \mix_pdfobj:nnn{}{dict}{
18775     /Type/RichMediaInstance
18776     /Subtype/\g_mix_mainassetsub_tl
18777     /Asset~\g_mix_mainasset_tl

```



```

18778     \bool_if:NF\g_mix_iiid_bool{
18779         /Params~<<
18780         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18781             /Foreground
18782         }{
18783             /Background
18784         }
18785         \tl_if_blank:VF\g_mix_flashvars_tl{
18786             /FlashVars~(\g_mix_flashvars_tl)
18787         }
18788         >>
18789     }
18790 }
18791 \tl_if_empty:NF\g_mix_usrlabel_tl{
18792     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18793 }
18794 \mix_pdfobj:nnn{}{dict}{
18795     /Type/RichMediaConfiguration
18796     /Subtype/\g_mix_mainassetssub_tl
18797     /Instances~[\mix_pdflastobj:]
18798 }
18799 \mix_pdfobj:nnn{}{dict}{
18800     /Type/RichMediaContent
18801     /Assets~<</Names~[\g_mix_assets_tl]>>
18802     /Configurations~[\mix_pdflastobj:]
18803     \bool_if:nT{
18804         \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18805     }{
18806         /Views~[\l_mix_iiidviewarray_tl]
18807     }
18808 }
18809 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18810 \bool_if:nT{
18811     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18812 }{
18813     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18814 }
18815 %determine floating window size
18816 \bool_if:NT\g_mix_opt_windowed_bool{
18817     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18818 }
18819 \mix_pdfobj:nnn{}{dict}{
18820     /Activation~<<
18821     /Condition\g_mix_act_tl
18822     \bool_if:nT{
18823         \g_mix_iiid_bool &&
18824         !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18825     }{%seems to work only with 3D content
18826     /Animation~<<
18827         /Subtype/\g_mix_playtpe_tl
18828         /PlayCount~\g_mix_playcnt_tl
18829         /Speed~\g_mix_playspd_tl
18830     >>
18831 }

```




```

18832 \bool_if:nT{
18833 \g_mix_iiid_bool && (
18834 \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18835 )
18836 }{/View~\l_mix_dfltview_tl}
18837 /Presentation~<<
18838 /Transparent~\g_mix_transp_tl
18839 \bool_if:NTF\g_mix_opt_windowed_bool{
18840 /Style/Windowed
18841 /Window~<<
18842 /Width~<</Default~\tl_mix_fltdwd>>
18843 /Height~<</Default~\tl_mix_fltht>>
18844 /Position~<<
18845 /HOffset~0/VOffset~0
18846 \str_case_e:nnF{\g_mix_winpos_tl}{
18847 {tl}{/VAlign/Near/HAlign/Near}
18848 {cl}{/VAlign/Center/HAlign/Near}
18849 {bl}{/VAlign/Far/HAlign/Near}
18850 {bc}{/VAlign/Far/HAlign/Center}
18851 {br}{/VAlign/Far/HAlign/Far}
18852 {cr}{/VAlign/Center/HAlign/Far}
18853 {tr}{/VAlign/Near/HAlign/Far}
18854 {tc}{/VAlign/Near/HAlign/Center}
18855 }{/HAlign/Center/VAlign/Center}
18856 >>
18857 >>
18858 }{
18859 /Style/Embedded
18860 }
18861 \bool_if:NTF\g_mix_iiid_bool{
18862 /Toolbar~\g_mix_tools_tl
18863 /NavigationPane~\g_mix_nav_tl
18864 }{
18865 /PassContextClick~\g_mix_contextclick_tl
18866 }
18867 >>
18868 \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18869 >>
18870 /Deactivation~<</Condition\g_mix_deact_tl>>
18871 }
18872 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18873 \tl_if_empty:NF\g_mix_usrlabel_tl{
18874 \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18875 }
18876 % #1:width, #2:height, #3:depth, #4:content (key-value)
18877 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18878 /Subtype/RichMedia
18879 /F~4
18880 /BS~<</W~0/S/S>>
18881 /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18882 /NM~(\g_mix_label_tl)
18883 /AP~<</N~\g_mix_appearance_tl>>
18884 /RichMediaSettings~\l_mix_settings_tl
18885 /RichMediaContent~\l_mix_content_tl

```



```

18886 }
18887 \tl_if_empty:NF\g_mix_usrlabel_tl{
18888   \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18889   \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18890     \noexpand\the\g@mix@page@int}
18891 }
18892 \mix_pdfobj:nnn{}{dict}{
18893   /S/JavaScript/JS~(
18894     try{
18895       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18896       if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18897         annotRM['\g_mix_label_tl']=
18898           this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18899       }
18900       \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18901         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18902           var~ocgs=this.getOCGs(this.pageNum);
18903           for(var~i=0;i<ocgs.length;i++){
18904             if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18905               var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18906             }
18907           }
18908         }
18909         if(
18910           !annotRM['\g_mix_label_tl'].activated&&(
18911             app.viewerType=='Reader' ||
18912             app.viewerType=='Exchange' ||
18913             app.viewerType=='Exchange-Pro'
18914           )&&app.viewerVersion>=9
18915         ){
18916           ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18917         }
18918       }
18919     }catch(e){}
18920     this.dirty=false;
18921   )
18922 }
18923 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18924   /Subtype/Widget
18925   /FT/Btn/Ff~65537/F~2
18926   /BS~<</W~0>>
18927   /T~(fd@\g_mix_label_tl)
18928   /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18929 }
18930 \mix_appendtofields:n{\mix_pdflastann:}
18931 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18932 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18933   \hbox_to_wd:nn{\g_mix_wd_tl}{
18934     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18935   }
18936 }{%insert play button overlay
18937   \mix_insert_btnocg: %create OCG
18938   \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
18939   \group_begin:

```



```

18940 \cs_if_exist:NT\textdir{\textdir TLT}
18941 \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18942 \box_move_down:nn{\g_mix_dp_tl}{
18943 \hbox_to_wd:nn{\g_mix_wd_tl}{
18944 \vbox_to_ht:nn{\g_mix_tt_tl}{
18945 \vss
18946 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18947 \box_use:N\l_mix_pbtn_box
18948 \ocgbase_oc_emc:
18949 }
18950 }
18951 }
18952 \group_end:
18953 }
18954 \int_gincr:N\g_mix_rmcnt_int
18955 }
18956 \mix_endLTR:
18957 \group_end:
18958 }
18959 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18960 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18961
18962 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
18963 \mix_urriend:
18964 \group_begin:
18965 \mix_beginLTR:
18966 \mode_leave_vertical:
18967 %reset various variables
18968 \tl_gclear:N\g_mix_overbtn_tl
18969 \tl_gclear:N\g_mix_downbtn_tl
18970 \tl_gclear:N\g_mix_btnactions_tl
18971 \tl_gclear:N\g_mix_tooltip_tl
18972 %process options
18973 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
18974 \mix_uribegin: %treat URI characters correctly
18975 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
18976 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18977 \mix_urriend:
18978 %normal button appearance
18979 %\hbox_set:Nn\l_mix_poster_box{#2}
18980 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18981 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18982 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
18983 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
18984 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
18985 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
18986 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
18987 \mix_pdfxform:n{\l_mix_poster_box}
18988 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
18989 %insert widget annotation
18990 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
18991 /Subtype/Widget
18992 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
18993 \tl_if_empty:NF\g_mix_tooltip_tl{TU~(\g_mix_tooltip_tl)}

```



```

18994 /FT/Btn/Ff~65536
18995 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
18996 /AP~<<
18997 /N~\g_mix_normalbtn_tl
18998 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
18999 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
19000 >>
19001 /MK~<<
19002 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19003 /I~\g_mix_normalbtn_tl
19004 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
19005 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
19006 >>
19007 /A~<<
19008 /S/JavaScript/JS~(app.focusRect=false;)
19009 %sequence of actions to perform
19010 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
19011 >>
19012 }
19013 \mix_appendtofields:n{\mix_pdflastann:}
19014 \hbox_to_wd:nn{\width}{
19015 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
19016 }
19017 \int_gincr:N\g_mix_mbtncnt_int
19018 }
19019 \mix_endLTR:
19020 \group_end:
19021 }
19022 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19023 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19024

```

115 File memoir-xetex-bidi.def

```

19025 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
19026 \renewcommand{\keepthetitle}{%
19027 \@bsmtitleempty
19028 \global\let\thanks\relax
19029 \global\let\LTRthanks\relax
19030 \global\let\RTLthanks\relax
19031 \global\let\and\relax
19032 \global\let\andnext\relax
19033 \global\let\@thanks\@empty
19034 \global\let\@title\@empty
19035 \global\let\@author\@empty
19036 \global\let\@date\@empty}
19037 \renewcommand{\maketitle}{\par
19038 \beginingroup
19039 \@bsmarkseries
19040 \def\@makefnmark{\@textsuperscript{%
19041 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
19042 \long\def\@makefntext##1{\makethanksmark ##1}
19043 \if@twocolumn
19044 \ifnum \col@number=\@ne

```



```

19045      \@maketitle
19046      \else
19047        \twocolumn[\@maketitle]%
19048      \fi
19049    \else
19050      \ifdim\pagetotal>\z@
19051        \newpage
19052      \fi
19053      \global\@topnum\z@
19054      \@maketitle
19055    \fi
19056    \thispagestyle{title}\@thanks
19057  \endgroup
19058  \@bscontmark % \setcounter{footnote}{0}%
19059 }
19060 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19061 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19062 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrighskip\else\vleftskip\fi}
19063 \renewcommand*{\memRTLvrighskip}{\if@RTL\vleftskip\else\vrighskip\fi}
19064 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19065 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19066 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19067 \renewcommand*{\thesubsection}{%
19068   \thesection\@SepMark\@arabic\c@subsection}
19069 \renewcommand*{\thesubsubsection}{%
19070   \thesubsection\@SepMark\@arabic\c@subsubsection}
19071 \renewcommand*{\theparagraph}{%
19072   \thesubsubsection\@SepMark\@arabic\c@paragraph}
19073 \renewcommand*{\thesubparagraph}{%
19074   \theparagraph\@SepMark\@arabic\c@subparagraph}
19075 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19076 \renewcommand{\theequation}{%
19077   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19078 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19079 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19080 \ifartopt
19081   \chapterstyle{article}
19082   \counterwithout{figure}{chapter}
19083   \counterwithout{table}{chapter}
19084   \counterwithout{footnote}{chapter}
19085   \counterwithout{equation}{chapter}
19086   \renewcommand{\chaptername}{}
19087   \renewcommand{\maketitlehookb}{%
19088     \vskip -1.5\topsep\vskip -1.5\partopsep}
19089   \renewcommand{\maketitlehookc}{%
19090     \vskip -1.5\topsep\vskip -1.5\partopsep}
19091 \fi
19092 \long\def\@makecaption#1#2{\let\@memtempa\relax
19093   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19094   \else \def\@memtempa{\vbox to\topskip{}}\fi
19095   \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
19096   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
19097   \sbox\@tempboxa{\@contnfont #1\@contndelim \@conttfnt #2\@contfinal}
19098   \let\footnote\@contfnote

```



```

19099 \let\footnotemark\@contfmark
19100 \ifdim\wd\@tempboxa<\linewidth \centering \fi
19101 \if@contcw
19102   \centering
19103   \parbox{\@contcwidth}{%
19104     \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19105   \fi
19106 \ifdim\wd\@tempboxa<\linewidth
19107   \@contpre
19108   {\@contnfont #1\@contdelim}\@memtempa
19109   {\@contcshortstyle \@conttfont #2\@contfinal\par}
19110 \else
19111   \if@conthang
19112     \sbox\@tempboxa{\@contnfont #1\@contdelim}
19113     \@contpre%
19114     {\@contcstyle\hangindent=\wd\@tempboxa
19115       \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19116   \else
19117     \if@contindent
19118       \@contpre%
19119       {\@contnfont #1\@contdelim}\@memtempa
19120       {\@contcstyle\hangindent=\@contindw
19121         \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19122     \else
19123       \@contpre%
19124       {\@contnfont #1\@contdelim}\@memtempa
19125       {\@contcstyle \@conttfont #2\@contfinal\par}
19126     \fi
19127   \fi
19128 \fi
19129 \@contpost
19130 \if@contcw
19131   \par
19132 } % end of the \parbox
19133 \fi
19134 \vskip\belowcaptionskip}
19135 \ApplyPatchCodeToPackage{caption}{%
19136 \AtBeginPackage{caption}{
19137 \ClassWarningNoLine{memoir}{%
19138   You are using the caption package with the memoir \MessageBreak
19139   class. This may cause unexpected or inconsistent \MessageBreak
19140   results if you use any of memoir's captioning facilities}
19141 }
19142 \long\def\@makecaption##1##2{%
19143   \vskip\abovecaptionskip
19144   \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19145   \ifdim \wd\@tempboxa >\hsize
19146     \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19147   \else
19148     \global \@minipagefalse
19149     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19150   \fi
19151   \vskip\belowcaptionskip}
19152

```



```

19153 \def\caption{%
19154   \ifx\@capttype\@undefined
19155     \@latex@error{\noexpand\caption outside float}\@ehd
19156     \expandafter\@gobble
19157   \else
19158     \refstepcounter\@capttype
19159     \expandafter\@firstofone
19160   \fi
19161   {\@dblarg{\@caption\@capttype}}%
19162 }
19163
19164 \long\def\@caption##1[##2]##3{%
19165   \par
19166   \addcontentsline{\csname ext@##1\endcsname}{##1}%
19167     {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19168   \begingroup
19169     \@parboxrestore
19170     \if@minipage
19171       \setminipage
19172     \fi
19173     \normalsize
19174     \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19175   \endgroup}
19176 }}
19177 \renewenvironment{thebibliography}[1]{%
19178   \bibsection
19179   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19180   \bidi@thebibliography@font@hook%
19181   \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

116 File midfloat-xetex-bidi.def

```

19182 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19183 \def\RTL@outputdblcol{%
19184   \if@firstcolumn
19185     \global \@firstcolumnfalse
19186     \global\setbox\@leftcolumn\copy\@outputbox
19187     \splitmaxdepth\maxdimen
19188     \vbadness\maxdimen
19189     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19190     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19191     \toks@\expandafter{\topmark}%
19192     \xdef\@firstcoltopmark{\the\toks@}%
19193     \toks@\expandafter{\splitfirstmark}%
19194     \xdef\@firstcolfirstmark{\the\toks@}%
19195     \ifx\@firstcolfirstmark\@empty
19196       \global\let\@setmarks\relax
19197     \else
19198       \gdef\@setmarks{%
19199         \let\firstmark\@firstcolfirstmark
19200         \let\topmark\@firstcoltopmark}%
19201     \fi
19202     \global\c@colht\@colht\global\c@addvipersep\z@
19203     \ifnum\jua@sk>0

```



```

19204      \remove@strip\jua@sar
19205      \global\@colht\the\jua@pr
19206      \ifdim\right@cor>\z@
19207          \global\advance\@colht by\right@cor
19208      \fi
19209      \global\advance\@colht by\cor@height
19210      \global\cor@height=0pt
19211  \fi
19212  \global \setbox\@rightcolumn \vbox{%
19213  \else
19214      \ifdim\c@colht>\@colht
19215          \@tempdima\@colht
19216          \ifdim\@colht>\z@
19217              \global\setbox\@rightcolumn \vbox{%
19218                  \unvbox\@rightcolumn
19219                  \vbox to\@tempdima{%
19220                      \vskip\c@addvipersep\unvbox\@outputbox}%
19221                  \vskip\stripsep
19222                  \vrule height\the\jua@ht width 0pt depth 0pt
19223                  \vskip\stripsep
19224                  }%
19225              \global\c@addvipersep\m@addvipersep
19226          \else
19227              \global\setbox\@rightcolumn \vbox{%
19228                  \unvbox\@rightcolumn
19229                  \vrule height\the\jua@ht width 0pt depth 0pt
19230                  \vskip\stripsep
19231                  }%
19232          \fi
19233      \ifnum\jua@sk>0
19234          \remove@strip\jua@sar
19235          \global\@colht\the\jua@pr
19236          \global\advance\@colht by -\ht\@rightcolumn
19237          \global\advance\@colht by\cor@height
19238          \global\cor@height=0pt
19239      \else
19240          \global\advance\c@colht by-\ht\@rightcolumn
19241          \global\@colht\c@colht
19242      \fi
19243  \else
19244      \global\@firstcolumntrue
19245      \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19246          \unvbox\@rightcolumn
19247          \vskip\c@addvipersep
19248          \unvbox\@outputbox
19249          }%
19250      \setbox\@outputbox \vbox {%
19251          \hb@xt@\textwidth {%
19252              \hskip \columnwidth
19253              \hfil
19254              \vrule \@width\columnseprule
19255              \hfil
19256              \hb@xt@\columnwidth {%
19257                  \bidi@firstcolumn@status@write%

```




```

19258             \box\@leftcolumn \hss}%
19259             \hskip-\textwidth
19260             \hb@xt@\columnwidth {%
19261                 \bidi@lastcolumn@status@write%
19262                 \box\@outputbox \hss}%
19263             \hskip\columnwidth
19264             \hskip\columnsep}%
19265             }%
19266     \@combinedblfloats
19267     \@setmarks
19268     \@outputpage
19269     \begingroup
19270         \@dblfloatplacement
19271         \@startdblcolumn
19272         \@whiles\if@fcolmade \fi
19273         {\@outputpage
19274         \@startdblcolumn}%
19275     \endgroup
19276     \global\jua@sk=0\global\jua@sar={}%
19277     \global\cor@height\z@\global\c@advvipersep\z@
19278     \fi
19279 \fi
19280 }
19281
19282
19283 \def\LTR@outputdblcol{%
19284     \if@firstcolumn
19285         \global \@firstcolumnfalse
19286         \global\setbox\@leftcolumn\copy\@outputbox
19287         \splitmaxdepth\maxdimen
19288         \vbadness\maxdimen
19289         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19290         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19291         \toks@\expandafter{\topmark}%
19292         \xdef\@firstcoltopmark{\the\toks@}%
19293         \toks@\expandafter{\splitfirstmark}%
19294         \xdef\@firstcolfirstmark{\the\toks@}%
19295         \ifx\@firstcolfirstmark\@empty
19296             \global\let\@setmarks\relax
19297         \else
19298             \gdef\@setmarks{%
19299                 \let\firstmark\@firstcolfirstmark
19300                 \let\topmark\@firstcoltopmark}%
19301         \fi
19302         \global\c@colht\@colht\global\c@advvipersep\z@
19303         \ifnum\jua@sk>0
19304             \remove@strip\jua@sar
19305             \global\@colht\the\jua@pr
19306             \ifdim\right@cor>\z@
19307                 \global\advance\@colht by\right@cor
19308             \fi
19309             \global\advance\@colht by\cor@height
19310             \global\cor@height=0pt
19311         \fi

```



```

19312 \global \setbox\@rightcolumn \vbox{%
19313 \else
19314 \ifdim\c@colht>\@colht
19315 \@tempdima\@colht
19316 \ifdim\@colht>\z@
19317 \global\setbox\@rightcolumn \vbox{%
19318 \unvbox\@rightcolumn
19319 \vbox to\@tempdima{%
19320 \vskip\c@addvipersep\unvbox\@outputbox}%
19321 \vskip\stripsep
19322 \vrule height\the\jua@ht width 0pt depth 0pt
19323 \vskip\stripsep
19324 }%
19325 \global\c@addvipersep\m@addvipersep
19326 \else
19327 \global\setbox\@rightcolumn \vbox{%
19328 \unvbox\@rightcolumn
19329 \vrule height\the\jua@ht width 0pt depth 0pt
19330 \vskip\stripsep
19331 }%
19332 \fi
19333 \ifnum\jua@sk>0
19334 \remove@strip\jua@sar
19335 \global\@colht\the\jua@pr
19336 \global\advance\@colht by -\ht\@rightcolumn
19337 \global\advance\@colht by\cor@height
19338 \global\cor@height=0pt
19339 \else
19340 \global\advance\c@colht by-\ht\@rightcolumn
19341 \global\@colht\c@colht
19342 \fi
19343 \else
19344 \global\@firstcolumntrue
19345 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19346 \unvbox\@rightcolumn
19347 \vskip\c@addvipersep
19348 \unvbox\@outputbox
19349 }%
19350 \setbox\@outputbox \vbox {%
19351 \hb@xt@\textwidth {%
19352 \hb@xt@\columnwidth {%
19353 \bidi@firstcolumn@status@write%
19354 \box\@leftcolumn \hss}%
19355 \hfil
19356 \vrule \@width\columnseprule
19357 \hfil
19358 \hb@xt@\columnwidth {%
19359 \bidi@lastcolumn@status@write%
19360 \box\@outputbox \hss}%
19361 }%
19362 }%
19363 \@combinedblfloats
19364 \@setmarks
19365 \@outputpage

```



```

19366 \beginngroup
19367 \@dblfloatplacement
19368 \@startdblcolumn
19369 \@whiles\if@fcolmade \fi
19370 {\@outputpage
19371 \@startdblcolumn}%
19372 \endgroup
19373 \global\jua@sk=0\global\jua@sar={}%
19374 \global\cor@height\z@\global\c@advvipersep\z@
19375 \fi
19376 \fi
19377 }
19378
19379
19380 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19381 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19382 \hsize\textwidth
19383 \@parboxrestore
19384 \col@number \@ne
19385 \vrule height\topskip width0pt depth0pt
19386 }
19387
19388 \def\endstrip{%
19389 \egroup\egroup
19390 \if@firstcolumn
19391 \ifdim\pagetotal>\z@
19392 \vskip\stripsep
19393 \global\ht@strip\pagegoal
19394 \global\advance\ht@strip by-\pagetotal
19395 \global\advance\ht@strip by-\stripsep
19396 \global\advance\ht@strip by-\ht\@viper
19397 \global\advance\ht@strip by-\stripsep
19398 \global\jua@ht=\ht\@viper
19399 \else
19400 \global\ht@strip\z@
19401 \fi
19402 \ifdim\ht@strip>\z@
19403 \unvbox\@viper
19404 \vskip\stripsep
19405 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19406 \global\advance\jua@sk by1
19407 \else
19408 \@latex@error{Strip needs more place!}\@ehc
19409 \if@vihproof
19410 \framebox[\columnwidth]{??? Strip ???}%
19411 \fi
19412 \fi
19413 \else
19414 \@latex@error{Strip is used only on left column!}\@ehc
19415 \if@vihproof
19416 \framebox[\columnwidth]{??? Strip ???}%
19417 \fi
19418 \fi
19419 }

```



117 File minitoc-xetex-bidi.def

```

19420 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19421 \def\@undottedtocline#1#2#3#4#5{%
19422   \ifnum #1>\c@tocdepth\relax \else
19423     \vskip \z@ plus.2\p@
19424     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19425     \parindent #2\relax\@afterindenttrue
19426     \interlinepenalty\@M
19427     \leavevmode
19428     \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
19429     \hskip -\if@RTL\righskip\else\leftskip\fi
19430     #4\nobreak\hfill \nobreak
19431     \null\par}%
19432   \fi}
19433 \def\@Undottedtocline#1#2#3#4#5{%
19434   \ifnum #1>\c@tocdepth\relax \else
19435     \vskip \z@ \@plus.2\p@
19436     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
19437     \parindent #2\relax\@afterindenttrue
19438     \interlinepenalty\@M
19439     \leavevmode
19440     \@tempdima #3\relax
19441     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19442     {\coffefont #4}\nobreak \nobreak\null
19443     \par}%
19444   \fi}
19445 \def\@Undottedtoclinep#1#2#3#4#5{%
19446   \ifnum #1>\c@tocdepth\relax \else
19447     \vskip \z@ \@plus.2\p@
19448     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
19449     \parindent #2\relax\@afterindenttrue
19450     \interlinepenalty\@M
19451     \leavevmode
19452     \@tempdima #3\relax
19453     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19454     {#4}\nobreak \hfill \nobreak\null
19455     \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19456     \par}%
19457   \fi}

```

118 File multicol-xetex-bidi.def

```

19458 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package
19459 \def\page@sofar{%
19460   \process@cols\mult@rightbox
19461   {\ifvoid\count@
19462     \setbox\count@\hbox to\hsize{}%
19463     \else
19464       \wd\count@\hsize
19465     \fi}%
19466   \count@\col@number \advance\count@\m@ne
19467   \mult@info\z@
19468   {Column spec: \the\full@width\space = indent

```



```

19469         + columns + sep =\MessageBreak
19470         \the\multicol@leftmargin\space
19471         + \the\col@number\space
19472         x \the\hsize\space
19473         + \the\count@\space
19474         x \the\columnsep
19475     }%
19476 \ifvmode\else\errmessage{Multicol Error}\fi
19477 \nointerlineskip
19478 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19479 \moveright\multicol@leftmargin
19480 \hbox to\full@width{%
19481     \bidi@multicol@align@columns
19482     \rlap{\phantom p}%
19483 }%
19484 \prevdepth\z@
19485 \kern-\dimen\tw@
19486 \ifdim\dimen\tw@ > \mc@gridwarn
19487 \PackageWarning{multicol}%
19488 {Very deep columns!\MessageBreak
19489 Grid alignment might be broken}%
19490 \fi
19491 }
19492 \def\LTR@column@boxes{%
19493     \process@cols\mult@firstbox{%
19494         \ifdim\dp\count@>\dimen\tw@
19495             \global\dimen\tw@\dp\count@ \fi
19496         \mc@col@status@write
19497         \box\count@
19498         \hss{\columnseprulecolor\vrule
19499             \@width\columnseprule}\hss}%
19500     \ifdim\dp\mult@rightbox>\dimen\tw@
19501         \global\dimen\tw@\dp\mult@rightbox \fi
19502     \mc@lastcol@status@write
19503     \box\mult@rightbox
19504 }
19505
19506 \def\RTL@column@boxes{%
19507     \process@cols\mult@firstbox{%
19508         \hskip\hsize
19509         \hss{\columnseprulecolor\vrule
19510             \@width\columnseprule}\hss
19511     }%
19512     \hskip\hsize
19513     \process@cols\mult@firstbox{%
19514         \ifdim\dp\count@>\dimen\tw@
19515             \global\dimen\tw@\dp\count@ \fi
19516         \hskip-\hsize
19517         \mc@col@status@write
19518         \box\count@
19519         \hskip-\hsize
19520         \hskip-\columnsep
19521     }%
19522     \ifdim\dp\mult@rightbox>\dimen\tw@

```



```

19523     \global\dimen\tw@\dp\mult@rightbox \fi
19524     \hskip-\hsize
19525     \mc@lastcol@status@write
19526     \box\mult@rightbox
19527     \hskip-\hsize
19528     \hskip\full@width
19529 }
19530
19531 \newcommand\RTLmulticolcolumns
19532   {\let\bidimulticol@align@columns
19533     \RTL@column@boxes}
19534 \newcommand\LTRmulticolcolumns
19535   {\let\bidimulticol@align@columns
19536     \LTR@column@boxes}
19537 \newcommand\bidimulticol@align@columns
19538   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19539 \bidimulticol@AtEndPreamble{%
19540   \if@bidimulticol@csdef{footinsv@1}{%
19541     \def\footnoterule{\kern-3\p@
19542       \hrule \@width \textwidth \kern 2.6\p@}%
19543   }{}%
19544 }
19545 \def\multicols#1{\col@number#1\relax
19546   \ifnum\col@number<\tw@
19547     \PackageWarning{multicol}%
19548       {Using '\number\col@number'
19549         columns doesn't seem a good idea.^^J
19550         I therefore use two columns instead}%
19551     \col@number\tw@ \fi
19552   \ifnum\col@number>20
19553     \PackageError{multicol}%
19554       {Too many columns}%
19555     {Current implementation doesn't
19556       support more than 20 columns.%
19557       \MessageBreak
19558       I therefore use 20 columns instead}%
19559   \col@number20 \fi
19560   \ifx\@footnotetext\mult@footnotetext
19561   \else
19562     \let\orig@footnotetext\@footnotetext
19563     \let\@footnotetext\mult@footnotetext
19564   \fi
19565   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19566   \else
19567     \let\orig@LTRfootnotetext\@LTRfootnotetext
19568     \let\@LTRfootnotetext\mult@LTRfootnotetext
19569   \fi
19570   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19571   \else
19572     \let\orig@RTLfootnotetext\@RTLfootnotetext
19573     \let\@RTLfootnotetext\mult@RTLfootnotetext
19574   \fi
19575   \@ifnextchar[\mult@cols{\mult@cols[]}}
19576 \long\def\mult@footnotetext#1{\begingroup

```



```

19577         \hsize\textwidth
19578         \columnwidth\textwidth
19579         \orig@footnotetext{#1}\endgroup}
19580 \long\def\mult@LTRfootnotetext#1{\begingroup
19581         \hsize\textwidth
19582         \columnwidth\textwidth
19583         \orig@LTRfootnotetext{#1}\endgroup}
19584 \long\def\mult@RTLfootnotetext#1{\begingroup
19585         \hsize\textwidth
19586         \columnwidth\textwidth
19587         \orig@RTLfootnotetext{#1}\endgroup}
19588 \def\right@footnoterule{%
19589     \kern-3\p@
19590     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19591     \kern2.6\p@}
19592 \def\textwidth@footnoterule{\kern-3\p@
19593     \hrule \@width \textwidth \kern 2.6\p@}
19594 \def\bidileave@mult@copyins{%
19595     \advance\dimen@-\skip\@bidi@copyins@
19596     \advance\dimen@-\ht\@bidi@copyins@
19597 }
19598
19599 \bidi@AtEndPreamble{%
19600     \if@bidi@csundef{footinsv01}{%
19601         \bidi@patchcmd{\multi@column@out}{%
19602             \ifvbox \@kludgeins
19603         }{%
19604             \ifvoid\@bidi@copyins@ \else
19605                 \bidileave@mult@copyins
19606             \fi
19607             \ifvbox \@kludgeins
19608         }{}{}%
19609     }{}%
19610 }
19611
19612

```

119 File multienum-xetex-bidi.def

```

19613 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19614 \renewcommand{\itemx}[1]{\parbox[t]%
19615 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19616 \parbox[t]{\remainx}{\bidi@raggedright #1\par}%\smallskip
19617 \renewcommand{\itemxx}[2]{\parbox[t]%
19618 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19619 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19620 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19621 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19622 \renewcommand{\itemxxx}[3]{\parbox[t]%
19623 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19624 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19625 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19626 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19627 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%

```



```

19628 \parbox[t]{0.3333\remainxxxx}{\bidi@raggedright #3}\par}%\smallskip
19629 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
19630 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19631 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19632 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19633 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19634 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19635 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19636 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19637 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19638 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
19639 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19640 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
19641 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19642 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
19643 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19644 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
19645 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19646 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
19647 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19648 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
19649 \renewcommand{\itemxox}[2]{\parbox[t]{%
19650 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19651 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19652 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19653 \parbox[t]{0.3333\remainxxxx}{\bidi@raggedright #2}\smallskip}
19654 \renewcommand{\itemxxo}[2]{\parbox[t]{%
19655 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19656 \parbox[t]{0.3333\remainxxxx}{\bidi@raggedright #1}\hfill%
19657 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19658 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19659 \renewcommand{\itemxox}[3]{\parbox[t]{%
19660 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19661 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19662 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19663 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19664 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19665 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19666 \renewcommand{\itemxxox}[3]{\parbox[t]{%
19667 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19668 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19669 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19670 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19671 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19672 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19673 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19674 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19675 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19676 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19677 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19678 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19679 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```



120 File natbib-xetex-bidi.def

```
19680 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19681 \renewenvironment{thebibliography}[1]{%
19682   \bibsection
19683   \parindent\z@
19684   \bibpreamble
19685   \bibfont
19686   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19687   \bidi@@thebibliography@font@hook%
19688   \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19689   \ifNAT@openbib
19690     \renewcommand\newblock{\par}%
19691   \else
19692     \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19693   \fi
19694   \sloppy\clubpenalty4000\widowpenalty4000
19695   \sfcode\.\@m
19696   \let\NAT@bibitem@first@sw\@firstoftwo
19697     \let\citeN\cite \let\shortcite\cite
19698     \let\citeasnoun\cite
19699 }{%
19700   \bibitem@fin
19701   \bibpostamble
19702   \def\@noitemerr{%
19703     \PackageWarning{natbib}{Empty `thebibliography' environment}%
19704   }%
19705   \endlist
19706   \bibcleanup
19707 }%
```

121 File newfloat-xetex-bidi.def

```
19708 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package
19709 \renewcommand*\newfloat@setwithin[2]{%
19710   \ifcsname c@chapter\endcsname
19711     \@removefromreset{#1}{chapter}%
19712   \fi
19713   \@removefromreset{#1}{section}%
19714   \edef\@tempa{#2}%
19715   \ifx\@tempa\@empty
19716     \def\@tempa{none}%
19717   \fi
19718   \def\@tempb{none}%
19719   \ifx\@tempa\@tempb
19720     \ifcsname c@chapter\endcsname
19721       \@chapterlistsgap@off{#1}%
19722     \fi
19723     \newfloat@@setwithin{#1}{\@tempa}%
19724   \else
19725     \def\@tempb{chapter}%
19726     \ifx\@tempa\@tempb
19727       \@addtoreset{#1}{chapter}%
19728     \fi
19729     \@chapterlistsgap@on{#1}%
19730   \fi
19731 }
```



```

19729     \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19730     \else
19731     \def\@tempb{section}%
19732     \ifx\@tempa\@tempb
19733     \@addtoreset{#1}{section}%
19734     \ifcsname c@chapter\endcsname
19735     \@addtoreset{#1}{chapter}%
19736     \@chapterlistsgap@on{#1}%
19737     \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19738     \else
19739     \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
19740     \fi
19741     \else
19742     \newfloat@Error{Invalid value `#2' for option `within'}%
19743     \fi
19744     \fi
19745     \fi}

```

122 File nicematrix-xetex-bidi.def

```

19746 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
19747 \ExplSyntaxOn
19748 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19749 \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19750 \@tabarray
19751 }{}{}
19752 \ExplSyntaxOff
19753

```

123 File ntheorem-xetex-bidi.def

```

19754 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package
19755 \gdef\@thm#1#2#3{%
19756 \if@thmmarks
19757 \stepcounter{end\InTheoType ctr}%
19758 \fi
19759 \renewcommand{\InTheoType}{#1}%
19760 \if@thmmarks
19761 \stepcounter{curr#1ctr}%
19762 \setcounter{end#1ctr}{0}%
19763 \fi
19764 \refstepcounter{#2}%
19765 \theorem@prework
19766 \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
19767 \ifvmode \advance\thm@topsepadd\partopsep\fi
19768 \trivlist
19769 \@topsep \theorem@preskipamount
19770 \@topsepadd \thm@topsepadd % used by \@endparenv
19771 \advance\linewidth -\theorem@indent
19772 \advance\@totalleftmargin \theorem@indent
19773 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19774 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```



124 File ntheorem-hyper-xetex-bidi.def

```

19775 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
19776 \gdef\@thm#1#2#3{%
19777   \if@thmmarks
19778     \stepcounter{end\InTheoType ctr}%
19779   \fi
19780   \renewcommand{\InTheoType}{#1}%
19781   \if@thmmarks
19782     \stepcounter{curr#1ctr}%
19783     \setcounter{end#1ctr}{0}%
19784   \fi
19785   \refstepcounter{#2}%
19786   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19787   \ifvmode \advance\thm@topsepadd\partopsep\fi
19788   \trivlist
19789   \@topsep \theorempreskipamount
19790   \@topsepadd \thm@topsepadd % used by \@endparenv
19791   \advance\linewidth -\theorem@indent
19792   \advance\@totalleftmargin \theorem@indent
19793   \ifRTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19794   \ifnextchar [\@ythm{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

125 File overpic-xetex-bidi.def

```

19795 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19796 \renewenvironment{overpic}[2][{}]{%
19797   \sbox{\z@}{\includegraphics[#1]{#2}}%
19798   \settodepth{\@tempcnta}{\usebox{\z@}}%
19799   \settoheight{\@tempcntb}{\usebox{\z@}}%
19800   \advance\@tempcntb\@tempcnta%
19801   \settowidth{\@tempcnta}{\usebox{\z@}}%
19802   \setlength{\@tempdima}{\unitlength}%
19803   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19804   %
19805   \OVP@calc%
19806   %
19807   \begin{picture}(\@tempcnta,\@tempcntb)%
19808     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19809     \ifGin@grid%
19810       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19811         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19812     \fi\fi%
19813     % reset the graphics parameter
19814     \let\Gin@outer@scalex\relax
19815     \let\Gin@outer@scaley\relax
19816     \let\Gin@angle\relax
19817     \let\Gin@ewidth\Gin@exclamation
19818     \let\Gin@eheight\Gin@ewidth
19819     \def\Gin@scalex{1}
19820     \let\Gin@scaley\Gin@exclamation
19821   }{%
19822     \ifRTL\ifGin@grid%
19823       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%

```



```

19824      \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19825      \fi%
19826      \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19827    \end{picture}%
19828  }%

```

126 File pdfbase-xetex-bidi.def

```

19829 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19830 \ExplSyntaxOn
19831 \cs_set_eq:Nn\pbs_outputpage_orig:\@outputpage
19832 \cs_set_nopar:Npn\@outputpage{
19833   \int_gincr:N\g_pbs_page_int
19834   \box_if_vertical:cTF{\outputbox}{
19835     \bool_set_true:N\l_pbs_is_vertical_bool
19836   }{
19837     \bool_set_false:N\l_pbs_is_vertical_bool
19838   }
19839   \hbox_set:Nn\@outputbox{
19840     %begin of page
19841     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19842     \box_use_drop:N\@outputbox
19843     %end of page
19844     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19845   }
19846   \bool_if:NT\l_pbs_is_vertical_bool{
19847     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19848   }
19849   \pbs_outputpage_orig:
19850 }
19851 \ExplSyntaxOff

```

127 File pdfscape-xetex-bidi.def

```

19852 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
19853 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19854   \if@RTL
19855     \PLS@Rotate{-90}%
19856   \else
19857     \PLS@Rotate{90}%
19858   \fi
19859 }{}{}

```

128 File pgfcorescopes.code-xetex-bidi.def

```

19860 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19861 \def\pgfpicture{%
19862   \begingroup%
19863     \ifmmode\else\@RTLfalse\beginL\fi%
19864     \pgfpicturetrue%
19865     \global\advance\pgf@picture@serial@count by1\relax%
19866     \edef\pgfpictureid{\pgfid\the\pgf@picture@serial@count}%
19867     \let\pgf@nodecallback=\pgfutil@gobble%
19868     \pgf@picmaxx=-16000pt\relax%

```



```

19869 \pgf@picminx=16000pt\relax%
19870 \pgf@picmaxy=-16000pt\relax%
19871 \pgf@picminy=16000pt\relax%
19872 \pgf@relevantforpicturesizetrue%
19873 \pgf@resetpathsizes%
19874 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19875 \def\endpgfpicture{%
19876     \ifpgfrememberpicturepositiononpage%
19877         \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}}%
19878     \fi%
19879     % ok, now let's position the box
19880     \ifdim\pgf@picmaxx=-16000pt\relax%
19881         % empty picture. make size 0.
19882         \global\pgf@picmaxx=0pt\relax%
19883         \global\pgf@picminx=0pt\relax%
19884         \global\pgf@picmaxy=0pt\relax%
19885         \global\pgf@picminy=0pt\relax%
19886     \fi%
19887     % Shift baseline outside:
19888     \pgf@relevantforpicturesizefalse%
19889     \pgf@process{\pgf@baseline}%
19890     \xdef\pgf@shift@baseline{\the\pgf@y}%
19891     %
19892     \pgf@process{\pgf@trimleft}%
19893     \global\advance\pgf@x by-\pgf@picminx
19894     % prepare \hskip\pgf@trimleft@final.
19895     % note that \pgf@trimleft@final is also queried
19896     % by the pgf image externalization.
19897     \xdef\pgf@trimleft@final{-\the\pgf@x}%
19898     %
19899     \pgf@process{\pgf@trimright}%
19900     \global\advance\pgf@x by-\pgf@picmaxx
19901     % prepare \hskip\pgf@trimright@final.
19902     % note that \pgf@trimright@final is also queried
19903     % by the pgf image externalization.
19904     \xdef\pgf@trimright@final{\the\pgf@x}%
19905     %
19906     \pgf@remember@layerlist@globally
19907     \endgroup%
19908     \hss%
19909     \egroup%
19910     \pgf@restore@layerlist@from@global
19911     \pgf@insertlayers%
19912     \endgroup%
19913     \pgfsys@discardpath%
19914     \endgroup%
19915     \pgfsys@endscope%
19916     \pgfsys@endpicture%
19917     \endgroup%
19918     \hss
19919 \egroup%
19920 \pgfsys@typesetpicturebox\pgfpic%
19921 \ifmmode\else\endL\fi%
19922 \endgroup%

```



19923 }

129 File pgfsys-xetex-bidi.def

```
19924 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19925 \def\pgfsys@shadingoutsidepgfpicture#1{%
19926   \beginL#1\endL%
19927 }
19928
19929
```

130 File picinpar-xetex-bidi.def

```
19930 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19931 \long\def\@makewincaption#1#2{%
19932   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19933   \ifdim\wd\@tempboxa>\picwd
19934     {\footnotesize{\bf #1:\enspace}{#2\par}}
19935   \else
19936     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19937   \fi}
19938 \def\endwindow{%
19939   \global\tcd=\tcdsav
19940   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19941   \vbadness=10000
19942   \splittopskip=0pt
19943 %
19944 % Typeset the lines above the window
19945 %
19946 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19947 \tcn=\tcd
19948 \loop\advance\tcn -1
19949 \setbox\fslice=\vsplit\holder to\baselineskip
19950 \prune\fslice\linewidth
19951 \topheight=0pt
19952 \ifnum\dp\fslice>\dp\wstrutbox
19953   \advance\topheight-\dp\fslice
19954   \advance\topheight\dp\wstrutbox
19955   \advance\topheight\ilg\fi
19956 \hbox to\linewidth{\box\fslice}
19957 \vskip-\topheight
19958 \ifdim\ht\holder>0pt\repeat
19959 \fi
19960 %
19961 % Now we build the boxes beside the window
19962 %
19963 \global\topheight=\tcl\baselineskip
19964 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19965   \global\topheight=\vpic
19966 \fi
19967 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
19968 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
19969 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
19970 \tcn=\tcl \na=0 \nb=0
```



```

19971 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
19972 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
19973 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
19974 \ifnum\na=0\ifnum\nb=0
19975     \setbox\waslice=\vbox to\vpic{\vss}
19976     \setbox\wbslice=\vbox to\vpic{\vss}
19977     \bl=1\br=1
19978     \vskip\ilg
19979 \fi\fi
19980 %
19981 % both sides
19982 %
19983 \ifnum\na>0 \ifnum\nb>0
19984 \loop\advance\nb -1
19985 \advance\na -1
19986 \if@RTL%
19987 \setbox\bslice=\vsplit\holder to\baselineskip
19988 \prune\bslice\rtside
19989 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
19990 to\rtside{\box\bslice\hfil}}
19991 \setbox\aslice=\vsplit\holder to\baselineskip
19992 \prune\aslice\lftside
19993 \setbox\waslice=\vbox{\unvbox\waslice\hbox
19994 to\lftside{\box\aslice\hfil}}
19995 \else%
19996 \setbox\aslice=\vsplit\holder to\baselineskip
19997 \prune\aslice\lftside
19998 \setbox\waslice=\vbox{\unvbox\waslice\hbox
19999 to\lftside{\box\aslice\hfil}}
20000 \setbox\bslice=\vsplit\holder to\baselineskip
20001 \prune\bslice\rtside
20002 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20003 to\rtside{\box\bslice\hfil}}
20004 \fi%
20005 \ifnum\nb>0\repeat
20006 \fi\fi
20007 %
20008 % only text on the left side
20009 %
20010 \ifnum\na>0
20011     \loop\advance\na -1
20012     \setbox\aslice=\vsplit\holder to\baselineskip
20013     \prune\aslice\lftside
20014     \setbox\waslice=\vbox{\unvbox\waslice\hbox
20015 to\lftside{\box\aslice\hfil}}
20016     \ifdim\ht\holder>0pt\repeat
20017 \fi
20018 %
20019 % only text on the right side
20020 %
20021 \ifnum\nb>0
20022     \loop\advance\nb -1
20023     \setbox\bslice=\vsplit\holder to\baselineskip
20024     \prune\bslice\rtside

```



```

20025 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20026 to\rtside{\box\bslice\hfil}}
20027 \ifdim\ht\holder>0pt\repeat
20028 \fi
20029 %
20030 % fixing the dimensions of the window part
20031 %
20032 \ifnum\bl=0\topheight=\ht\wbslice
20033 \else\ifnum\br=0\topheight=\ht\waslice
20034 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20035 \else\topheight=\ht\wbslice\fi\fi\fi
20036 %
20037 % ship out the window material to the main vertical list
20038 %
20039 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20040 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20041 \fi\fi\fi
20042 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20043 \ifnum\bl>0\box\waslice\hfil\fi%
20044 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20045 \vfill\unvbox\picbox%
20046 \ifnum\picwd>0\vfill\fi%
20047 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20048 \unvbox>windowbox%
20049 \loop
20050 \setbox\bslice=\vsplit\rawtext to\baselineskip
20051 \prune\bslice\linewidth
20052 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20053 \unvbox\wbslice
20054 \ifdim\ht\rawtext>0pt
20055 \repeat
20056 }% FINITO

```

131 File plain-xetex-bidi.def

```

20057 \def\TeXeTOn{\TeXeTstate=1 }
20058 \def\TeXeTOff{\TeXeTstate=0 }
20059 \TeXeTOn
20060 \def\usebox#1{\leavevmode\copy #1\relax}
20061 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
20062 \let\bidi@o@everypar=\everypar
20063 \newtoks\bidi@n@everypar
20064 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
20065 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
20066 \let\everypar=\bidi@n@everypar
20067 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20068 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20069 \protected\def\hboxR{\hbox\bgroup
20070 \everyhbox{%
20071 \aftergroup\egroup
20072 \everyhbox}%
20073 \beginR
20074 \@hboxRconstructtrue
20075 \bgroup

```




```

20076 \aftergroup\endR
20077 \aftergroup\egroup
20078 }\hbox}
20079 \protected\def\hboxL{\hbox\bgroup
20080 \everyhbox{%
20081 \aftergroup\egroup
20082 \everyhbox{}}%
20083 \beginL
20084 \@hboxRconstructfalse
20085 \bgroup
20086 \aftergroup\endL
20087 \aftergroup\egroup
20088 }\hbox}
20089 \protected\def\vboxR{\vbox\bgroup
20090 \everyvbox{%
20091 \aftergroup\egroup
20092 \everyvbox{}}%
20093 \@RTLtrue
20094 \bgroup
20095 \aftergroup\egroup
20096 }\vbox}
20097 \protected\def\vboxL{\vbox\bgroup
20098 \everyvbox{%
20099 \aftergroup\egroup
20100 \everyvbox{}}%
20101 \@RTLfalse
20102 \bgroup
20103 \aftergroup\egroup
20104 }\vbox}
20105 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20106 \def\endLTR{\par}
20107 \def\RTL{\par\@RTLtrue\@RTL@footnotettrue\hsize\linewidth\parshape\z@}
20108 \def\endRTL{\par}
20109 \def\setRTL{\@RTLtrue\@RTL@footnotettrue}
20110 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20111 \let\unsetRTL=\setLTR
20112 \let\unsetLTR=\setRTL
20113 \let\LR=\LRE
20114 \let\RL=\RLE
20115 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20116 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20117 \let\@ensure@RL=\@ensure@RTL
20118 \let\@ensure@LR=\@ensure@LTR
20119 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20120 \let\@ensure@maindir=\@ensure@dir
20121 \def\@RTL{RTL}
20122 \def\@LTR{LTR}
20123 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20124 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20125 \let\@TeX\TeX
20126 \def\TeX{\@ensure@LTR{\@TeX}}
20127 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20128 \dimen@=\dp\ccclv \unvbox\ccclv % open up \box255
20129 \ifvoid\footins\else % footnote info is present

```



```

20130 \vskip\skip\footins
20131 \footnoterule
20132 \unvbox\footins\fi
20133 \ifrggedbottom \kern-\dimen@ \vfil \fi
20134 \ifvoid\@bidi@copyins@
20135 \else
20136 \vskip\skip\@bidi@copyins@
20137 \unvbox\@bidi@copyins@
20138 \fi
20139 }
20140 \long\def\bidi@reflect@box#1{%
20141 \leavevmode
20142 \setbox\z@\hbox{{#1}}%
20143 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20144 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20145 }
20146 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20147 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20148 \let\setRL=\setRTL
20149 \let\setLR=\setLTR
20150 \let\unsetRL=\setLTR
20151 \let\bidi@samed@eqno=\eqno
20152 \let\bidi@samed@leqno=\leqno
20153 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@samed@leqno \else \bidi@samed@eqno \fi}
20154 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@samed@eqno \else \bidi@samed@leqno \fi}
20155 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20156 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20157 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

132 File pstricks-xetex-bidi.def

```

20158 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20159 \bidi@patchcmd\pspicture\beginRgroup{%
20160 \beginRgroup
20161 \ifmmode
20162 \else
20163 \@RTLfalse
20164 \beginL
20165 \fi
20166 }{}{\bidi@warningnoline{0ops! patching `string\pspicture' failed}}
20167
20168 \bidi@patchcmd\endpspicture{%
20169 \endRgroup
20170 \psset{pstricks}{shift=0}% reset value
20171 }{%
20172 \ifmmode
20173 \else
20174 \endL
20175 \fi
20176 \endRgroup
20177 \psset{pstricks}{shift=0}% reset value
20178 }{}{\bidi@warningnoline{0ops! patching `string\endpspicture' failed}}
20179
20180 \bidi@patchcmd\@scalebox{%

```



```

20181 \special{x: bscale \pst@tempc \pst@tempd}%
20182 \hbox to \z@{\box\pst@hbox\hss}%
20183 \special{x: escale}%
20184 }{%
20185 \if@RTL
20186 \special{x: escale}%
20187 \else
20188 \special{x: bscale \pst@tempc \pst@tempd}%
20189 \fi
20190 \hbox to \z@{\box\pst@hbox\hss}%
20191 \if@RTL
20192 \special{x: bscale \pst@tempc \pst@tempd}%
20193 \else
20194 \special{x: escale}%
20195 \fi
20196 }{\bidi@warningnoline{0ops! patching `string\@@scalebox' failed}}
20197 \let\ps@@scalebox\@@scalebox
20198

```

133 File quotchap-xetex-bidi.def

```

20199 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20200 \renewcommand{\qauthor}[1]{%
20201 \par\smallskip
20202 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
20203 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20204 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20205 {\chapnumfont
20206 \ifnum \c@secnumdepth >\m@ne%
20207 \if@mainmatter\thechapter%
20208 \fi\fi
20209 \par\nobreak}%
20210 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi\fi
20211 \nobreak\chapterheadendvskip}}
20212 \renewcommand*{\@iprintcites}{%
20213 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
20214 \global\let\@printcites\relax}

```

134 File ragged2e-xetex-bidi.def

```

20215 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20216 \renewcommand{\Centering}{%
20217 \ifx\\ \@raggedtwoe@savedcr
20218 \let\\ \@centercr
20219 \fi
20220 \let\@gnewline\@raggedtwoe@gnewline
20221 \if@RTL\rightright\else\leftskip\fi\CenteringLeftskip
20222 \@rightskip\CenteringRightskip
20223 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20224 \parfillskip\CenteringParfillskip
20225 \parindent\CenteringParindent
20226 \@raggedtwoe@spaceskiptrue
20227 \@raggedtwoe@everyselectfont
20228 }

```



```

20229 \renewcommand{\RaggedLeft}{%
20230   \ifx\\ \@raggedtwo@savedcr
20231     \let\\ @centercr
20232   \fi
20233   \let\@gnewline\@raggedtwo@gnewline
20234   \if@RTL\righskip\else\leftskip\fi\RaggedLeftLeftskip
20235   \@rightskip\RaggedLeftRightskip
20236   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20237   \parfillskip\RaggedLeftParfillskip
20238   \parindent\RaggedLeftParindent
20239   \@raggedtwo@spaceskiptrue
20240   \@raggedtwo@everyselectfont
20241 }
20242 \renewcommand{\RaggedRight}{%
20243   \ifx\\ \@raggedtwo@savedcr
20244     \let\\ @centercr
20245   \fi
20246   \let\@gnewline\@raggedtwo@gnewline
20247   \if@RTL\righskip\else\leftskip\fi\RaggedRightLeftskip
20248   \@rightskip\RaggedRightRightskip
20249   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20250   \parfillskip\RaggedRightParfillskip
20251   \parindent\RaggedRightParindent
20252   \@raggedtwo@spaceskiptrue
20253   \@raggedtwo@everyselectfont
20254 }
20255 \renewcommand{\justifying}{%
20256   \let\\ \@raggedtwo@savedcr
20257   \let\@gnewline\@raggedtwo@saved@gnewline
20258   \if@RTL\righskip\else\leftskip\fi\z@
20259   \@rightskip\z@
20260   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20261   \parfillskip\JustifyingParfillskip
20262   \parindent\JustifyingParindent
20263   \@raggedtwo@spaceskipfalse
20264   \@raggedtwo@everyselectfont
20265 }
20266 \def\@raggedtwo@raggedrightboxes@opt{%
20267   \renewcommand{\@arrayparboxrestore}{%
20268     \let\if@nobreak\iffalse
20269     \let\if@noskipsec\iffalse
20270     \let\par\@par
20271     \let\-\@dischyph
20272     \let'\@acci\let`\@accii\let\=\@acciii
20273     \parskip\z@skip
20274     \everypar{}%
20275     \linewidth\hsize
20276     \@totalleftmargin\z@
20277     \if@RTL
20278       \RaggedLeft
20279     \else
20280       \RaggedRight
20281     \fi
20282     \lineskip\normallineskip

```



```

20283 \baselineskip\normalbaselineskip
20284 \sloppy}%
20285 \let\@raggedtwoe@raggedrightboxes@opt\relax
20286 }
20287 \def\@raggedtwoe@document@opt{%
20288 \AtBeginDocument{\@raggedtwoe@abdhook}%
20289 \@raggedtwoe@raggedrightboxes@opt
20290 \@raggedtwoe@footmisctrue
20291 \let\@raggedtwoe@document@opt\relax
20292 }
20293 \def\@raggedtwoe@abdhook{%
20294 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20295 right to left documents and '\string\RaggedRight' for left
20296 to right documents}%
20297 \ifRTL
20298 \RaggedLeft
20299 \else
20300 \RaggedRight
20301 \fi
20302 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20303 \let\@raggedtwoe@abdhook\relax
20304 }
20305 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20306 \@raggedtwoe@raggedrightboxes@opt
20307 }{}
20308 \@ifpackagewith{ragged2e}{document}{%
20309 \@raggedtwoe@document@opt
20310 }{}
20311 \let\origin@RaggedLeft=\RaggedLeft
20312 \let\origin@RaggedRight=\RaggedRight
20313 \def\RaggedLeft{\ifRTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20314 \def\RaggedRight{\ifRTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

135 File rapport1-xetex-bidi.def

```

20315 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20316 \renewenvironment{theindex}{%
20317 \if@twocolumn
20318 \@restonecolfalse
20319 \else
20320 \@restonecoltrue
20321 \fi
20322 \columnseprule \z@
20323 \columnsep 35\p@
20324 \twocolumn[\@makeschapterhead{\indexname}]%
20325 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20326 \thispagestyle{plain}\parindent\z@
20327 \parskip\z@ \@plus .3\p@\relax
20328 \let\item\@idxitem
20329 }{%
20330 \if@restonecol\onecolumn\else\clearpage\fi}
20331 \renewcommand*\head@style{%
20332 \interlinepenalty \@M
20333 \hyphenpenalty=\@M \exhyphenpenalty=\@M

```



```

20334 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20335 \if@titlepage
20336 \renewenvironment{abstract}{%
20337 \titlepage
20338 \null\vfil
20339 \section*{\SectFont\abstractname}%
20340 \noindent\ignorespaces}
20341 {\par\vfil\null\endtitlepage}
20342 \else
20343 \renewenvironment{abstract}{%
20344 \if@twocolumn
20345 \section*{\abstractname}%
20346 \else
20347 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20348 \section*{\small\SectFont\abstractname}%
20349 \noindent\ignorespaces
20350 \fi}
20351 {\if@twocolumn\else\par\egroup\fi}
20352 \fi
20353 \renewcommand*{\@regtocline[3]}{%
20354 \ifnum #1>\c@tocdepth
20355 \else
20356 \vskip\z@\@plus.2\p@
20357 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
20358 \if@RTL\rightskip\else\leftskip\fi\unitindent
20359 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20360 \parfillskip\z@
20361 \@tempdima\unitindent
20362 \parindent\z@
20363 \leavevmode
20364 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20365 \hskip 1em \nobreak{\slshape #3}\par
20366 }%
20367 \fi}
20368 \if@oldtoc
20369 \renewcommand*{\l@part[2]}{%
20370 \ifnum \c@tocdepth >-2\relax
20371 \addpenalty{-\@highpenalty}%
20372 \addvspace{2.25em \@plus\p@}%
20373 \begingroup
20374 \setlength{\@tempdima}{3em}%
20375 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20376 \parfillskip -\@pnumwidth
20377 {\leavevmode
20378 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20379 \nobreak
20380 \global\@nobreaktrue
20381 \everypar{\global\@nobreakfalse\everypar{}}%
20382 \endgroup
20383 \fi}
20384 \else
20385 \renewcommand*{\l@part}{%
20386 \ifnum \c@tocdepth >-2\relax
20387 \addpenalty{-\@highpenalty}%

```



```

20388 \addvspace{2.25em \@plus \p@}%
20389 \@regtocline{0}%
20390 \fi}
20391 \fi
20392 \if@oldtoc
20393 \renewcommand*\l@chapter[2]{%
20394 \addpenalty{-\@highpenalty}%
20395 \vskip 1.0em \@plus\p@
20396 \setlength\@tempdima{1.5em}%
20397 \begingroup
20398 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20399 \parfillskip -\@pnumwidth
20400 \leavevmode \bfseries
20401 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20402 \hskip -\if@RTL\rightskip\else\leftskip\fi
20403 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20404 \penalty\@highpenalty
20405 \endgroup}
20406 \else
20407 \renewcommand*\l@chapter{\@regtocline{0}}
20408 \fi
20409 \renewcommand*\left@footnoterule{%
20410 \kern-3\p@
20411 \kern.5\baselineskip
20412 \hrule\@width\unitindent
20413 \kern.4\baselineskip
20414 }
20415 \renewcommand*\right@footnoterule{%
20416 \kern-3\p@
20417 \kern.5\baselineskip
20418 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20419 \kern.4\baselineskip}
20420 \renewenvironment{thebibliography}[1]
20421 {\chapter*{\bibname}%
20422 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20423 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20424 \bidi@thebibliography@font@hook%
20425 \list{\@biblabel{\@arabic\c@enumiv}}%
20426 {\settowidth\labelwidth{\@biblabel{#1}}%
20427 \leftmargin\labelwidth
20428 \advance\leftmargin\labelsep
20429 \@openbib@code
20430 \usecounter{enumiv}%
20431 \let\p@enumiv\@empty
20432 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20433 \sloppy\clubpenalty4000\widowpenalty4000%
20434 \sfcode`\.\@m}
20435 {\def\@noitemerr
20436 {\@latex@warning{Empty `thebibliography' environment}}%
20437 \endlist}
20438 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20439 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20440 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20441 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}

```



```

20442 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20443 \renewcommand*\theequation{%
20444   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20445 \renewcommand*\thefigure{%
20446   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20447 \renewcommand*\thetable{%
20448   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20449 \if@titlepage
20450 \renewcommand*\TitleFont{\rmfamily}
20451 \renewcommand*\maketitle{%
20452   \begin{titlepage}%
20453     \let\footnotesize\small
20454     \let\right@footnoterule\relax
20455     \let\left@footnoterule\relax
20456     \let\textwidth\footnoterule\relax
20457     \let \footnote \thanks
20458     \long\def\@makefnmark##1{\parindent\z@
20459       \def\labelitemi{\textendash}\@revlabeltrue
20460       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20461     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20462     \if@compatibility\setcounter{page}{0}\fi
20463     \null\vfil
20464     \vskip 60\p@
20465     \begin{center}%
20466       \TitleFont
20467       {\LARGE \def\\{\penalty -\@M}
20468         \if@allcaps
20469           \expandafter\uc@nothanks\@title\thanks\relax
20470         \else
20471           \@title
20472         \fi\par}%
20473     \vskip 3em%
20474     {\large
20475       \lineskip .75em \parindent\z@
20476       \begin{tabular}[t]{c}%
20477         \if@allcaps
20478           \expandafter\uc@authornothanks\@author\and\relax
20479         \else
20480           \@author
20481         \fi
20482       \end{tabular}\par}%
20483     \vskip 1.5em%
20484     {\large
20485       \if@allcaps
20486         \uppercase\expandafter{\@date}%
20487       \else
20488         \@date
20489       \fi\par}%
20490     \end{center}\par
20491     \@thanks
20492     \vfil\null
20493   \end{titlepage}%
20494   \setcounter{footnote}{0}%
20495   \global\let\thanks\relax

```




```

20496 \global\let\maketitle\relax
20497 \global\let\@thanks\@empty
20498 \global\let\@author\@empty
20499 \global\let\@title\@empty
20500 \global\let\@date\@empty
20501 \global\let\title\relax
20502 \global\let\author\relax
20503 \global\let\date\relax
20504 \global\let\and\relax
20505 }
20506 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20507 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20508 \futurelet\@tempa\uc@ax}
20509 \def\uc@ax{%
20510 \ifx\@tempa\relax
20511 \else
20512 \\\andname \\\expandafter\uc@authornothanks
20513 \fi}
20514 \def\uc@tx{\ifx\@tempa\relax
20515 \else \expandafter\uc@ty \fi}
20516 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20517 \else
20518 \renewcommand*\maketitle{\par
20519 \begingroup
20520 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20521 \def\@makefnmark{\rlap{%
20522 \textsuperscript{\normalfont\@thefnmark}}}%
20523 \long\def\@makefntext{\@xmakefntext{%
20524 \textsuperscript{\normalfont\@thefnmark}}}%
20525 \if@twocolumn
20526 \ifnum \col@number=\@one
20527 \@maketitle
20528 \else
20529 \twocolumn[\@maketitle]%
20530 \fi
20531 \else
20532 \newpage
20533 \global\@topnum\z@
20534 \@maketitle
20535 \fi
20536 \thispagestyle{plain}\@thanks
20537 \endgroup
20538 \setcounter{footnote}{0}%
20539 \global\let\thanks\relax
20540 \global\let\maketitle\relax
20541 \global\let\@maketitle\relax
20542 \global\let\@thanks\@empty
20543 \global\let\@author\@empty
20544 \global\let\@title\@empty
20545 \global\let\@date\@empty
20546 \global\let\title\relax
20547 \global\let\author\relax
20548 \global\let\date\relax
20549 \global\let\and\relax

```



```

20550 }
20551 \def\@maketitle{%
20552   \newpage
20553   \null
20554   \vskip 2em%
20555   \begin{center}%
20556     \let \footnote \thanks
20557     {\LARGE \TitleFont \@title \par}%
20558     \vskip 1.5em%
20559     {\large \TitleFont
20560       \lineskip .5em%
20561       \begin{tabular}[t]{c}%
20562         \@author
20563       \end{tabular}\par}%
20564     \vskip 1em%
20565     {\large \TitleFont \@date}%
20566   \end{center}%
20567   \par
20568   \vskip 1.5em}
20569 \fi

```

136 File rapport3-xetex-bidi.def

```

20570 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20571 \renewenvironment{theindex}{%
20572   \if@twocolumn
20573     \@restonecolfalse
20574   \else
20575     \@restonecoltrue
20576   \fi
20577   \columnseprule \z@
20578   \columnsep 35\p@
20579   \twocolumn[\@makeschapterhead{\indexname}]%
20580   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20581   \thispagestyle{plain}\parindent\z@
20582   \parskip\z@ \@plus .3\p@\relax
20583   \let\item\@idxitem
20584   }{%
20585   \if@restonecol\onecolumn\else\clearpage\fi}
20586 \if@titlepage
20587 \renewcommand*\TitleFont{\rmfamily}
20588 \renewcommand*\maketitle{%
20589   \begin{titlepage}%
20590     \let\footnotesize\small
20591     \let\right@footnoterule\relax
20592     \let\left@footnoterule\relax
20593     \let\textwidth@footnoterule\relax
20594     \let \footnote \thanks
20595     \let \LTRfootnote \LTRthanks
20596     \let \RTLfootnote \RTLthanks
20597     \long\def\@makefntext##1{\parindent\z@
20598       \def\labelitemi{\textendash}\@revlabeltrue
20599       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20600     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

20601 \ifcompatibility\setcounter{page}{0}\fi
20602 \null\vfil
20603 \vskip 60\p@
20604 \begin{center}%
20605 \TitleFont
20606 {\LARGE \def\\{\penalty -\@M}
20607 \if@allcaps
20608 \expandafter\uc@nothanks\@title\thanks\relax
20609 \else
20610 \@title
20611 \fi\par}%
20612 \vskip 3em%
20613 {\large
20614 \lineskip .75em \parindent\z@
20615 \begin{tabular}[t]{c}%
20616 \if@allcaps
20617 \expandafter\uc@authornothanks\@author\and\relax
20618 \else
20619 \@author
20620 \fi
20621 \end{tabular}\par}%
20622 \vskip 1.5em%
20623 {\large
20624 \if@allcaps
20625 \uppercase\expandafter{\@date}%
20626 \else
20627 \@date
20628 \fi\par}%
20629 \end{center}\par
20630 \@thanks
20631 \vfil\null
20632 \end{titlepage}%
20633 \setcounter{footnote}{0}%
20634 \global\let\thanks\relax
20635 \global\let\LTRthanks\relax
20636 \global\let\RTLthanks\relax
20637 \global\let\maketitle\relax
20638 \global\let\@thanks\@empty
20639 \global\let\@author\@empty
20640 \global\let\@title\@empty
20641 \global\let\@date\@empty
20642 \global\let\title\relax
20643 \global\let\author\relax
20644 \global\let\date\relax
20645 \global\let\and\relax
20646 }
20647 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20648 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20649 \futurelet\@tempa\uc@ax}
20650 \def\uc@ax{%
20651 \ifx\@tempa\relax
20652 \else
20653 \\\andname \\\expandafter\uc@authornothanks
20654 \fi}

```



```

20655 \def\uc@tx{\ifx\@tempa\relax
20656     \else \expandafter\uc@ty \fi}
20657 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20658 \else
20659 \renewcommand*\maketitle{\par
20660     \begin{group}
20661         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20662         \def\@makefnmark{\rlap{%
20663             \@textsuperscript{\normalfont\@thefnmark}}}%
20664         \long\def\@makefntext{\@xmakefntext{%
20665             \@textsuperscript{\normalfont\@thefnmark}}}%
20666         \if@twocolumn
20667             \ifnum \col@number=\@ne
20668                 \maketitle
20669             \else
20670                 \twocolumn[\maketitle]%
20671             \fi
20672         \else
20673             \newpage
20674             \global\@topnum\z@
20675             \maketitle
20676         \fi
20677         \thispagestyle{plain}\@thanks
20678     \endgroup}
20679 \setcounter{footnote}{0}%
20680 \global\let\thanks\relax
20681 \global\let\LTRthanks\relax
20682 \global\let\RTLthanks\relax
20683 \global\let\maketitle\relax
20684 \global\let\@maketitle\relax
20685 \global\let\@thanks\@empty
20686 \global\let\@author\@empty
20687 \global\let\@title\@empty
20688 \global\let\@date\@empty
20689 \global\let\title\relax
20690 \global\let\author\relax
20691 \global\let\date\relax
20692 \global\let\and\relax
20693 }
20694 \def\@maketitle{%
20695     \newpage
20696     \null
20697     \vskip 2em%
20698     \if@titlecentered
20699         \begin{center}%
20700             \let \footnote \thanks
20701             \let \LTRfootnote \LTRthanks
20702             \let \RTLfootnote \RTLthanks
20703             {\LARGE \TitleFont \@title \par}%
20704             \vskip 1.5em%
20705             {\large \TitleFont
20706                 \lineskip .5em%
20707                 \begin{tabular}[t]{c}%
20708                     \@author

```



```

20709     \end{tabular}\par}%
20710     \vskip 1em%
20711     {\large \TitleFont \@date}%
20712     \end{center}%
20713 \else
20714     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20715     {\large \TitleFont \lineskip .5em \tabcolsep\z@
20716         \def\and{%% \begin{tabular} has already started
20717             \end{tabular}\hskip 1em plus .17fil
20718             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
20719             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}}
20720     \vskip 1em {\large \TitleFont \@date}
20721 \fi
20722 \par
20723 \vskip 1.5em}
20724 \fi
20725 \renewcommand*\@regtocline[3]{%
20726     \ifnum #1>\c@tocdepth
20727     \else
20728         \vskip\z@\@plus.2\p@
20729         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20730             \if@RTL\righskip\else\leftskip\fi\unitindent
20731             \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20732             \parfillskip\z@
20733             \@tempdima\unitindent
20734             \parindent\z@
20735             \leavevmode
20736             \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20737             \hskip 1em \nobreak{\slshape #3}\par
20738         }%
20739     \fi}
20740 \if@oldtoc
20741 \renewcommand*\l@part[2]{%
20742     \ifnum \c@tocdepth >-2\relax
20743         \addpenalty{-\@highpenalty}%
20744         \addvspace{2.25em \@plus\p@}%
20745         \begingroup
20746             \setlength\@tempdima{3em}%
20747             \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20748             \parfillskip -\@pnumwidth
20749             {\leavevmode
20750                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20751                 \nobreak
20752                 \global\@nobreaktrue
20753                 \everypar{\global\@nobreakfalse\everypar{}}%
20754             \endgroup
20755     \fi}
20756 \else
20757     \renewcommand*\l@part{%
20758         \ifnum \c@tocdepth >-2\relax
20759             \addpenalty{-\@highpenalty}%
20760             \addvspace{2.25em \@plus \p@}%
20761             \@regtocline{0}%
20762         \fi}

```



```

20763 \fi
20764 \if@oldtoc
20765 \renewcommand*\l@chapter[2]{%
20766     \addpenalty{-\@highpenalty}%
20767     \vskip 1.0em \@plus\p@
20768     \setlength\@tempdima{1.5em}%
20769     \begingroup
20770     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20771     \parfillskip -\@pnumwidth
20772     \leavevmode \bfseries
20773     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20774     \hskip -\if@RTL\rightskip\else\leftskip\fi
20775     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20776     \penalty\@highpenalty
20777     \endgroup}
20778 \else
20779 \renewcommand*\l@chapter{\@regtocline{0}}
20780 \fi
20781 \renewcommand*\head@style{%
20782     \interlinepenalty \@M
20783     \hyphenpenalty=\@M \exhyphenpenalty=\@M
20784     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20785 \if@titlepage
20786 \renewenvironment{abstract}{%
20787     \titlepage
20788     \null\vfil
20789     \section*{\SectFont\abstractname}%
20790     \noindent\ignorespaces}
20791 {\par\vfil\null\endtitlepage}
20792 \else
20793 \renewenvironment{abstract}{%
20794     \if@twocolumn
20795     \section*{\abstractname}%
20796     \else
20797     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20798     \section*{\small\SectFont\abstractname}%
20799     \noindent\ignorespaces
20800     \fi}
20801 {\if@twocolumn\else\par\egroup\fi}
20802 \fi
20803 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20804 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
20805 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
20806 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
20807 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
20808 \renewcommand*\thefigure{%
20809     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20810 \renewcommand*\thetable{%
20811     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20812 \renewcommand*\theequation{%
20813     \ifnum\c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20814 \renewenvironment{thebibliography}[1]
20815 {\chapter*{\bibname}%
20816     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%

```



```

20817 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20818 \bidi@thebibliography@font@hook%
20819 \list{\@biblabel{\@arabic\c@enumiv}}%
20820 {\settowidth\labelwidth{\@biblabel{#1}}%
20821 \leftmargin\labelwidth
20822 \advance\leftmargin\labelsep
20823 \@openbib@code
20824 \usecounter{enumiv}%
20825 \let\p@enumiv\@empty
20826 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20827 \sloppy\clubpenalty4000\widowpenalty4000%
20828 \sfcode`.\@m}
20829 {\def\@noitemerr
20830 {\@latex@warning{Empty `thebibliography' environment}}}%
20831 \endlist}
20832 \renewcommand*\left@footnoterule{%
20833 \kern-3\p@
20834 \kern.5\baselineskip
20835 \hrule\@width\unitindent
20836 \kern.4\baselineskip
20837 }
20838 \renewcommand*\right@footnoterule{%
20839 \kern-3\p@
20840 \kern.5\baselineskip
20841 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20842 \kern.4\baselineskip}
20843 \renewcommand*\head@style{%
20844 \interlinepenalty \@M
20845 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20846 \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

137 File refrep-xetex-bidi.def

```

20847 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20848 \if@titlepage
20849 \renewcommand\maketitle{\begin{titlepage}%
20850 \let\footnotesize\small
20851 \let\right@footnoterule\relax
20852 \let\left@footnoterule\relax
20853 \let\textwidth@footnoterule\relax
20854 \let\footnote\thanks
20855 \let\LTRfootnote\LTRthanks
20856 \let\RTLfootnote\RTLthanks
20857 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20858 \def\@makefnmark%
20859 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20860 \long\def\@makefntext##1{%
20861 \setpar{\@par
20862 \@tempdima = \hsize
20863 \advance\@tempdima -1em
20864 \parshape \@ne 1em \@tempdima}%
20865 \par\parindent 1em \noindent
20866 \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20867 \null\vfil

```



```

20868 \vskip 60\p@
20869 \begin{center}%
20870   {\LARGE \@title \par}%
20871   \vskip 3em%
20872   {\large
20873     \lineskip .75em%
20874     \begin{tabular}[t]{c}%
20875       \@author
20876     \end{tabular}\par}%
20877   \vskip 1.5em%
20878   {\large \@date \par}%           % Set date in \large size.
20879 \end{center}\par
20880 \@thanks
20881 \vfil\null
20882 \end{titlepage}%
20883 \setcounter{footnote}{0}%
20884 \global\let\thanks\relax
20885 \global\let\LTRthanks\relax
20886 \global\let\RTLthanks\relax
20887 \global\let\maketitle\relax
20888 \global\let\@thanks\@empty
20889 \global\let\@author\@empty
20890 \global\let\@date\@empty
20891 \global\let\@title\@empty
20892 \global\let\title\relax
20893 \global\let\author\relax
20894 \global\let\date\relax
20895 \global\let\and\relax
20896 }
20897 \else
20898 \renewcommand\maketitle{\par
20899   \begingroup
20900     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20901     \def\@makefnmark%
20902       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20903     \long\def\@makefntext##1{%
20904       \@setpar{\@par
20905         \@tempdima = \hsize
20906         \advance\@tempdima -1em
20907         \parshape \@ne 1em \@tempdima}%
20908       \par\parindent 1em \noindent
20909       \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\},\##1}
20910     \if@twocolumn
20911       \ifnum \col@number=\@ne
20912         \@maketitle
20913       \else
20914         \twocolumn[\@maketitle]%
20915       \fi
20916     \else
20917       \newpage
20918       \global\@topnum\z@   % Prevents figures from going at top of page.
20919       \@maketitle
20920     \fi
20921     \thispagestyle{empty}\@thanks

```




```

20922 \endgroup
20923 \setcounter{footnote}{0}%
20924 \global\let\thanks\relax
20925 \global\let\LTRthanks\relax
20926 \global\let\RTLthanks\relax
20927 \global\let\maketitle\relax
20928 \global\let\@maketitle\relax
20929 \global\let\@thanks\@empty
20930 \global\let\@author\@empty
20931 \global\let\@date\@empty
20932 \global\let\@title\@empty
20933 \global\let\title\relax
20934 \global\let\author\relax
20935 \global\let\date\relax
20936 \global\let\and\relax
20937 }
20938 \def\@maketitle{%
20939 \newpage
20940 \null
20941 \longthickrule\vskip1.5em%
20942 \let \footnote \thanks
20943 \let \LTRfootnote \LTRthanks
20944 \let \RTLfootnote \RTLthanks
20945 {\secshape \parskip\z@ \parindent\z@
20946 \Large\bfseries \@title \par}%
20947 \vskip1.5em\longthickrule\vskip1.5em%
20948 {\normalsize
20949 \lineskip .5em%
20950 \begin{flushright}%
20951 {\slshape\@author\par}
20952 \vskip 1em%
20953 {\@date}%
20954 \end{flushright}\par}%
20955 \vskip 1.5em}
20956 \fi
20957 \renewcommand*\l@part[2]{%
20958 \ifnum \c@tocdepth >-2\relax
20959 \addpenalty{-\@highpenalty}%
20960 \addvspace{2.25em \@plus\p@}%
20961 \begingroup
20962 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20963 \parfillskip -\@pnumwidth
20964 {\leavevmode
20965 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
20966 \nobreak
20967 \global\@nobreaktrue
20968 \everypar{\global\@nobreakfalse\everypar{}}%
20969 \endgroup
20970 \fi}
20971 \renewcommand*\l@chapter[2]{%
20972 \ifnum \c@tocdepth >\m@ne
20973 \addpenalty{-\@highpenalty}%
20974 \vskip 1.0em \@plus\p@
20975 \setlength\@tempdima{1.5em}%

```



```

20976 \begingroup
20977 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20978 \parfillskip -\@pnumwidth
20979 \leavevmode \bfseries
20980 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
20981 \hskip -\if@RTL\rightskip\else\leftskip\fi
20982 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20983 \penalty\@highpenalty
20984 \endgroup
20985 \fi}
20986 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
20987 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
20988 \hyphenpenalty=2000}
20989 \renewcommand\left@footnoterule{%
20990 \kern-3\p@
20991 \hrule\@width.4\columnwidth
20992 \kern 2.6\p@}
20993 \renewcommand\right@footnoterule{%
20994 \kern-3\p@
20995 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
20996 \kern2.6\p@}
20997 \renewcommand\theequation
20998 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
20999 \renewcommand\thefigure
21000 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21001 \renewcommand\thetable%
21002 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21003 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21004 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21005 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21006 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21007 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21008 \renewenvironment{thebibliography}[1]
21009 {\chapter*{\bibname
21010 \@mkboth{\bibname}{\bibname}}%
21011 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21012 \bidi@thebibliography@font@hook%
21013 \list{\@biblabel{\@arabic\c@enumiv}}%
21014 {\settowidth\labelwidth{\@biblabel{#1}}%
21015 \leftmargin\labelwidth
21016 \advance\leftmargin\labelsep
21017 \@openbib@code
21018 \usecounter{enumiv}%
21019 \let\p@enumiv\@empty
21020 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21021 \sloppy
21022 \clubpenalty4000
21023 \@clubpenalty \clubpenalty
21024 \widowpenalty4000%
21025 \sfcode\`.\@m}
21026 {\def\@noitemerr
21027 {\@latex@warning{Empty `thebibliography' environment}}%
21028 \endlist}

```



138 File report-xetex-bidi.def

```
21029 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report cl
21030 \renewenvironment{theindex}
21031     {\if@twocolumn
21032       \@restonecolfalse
21033       \else
21034         \@restonecoltrue
21035       \fi
21036       \columnseprule \z@
21037       \columnsep 35\p@
21038       \twocolumn[\@makeschapterhead{\indexname}]%
21039       \@mkboth{\MakeUppercase\indexname}%
21040               {\MakeUppercase\indexname}%
21041       \thispagestyle{plain}\parindent\z@
21042       \parskip\z@ \@plus .3\p@\relax
21043       \let\item\@idxitem}
21044     {\if@restonecol\onecolumn\else\clearpage\fi}
21045 \if@titlepage
21046 \renewcommand\maketitle{\begin{titlepage}%
21047 \let\footnotesize\small
21048 \let\right@footnoterule\relax
21049 \let\left@footnoterule\relax
21050 \let\textwidth@footnoterule\relax
21051 \let \footnote \thanks
21052 \let \LTRfootnote \LTRthanks
21053 \let \RTLfootnote \RTLthanks
21054 \null\vfil
21055 \vskip 60\p@
21056 \begin{center}%
21057   {\LARGE \@title \par}%
21058   \vskip 3em%
21059   {\large
21060     \lineskip .75em%
21061     \begin{tabular}[t]{c}%
21062       \@author
21063     \end{tabular}\par}%
21064     \vskip 1.5em%
21065     {\large \@date \par}%           % Set date in \large size.
21066 \end{center}\par
21067 \@thanks
21068 \vfil\null
21069 \end{titlepage}%
21070 \setcounter{footnote}{0}%
21071 \global\let\thanks\relax
21072 \global\let\LTRthanks\relax
21073 \global\let\RTLthanks\relax
21074 \global\let\maketitle\relax
21075 \global\let\@thanks\@empty
21076 \global\let\@author\@empty
21077 \global\let\@date\@empty
21078 \global\let\@title\@empty
21079 \global\let\title\relax
21080 \global\let\author\relax
```



```

21081 \global\let\date\relax
21082 \global\let\and\relax
21083 }
21084 \else
21085 \renewcommand\maketitle{\par
21086 \begin{group}
21087 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21088 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21089 \long\def\@makefntext##1{\parindent 1em\noindent
21090 \hspace{1.8em}%
21091 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21092 \if@twocolumn
21093 \ifnum \col@number=\@ne
21094 \maketitle
21095 \else
21096 \twocolumn[\maketitle]%
21097 \fi
21098 \else
21099 \newpage
21100 \global\@topnum\z@ % Prevents figures from going at top of page.
21101 \maketitle
21102 \fi
21103 \thispagestyle{plain}\@thanks
21104 \endgroup
21105 \setcounter{footnote}{0}%
21106 \global\let\thanks\relax
21107 \global\let\LTRthanks\relax
21108 \global\let\RTLthanks\relax
21109 \global\let\maketitle\relax
21110 \global\let\@maketitle\relax
21111 \global\let\@thanks\@empty
21112 \global\let\@author\@empty
21113 \global\let\@date\@empty
21114 \global\let\@title\@empty
21115 \global\let\title\relax
21116 \global\let\author\relax
21117 \global\let\date\relax
21118 \global\let\and\relax
21119 }
21120 \def\@maketitle{%
21121 \newpage
21122 \null
21123 \vskip 2em%
21124 \begin{center}%
21125 \let \footnote \thanks
21126 \let \LTRfootnote \LTRthanks
21127 \let \RTLfootnote \RTLthanks
21128 {\LARGE \@title \par}%
21129 \vskip 1.5em%
21130 {\large
21131 \lineskip .5em%
21132 \begin{tabular}[t]{c}%
21133 \@author
21134 \end{tabular}\par}%

```



```

21135 \vskip 1em%
21136 {\large \@date}%
21137 \end{center}%
21138 \par
21139 \vskip 1.5em}
21140 \fi
21141 \IfPackageLoadedF{tocloft}{%
21142 \renewcommand*\l@part[2]{%
21143 \ifnum \c@tocdepth >-2\relax
21144 \addpenalty{-\@highpenalty}%
21145 \addvspace{2.25em \@plus\p@}%
21146 \setlength\@tempdima{3em}%
21147 \begingroup
21148 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21149 \parfillskip -\@pnumwidth
21150 {\leavevmode
21151 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21152 \nobreak
21153 \global\@nobreaktrue
21154 \everypar{\global\@nobreakfalse\everypar{}}}%
21155 \endgroup
21156 \fi}
21157 \renewcommand*\l@chapter[2]{%
21158 \ifnum \c@tocdepth >\m@ne
21159 \addpenalty{-\@highpenalty}%
21160 \vskip 1.0em \@plus\p@
21161 \setlength\@tempdima{1.5em}%
21162 \begingroup
21163 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21164 \parfillskip -\@pnumwidth
21165 \leavevmode \bfseries
21166 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
21167 \hskip -\if@RTL\rightskip\else\leftskip\fi
21168 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21169 \penalty\@highpenalty
21170 \endgroup
21171 \fi}
21172 }
21173 \renewcommand\left@footnoterule{%
21174 \kern-3\p@
21175 \hrule\@width.4\columnwidth
21176 \kern2.6\p@}
21177 \renewcommand\right@footnoterule{%
21178 \kern-3\p@
21179 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21180 \kern2.6\p@}
21181 \renewcommand\theequation
21182 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21183 \renewcommand \thefigure
21184 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21185 \renewcommand \thetable
21186 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21187 \renewcommand \thechapter {\@arabic\c@chapter}
21188 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}

```



```

21189 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21190 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21191 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21192 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21193 \def\@makechapterhead#1{%
21194 \vspace*{50\p@}%
21195 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21196 \ifnum \c@secnumdepth >\m@ne
21197 \huge\bfseries \@chapapp\space \thechapter
21198 \par\nobreak
21199 \vskip 20\p@
21200 \fi
21201 \interlinepenalty\@M
21202 \Huge \bfseries #1\par\nobreak
21203 \vskip 40\p@
21204 }}
21205 \def\@makeschapterhead#1{%
21206 \vspace*{50\p@}%
21207 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21208 \normalfont
21209 \interlinepenalty\@M
21210 \Huge \bfseries #1\par\nobreak
21211 \vskip 40\p@
21212 }}
21213 \IfPackageLoadedF{natbib}{%
21214 \renewenvironment{thebibliography}[1]
21215 {\chapter*{\bibname}%
21216 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21217 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21218 \bidi@thebibliography@font@hook%
21219 \list{\@biblabel{\@arabic\c@enumiv}}{%
21220 {\settowidth\labelwidth{\@biblabel{#1}}%
21221 \leftmargin\labelwidth
21222 \advance\leftmargin\labelsep
21223 \@openbib@code
21224 \usecounter{enumiv}%
21225 \let\p@enumiv\@empty
21226 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21227 \sloppy
21228 \clubpenalty4000
21229 \@clubpenalty \clubpenalty
21230 \widowpenalty4000%
21231 \sfcode\.\@m}
21232 {\def\@noitemerr
21233 {\@latex@warning{Empty `thebibliography' environment}}}%
21234 \endlist}
21235 }

```

139 File rotating-xetex-bidi.def

```

21236 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21237 \def\end@rotfloat{%
21238 \end{minipage}\end{lrbox}%
21239 \stepcounter{r@tfl@t}%

```



```

21240 \rot@label{RF\ther@tfl@t}%
21241 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21242 \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
21243 \rot@mess@toks\expandafter{\@tempa}
21244 \wd\rot@float@box\z@
21245 \ht\rot@float@box\z@
21246 \dp\rot@float@box\z@
21247 \vboxL to \textheight{%
21248 \setkeys{Grot}{units=360}%
21249 \if@rot@twoside
21250 \else
21251 \let\R@@page\rot@LR
21252 \fi
21253 \ifthenelse{\isodd{\R@@page}}{%
21254 \if@rot@twoside
21255 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21256 \fi
21257 \vfill
21258 \@@line{%
21259 \hskip\rotFPtop
21260 \rotatebox{90}{\box\rot@float@box}%
21261 \hskip\rotFPbot
21262 }%
21263 }{%
21264 \if@rot@twoside
21265 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21266 \fi
21267 \@@line{%
21268 \hskip\rotFPbot
21269 \rotatebox{-90}{\box\rot@float@box}%
21270 \hskip\rotFPtop
21271 }%
21272 \vfill
21273 }%
21274 \rot@message{\the\rot@mess@toks}
21275 }%
21276 \end@float
21277 }
21278 \let\endsidewaysfigure\end@rotfloat
21279 \let\endsidewaystable\end@rotfloat
21280 \def\end@rotdblfloat{%
21281 \end{minipage}\end{lrbox}%
21282 \stepcounter{r@tfl@t}%
21283 \rot@label{RF\ther@tfl@t}%
21284 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21285 \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
21286 \rot@mess@toks\expandafter{\@tempa}
21287 \@tempdima\ht\rot@float@box
21288 \advance\@tempdima by \dp\rot@float@box
21289 \wd\rot@float@box\z@
21290 \ht\rot@float@box\z@
21291 \dp\rot@float@box\z@
21292 \vboxL to \textheight{%
21293 \setkeys{Grot}{units=360}%

```



```

21294 \if@rot@twoside
21295 \else
21296 \let\R@@page\rot@LR
21297 \fi
21298 \ifthenelse{\isodd{\R@@page}}{%
21299 \ifrot@messages
21300 \if@rot@twoside
21301 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
21302 \fi
21303 \fi
21304 \vfill
21305 \@@line{%
21306 \hskip\rotFPtop
21307 \rotatebox{90}{\box\rot@float@box}%
21308 \hskip\rotFPbot
21309 }%
21310 }{%
21311 \ifrot@messages
21312 \if@rot@twoside
21313 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21314 \fi
21315 \fi%
21316 \@@line{%
21317 \hskip\rotFPbot
21318 \rotatebox{-90}{\box\rot@float@box}%
21319 \hskip\rotFPtop
21320 }%
21321 \vfill
21322 }%
21323 \rot@message{\the\rot@mess@toks}%
21324 }%
21325 \end@dblfloat
21326 }
21327 \def\turn#1{%
21328 \Grot@setangle{#1}%
21329 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21330 \def\endturn{%
21331 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21332 \unskip\color@endbox
21333 \Grot@x\z@
21334 \Grot@y\z@
21335 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21336 }
21337 \def\rotate#1{%
21338 \Grot@setangle{#1}%
21339 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21340 \def\endrotate{%
21341 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21342 \unskip\color@endbox
21343 \Grot@x\z@
21344 \Grot@y\z@
21345 \wd0\z@\dp0\z@\ht0\z@
21346 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21347 }

```




```

21348 \def\turnbox#1#2{%
21349   \Grot@setangle{#1}%
21350   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21351   \Grot@x\z@\Grot@y\z@
21352   \wd0\z@\dp0\z@\ht0\z@
21353   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21354 }
21355 \def\sideways{%
21356   \Grot@setangle{90}%
21357   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21358 \def\endsideways{%
21359   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21360   \unskip\color@endbox
21361   \Grot@x\z@
21362   \Grot@y\z@
21363   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21364 }

```

140 File scrartcl-xetex-bidi.def

```

21365 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21366 \newcommand{\scr@saved@LTRfootnotetext}{}
21367 \newcommand{\scr@saved@RTLfootnotetext}{}
21368 \let\scr@saved@footnotetext\@footnotetext
21369 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21370 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21371 \renewcommand{\@footnotetext}[1]{%
21372   \scr@saved@footnotetext{#1}%
21373   \csname FN@mfp@prepare\endcsname
21374 }
21375 \renewcommand{\@LTRfootnotetext}[1]{%
21376   \scr@saved@LTRfootnotetext{#1}%
21377   \csname FN@mfp@prepare\endcsname
21378 }
21379 \renewcommand{\@RTLfootnotetext}[1]{%
21380   \scr@saved@RTLfootnotetext{#1}%
21381   \csname FN@mfp@prepare\endcsname
21382 }
21383 \renewcommand\deffootnote[4][1]{%
21384   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21385     \long\def\@makefntext##1{%
21386       \ExecuteDoHook{footnote/text/begin}%
21387       \raggedfootnote
21388       \if@RTL
21389         \rightskip
21390       \else
21391         \leftskip
21392       \fi
21393       #2
21394       \l@addto@macro\@trivlist{%
21395         \ifnum\@listdepth=\@ne
21396           \if@RTL
21397             \advance\rightmargin #2\relax
21398           \else

```



```

21399         \advance\leftmargin #2\relax
21400     \fi
21401 \fi
21402 }%
21403 \parindent #3\noindent
21404 \IfArgIsEmpty{#1}{\{%
21405     \hskip \dimexpr #1-#2\relax
21406 }%
21407 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
21408 \ExecuteDoHook{footnote/text/end}%
21409 }%
21410 \else
21411 \ClassInfo{\KOMAClassName}{%
21412     Using old \string\@makefnmark\space due to compatibility
21413     level\MessageBreak
21414     less than 3.22}%
21415 \long\def\@makefnmark##1{%
21416     \setlength{\@tempdimc}{#3}%
21417     \def\@tempa{#1}\ifx\@tempa\@empty
21418         \@setpar{\@par
21419             \@tempdima = \hsize
21420             \addtolength{\@tempdima}{-#2}%
21421             \if@RTL
21422                 \parshape \@ne \z@ \@tempdima
21423             \else
21424                 \parshape \@ne #2 \@tempdima
21425             \fi}%
21426     \else
21427         \addtolength{\@tempdimc}{#2}%
21428         \addtolength{\@tempdimc}{-#1}%
21429         \@setpar{\@par
21430             \@tempdima = \hsize
21431             \addtolength{\@tempdima}{-#1}%
21432             \@tempdimb = \hsize
21433             \addtolength{\@tempdimb}{-#2}%
21434             \if@RTL
21435                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21436             \else
21437                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21438             \fi
21439         }%
21440     \fi
21441 \par
21442 \parindent\@tempdimc\noindent
21443 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
21444 }%
21445 \fi
21446 \def\@@makefnmark{\hbox{\ftn@font{#4}}}%
21447 }
21448 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21449 \renewcommand*\left@footnoterule{%
21450     \normalsize\ftn@rule@test@values
21451     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21452     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi

```



```

21453 {\usekomafont{footnoterule}{%
21454 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21455 \kern 2.6\p@}
21456 \renewcommand*\right@footnoterule{%
21457 \normalsize\ftn@rule@test@values
21458 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21459 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21460 {\usekomafont{footnoterule}{%
21461 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21462 \kern 2.6\p@}
21463 \renewcommand*\maketitle[1][1]{%
21464 \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
21465 \else
21466 \def\and{%
21467 \end{tabular}%
21468 \hskip 1em \@plus.17fil%
21469 \begin{tabular}[t]{c}%
21470 }%
21471 \fi
21472 \if@titlepage
21473 \begin{titlepage}
21474 \setcounter{page}{%
21475 #1%
21476 }%
21477 \if@titlepageiscoverpage
21478 \edef\t@titlepage@restore{%
21479 \noexpand\endgroup
21480 \noexpand\global\noexpand\@colht\the\@colht
21481 \noexpand\global\noexpand\@colroom\the\@colroom
21482 \noexpand\global\vs@the\the\vs@the
21483 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21484 \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
21485 }%
21486 \begingroup
21487 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21488 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21489 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21490 \textwidth=\dimexpr
21491 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21492 \textheight=\dimexpr
21493 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21494 \headheight=0pt
21495 \headsep=0pt
21496 \footskip=\baselineskip
21497 \@colht=\textheight
21498 \@colroom=\textheight
21499 \vs@the=\textheight
21500 \columnwidth=\textwidth
21501 \hsize=\columnwidth
21502 \linewidth=\hsize
21503 \else
21504 \let\t@titlepage@restore\relax
21505 \fi
21506 \let\footnotesize\small

```



```

21507 \let\right@footnoterule\relax
21508 \let\left@footnoterule\relax
21509 \let\textwidth@footnoterule\relax
21510 \let\footnote\thanks
21511 \let\LTRfootnote\LTRthanks
21512 \let\RTLfootnote\RTLthanks
21513 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21514 \let\@oldmakefnmark\@makefnmark
21515 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21516 \ifx\@extratitle\@empty
21517   \ifx\@frontispiece\@empty
21518   \else
21519     \if@twoside\mbox{}\next@tpage\fi
21520     \noindent\@frontispiece\next@tdpage
21521   \fi
21522 \else
21523   \noindent\@extratitle
21524   \ifx\@frontispiece\@empty
21525   \else
21526     \next@tpage
21527     \noindent\@frontispiece
21528   \fi
21529   \next@tdpage
21530 \fi
21531 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
21532 \ifx\@titlehead\@empty \else
21533   \begin{minipage}[t]{\textwidth}%
21534     \usekomafont{titlehead}{\@titlehead\par}%
21535   \end{minipage}\par
21536 \fi
21537 \null\vfill
21538 \begin{center}
21539   \ifx\@subject\@empty \else
21540     {\usekomafont{subject}{\@subject\par}}%
21541     \vskip 3em
21542   \fi
21543   {\usekomafont{title}{\huge \@title\par}}%
21544   \vskip 1em
21545   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21546   \vskip 2em
21547   {%
21548     \usekomafont{author}{%
21549       \lineskip 0.75em
21550       \begin{tabular}[t]{c}
21551         \@author
21552       \end{tabular}\par
21553     }%
21554   }%
21555   \vskip 1.5em
21556   {\usekomafont{date}{\@date \par}}%
21557   \vskip \z@ \@plus3fill
21558   {\usekomafont{publishers}{\@publishers \par}}%
21559   \vskip 3em
21560 \end{center}\par

```



```

21561 \@thanks\global\let\@thanks\@empty
21562 \vfill\null
21563 \if@twoside
21564 \@tempwattrue
21565 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21566 \else
21567 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21568 \@tempwafalse
21569 \fi\fi
21570 \fi
21571 \if@tempswa
21572 \next@tpage
21573 \begin{minipage}[t]{\textwidth}
21574 \@uppertitleback
21575 \end{minipage}\par
21576 \vfill
21577 \begin{minipage}[b]{\textwidth}
21578 \@lowertitleback
21579 \end{minipage}\par
21580 \@thanks\global\let\@thanks\@empty
21581 \fi
21582 \else
21583 \ifx\@uppertitleback\@empty\else
21584 \ClassWarning{\KOMAClassName}{%
21585 non empty \string\uppertitleback\space ignored
21586 by \string\maketitle\MessageBreak
21587 in `twoside=false' mode%
21588 }%
21589 \fi
21590 \ifx\@lowertitleback\@empty\else
21591 \ClassWarning{\KOMAClassName}{%
21592 non empty \string\lowertitleback\space ignored
21593 by \string\maketitle\MessageBreak
21594 in `twoside=false' mode%
21595 }%
21596 \fi
21597 \fi
21598 \ifx\@dedication\@empty
21599 \else
21600 \next@tdpage\null\vfill
21601 {\centering\usekomafont{dedication}{\@dedication \par}}%
21602 \vskip \z@ \@plus3fill
21603 \@thanks\global\let\@thanks\@empty
21604 \cleardoubleemptypage
21605 \fi
21606 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21607 \end{titlepage}
21608 \else
21609 \par
21610 \@tempcnta=%
21611 #1%
21612 \relax\ifnum\@tempcnta=1\else
21613 \ClassWarning{\KOMAClassName}{%
21614 Optional argument of \string\maketitle\space ignored\MessageBreak

```



```

21615         in `titlepage=false' mode%
21616     }%
21617 \fi
21618 \ifx\@uppertitleback\@empty\else
21619     \ClassWarning{\KOMAClassName}{%
21620         non empty \string\uppertitleback\space ignored
21621         by \string\maketitle\MessageBreak
21622         in `titlepage=false' mode%
21623     }%
21624 \fi
21625 \ifx\@lowertitleback\@empty\else
21626     \ClassWarning{\KOMAClassName}{%
21627         non empty \string\lowertitleback\space ignored
21628         by \string\maketitle\MessageBreak
21629         in `titlepage=false' mode%
21630     }%
21631 \fi
21632 \begingroup
21633     \let\titlepage@restore\relax
21634     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21635     \let\@oldmakefnmark\@makefnmark
21636     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21637     \next@tdpage
21638     \if@twocolumn
21639         \ifnum \col@number=\@one
21640             \ifx\@extratitle\@empty
21641                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21642             \else
21643                 \@makeextratitle
21644             \fi
21645             \ifx\@frontispiece\@empty
21646                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21647             \else
21648                 \next@tpage
21649                 \@makefrontispiece
21650                 \next@tdpage
21651             \fi
21652             \@maketitle
21653         \else
21654             \ifx\@extratitle\@empty
21655                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21656             \else
21657                 \twocolumn[\@makeextratitle]%
21658             \fi
21659             \ifx\@frontispiece\@empty
21660                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21661             \else
21662                 \next@tpage
21663                 \twocolumn[\@makefrontispiece]%
21664                 \next@tdpage
21665             \fi
21666             \twocolumn[\@maketitle]%
21667         \fi
21668     \else

```



```

21669      \ifx\@extratitle\@empty
21670      \ifx\@frontispiece\@empty\else \mbox{}\fi
21671      \else
21672      \@makeextratitle
21673      \fi
21674      \ifx\@frontispiece\@empty
21675      \ifx\@extratitle\@empty\else\next@tdpage\fi
21676      \else
21677      \next@tpage
21678      \@makefrontispiece
21679      \next@tdpage
21680      \fi
21681      \@maketitle
21682      \fi
21683      \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21684      \@thanks\global\let\@thanks\@empty
21685      \endgroup
21686      \fi
21687      \setcounter{footnote}{0}%
21688      \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21689      \let\thanks\relax
21690      \let\LTRthanks\relax
21691      \let\RTLthanks\relax
21692      \let\maketitle\relax
21693      \let\@maketitle\relax
21694      \global\let\@thanks\@empty
21695      \global\let\@author\@empty
21696      \global\let\@date\@empty
21697      \global\let\@title\@empty
21698      \global\let\@subtitle\@empty
21699      \global\let\@extratitle\@empty
21700      \global\let\@frontispiece\@empty
21701      \global\let\@titlehead\@empty
21702      \global\let\@subject\@empty
21703      \global\let\@publishers\@empty
21704      \global\let\@uppertitleback\@empty
21705      \global\let\@lowertitleback\@empty
21706      \global\let\@dedication\@empty
21707      \global\let\author\relax
21708      \global\let\title\relax
21709      \global\let\extratitle\relax
21710      \global\let\titlehead\relax
21711      \global\let\subject\relax
21712      \global\let\publishers\relax
21713      \global\let\uppertitleback\relax
21714      \global\let\lowertitleback\relax
21715      \global\let\dedication\relax
21716      \global\let\date\relax
21717      \fi
21718      \global\let\and\relax
21719      }%
21720      \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21721      \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21722      \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}

```



```

21723 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21724 \renewcommand*{\thesubsubsection}{%
21725   \thesubsection\@SepMark\@arabic\c@subsubsection
21726 }
21727 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21728 \renewcommand*{\thesubparagraph}{%
21729   \theparagraph\@SepMark\@arabic\c@subparagraph
21730 }
21731 \renewenvironment{thebibliography}[1]{%
21732   \if@bib@break@
21733     \bib@beginhook
21734   \else
21735     \bib@heading
21736     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21737       \noindent\bibpreamble\par\nobreak
21738     \fi\fi
21739     \bib@beginhook
21740     \bib@before@hook
21741   \fi
21742   \renewcommand{\BreakBibliography}[1]{%
21743     \@bib@break
21744     \end{thebibliography}%
21745     \begingroup ##1\endgroup
21746     \begin{thebibliography}{#1}
21747   }%
21748   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21749   \bidi@thebibliography@font@hook%
21750   \list{%
21751     \@biblabel{\@arabic\c@enumiv}%
21752   }{%
21753     \settowidth\labelwidth{\@biblabel{#1}}%
21754     \leftmargin\labelwidth
21755     \advance\leftmargin\labelsep
21756     \@openbib@code
21757     \if@bib@break@
21758       \edef\@tempa{%
21759         \noexpand\usecounter{enumiv}%
21760         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21761       }\@tempa
21762       \no@bib@break
21763     \else
21764       \usecounter{enumiv}%
21765     \fi
21766     \let\p@enumiv\@empty
21767     \renewcommand*{\theenumiv}{\@arabic\c@enumiv}%
21768   }%
21769   \sloppy\clubpenalty4000 \widowpenalty4000
21770   \sfcode`\.\=\@m
21771 }{%
21772   \if@bib@break@
21773     \def\@noitemerr{%
21774       \@latex@warning{%
21775         \string\BreakBibliography\space at begin of `thebibliography'
21776         environment\MessageBreak

```




```

21777         or following \string\BreakBibliography}%
21778     }%
21779 \else
21780     \def\@noitemerr{%
21781         \@latex@warning{%
21782             Empty `thebibliography' environment or
21783             \string\BreakBibliography\MessageBreak
21784             before end of `thebibliography' environment}%
21785     }%
21786 \fi
21787 \endlist
21788 \if@bib@break@
21789 \else
21790     \bib@after@hook
21791     \let\bib@before@hook\@empty
21792     \let\bib@after@hook\@empty
21793 \fi
21794 \bib@endhook
21795 }
21796 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21797 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21798 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21799 \renewcommand\marginline[1]{%
21800     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21801 }
21802 \renewcommand{\@makecaption}[3]{%
21803     \cap@margin
21804     \begingroup
21805         \ifonelinecaptions
21806         \def\stepcounter##1{\advance\value{##1}\@ne}%
21807         \let\refstepcounter\stepcounter
21808         \let\label\@gobble
21809         \let\@footnotetext=\@gobble
21810         \let\@LTRfootnotetext=\@gobble
21811         \let\@RTLfootnotetext=\@gobble
21812         \let\hypertarget\@gobbletwo
21813         \edef\xnewline{%
21814             \unexpanded{\ClassInfo{\KOMAClassName}}{%
21815                 Workaround for not recommended usage of \string\\ or\MessageBreak
21816                 \string\newline in caption text
21817             }%
21818             \hspace*{\linewidth}\hspace{1sp}%
21819             }%
21820             \unexpanded\expandafter{\@xnewline}%
21821         }%
21822         \edef\@xcentercr{%
21823             \unexpanded{\ClassInfo{\KOMAClassName}}{%
21824                 Workaround for not recommended usage of \string\\ or\MessageBreak
21825                 \string\newline in caption text
21826             }%
21827             \hspace*{\linewidth}\hspace{1sp}%
21828             }%
21829             \unexpanded\expandafter{\@xcentercr}%
21830         }%

```



```

21831 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21832 \ifdim\@tempdima>\cap@width
21833 \aftergroup\scr@makemultilinecaption
21834 \else
21835 \aftergroup\scr@makesinglelinecaption
21836 \fi
21837 \else
21838 \aftergroup\scr@makemultilinecaption
21839 \fi
21840 \endgroup
21841 {#1}{#2}{#3}%
21842 }
21843 \renewcommand{\scr@makesinglelinecaption}[3]{%
21844 {%
21845 \usefontofkomafont{caption}{%
21846 \hb@xt@ \hsize{%
21847 \cap@left
21848 \if@RTL
21849 \beginR
21850 \fi
21851 \scr@makesinglelinecaption{#1}{#2}{#3}%
21852 \if@RTL
21853 \endR
21854 \fi
21855 \cap@right
21856 }\par\kern\dp\strutbox%
21857 }%
21858 }\kern-\dp\strutbox
21859 }
21860 \renewcommand{\@makecaption}[2]{%
21861 \if@captionabove
21862 \vskip\belowcaptionskip
21863 \else
21864 \vskip\abovecaptionskip
21865 \fi
21866 \@makecaption\@firstofone{#1}{#2}%
21867 \if@captionabove
21868 \vskip\abovecaptionskip
21869 \else
21870 \vskip\belowcaptionskip
21871 \fi
21872 }
21873
21874 \renewcommand{\scr@makesinglelinecaption}[3]{%
21875 {\usekomafont{caption}{\strut\ignorespaces
21876 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21877 \ignorespaces #3\unskip}}%
21878 }
21879
21880 \renewcommand{\scr@makemultilinecaption}[3]{%
21881 {%
21882 \usefontofkomafont{caption}{%
21883 \hb@xt@ \hsize{%
21884 \cap@left

```



```

21885 \vbox{\hsize\cap@width\linewidth\hsize
21886 \scr@ifundefinedorrelax{@captype}{%
21887 \ClassWarning{\KOMAClassName}{%
21888 \string\caption' outside float.\MessageBreak
21889 Seems you are using \string\caption' outside a
21890 float.\MessageBreak
21891 Maybe you are using a package that uses
21892 \string\@makecaption'\MessageBreak
21893 without setting \string\@captype' before.\MessageBreak
21894 Because I cannot detect the caption type, I'm using\MessageBreak
21895 the empty one.%
21896 }%
21897 \let\@captype\@empty
21898 }{}%
21899 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21900 \@nameuse{ragged\@captype caption}%
21901 }%
21902 \ifdofullc@p
21903 \@hangfrom{%
21904 \strut
21905 \scr@smashdp{%
21906 #1{%
21907 \usekomafont{caption}{%
21908 \usekomafont{captionlabel}{#2\captionformat}%
21909 }%
21910 }%
21911 }%
21912 }%
21913 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21914 \else
21915 \ifdim\cap@indent<\z@
21916 \strut
21917 #1{%
21918 {\usekomafont{caption}{%
21919 \usekomafont{captionlabel}{#2\captionformat}%
21920 }%
21921 }\par}%
21922 \noindent{{\usekomafont{caption}{%
21923 \hspace*{-\cap@indent}#3\scr@endstrut
21924 }}\par}%
21925 \else
21926 \if@capbreak
21927 \strut
21928 #1{%
21929 {\usekomafont{caption}{%
21930 \usekomafont{captionlabel}{#2\captionformat}%
21931 }%
21932 }\par}%
21933 \noindent\@hangfrom{\hspace*{\cap@indent}}%
21934 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21935 \else
21936 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21937 {%
21938 \hspace{-\cap@indent}%

```



```

21939         \scr@smashdp{%
21940             #1{\usekomafont{caption}{%
21941                 \usekomafont{captionlabel}{#2\captionformat}%
21942             }%
21943         }%
21944     }%
21945     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21946 }%
21947 \fi
21948 \fi
21949 \fi
21950 }%
21951 \cap@right
21952 }\par\kern\dp\strutbox
21953 }%
21954 }\kern-\dp\strutbox
21955 }
21956
21957 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21958     \if@komalongtable
21959         \renewcommand{\LT@makecaption}[3]{%
21960             \noalign{%
21961                 \if@captionabove
21962                     \vskip\belowcaptionskip
21963                 \else
21964                     \vskip\abovecaptionskip
21965                 \fi
21966             }%
21967             \LT@mcol\LT@cols c{%
21968                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21969                     \def\@capytype{table}%
21970                     \@makecaption{#1}{#2}{#3}%
21971                     \endgraf
21972                     \if@captionabove
21973                         \vskip\abovecaptionskip
21974                     \else
21975                         \vskip\belowcaptionskip
21976                     \fi
21977                 }%
21978                 \hss
21979             }%
21980         }%
21981     }%
21982     \renewcommand*{\scr@LT@array}{}%
21983     \let\scr@LT@array=\LT@array
21984     \renewcommand*{\LT@array}{%
21985         \let\scr@caption=\LT@caption
21986         \def\captionabove{\noalign{\global\@captionabovetrue}%
21987             \scr@caption}%
21988         \def\captionbelow{\noalign{\global\@captionabovetrue}%
21989             \scr@caption}%
21990         \if@tablecaptionabove
21991             \let\LT@caption=\captionabove
21992         \else

```



```

21993         \let\LT@caption=\captionbelow
21994     \fi
21995     \scr@LT@array
21996 }%
21997 \ClassInfo{\KOMAClassName}{%
21998     longtable captions redefined%
21999 }%
22000 \fi
22001 }
22002
22003 \CloneTOCEntryStyle{tocline}{part}
22004 \TOCEntryStyleStartInitCode{part}{%
22005     \expandafter\renewcommand%
22006     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22007     \expandafter\renewcommand%
22008     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22009     \expandafter\renewcommand%
22010     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22011         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22012     \expandafter\renewcommand\expandafter*%
22013     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22014 }
22015
22016 \CloneTOCEntryStyle{tocline}{section}
22017 \TOCEntryStyleStartInitCode{section}{%
22018     \expandafter\renewcommand%
22019     \csname scr@tso@#1@linefill\endcsname{%
22020         \if@sectionentrywithdots
22021             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22022         \else
22023             \hfill
22024         \fi
22025     }%
22026     \expandafter\renewcommand%
22027     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22028     \expandafter\renewcommand%
22029     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22030     \expandafter\renewcommand\expandafter*%
22031     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22032 }
22033
22034 \CloneTOCEntryStyle{tocline}{subsection}
22035 \TOCEntryStyleStartInitCode{subsection}{%
22036     \expandafter\renewcommand%
22037     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22038     \expandafter\renewcommand%
22039     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22040         {\normalfont\normalcolor ##1}}%
22041 }
22042
22043 \CloneTOCEntryStyle{subsection}{default}
22044
22045 \DeclareSectionCommand[%
22046     style=section,%

```



```

22047 level=1,%
22048 indent=\z@,%
22049 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22050 afterskip=2.3ex \@plus .2ex,%
22051 tocstyle=section,%
22052 tocindent=0pt,%
22053 tocnumwidth=1.5em%
22054 ]{section}
22055 \DeclareSectionCommand[%
22056 style=part,%
22057 level=\z@,%
22058 tocstyle=part,%
22059 toclevel=\m@ne,%
22060 tocindent=\z@,%
22061 tocnumwidth=2em%
22062 ]{part}
22063 \DeclareSectionCommand[%
22064 style=section,%
22065 level=2,%
22066 indent=\z@,%
22067 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
22068 afterskip=1.5ex \@plus .2ex,%
22069 tocstyle=subsection,%
22070 tocindent=1.5em,%
22071 tocnumwidth=2.3em%
22072 ]{subsection}
22073 \DeclareSectionCommand[%
22074 style=section,%
22075 level=3,%
22076 indent=\z@,%
22077 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
22078 afterskip=1.5ex \@plus .2ex,%
22079 tocstyle=subsection,%
22080 tocindent=3.8em,%
22081 tocnumwidth=3.2em%
22082 ]{subsubsection}
22083 \DeclareSectionCommand[%
22084 style=section,%
22085 level=4,%
22086 indent=\z@,%
22087 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22088 afterskip=-1em,%
22089 tocstyle=subsection,%
22090 tocindentfollows=subsubsection,%
22091 tocindent=7.0em,%
22092 tocnumwidth=4.1em%
22093 ]{paragraph}
22094 \DeclareSectionCommand[%
22095 style=section,%
22096 level=5,%
22097 indent=\scr@parindent,%
22098 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22099 afterskip=-1em,%
22100 tocstyle=subsection,%

```



```

22101   tocindent=10em,%
22102   tocnumwidth=5em%
22103 ]{subparagraph}

```

141 File scrbook-xetex-bidi.def

```

22104 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22105 \newcommand{\scr@saved@LTRfootnotetext}{}
22106 \newcommand{\scr@saved@RTLfootnotetext}{}
22107 \let\scr@saved@footnotetext\@footnotetext
22108 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22109 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22110 \renewcommand{\@footnotetext}[1]{%
22111   \scr@saved@footnotetext{#1}%
22112   \csname FN@mfb@prepare\endcsname
22113 }
22114 \renewcommand{\@LTRfootnotetext}[1]{%
22115   \scr@saved@LTRfootnotetext{#1}%
22116   \csname FN@mfb@prepare\endcsname
22117 }
22118 \renewcommand{\@RTLfootnotetext}[1]{%
22119   \scr@saved@RTLfootnotetext{#1}%
22120   \csname FN@mfb@prepare\endcsname
22121 }
22122 \renewcommand\deffootnote[4][1]{%
22123   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22124     \long\def\@makefnmark##1{%
22125       \ExecuteDoHook{footnote/text/begin}%
22126       \raggedfootnote
22127       \if@RTL
22128         \rightskip
22129       \else
22130         \leftskip
22131       \fi
22132       #2
22133       \l@addto@macro\@trivlist{%
22134         \ifnum\@listdepth=\@one\advance
22135           \if@RTL
22136             \rightmargin #2\relax
22137           \else
22138             \leftmargin #2\relax
22139           \fi
22140         \fi
22141       }%
22142       \parindent #3\noindent
22143       \IfArgIsEmpty{#1}{}{%
22144         \hskip \dimexpr #1-#2\relax
22145       }%
22146       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22147       \ExecuteDoHook{footnote/text/end}%
22148     }%
22149   \else
22150     \ClassInfo{\KOMAClassName}{%
22151       Using old \string\@makefnmark\space due to compatibility

```



```

22152     level\MessageBreak
22153     less than 3.22}%
22154 \long\def\@makefnmark##1{%
22155     \setlength{\@tempdimc}{#3}%
22156     \def\@tempa{#1}\ifx\@tempa\@empty
22157         \setpar{\@par
22158             \@tempdima = \hsize
22159             \addtolength{\@tempdima}{-#2}%
22160             \if@RTL
22161                 \parshape \@ne \z@ \@tempdima
22162             \else
22163                 \parshape \@ne #2 \@tempdima
22164             \fi
22165         }%
22166     \else
22167         \addtolength{\@tempdimc}{#2}%
22168         \addtolength{\@tempdimc}{-#1}%
22169         \setpar{\@par
22170             \@tempdima = \hsize
22171             \addtolength{\@tempdima}{-#1}%
22172             \@tempdimb = \hsize
22173             \addtolength{\@tempdimb}{-#2}%
22174             \if@RTL
22175                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22176             \else
22177                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22178             \fi
22179         }%
22180     \fi
22181     \par
22182     \parindent\@tempdimc\noindent
22183     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22184 }%
22185 \fi
22186 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22187 }
22188 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22189 \renewcommand*\left@footnoterule{%
22190     \normalsize\ftn@rule@test@values
22191     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22192     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22193     {\usekomafont{footnoterule}{%
22194         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22195     \kern 2.6\p@}
22196 \renewcommand*\right@footnoterule{%
22197     \normalsize\ftn@rule@test@values
22198     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22199     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22200     {\usekomafont{footnoterule}{%
22201         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
22202         \kern 2.6\p@}
22203     \renewcommand*\maketitle[1][1]{%
22204         \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
22205         \else

```




```

22206 \def\and{%
22207 \end{tabular}%
22208 \hskip 1em \@plus.17fil%
22209 \begin{tabular}[t]{c}%
22210 }%
22211 \fi
22212 \if@titlepage
22213 \begin{titlepage}
22214 \setcounter{page}{%
22215 #1%
22216 }%
22217 \if@titlepageiscoverpage
22218 \edef\titlename@restore{%
22219 \noexpand\endgroup
22220 \noexpand\global\noexpand\@colht\the\@colht
22221 \noexpand\global\noexpand\@colroom\the\@colroom
22222 \noexpand\global\vsizethe\vsizethe
22223 \noexpand\global\noexpand\@titlepageiscoverpagefalse
22224 \noexpand\let\noexpand\titlename@restore\noexpand\relax
22225 }%
22226 \begin{group}
22227 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22228 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22229 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22230 \textwidth=\dimexpr
22231 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22232 \textheight=\dimexpr
22233 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22234 \headheight=0pt
22235 \headsep=0pt
22236 \footskip=\baselineskip
22237 \@colht=\textheight
22238 \@colroom=\textheight
22239 \vsizethe\textheight
22240 \columnwidth=\textwidth
22241 \hsize=\columnwidth
22242 \linewidth=\hsize
22243 \else
22244 \let\titlename@restore\relax
22245 \fi
22246 \let\footnotesize\small
22247 \let\right@footnoterule\relax
22248 \let\left@footnoterule\relax
22249 \let\textwidth@footnoterule\relax
22250 \let\footnote\thanks
22251 \let\LTRfootnote\LTRthanks
22252 \let\RTLfootnote\RTLthanks
22253 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22254 \let\@oldmakefnmark\@makefnmark
22255 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22256 \ifx\@extratitle\@empty
22257 \ifx\@frontispiece\@empty
22258 \else
22259 \if@twoside\mbox{}\next@tpage\fi

```



```

22260         \noindent\@frontispiece\next@tdpage
22261     \fi
22262 \else
22263     \noindent\@extratitle
22264     \ifx\@frontispiece\@empty
22265     \else
22266         \next@tpage
22267         \noindent\@frontispiece
22268     \fi
22269     \next@tdpage
22270 \fi
22271 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22272 \ifx\@titlehead\@empty \else
22273     \begin{minipage}[t]{\textwidth}%
22274         \usekomafont{titlehead}{\@titlehead\par}%
22275     \end{minipage}\par
22276 \fi
22277 \null\vfill
22278 \begin{center}
22279     \ifx\@subject\@empty \else
22280         {\usekomafont{subject}{\@subject\par}}%
22281         \vskip 3em
22282     \fi
22283     {\usekomafont{title}{\huge \@title\par}}%
22284     \vskip 1em
22285     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22286     \vskip 2em
22287     {%
22288         \usekomafont{author}{%
22289             \lineskip 0.75em
22290             \begin{tabular}[t]{c}
22291                 \@author
22292             \end{tabular}\par
22293         }%
22294     }%
22295     \vskip 1.5em
22296     {\usekomafont{date}{\@date \par}}%
22297     \vskip \z@ \@plus3fill
22298     {\usekomafont{publishers}{\@publishers \par}}%
22299     \vskip 3em
22300 \end{center}\par
22301 \@thanks\global\let\@thanks\@empty
22302 \vfill\null
22303 \if@twoside
22304     \@tempswatrue
22305     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22306     \else
22307         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22308             \@tempswafalse
22309         \fi\fi
22310     \fi
22311     \if@tempswa
22312         \next@tpage
22313         \begin{minipage}[t]{\textwidth}

```



```

22314         \@uppertitleback
22315     \end{minipage}\par
22316     \vfill
22317     \begin{minipage}[b]{\textwidth}
22318         \@lowertitleback
22319     \end{minipage}\par
22320     \@thanks\global\let\@thanks\@empty
22321 \fi
22322 \else
22323     \ifx\@uppertitleback\@empty\else
22324         \ClassWarning{\KOMAClassName}{%
22325             non empty \string\uppertitleback\space ignored
22326             by \string\maketitle\MessageBreak
22327             in `twoside=false' mode%
22328         }%
22329     \fi
22330     \ifx\@lowertitleback\@empty\else
22331         \ClassWarning{\KOMAClassName}{%
22332             non empty \string\lowertitleback\space ignored
22333             by \string\maketitle\MessageBreak
22334             in `twoside=false' mode%
22335         }%
22336     \fi
22337 \fi
22338 \ifx\@dedication\@empty
22339 \else
22340     \next@tdpage\null\vfill
22341     {\centering\usekomafont{dedication}{\@dedication \par}}%
22342     \vskip \z@ \@plus3fill
22343     \@thanks\global\let\@thanks\@empty
22344     \cleardoubleemptypage
22345 \fi
22346 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22347 \end{titlepage}
22348 \else
22349     \par
22350     \@tempcnta=%
22351     #1%
22352     \relax\ifnum\@tempcnta=1\else
22353         \ClassWarning{\KOMAClassName}{%
22354             Optional argument of \string\maketitle\space ignored\MessageBreak
22355             in `titlepage=false' mode%
22356         }%
22357     \fi
22358     \ifx\@uppertitleback\@empty\else
22359         \ClassWarning{\KOMAClassName}{%
22360             non empty \string\uppertitleback\space ignored
22361             by \string\maketitle\MessageBreak
22362             in `titlepage=false' mode%
22363         }%
22364     \fi
22365     \ifx\@lowertitleback\@empty\else
22366         \ClassWarning{\KOMAClassName}{%
22367             non empty \string\lowertitleback\space ignored

```



```

22368         by \string\maketitle\MessageBreak
22369         in `titlepage=false' mode%
22370     }%
22371 \fi
22372 \begingroup
22373     \let\titlepage@restore\relax
22374     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22375     \let\@oldmakefnmark\@makefnmark
22376     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22377     \next@tdpage
22378     \if@twocolumn
22379         \ifnum \col@number=\@one
22380             \ifx\@extratitle\@empty
22381                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22382             \else
22383                 \@makeextratitle
22384             \fi
22385             \ifx\@frontispiece\@empty
22386                 \ifx\@extratitle\@empty\else\next@tdpage\fi
22387             \else
22388                 \next@tpage
22389                 \@makefrontispiece
22390                 \next@tdpage
22391             \fi
22392             \@maketitle
22393         \else
22394             \ifx\@extratitle\@empty
22395                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22396             \else
22397                 \twocolumn[\@makeextratitle]%
22398             \fi
22399             \ifx\@frontispiece\@empty
22400                 \ifx\@extratitle\@empty\else\next@tdpage\fi
22401             \else
22402                 \next@tpage
22403                 \twocolumn[\@makefrontispiece]%
22404                 \next@tdpage
22405             \fi
22406             \twocolumn[\@maketitle]%
22407         \fi
22408     \else
22409         \ifx\@extratitle\@empty
22410             \ifx\@frontispiece\@empty\else \mbox{}\fi
22411         \else
22412             \@makeextratitle
22413         \fi
22414         \ifx\@frontispiece\@empty
22415             \ifx\@extratitle\@empty\else\next@tdpage\fi
22416         \else
22417             \next@tpage
22418             \@makefrontispiece
22419             \next@tdpage
22420         \fi
22421         \@maketitle

```



```

22422 \fi
22423 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22424 \@thanks\global\let\@thanks\@empty
22425 \endgroup
22426 \fi
22427 \setcounter{footnote}{0}%
22428 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
22429 \let\thanks\relax
22430 \let\LTRthanks\relax
22431 \let\RTLthanks\relax
22432 \let\maketitle\relax
22433 \let\@maketitle\relax
22434 \global\let\@thanks\@empty
22435 \global\let\@author\@empty
22436 \global\let\@date\@empty
22437 \global\let\@title\@empty
22438 \global\let\@subtitle\@empty
22439 \global\let\@extratitle\@empty
22440 \global\let\@frontispiece\@empty
22441 \global\let\@titlehead\@empty
22442 \global\let\@subject\@empty
22443 \global\let\@publishers\@empty
22444 \global\let\@uppertitleback\@empty
22445 \global\let\@lowertitleback\@empty
22446 \global\let\@dedication\@empty
22447 \global\let\author\relax
22448 \global\let\title\relax
22449 \global\let\extratitle\relax
22450 \global\let\titlehead\relax
22451 \global\let\subject\relax
22452 \global\let\publishers\relax
22453 \global\let\uppertitleback\relax
22454 \global\let\lowertitleback\relax
22455 \global\let\dedication\relax
22456 \global\let\date\relax
22457 \fi
22458 \global\let\and\relax
22459 }%
22460 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22461 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22462 \renewcommand*\thesection{%
22463 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22464 \if@mainmatter\thechapter\@SepMark\fi
22465 \else
22466 \thechapter\@SepMark%
22467 \fi
22468 \@arabic\c@section
22469 }
22470 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
22471 \renewcommand*{\thesubsubsection}{%
22472 \thesubsection\@SepMark\@arabic\c@subsubsection
22473 }
22474 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22475 \renewcommand*{\thesubparagraph}{-%

```



```

22476 \theparagraph\@SepMark\@arabic\c@subparagraph
22477 }
22478 \expandafter\ifnum\scr@v@is@le{2.97d}%
22479 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22480 \fi
22481 \expandafter\ifnum\scr@v@is@le{2.97d}%
22482 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22483 \fi
22484 \renewcommand*\theequation{%
22485 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22486 \if@mainmatter\thechapter\@SepMark\fi
22487 \else
22488 \thechapter\@SepMark%
22489 \fi
22490 \@arabic\c@equation
22491 }
22492 \renewenvironment{thebibliography}[1]{%
22493 \if@bib@break@
22494 \bib@beginhook
22495 \else
22496 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22497 \setchapterpreamble{\bibpreamble}%
22498 \fi\fi
22499 \bib@heading
22500 \bib@beginhook
22501 \bib@before@hook
22502 \fi
22503 \renewcommand{\BreakBibliography}[1]{%
22504 \@bib@break
22505 \end{thebibliography}%
22506 \begingroup ##1\endgroup
22507 \begin{thebibliography}{#1}
22508 }%
22509 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22510 \bidi@thebibliography@font@hook%
22511 \list{%
22512 \@biblabel{\@arabic\c@enumiv}%
22513 }{%
22514 \settowidth\labelwidth{\@biblabel{#1}}%
22515 \leftmargin\labelwidth
22516 \advance\leftmargin\labelsep
22517 \@openbib@code
22518 \if@bib@break@
22519 \edef\@tempa{%
22520 \noexpand\usecounter{enumiv}%
22521 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22522 }\@tempa
22523 \no@bib@break
22524 \else
22525 \usecounter{enumiv}%
22526 \fi
22527 \let\p@enumiv\@empty
22528 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22529 }%

```



```

22530 \sloppy\clubpenalty4000 \widowpenalty4000
22531 \sfcode`\.\=@m
22532 }{%
22533 \if@bib@break@
22534 \def\@noitemerr{%
22535 \latex@warning{%
22536 \string\BreakBibliography\space at begin of `thebibliography'
22537 environment\MessageBreak
22538 or following \string\BreakBibliography}%
22539 }%
22540 \else
22541 \def\@noitemerr{%
22542 \latex@warning{%
22543 Empty `thebibliography' environment or
22544 \string\BreakBibliography\MessageBreak
22545 before end of `thebibliography' environment}%
22546 }%
22547 \fi
22548 \endlist
22549 \if@bib@break@
22550 \else
22551 \bib@after@hook
22552 \let\bib@before@hook\@empty
22553 \let\bib@after@hook\@empty
22554 \fi
22555 \bib@endhook
22556 }
22557 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22558 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22559 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22560 \renewcommand\marginline[1]{%
22561 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22562 }
22563 \renewcommand{\@makecaption}[3]{%
22564 \cap@margin
22565 \begingroup
22566 \ifonelinecaptions
22567 \def\stepcounter##1{\advance\value{##1}\@ne}%
22568 \let\refstepcounter\stepcounter
22569 \let\label\@gobble
22570 \let\@footnotetext=\@gobble
22571 \let\@LTRfootnotetext=\@gobble
22572 \let\@RTLfootnotetext=\@gobble
22573 \let\hypertarget\@gobbletwo
22574 \edef\@xnewline{%
22575 \unexpanded{\ClassInfo{\KOMAClassName}}{%
22576 Workaround for not recommended usage of \string\\ or\MessageBreak
22577 \string\newline in caption text
22578 }%
22579 \hspace*{\linewidth}\hspace{1sp}%
22580 }%
22581 \unexpanded\expandafter{\@xnewline}%
22582 }%
22583 \edef\@xcentercr{%

```



```

22584 \unexpanded{\ClassInfo{\KOMAClassName}{%
22585     Workaround for not recommended usage of \string\\ or\MessageBreak
22586     \string\newline in caption text
22587     }%
22588     \hspace*{\linewidth}\hspace{1sp}%
22589     }%
22590     \unexpanded\expandafter{\@xcentercr}%
22591     }%
22592     \settowidth{\@tempdima}{\scr@@makesinglelinecaption{#1}{#2}{#3}}%
22593     \ifdim\@tempdima>\cap@width
22594         \aftergroup\scr@makemultilinecaption
22595     \else
22596         \aftergroup\scr@makesinglelinecaption
22597     \fi
22598 \else
22599     \aftergroup\scr@makemultilinecaption
22600 \fi
22601 \endgroup
22602 {#1}{#2}{#3}%
22603 }
22604 \renewcommand{\scr@makesinglelinecaption}[3]{%
22605     {%
22606         \usefontofkomafont{caption}{%
22607             \hb@xt@{\hsize}{%
22608                 \cap@left
22609                 \if@RTL
22610                     \beginR
22611                     \fi
22612                     \scr@makesinglelinecaption{#1}{#2}{#3}%
22613                     \if@RTL
22614                         \endR
22615                     \fi
22616                     \cap@right
22617                 }\par\kern\dp\strutbox%
22618             }%
22619         }\kern-\dp\strutbox
22620     }
22621 \renewcommand{\@makecaption}[2]{%
22622     \if@captionabove
22623         \vskip\belowcaptionskip
22624     \else
22625         \vskip\abovecaptionskip
22626     \fi
22627     \@makecaption\@firstofone{#1}{#2}%
22628     \if@captionabove
22629         \vskip\abovecaptionskip
22630     \else
22631         \vskip\belowcaptionskip
22632     \fi
22633 }
22634
22635 \renewcommand{\scr@makesinglelinecaption}[3]{%
22636     {\usekomafont{caption}{\strut\ignorespaces
22637         #1{\usekomafont{captionlabel}{#2\captionformat}}}%

```




```

22638     \ignorespaces #3\unskip}}}%
22639 }
22640
22641 \renewcommand{\scr@makemultilinecaption}[3]{%
22642   {%
22643     \usefontofkomafont{caption}{%
22644       \hb@xt@{hsize}{%
22645         \cap@left
22646         \vbox{\hsize\cap@width\linewidth\hsize
22647           \scr@ifundefinedorrelax{@captype}{%
22648             \ClassWarning{\KOMAClassName}{%
22649               `string\caption' outside float.\MessageBreak
22650               Seems you are using `string\caption' outside a
22651               float.\MessageBreak
22652               Maybe you are using a package that uses
22653               `string\@makecaption'\MessageBreak
22654               without setting `string\@captype' before.\MessageBreak
22655               Because I cannot detect the caption type, I'm using\MessageBreak
22656               the empty one.%
22657             }%
22658             \let\@captype\@empty
22659           }{}%
22660           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22661             \@nameuse{ragged\@captype caption}%
22662           }%
22663           \ifdofullc@p
22664             \@hangfrom{%
22665               \strut
22666               \scr@smashdp{%
22667                 #1{%
22668                   \usekomafont{caption}{%
22669                     \usekomafont{captionlabel}{#2\captionformat}%
22670                   }%
22671                 }%
22672               }%
22673             }%
22674             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22675           \else
22676             \ifdim\cap@indent<\z@
22677               \strut
22678               #1{%
22679                 {\usekomafont{caption}{%
22680                   \usekomafont{captionlabel}{#2\captionformat}%
22681                 }%
22682               }\par}%
22683             \noindent{{\usekomafont{caption}{%
22684               \hspace*{-\cap@indent}#3\scr@endstrut
22685             }}\par}%
22686           \else
22687             \if@capbreak
22688               \strut
22689               #1{%
22690                 {\usekomafont{caption}{%
22691                   \usekomafont{captionlabel}{#2\captionformat}%

```



```

22692         }
22693     }\par}%
22694     \noindent\@hangfrom{\hspace*{\cap@indent}}%
22695     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22696 \else
22697     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22698     {%
22699         \hspace{-\cap@indent}%
22700         \scr@smashdp{%
22701             #1{\usekomafont{caption}{%
22702                 \usekomafont{captionlabel}{#2\captionformat}%
22703             }}%
22704         }%
22705     }%
22706     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22707 }%
22708 \fi
22709 \fi
22710 \fi
22711 }%
22712 \cap@right
22713 }\par\kern\dp\strutbox
22714 }%
22715 }\kern-\dp\strutbox
22716 }
22717
22718
22719 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22720 \if@komalongtable
22721     \renewcommand{\LT@makecaption}[3]{%
22722         \noalign{%
22723             \if@captionabove
22724                 \vskip\belowcaptionskip
22725             \else
22726                 \vskip\abovecaptionskip
22727             \fi
22728         }%
22729         \LT@mcol\LT@cols c{%
22730             \hbox to\z@{\hss\parbox[t]{\linewidth}{%
22731                 \def\@capytype{table}%
22732                 \@@makecaption{#1}{#2}{#3}%
22733                 \endgraf
22734                 \if@captionabove
22735                     \vskip\abovecaptionskip
22736                 \else
22737                     \vskip\belowcaptionskip
22738                 \fi
22739             }}%
22740             \hss
22741         }%
22742     }%
22743 }%
22744 \renewcommand*{\scr@LT@array}{}%
22745 \let\scr@LT@array=\LT@array

```



```

22746 \renewcommand*{\LT@array}{%
22747 \let\scr@caption=\LT@caption
22748 \def\captionabove{\noalign{\global\@captionabovetrue}%
22749 \scr@caption}%
22750 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22751 \scr@caption}%
22752 \if@tablecaptionabove
22753 \let\LT@caption=\captionabove
22754 \else
22755 \let\LT@caption=\captionbelow
22756 \fi
22757 \scr@LT@array
22758 }%
22759 \ClassInfo{\KOMAClassName}{%
22760 longtable captions redefined%
22761 }%
22762 \fi
22763 }
22764
22765 \CloneTOCEntryStyle{tocline}{part}
22766 \TOCEntryStyleStartInitCode{part}{%
22767 \expandafter\renewcommand%
22768 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22769 \expandafter\renewcommand%
22770 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22771 \expandafter\renewcommand%
22772 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22773 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22774 \expandafter\renewcommand\expandafter*%
22775 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22776 }
22777
22778 \CloneTOCEntryStyle{tocline}{chapter}
22779 \TOCEntryStyleStartInitCode{chapter}{%
22780 \expandafter\renewcommand%
22781 \csname scr@tso@#1@linefill\endcsname{%
22782 \if@chapterentrywithdots
22783 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22784 \else
22785 \hfill
22786 \fi
22787 }%
22788 \expandafter\renewcommand%
22789 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22790 \expandafter\renewcommand%
22791 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22792 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22793 \expandafter\renewcommand\expandafter*%
22794 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22795 }
22796
22797 \CloneTOCEntryStyle{tocline}{section}
22798 \TOCEntryStyleStartInitCode{section}{%
22799 \expandafter\renewcommand%

```



```

22800 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22801 \expandafter\renewcommand%
22802 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22803 {\normalfont\normalcolor ##1}}%
22804 }
22805
22806 \CloneTOCEntryStyle{section}{default}
22807
22808 \DeclareSectionCommand[%
22809 style=chapter,%
22810 level=\z@,%
22811 pagestyle=plain,%
22812 tocstyle=chapter,%
22813 tocindent=\z@,%
22814 tocnumwidth=1.5em%
22815 ]{chapter}
22816 \DeclareSectionCommand[%
22817 style=section,%
22818 level=1,%
22819 indent=\z@,%
22820 beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22821 afterskip=2.3ex \@plus .2ex,%
22822 tocstyle=section,%
22823 tocindentfollows=chapter,%
22824 tocindent=1.5em,%
22825 tocnumwidth=2.3em%
22826 ]{section}
22827 \DeclareSectionCommand[%
22828 style=part,%
22829 level=\m@ne,%
22830 pagestyle=plain,%
22831 tocstyle=part,%
22832 toplevel=\m@ne,%
22833 tocindent=\z@,%
22834 tocnumwidth=2em%
22835 ]{part}
22836 \DeclareSectionCommand[%
22837 style=section,%
22838 level=2,%
22839 indent=\z@,%
22840 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22841 afterskip=1.5ex \@plus .2ex,%
22842 tocstyle=section,%
22843 tocindent=3.8em,%
22844 tocnumwidth=3.2em%
22845 ]{subsection}
22846 \DeclareSectionCommand[%
22847 style=section,%
22848 level=3,%
22849 indent=\z@,%
22850 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22851 afterskip=1.5ex \@plus .2ex,%
22852 tocstyle=section,%
22853 tocindent=7.0em,%

```



```

22854   tocnumwidth=4.1em%
22855 ]{subsubsection}
22856 \DeclareSectionCommand[%
22857   style=section,%
22858   level=4,%
22859   indent=\z@,%
22860   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22861   afterskip=-1em,%
22862   tocindentfollows=subsubsection,%
22863   tocstyle=section,%
22864   tocindent=10em,%
22865   tocnumwidth=5em%
22866 ]{paragraph}
22867 \DeclareSectionCommand[%
22868   style=section,%
22869   level=5,%
22870   indent=\scr@parindent,%
22871   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22872   afterskip=-1em,%
22873   tocstyle=section,%
22874   tocindent=12em,%
22875   tocnumwidth=6em%
22876 ]{subparagraph}

```

142 File scrreprt-xetex-bidi.def

```

22877 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22878 \newcommand{\scr@saved@LTRfootnotetext}{}
22879 \newcommand{\scr@saved@RTLfootnotetext}{}
22880 \let\scr@saved@footnotetext\@footnotetext
22881 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22882 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22883 \renewcommand{\@footnotetext}[1]{%
22884   \scr@saved@footnotetext{#1}%
22885   \csname FN@mfb@prepare\endcsname
22886 }
22887 \renewcommand{\@LTRfootnotetext}[1]{%
22888   \scr@saved@LTRfootnotetext{#1}%
22889   \csname FN@mfb@prepare\endcsname
22890 }
22891 \renewcommand{\@RTLfootnotetext}[1]{%
22892   \scr@saved@RTLfootnotetext{#1}%
22893   \csname FN@mfb@prepare\endcsname
22894 }
22895 \renewcommand\deffootnote[4][1]{%
22896   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22897     \long\def\@makefntext##1{%
22898       \ExecuteDoHook{footnote/text/begin}%
22899       \raggedfootnote
22900       \if@RTL
22901         \rightskip
22902       \else
22903         \leftskip
22904       \fi

```



```

22905     #2
22906     \l@addto@macro\@trivlist{%
22907         \ifnum\@listdepth=\@one
22908             \if@RTL
22909                 \advance\rightmargin #2\relax
22910             \else
22911                 \advance\leftmargin #2\relax
22912             \fi
22913         \fi
22914     }%
22915     \parindent #3\noindent
22916     \IfArgIsEmpty{#1}{}%
22917         \hskip \dimexpr #1-#2\relax
22918     }%
22919     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22920     \ExecuteDoHook{footnote/text/end}%
22921 }%
22922 \else
22923     \ClassInfo{\KOMAClassName}{%
22924         Using old \string\@makefnmark\space due to compatibility
22925         level\MessageBreak
22926         less than 3.22}%
22927     \long\def\@makefnmark##1{%
22928         \setlength{\@tempdimc}{#3}%
22929         \def\@tempa{#1}\ifx\@tempa\@empty
22930             \setpar{\@par
22931                 \@tempdima = \hsize
22932                 \addtolength{\@tempdima}{-#2}%
22933                 \if@RTL
22934                     \parshape \@one \z@ \@tempdima
22935                 \else
22936                     \parshape \@one #2 \@tempdima
22937                 \fi
22938             }%
22939         \else
22940             \addtolength{\@tempdimc}{#2}%
22941             \addtolength{\@tempdimc}{-#1}%
22942             \setpar{\@par
22943                 \@tempdima = \hsize
22944                 \addtolength{\@tempdima}{-#1}%
22945                 \@tempdimb = \hsize
22946                 \addtolength{\@tempdimb}{-#2}%
22947                 \if@RTL
22948                     \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22949                 \else
22950                     \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22951                 \fi
22952             }%
22953         \fi
22954     \par
22955     \parindent\@tempdimc\noindent
22956     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22957 }%
22958 \fi

```



```

22959 \def\@@makefnmark{\hbox{\ftn@font{#4}}}%
22960 }
22961 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22962 \renewcommand*\left@footnoterule{%
22963   \normalsize\ftn@rule@test@values
22964   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
22965   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22966   {\usekomafont{footnoterule}{%
22967     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22968   \kern 2.6\p}
22969 \renewcommand*\right@footnoterule{%
22970   \normalsize\ftn@rule@test@values
22971   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
22972   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22973   {\usekomafont{footnoterule}{%
22974     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22975     \kern 2.6\p}
22976   \renewcommand*\maketitle[1][1]{%
22977     \expandafter\ifnum \c@name scr@v3.12\endcsname>\scr@compatibility\relax
22978     \else
22979       \def\and{%
22980         \end{tabular}%
22981         \hskip 1em \@plus.17fil%
22982         \begin{tabular}[t]{c}%
22983       }%
22984     \fi
22985     \if@titlepage
22986       \begin{titlepage}
22987         \setcounter{page}{%
22988           #1%
22989         }%
22990         \if@titlepageiscoverpage
22991           \edef\t@titlepage@restore{%
22992             \noexpand\endgroup
22993             \noexpand\global\noexpand\@colht\the\@colht
22994             \noexpand\global\noexpand\@colroom\the\@colroom
22995             \noexpand\global\vsizethe\vsizethe
22996             \noexpand\global\noexpand\@titlepageiscoverpagefalse
22997             \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
22998           }%
22999           \begin{group
23000             \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23001             \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23002             \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23003             \textwidth=\dimexpr
23004             \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23005             \textheight=\dimexpr
23006             \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23007             \headheight=0pt
23008             \headsep=0pt
23009             \footskip=\baselineskip
23010             \colht=\textheight
23011             \colroom=\textheight
23012             \vsizethe\textheight

```



```

23013         \columnwidth=\textwidth
23014         \hsize=\columnwidth
23015         \linewidth=\hsize
23016     \else
23017         \let\titlepage@restore\relax
23018     \fi
23019     \let\footnotesize\small
23020     \let\right@footnoterule\relax
23021     \let\left@footnoterule\relax
23022     \let\textwidth@footnoterule\relax
23023     \let\footnote\thanks
23024     \let\LTRfootnote\LTRthanks
23025     \let\RTLfootnote\RTLthanks
23026     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23027     \let\@oldmakefnmark\@makefnmark
23028     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23029     \ifx\@extratitle\@empty
23030         \ifx\@frontispiece\@empty
23031             \else
23032                 \if@twoside\mbox{}\next@tpage\fi
23033                 \noindent\@frontispiece\next@tdpage
23034             \fi
23035         \else
23036             \noindent\@extratitle
23037             \ifx\@frontispiece\@empty
23038                 \else
23039                     \next@tpage
23040                     \noindent\@frontispiece
23041                 \fi
23042                 \next@tdpage
23043             \fi
23044         \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
23045         \ifx\@titlehead\@empty \else
23046             \begin{minipage}[t]{\textwidth}%
23047                 \usekomafont{titlehead}{\@titlehead\par}%
23048             \end{minipage}\par
23049         \fi
23050         \null\vfill
23051         \begin{center}
23052             \ifx\@subject\@empty \else
23053                 {\usekomafont{subject}{\@subject\par}}%
23054                 \vskip 3em
23055             \fi
23056             {\usekomafont{title}{\huge \@title\par}}%
23057             \vskip 1em
23058             {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23059             \vskip 2em
23060             {%
23061                 \usekomafont{author}{%
23062                     \lineskip 0.75em
23063                     \begin{tabular}[t]{c}
23064                         \@author
23065                     \end{tabular}\par
23066                 }%

```




```

23067     }%
23068     \vskip 1.5em
23069     {\usekomafont{date}{\@date \par}}%
23070     \vskip \z@ \@plus3fill
23071     {\usekomafont{publishers}{\@publishers \par}}%
23072     \vskip 3em
23073     \end{center}\par
23074     \@thanks\global\let\@thanks\@empty
23075     \vfill\null
23076     \if@twoside
23077         \@tempswatrue
23078         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23079         \else
23080             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23081                 \@tempswafalse
23082             \fi\fi
23083         \fi
23084         \if@tempswa
23085             \next@tpage
23086             \begin{minipage}[t]{\textwidth}
23087                 \@uppertitleback
23088             \end{minipage}\par
23089             \vfill
23090             \begin{minipage}[b]{\textwidth}
23091                 \@lowertitleback
23092             \end{minipage}\par
23093             \@thanks\global\let\@thanks\@empty
23094         \fi
23095     \else
23096         \ifx\@uppertitleback\@empty\else
23097             \ClassWarning{\KOMAClassName}{%
23098                 non empty \string\uppertitleback\space ignored
23099                 by \string\maketitle\MessageBreak
23100                 in `twoside=false' mode%
23101             }%
23102         \fi
23103         \ifx\@lowertitleback\@empty\else
23104             \ClassWarning{\KOMAClassName}{%
23105                 non empty \string\lowertitleback\space ignored
23106                 by \string\maketitle\MessageBreak
23107                 in `twoside=false' mode%
23108             }%
23109         \fi
23110     \fi
23111     \ifx\@dedication\@empty
23112     \else
23113         \next@tdpage\null\vfill
23114         {\centering\usekomafont{dedication}{\@dedication \par}}%
23115         \vskip \z@ \@plus3fill
23116         \@thanks\global\let\@thanks\@empty
23117         \cleardoubleemptypage
23118     \fi
23119     \ifx\titlename@restore\relax\else\clearpage\titlename@restore\fi
23120 \end{titlepage}

```



```

23121 \else
23122   \par
23123   \@tempcnta=%
23124   #1%
23125   \relax\ifnum\@tempcnta=1\else
23126     \ClassWarning{\KOMAClassName}{%
23127       Optional argument of \string\maketitle\space ignored\MessageBreak
23128       in `titlepage=false' mode%
23129     }%
23130   \fi
23131   \ifx\@uppertitleback\@empty\else
23132     \ClassWarning{\KOMAClassName}{%
23133       non empty \string\uppertitleback\space ignored
23134       by \string\maketitle\MessageBreak
23135       in `titlepage=false' mode%
23136     }%
23137   \fi
23138   \ifx\@lowertitleback\@empty\else
23139     \ClassWarning{\KOMAClassName}{%
23140       non empty \string\lowertitleback\space ignored
23141       by \string\maketitle\MessageBreak
23142       in `titlepage=false' mode%
23143     }%
23144   \fi
23145   \begingroup
23146     \let\titlepage@restore\relax
23147     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23148     \let\@oldmakefnmark\@makefnmark
23149     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
23150     \next@tdpage
23151     \if@twocolumn
23152       \ifnum \col@number=\@one
23153         \ifx\@extratitle\@empty
23154           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23155         \else
23156           \@makeextratitle
23157         \fi
23158         \ifx\@frontispiece\@empty
23159           \ifx\@extratitle\@empty\else\next@tdpage\fi
23160         \else
23161           \next@tpage
23162           \@makefrontispiece
23163           \next@tdpage
23164         \fi
23165         \@maketitle
23166       \else
23167         \ifx\@extratitle\@empty
23168           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23169         \else
23170           \twocolumn[\@makeextratitle]%
23171         \fi
23172         \ifx\@frontispiece\@empty
23173           \ifx\@extratitle\@empty\else\next@tdpage\fi
23174         \else

```



```

23175         \next@tpage
23176         \twocolumn[\@makefrontispiece]%
23177         \next@tdpage
23178     \fi
23179     \twocolumn[\@maketitle]%
23180 \fi
23181 \else
23182     \ifx\@extratitle\@empty
23183     \ifx\@frontispiece\@empty\else \mbox{}\fi
23184 \else
23185     \@makeextratitle
23186 \fi
23187 \ifx\@frontispiece\@empty
23188     \ifx\@extratitle\@empty\else\next@tdpage\fi
23189 \else
23190     \next@tpage
23191     \@makefrontispiece
23192     \next@tdpage
23193 \fi
23194 \@maketitle
23195 \fi
23196 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23197 \@thanks\global\let\@thanks\@empty
23198 \endgroup
23199 \fi
23200 \setcounter{footnote}{0}%
23201 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23202     \let\thanks\relax
23203     \let\LTRthanks\relax
23204     \let\RTLthanks\relax
23205     \let\maketitle\relax
23206     \let\@maketitle\relax
23207     \global\let\@thanks\@empty
23208     \global\let\@author\@empty
23209     \global\let\@date\@empty
23210     \global\let\@title\@empty
23211     \global\let\@subtitle\@empty
23212     \global\let\@extratitle\@empty
23213     \global\let\@frontispiece\@empty
23214     \global\let\@titlehead\@empty
23215     \global\let\@subject\@empty
23216     \global\let\@publishers\@empty
23217     \global\let\@uppertitleback\@empty
23218     \global\let\@lowertitleback\@empty
23219     \global\let\@dedication\@empty
23220     \global\let\author\relax
23221     \global\let\title\relax
23222     \global\let\extratitle\relax
23223     \global\let\titlehead\relax
23224     \global\let\subject\relax
23225     \global\let\publishers\relax
23226     \global\let\uppertitleback\relax
23227     \global\let\lowertitleback\relax
23228     \global\let\dedication\relax

```



```

23229 \global\let\date\relax
23230 \fi
23231 \global\let\and\relax
23232 }%
23233 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23234 \renewcommand*\autodot{\if@altsecnumformat\SepMark\fi}
23235 \renewcommand*\thesection{%
23236 \thechapter\SepMark%
23237 \@arabic\c@section
23238 }
23239 \renewcommand*{\thesubsection}{\thesection\SepMark\@arabic\c@subsection}
23240 \renewcommand*{\thesubsubsection}{%
23241 \thesubsection\SepMark\@arabic\c@subsubsection
23242 }
23243 \renewcommand*{\theparagraph}{\thesubsubsection\SepMark\@arabic\c@paragraph}
23244 \renewcommand*{\thesubparagraph}{%
23245 \theparagraph\SepMark\@arabic\c@subparagraph
23246 }
23247 \expandafter\ifnum\scr@v@is@le{2.97d}%
23248 \renewcommand*\thefigure{\thechapter\SepMark\@arabic\c@figure}
23249 \fi
23250 \expandafter\ifnum\scr@v@is@le{2.97d}%
23251 \renewcommand*\thetable{\thechapter\SepMark\@arabic\c@table}
23252 \fi
23253 \renewcommand*\theequation{%
23254 \thechapter\SepMark%
23255 \@arabic\c@equation
23256 }
23257 \renewenvironment{thebibliography}[1]{%
23258 \if@bib@break@
23259 \bib@beginhook
23260 \else
23261 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23262 \setchapterpreamble{\bibpreamble}%
23263 \fi\fi
23264 \bib@heading
23265 \bib@beginhook
23266 \bib@before@hook
23267 \fi
23268 \renewcommand{\BreakBibliography}[1]{%
23269 \@bib@break
23270 \end{thebibliography}%
23271 \begingroup ##1\endgroup
23272 \begin{thebibliography}{#1}
23273 }%
23274 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23275 \bidi@thebibliography@font@hook%
23276 \list{%
23277 \@biblabel{\@arabic\c@enumiv}%
23278 }{%
23279 \settowidth\labelwidth{\@biblabel{#1}}%
23280 \leftmargin\labelwidth
23281 \advance\leftmargin\labelsep
23282 \@openbib@code

```



```

23283 \if@bib@break@
23284 \edef\@tempa{%
23285 \noexpand\usecounter{enumiv}%
23286 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23287 }\@tempa
23288 \no@bib@break
23289 \else
23290 \usecounter{enumiv}%
23291 \fi
23292 \let\p@enumiv\@empty
23293 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23294 }%
23295 \sloppy\clubpenalty4000 \widowpenalty4000
23296 \sfcode`\.\=@m
23297 }{%
23298 \if@bib@break@
23299 \def\@noitemerr{%
23300 \@latex@warning{%
23301 \string\BreakBibliography\space at begin of `thebibliography'
23302 environment\MessageBreak
23303 or following \string\BreakBibliography}%
23304 }%
23305 \else
23306 \def\@noitemerr{%
23307 \@latex@warning{%
23308 Empty `thebibliography' environment or
23309 \string\BreakBibliography\MessageBreak
23310 before end of `thebibliography' environment}%
23311 }%
23312 \fi
23313 \endlist
23314 \if@bib@break@
23315 \else
23316 \bib@after@hook
23317 \let\bib@before@hook\@empty
23318 \let\bib@after@hook\@empty
23319 \fi
23320 \bib@endhook
23321 }
23322 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
23323 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
23324 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
23325 \renewcommand\marginline[1]{%
23326 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23327 }
23328 \renewcommand{\@makecaption}[3]{%
23329 \cap@margin
23330 \begingroup
23331 \ifonelinecaptions
23332 \def\stepcounter##1{\advance\value{##1}\@ne}%
23333 \let\refstepcounter\stepcounter
23334 \let\label\@gobble
23335 \let\@footnotetext=\@gobble
23336 \let\@LTRfootnotetext=\@gobble

```



```

23337 \let\@RTLfootnotetext=\@gobble
23338 \let\hypertarget\@gobbletwo
23339 \edef\@xnewline{%
23340   \unexpanded{\ClassInfo{\KOMAClassName}{%
23341     Workaround for not recommended usage of \string\\ or\MessageBreak
23342     \string\newline in caption text
23343   }}%
23344   \hspace*{\linewidth}\hspace{1sp}%
23345 }%
23346 \unexpanded\expandafter{\@xnewline}%
23347 }%
23348 \edef\@xcentercr{%
23349   \unexpanded{\ClassInfo{\KOMAClassName}{%
23350     Workaround for not recommended usage of \string\\ or\MessageBreak
23351     \string\newline in caption text
23352   }}%
23353   \hspace*{\linewidth}\hspace{1sp}%
23354 }%
23355 \unexpanded\expandafter{\@xcentercr}%
23356 }%
23357 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23358 \ifdim\@tempdima>\cap@width
23359   \aftergroup\scr@makemultilinecaption
23360 \else
23361   \aftergroup\scr@makesinglelinecaption
23362 \fi
23363 \else
23364   \aftergroup\scr@makemultilinecaption
23365 \fi
23366 \endgroup
23367 {#1}{#2}{#3}%
23368 }
23369 \renewcommand{\scr@makesinglelinecaption}[3]{%
23370   {%
23371     \usefontofkomafont{caption}{%
23372       \hb@xt@{\hsize{%
23373         \cap@left
23374         \if@RTL
23375           \beginR
23376           \fi
23377         \scr@makesinglelinecaption{#1}{#2}{#3}%
23378         \if@RTL
23379           \endR
23380         \fi
23381         \cap@right
23382       }}\par\kern\dp\strutbox%
23383     }%
23384   }\kern-\dp\strutbox
23385 }
23386 \renewcommand{\@makecaption}[2]{%
23387   \if@captionabove
23388     \vskip\belowcaptionskip
23389   \else
23390     \vskip\abovecaptionskip

```



```

23391 \fi
23392 \@@makecaption\@firstofone{#1}{#2}%
23393 \if@captionabove
23394 \vskip\abovecaptionskip
23395 \else
23396 \vskip\belowcaptionskip
23397 \fi
23398 }
23399
23400 \renewcommand{\scr@makesinglelinecaption}[3]{%
23401   {\usekomafont{caption}{\strut\ignorespaces
23402     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23403     \ignorespaces #3\unskip}}%
23404 }
23405
23406 \renewcommand{\scr@makemultilinecaption}[3]{%
23407   {%
23408     \usefontofkomafont{caption}{%
23409       \hb@xt@\hsize{%
23410         \cap@left
23411         \vbox{\hsize\cap@width\linewidth\hsize
23412           \scr@ifundefinedorrelax{@captype}{%
23413             \ClassWarning{\KOMAClassName}{%
23414               '\string\caption' outside float.\MessageBreak
23415               Seems you are using '\string\caption' outside a
23416               float.\MessageBreak
23417               Maybe you are using a package that uses
23418               '\string\makecaption'\MessageBreak
23419               without setting '\string\@captype' before.\MessageBreak
23420               Because I cannot detect the caption type, I'm using\MessageBreak
23421               the empty one.%
23422             }%
23423             \let\@captype\@empty
23424           }{}%
23425           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
23426             \@nameuse{ragged\@captype caption}%
23427           }%
23428           \ifdofullc@p
23429             \@hangfrom{%
23430               \strut
23431               \scr@smashdp{%
23432                 #1{%
23433                   \usekomafont{caption}{%
23434                     \usekomafont{captionlabel}{#2\captionformat}%
23435                   }%
23436                 }%
23437               }%
23438             }%
23439             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23440           \else
23441             \ifdim\cap@indent<\z@
23442               \strut
23443               #1{%
23444                 {\usekomafont{caption}{%

```



```

23445         \usekomafont{captionlabel}{#2\captionformat}%
23446     }%
23447 } \par}%
23448 \noindent{\usekomafont{caption}{%
23449     \hspace*{-\cap@indent}#3\scr@endstrut
23450 }} \par}%
23451 \else
23452     \if@capbreak
23453         \strut
23454         #1{%
23455             {\usekomafont{caption}{%
23456                 \usekomafont{captionlabel}{#2\captionformat}%
23457             }} \par}%
23458         \noindent\@hangfrom{\hspace*{\cap@indent}}%
23459         {\usekomafont{caption}{#3\scr@endstrut}} \par}%
23460     \else
23461         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23462         {%
23463             \hspace{-\cap@indent}%
23464             \scr@smashdp{%
23465                 #1{\usekomafont{caption}{%
23466                     \usekomafont{captionlabel}{#2\captionformat}%
23467                 }}%
23468             }%
23469         }%
23470     }%
23471     {\usekomafont{caption}{#3\scr@endstrut}} \par}%
23472 }%
23473 \fi
23474 \fi
23475 \fi
23476 }%
23477 \cap@right
23478 } \par \kern\dp \strutbox
23479 }%
23480 } \kern-\dp \strutbox
23481 }
23482
23483
23484 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23485     \if@komalongtable
23486         \renewcommand{\LT@makecaption}[3]{%
23487             \noalign{%
23488                 \if@captionabove
23489                     \vskip\belowcaptionskip
23490                 \else
23491                     \vskip\abovecaptionskip
23492                 \fi
23493             }%
23494             \LT@mcol\LT@cols c{%
23495                 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
23496                     \def\@capytype{table}%
23497                     \@makecaption{#1}{#2}{#3}%
23498                     \endgraf

```




```

23499         \if@captionabove
23500             \vskip\abovecaptionskip
23501         \else
23502             \vskip\belowcaptionskip
23503         \fi
23504     }%
23505     \hss
23506 }%
23507 }%
23508 }%
23509 \renewcommand*{\scr@LT@array}{}%
23510 \let\scr@LT@array=\LT@array
23511 \renewcommand*{\LT@array}{%
23512     \let\scr@caption=\LT@caption
23513     \def\captionabove{\noalign{\global\@captionabovetrue}%
23514         \scr@caption}%
23515     \def\captionbelow{\noalign{\global\@captionabovefalse}%
23516         \scr@caption}%
23517     \if@tablecaptionabove
23518         \let\LT@caption=\captionabove
23519     \else
23520         \let\LT@caption=\captionbelow
23521     \fi
23522     \scr@LT@array
23523 }%
23524 \ClassInfo{\KOMAClassName}{%
23525     longtable captions redefined%
23526 }%
23527 \fi
23528 }
23529
23530 \CloneTOCEntryStyle{tocline}{part}
23531 \TOCEntryStyleStartInitCode{part}{%
23532     \expandafter\renewcommand%
23533     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23534     \expandafter\renewcommand%
23535     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23536     \expandafter\renewcommand%
23537     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23538         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23539     \expandafter\renewcommand\expandafter*%
23540     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23541 }
23542
23543 \CloneTOCEntryStyle{tocline}{chapter}
23544 \TOCEntryStyleStartInitCode{chapter}{%
23545     \expandafter\renewcommand%
23546     \csname scr@tso@#1@linefill\endcsname{%
23547         \if@chapterentrywithdots
23548             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23549         \else
23550             \hfill
23551         \fi
23552     }%

```



```

23553 \expandafter\renewcommand%
23554 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
23555 \expandafter\renewcommand%
23556 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23557   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23558 \expandafter\renewcommand\expandafter*%
23559 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23560 }
23561
23562 \CloneTOCEntryStyle{tocline}{section}
23563 \TOCEntryStyleStartInitCode{section}{%
23564   \expandafter\renewcommand%
23565   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23566   \expandafter\renewcommand%
23567   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23568     {\normalfont\normalcolor ##1}}}%
23569 }
23570
23571 \CloneTOCEntryStyle{section}{default}
23572
23573 \DeclareSectionCommand[%
23574   style=chapter,%
23575   level=\z@,%
23576   pagestyle=plain,%
23577   tocstyle=chapter,%
23578   tocindent=\z@,%
23579   tocnumwidth=1.5em%
23580 ]{chapter}
23581 \DeclareSectionCommand[%
23582   style=section,%
23583   level=1,%
23584   indent=\z@,%
23585   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23586   afterskip=2.3ex \@plus.2ex,%
23587   tocstyle=section,%
23588   tocindentfollows=chapter,%
23589   tocindent=1.5em,%
23590   tocnumwidth=2.3em%
23591 ]{section}
23592 \DeclareSectionCommand[%
23593   style=part,%
23594   level=\m@ne,%
23595   pagestyle=plain,%
23596   tocstyle=part,%
23597   toclevel=\m@ne,%
23598   tocindent=\z@,%
23599   tocnumwidth=2em%
23600 ]{part}
23601 \DeclareSectionCommand[%
23602   style=section,%
23603   level=2,%
23604   indent=\z@,%
23605   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23606   afterskip=1.5ex \@plus .2ex,%

```



```

23607   tocstyle=section,%
23608   tocindent=3.8em,%
23609   tocnumwidth=3.2em%
23610 ]{subsection}
23611 \DeclareSectionCommand[%
23612   style=section,%
23613   level=3,%
23614   indent=\z@,%
23615   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23616   afterskip=1.5ex \@plus .2ex,%
23617   tocstyle=section,%
23618   tocindent=7.0em,%
23619   tocnumwidth=4.1em%
23620 ]{subsubsection}
23621 \DeclareSectionCommand[%
23622   style=section,%
23623   level=4,%
23624   indent=\z@,%
23625   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
23626   afterskip=-1em,%
23627   tocindentfollows=subsubsection,%
23628   tocstyle=section,%
23629   tocindent=10em,%
23630   tocnumwidth=5em%
23631 ]{paragraph}
23632 \DeclareSectionCommand[%
23633   style=section,%
23634   level=5,%
23635   indent=\scr@parindent,%
23636   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
23637   afterskip=-1em,%
23638   tocstyle=section,%
23639   tocindent=12em,%
23640   tocnumwidth=6em%
23641 ]{subparagraph}

```

143 File `sidecap-xetex-bidi.def`

```

23642 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23643 \RequirePackage{ragged2e}
23644 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23645   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23646 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23647 \renewcommand*{\SC@justify@caption}{\if@RTL%
23648 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\else%
23649   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\fi}
23650
23651 \@ifpackagewith{sidecap}{innercaption}{%
23652 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23653   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}%
23654 \renewcommand*{\SC@justify@caption}{%
23655   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23656 \renewcommand*{\SC@FLOAT}[2]{%
23657   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}%

```



```

23658 \renewcommand*\SC@justify@caption{%
23659 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23660 }{}
23661
23662 \@ifpackagewith{sidecap}{rightcaption}{%
23663 \if@RTL\renewcommand*\SC@FLOAT}[2][{\#1}\hspace{\sidecaptionsep}{\#2}}
23664 \def\SC@justify@caption{\RaggedLeft}\else%
23665 \renewcommand*\SC@FLOAT}[2][{\#2}\hspace{\sidecaptionsep}{\#1}}
23666 \def\SC@justify@caption{\RaggedRight}\fi%
23667 }{}
23668
23669 \@ifpackagewith{sidecap}{leftcaption}{%
23670 \if@RTL \renewcommand*\SC@FLOAT}[2][{\#2}\hspace{\sidecaptionsep}{\#1}}
23671 \def\SC@justify@caption{\RaggedRight}\else%
23672 \renewcommand*\SC@FLOAT}[2][{\#1}\hspace{\sidecaptionsep}{\#2}}
23673 \def\SC@justify@caption{\RaggedLeft}\fi%
23674 }{}

```

144 File soul-xetex-bidi.def

```

23675 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeTeX]
23676 \long\def\SOUL@start#1{%
23677 \let\ bidi@RTL@everypar\@empty
23678 \let\<\SOUL@lowerthan
23679 \let\>\empty
23680 \def\soulomit{\noexpand\soulomit}%
23681 \gdef\SOUL@eventuallyexhyphen##1{%
23682 \let\SOUL@soeventuallyskip\relax
23683 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
23684 \@minus\fontdimen4\font
23685 \SOUL@ignorespacesfalse
23686 \leavevmode
23687 \SOUL@preamble
23688 \SOUL@lasttoken={}%
23689 \SOUL@word={}%
23690 \SOUL@minus\z@
23691 \SOUL@comma\z@
23692 \SOUL@apo\z@
23693 \SOUL@grave\z@
23694 \SOUL@do{\#1}%
23695 \SOUL@postamble
23696 }}
23697 \def\SOUL@ulunderline#1{%
23698 \setbox\z@\hbox{\#1}%
23699 \dimen@=\wd\z@
23700 \dimen@i=\SOUL@uloverlap
23701 \advance\dimen@2\dimen@i
23702 \if@RTL
23703 \unhcopy\z@
23704 \llap{%
23705 \null
23706 \kern-\dimen@i
23707 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23708 }%

```



```

23709 \else
23710 \rlap{%
23711 \null
23712 \kern-\dimen@i
23713 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23714 }%
23715 \unhcopy\z@
23716 \fi
23717 }}
23718 \def\ bidi@SOUL@ulleaders{%
23719 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\n
23720 }
23721 \def\SOUL@uleveryspace#1{%
23722 \if@RTL
23723 #1%
23724 \bidi@SOUL@ulleaders
23725 \hskip\spaceskip
23726 \else
23727 \SOUL@ulcolor{%
23728 #1%
23729 \SOUL@ulleaders
23730 \hskip\spaceskip
23731 }%
23732 \fi
23733 \null
23734 }

```

145 File stabular-xetex-bidi.def

```

23735 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23736 \def\@stabular{%
23737 \leavevmode \bgroup \if@RTLtab\beginR \fi
23738 \let\@acol\@tabacol
23739 \let\@classz\@tabclassz
23740 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23741 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23742 \egroup \if@RTLtab\endR\fi\egroup}
23743 \expandafter \let \csname endstabular*\endcsname = \endstabular
23744 \def\@sarray[#1]#2{%
23745 \bgroup
23746 \setbox\@arstrutbox\hbox{%
23747 \vrule \@height\arraystretch\ht\strutbox
23748 \@depth\arraystretch \dp\strutbox
23749 \@width\z@}%
23750 \@mkpream{#2}%
23751 \edef\@preamble{%
23752 \ialign \noexpand\@halignto
23753 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23754 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23755 \let\@tabularnewline\\
23756 \let\@sharp##%
23757 \set@typeset@protect
23758 \lineskip\z@skip\baselineskip\z@skip
23759 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi

```



```
23760 \@preamble}
```

146 File subfigure-xetex-bidi.def

```
23761 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23762 \AtBeginDocument{%
23763 \let\p@subfigure=\thefigure
23764 \let\p@subtable=\thetable%
23765 }
```

147 File tabs-xetex-bidi.def

```
23766 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23767 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23768
23769 \expandafter\let\csname endtabular*\endcsname=\endtabular
23770
23771 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23772 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23773 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23774
23775 \def\@array[#1]#2{% remember global variables to allow recursion:
23776 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23777 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23778 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23779 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23780 \else \let\@tarlinesep\tablinesep \fi
23781 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23782 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23783 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23784 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23785 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
23786 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23787 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23788 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23789 \let\protect\noexpand
23790 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23791 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23792 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23793 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23794 \bgroup \let\par\@empty
23795 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23796 \advance\extrarulesep.5\arrayrulewidth
23797 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23798 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23799 \@preamble}
```

148 File tabularx-xetex-bidi.def

```
23800 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
23801 \def\TX@endtabularx{%
23802 \expandafter\expandafter\expandafter
23803 \TX@find@endtabularxa\csname end\TX@\endcsname
23804 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
```



```

23805 \expandafter\TX@newcol\expandafter{\tabularxcolumn{TX@col@width}}}%
23806 \let\verb\TX@verb
23807 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23808 \edef\TX@ckpt{\cl@ckpt}%
23809 \let\@elt\relax
23810 \TX@old@table\maxdimen
23811 \TX@col@width\TX@target
23812 \global\TX@cols\@ne
23813 \TX@typeout@
23814 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23815 \TX@trial{\def\NC@rewriteX{%
23816 \global\advance\TX@cols\@ne\NC@find p{TX@col@width}}}%
23817 \loop
23818 \TX@arith
23819 \ifTX@
23820 \TX@trial}%
23821 \repeat
23822 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23823 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23824 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23825 \csname tabular*\expandafter\endcsname\expandafter\TX@target
23826 \the\toks@
23827 \csname endtabular*\endcsname}%
23828 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23829 \ifnum0={\fi}%
23830 \expandafter\expandafter\expandafter
23831 \TX@find@endtabularxbb
23832 \expandafter\end\expandafter{\TX@}%
23833 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23834 }
23835
23836 \def\TX@trial#1{%
23837 \setbox\@tempboxa\hbox{%
23838 #1\relax
23839 \let\@footnotetext\TX@trial@ftn
23840 \let\@LTRfootnotetext\TX@trial@ftn
23841 \let\@RTLfootnotetext\TX@trial@ftn
23842 \let\TX@vwarn\@empty
23843 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23844 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23845 \def\write{\begingroup
23846 \def\let{\afterassignment\endgroup\toks@}%
23847 \afterassignment\let\count@}%
23848 \hbadness\@M
23849 \hfuzz\maxdimen
23850 \let\hbadness\@tempcnta
23851 \let\hfuzz\@tempdima
23852 \expandafter\tabular\the\toks@
23853 \endtabular}%
23854 \TX@ckpt
23855 \TX@typeout@{\@spaces
23856 \expandafter\TX@align
23857 \the\wd\@tempboxa\space\space\space\space\space\@@
23858 \expandafter\TX@align

```



```

23859 \the\TX@col@width\space\space\space\space\space\space\@@
23860 \@spaces\the\TX@cols}}
23861
23862 \long\def\TX@LTrftntext#1{%
23863 \edef\@tempa{\the\TX@ftn\noexpand\LTrfootnotetext
23864 [\the\csname c@\mpfn\endcsname]}%
23865 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23866 \long\def\TX@xLTrftntext[#1]#2{%
23867 \global\TX@ftn\expandafter{\the\TX@ftn\LTrfootnotetext[#1]{#2}}}
23868
23869 \long\def\TX@RTLftntext#1{%
23870 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23871 [\the\csname c@\mpfn\endcsname]}%
23872 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23873 \long\def\TX@xRTLftntext[#1]#2{%
23874 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

```

23875 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23876 \def\@testpach{\@chclass
23877   \ifnum \@lastchclass=6 \one \@chnum \one \else
23878     \ifnum \@lastchclass=7 5 \else
23879       \ifnum \@lastchclass=8 \tw@ \else
23880         \ifnum \@lastchclass=9 \thr@@
23881           \else \z@
23882             \ifnum \@lastchclass = 10 \else
23883               \edef\@nextchar{\expandafter\string\@nextchar}%
23884               \@chnum
23885               \if \@nextchar c\z@ \else
23886                 \if \@nextchar \if@RTLtab r\else l\fi\@one \else
23887                   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
23888                     \if \@nextchar C7 \else
23889                       \if \@nextchar L8 \else
23890                         \if \@nextchar R9 \else
23891                           \if \@nextchar J10 \else
23892                             \z@ \@chclass
23893                             \if \@nextchar |\@one \else
23894                               \if \@nextchar !6 \else
23895                                 \if \@nextchar @7 \else
23896                                   \if \@nextchar <8 \else
23897                                     \if \@nextchar >9 \else
23898                                       10
23899                                       \@chnum
23900                                       \if \@nextchar m\thr@@\else
23901                                         \if \@nextchar p4 \else
23902                                           \if \@nextchar b5 \else
23903                                             \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
23904                                             \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

```
23905 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver
23906 \def\@cliptoboxdim#1{%
```



```

23907 \setbox#1=\hbox{%
23908 \Gin@defaultbp\WIDTH{\wd#1}%
23909 \Gin@defaultbp\DEPTH{\dp#1}%
23910 \@tempdima\ht#1%
23911 \advance\@tempdima\dp#1%
23912 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23913 \beginL\special{pdf:bcontent }%
23914 \special{%
23915 pdf:literal direct
23916 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23917 }%
23918 \special{pdf:literal direct W }%
23919 \special{pdf:literal direct n }%
23920 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23921 \special{pdf:econtent }\endL%
23922 }%
23923 }

```

151 File tcolorbox-xetex-bidi.def

```

23924 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
23925 \let\endtcbox@lrbox=\endminipage
23926 \let\endtcbox@savebox=\endtcbox@lrbox
23927
23928 \bidi@patchcmd{\tcb@vbox}{%
23929 \let\@footnotetext\@mpfootnotetext%
23930 }{%
23931 \let\@footnotetext\@mpfootnotetext%
23932 \let\@LTRfootnotetext\@mpLTRfootnotetext%
23933 \let\@RTLfootnotetext\@mpRTLfootnotetext%
23934 }{}{}
23935
23936 \bidi@patchcmd{\endtcbox@vbox}{%
23937 \footnoterule%
23938 }{%
23939 \bidi@mpfootnoterule%
23940 }{}{}
23941 \bidi@apptocmd\tcb@icolorbox{%
23942 \@bidi@list@minipage@parboxfalse
23943 }{}{}

```

152 File thmbox-xetex-bidi.def

```

23944 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
23945 \renewenvironment{thmbox}[2][{}]{%
23946 \parskip\z@%
23947 \setkeys{thmbox}{#1}%
23948 \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
23949 \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
23950 \string\thmbox, using M}%
23951 \let\thmbox@style=M%
23952 \fi\fi\fi%
23953 \thmbox@head{{#2}}\nobreak\relax%
23954 \thmbox@dim=\hspace%

```



```

23955 \advance\thmbox@dim-\leftskip%
23956 \advance\thmbox@dim-\rightskip%
23957 \setbox\thmbox@box=\vbox\bgroup%
23958   \if@RTL
23959     \hboxRconstructtrue
23960   \fi
23961   \hsize=\thmbox@dim%
23962   \advance\hsize -\thmbox@leftmargin%
23963   \advance\hsize -\thmbox@rightmargin%
23964   \textwidth=\hsize%
23965   \linewidth=\hsize%
23966   \vskip\thmbox@vskip%
23967   \begingroup}{\endgroup%
23968   \vskip\thmbox@vskip%
23969 \egroup%
23970 \thmbox@start%
23971 \ifx\thmbox@style S\else\thmbox@tail\fi%
23972 \@endparenv}

```

153 File titlesec-xetex-bidi.def

```

23973 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
23974 \renewcommand\filright{%
23975   \gdef\ttl@filleft##1{\hskip##1}%
23976   \gdef\ttl@filright##1{\hfill}%
23977   \let\\@centercr
23978   \advance\rightskip\z@ \@plus 1fil
23979 \parfillskip\z@}
23980 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
23981   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
23982   \setlength\leftskip{#6}%
23983   \setlength\rightskip{#7}%
23984   \interlinepenalty\@M
23985   \ttl@changeparcr
23986   \ttl@beginlongest
23987   #1{\ifhmode\ttl@hmode@error\fi
23988     \ttl@glcmds
23989     \parindent\z@
23990     \leavevmode
23991     \begingroup
23992       \ifttl@label
23993         \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
23994         \if@RTL\advance\rightskip\wd\z@ \else\advance\leftskip\wd\z@\fi
23995         \llap{\box\z@}%
23996       \fi
23997       #4{#8}%
23998       \kern\z@\strut\@par
23999     \endgroup
24000     \nobreak\ttl@midlongest#5\@par}%
24001 \ttl@endlongest}

```

154 File titletoc-xetex-bidi.def

```

24002 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]

```



```

24003 \renewcommand\filright{%
24004   \gdef\ttl@filleft##1{\hskip##1}%
24005   \gdef\ttl@filright##1{\hfill}%
24006   \let\\\@centercr
24007   \advance\rightskip\z@ \@plus 1fil
24008 \parfillskip\z@}
24009 \renewcommand\contentspush[1]{%
24010   \sbox\z@{#1}%
24011   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
24012   \aftergroup\ttl@b
24013   \leavevmode\llap{\box\z@}}
24014 \def\ttl@outnoblock#1#2#3{%
24015   \begingroup
24016   \ifnum\ttl@b>\ttl@a
24017     \nobreak
24018   \else\ifnum\ttl@b<\ttl@a
24019     \addpenalty{\@secpenalty}%
24020   \else
24021     \addpenalty{\z@}%
24022   \fi\fi
24023   \ttl@contentsstretch
24024   \nobreak
24025   \ifcase#1\relax\else\interlinepenalty\M\fi
24026   \parindent\z@
24027   \ifx\@nil#2%
24028     \PackageError{titletoc}{Unimplemented}%
24029     {The optional argument is currently mandatory}%
24030   \else
24031     \if@RTL\setlength\rightskip{#2}\else
24032     \setlength\leftskip{#2}\fi%
24033   \fi
24034   \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24035   \let\contentsmargin\ttl@margin
24036   \def\ttl@makeline##1{##1}%
24037   #3%
24038   \addtolength{\parfillskip}{-\ttl@corr}%
24039   \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24040   \let\ttl@leaders\leaders}
24041 \renewcommand\ttl@margin[2][\z@]{%
24042   \def\ttl@corr{#1}%
24043   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24044   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24045   \def\@pnumwidth{#2}}
24046 \let\ttl@savel@part\l@part
24047 \def\l@part{\ttl@lselect{part}}
24048
24049 \let\ttl@savel@chapter\l@chapter
24050 \def\l@chapter{\ttl@lselect{chapter}}

```

155 File tocbibbind-xetex-bidi.def

```

24051 \ProvidesFile{tocbibbind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24052 \IfClassLoadedT{memoir}{\endinput}
24053 \if@dotocbib

```



```

24054 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24055   \renewcommand{\bibsection}{\t@cb@bchapsec}
24056   \renewenvironment{thebibliography}[1]{%
24057     \bibsection
24058     \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
24059 \renewenvironment{thebibitemlist}[1]{
24060   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
24061   \bidi@thebibliography@font@hook%
24062   \list{\@biblabel{\@arabic{c@enumiv}}}%
24063     {\settoheight\labelwidth{\@biblabel{#1}}%
24064     \leftmargin\labelwidth
24065     \advance\leftmargin\labelsep
24066     \@openbib@code
24067     \usecounter{enumiv}%
24068     \let\p@enumiv\@empty
24069     \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
24070   \sloppy
24071   \clubpenalty4000
24072   \@clubpenalty \clubpenalty
24073   \widowpenalty4000%
24074   \sfcode`.\@m}
24075   {\def\@noitemerr
24076     {\@latex@warning{Empty `thebibliography' environment}}}%
24077   \endlist}
24078
24079 \ApplyPatchCodeToPackage{chapterbib}{%
24080   \@ifpackagewith{chapterbib}{sectionbib}%
24081     {\renewcommand{\sectionbib}[2]{}}%
24082     {}%
24083 }
24084
24085 \fi
24086 \if@inltxdoc\else
24087   \renewenvironment{theindex}%
24088     {\if@twocolumn
24089       \@restonecolfalse
24090       \else
24091         \@restonecoltrue
24092       \fi
24093     \if@bibchapter
24094       \if@donumindex
24095         \refstepcounter{chapter}
24096         \twocolumn[\vspace*{2\topskip}%
24097           \@makechapterhead{\indexname}}%
24098         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24099         \chaptermark{\indexname}
24100       \else
24101         \if@dotocind
24102           \twocolumn[\vspace*{2\topskip}%
24103             \@makeschapterhead{\indexname}}%
24104           \prw@mkboth{\indexname}
24105           \addcontentsline{toc}{chapter}{\indexname}
24106         \else
24107           \twocolumn[\vspace*{2\topskip}%

```



```

24108             \@makeschapterhead{\indexname}}%
24109             \prw@mkboth{\indexname}
24110         \fi
24111     \fi
24112 \else
24113     \if@donumindex
24114         \twocolumn[\vspace*{-1.5\topskip}%
24115             \@nameuse{\@tocextra}{\indexname}}%
24116         \csname \@tocextra mark\endcsname{\indexname}
24117     \else
24118         \if@dotocind
24119             \twocolumn[\vspace*{-1.5\topskip}%
24120                 \toc@headstar{\@tocextra}{\indexname}}%
24121             \prw@mkboth{\indexname}
24122             \addcontentsline{toc}{\@tocextra}{\indexname}
24123         \else
24124             \twocolumn[\vspace*{-1.5\topskip}%
24125                 \toc@headstar{\@tocextra}{\indexname}}%
24126             \prw@mkboth{\indexname}
24127         \fi
24128     \fi
24129 \fi
24130 \thispagestyle{plain}\parindent\z@
24131 \parskip\z@ \@plus .3\p@\relax
24132 \let\item\@idxitem}
24133 {\if@restonecol\onecolumn\else\clearpage\fi}
24134 \fi

```

156 File tocloft-xetex-bidi.def

```

24135 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24136 \IfClassLoadedT{memoir}{\endinput}
24137 \renewcommand{\cftpnualign}{\if@RTL l\else r\fi}
24138 \let\cftdot\@SepMark
24139 \if@cfthaspart
24140 \renewcommand*{\l@part}[2]{
24141     \@cftdopartfalse
24142     \ifnum \c@tocdepth >-2\relax
24143         \if@cfthaschapter
24144             \@cftdoparttrue
24145         \fi
24146         \ifnum \c@tocdepth >\m@ne
24147             \if@cfthaschapter\else
24148                 \@cftdoparttrue
24149             \fi
24150         \fi
24151     \fi
24152 \if@cftdopart
24153     \if@cfthaschapter
24154         \addpenalty{-\@highpenalty}
24155     \else
24156         \addpenalty\@secpenalty
24157     \fi
24158     \addvspace{\cftbeforepartskip}

```



```

24159 \begingroup
24160 {\if@RTL\righskip\else\leftskip\fi \cftpartindent\relax
24161 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24162 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24163 \parindent \cftpartindent\relax\@afterindenttrue
24164 \interlinepenalty\@M
24165 \leavevmode
24166 \@tempdima \cftpartnumwidth\relax
24167 \let\@cftbsnum \cftpartpresnum
24168 \let\@cftasnum \cftpartaftersnum
24169 \let\@cftasnumb \cftpartaftersnumb
24170 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24171 {\cftpartfont \cftpartpresnum #1}
24172 \cftpartfillnum{#2}}
24173 \nobreak
24174 \if@cfthaschapter
24175 \global\@nobreaktrue
24176 \everypar{\global\@nobreakfalse\everypar{}}
24177 \else
24178 \if@compatibility
24179 \global\@nobreaktrue
24180 \everypar{\global\@nobreakfalse\everypar{}}
24181 \fi
24182 \fi
24183 \endgroup
24184 \fi}
24185 \fi
24186 \if@cfthaschapter
24187 \renewcommand*{\l@chapter}[2]{
24188 \ifnum \c@tocdepth >\m@ne
24189 \addpenalty{-\@highpenalty}
24190 \vskip \cftbeforechapskip
24191 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24192 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24193 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24194 \parindent \cftchapindent\relax\@afterindenttrue
24195 \interlinepenalty\@M
24196 \leavevmode
24197 \@tempdima \cftchapnumwidth\relax
24198 \let\@cftbsnum \cftchappresnum
24199 \let\@cftasnum \cftchapaftersnum
24200 \let\@cftasnumb \cftchapaftersnumb
24201 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24202 {\cftchapfont #1}\nobreak
24203 \cftchapfillnum{#2}}
24204 \fi}
24205 \fi
24206 \renewcommand*{\l@section}[2]{%
24207 \ifnum \c@tocdepth >\z@
24208 \if@cfthaschapter
24209 \vskip \cftbeforesecskip
24210 \else
24211 \addpenalty\@secpenalty
24212 \addvspace{\cftbeforesecskip}

```



```

24213 \fi
24214 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
24215 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24216 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24217 \parindent \cftsecindent\relax\@afterindenttrue
24218 \interlinepenalty\@M
24219 \leavevmode
24220 \@tempdima \cftsecnumwidth\relax
24221 \let\@cftbsnum \cftsecpresnum
24222 \let\@cftasnum \cftsecaftersnum
24223 \let\@cftasnumb \cftsecaftersnumb
24224 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24225 {\cftsecfont #1}\nobreak
24226 \cftsecfillnum{#2}}
24227 \fi}
24228 \renewcommand*{\l@section}[2]{%
24229 \ifnum \c@tocdepth >\@ne
24230 \vskip \cftbeforesubsecskip
24231 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
24232 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24233 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24234 \parindent \cftsubsecindent\relax\@afterindenttrue
24235 \interlinepenalty\@M
24236 \leavevmode
24237 \@tempdima \cftsubsecnumwidth\relax
24238 \let\@cftbsnum \cftsubsecpresnum
24239 \let\@cftasnum \cftsubsecaftersnum
24240 \let\@cftasnumb \cftsubsecaftersnumb
24241 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24242 {\cftsubsecfont #1}\nobreak
24243 \cftsubsecfillnum{#2}}
24244 \fi}
24245 \renewcommand*{\l@subsubsection}[2]{%
24246 \ifnum \c@tocdepth >\tw@
24247 \vskip \cftbeforesubsubsecskip
24248 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
24249 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24250 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24251 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24252 \interlinepenalty\@M
24253 \leavevmode
24254 \@tempdima \cftsubsubsecnumwidth\relax
24255 \let\@cftbsnum \cftsubsubsecpresnum
24256 \let\@cftasnum \cftsubsubsecaftersnum
24257 \let\@cftasnumb \cftsubsubsecaftersnumb
24258 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24259 {\cftsubsubsecfont #1}\nobreak
24260 \cftsubsubsecfillnum{#2}}
24261 \fi}
24262 \renewcommand*{\l@paragraph}[2]{%
24263 \ifnum \c@tocdepth >3\relax
24264 \vskip \cftbeforeparaskip
24265 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
24266 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg

```



```

24267 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24268 \parindent \cftparaindent\relax\@afterindenttrue
24269 \interlinepenalty\@M
24270 \leavevmode
24271 \@tempdima \cftparanumwidth\relax
24272 \let\@cftbsnum \cftparapresnum
24273 \let\@cftasnum \cftparaaftersnum
24274 \let\@cftasnumb \cftparaaftersnumb
24275 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24276 {\cftparafont #1}\nobreak
24277 \cftparafillnum{#2}}
24278 \fi}
24279 \renewcommand*\l@subparagraph}[2]{%
24280 \ifnum \c@tocdepth >4\relax
24281 \vskip \cftbeforesubparaskip
24282 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
24283 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24284 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24285 \parindent \cftsubparaindent\relax\@afterindenttrue
24286 \interlinepenalty\@M
24287 \leavevmode
24288 \@tempdima \cftsubparanumwidth\relax
24289 \let\@cftbsnum \cftsubparapresnum
24290 \let\@cftasnum \cftsubparaaftersnum
24291 \let\@cftasnumb \cftsubparaaftersnumb
24292 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24293 {\cftsubparafont #1}\nobreak
24294 \cftsubparafillnum{#2}}
24295 \fi}
24296 \renewcommand*\l@figure}[2]{%
24297 \ifnum \c@lofdepth >\z@
24298 \vskip \cftbeforefigskip
24299 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
24300 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24301 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24302 \parindent \cftfigindent\relax\@afterindenttrue
24303 \interlinepenalty\@M
24304 \leavevmode
24305 \@tempdima \cftfignumwidth\relax
24306 \let\@cftbsnum \cftfigpresnum
24307 \let\@cftasnum \cftfigaftersnum
24308 \let\@cftasnumb \cftfigaftersnumb
24309 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24310 {\cftfigfont #1}\nobreak
24311 \cftfigfillnum{#2}}
24312 \fi
24313 }
24314 \renewcommand*\l@table}[2]{%
24315 \ifnum\c@lotdepth >\z@
24316 \vskip \cftbeforetabskip
24317 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24318 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24319 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24320 \parindent \cfttabindent\relax\@afterindenttrue

```




```

24321 \interlinepenalty\@M
24322 \leavevmode
24323 \@tempdima \cfttabnumwidth\relax
24324 \let\@cftbsnum \cfttabpresnum
24325 \let\@cftasnum \cfttabaftersnum
24326 \let\@cftasnumb \cfttabaftersnumb
24327 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24328 {\cfttabfont #1}\nobreak
24329 \cfttabfillnum{#2}}
24330 \fi
24331 }
24332 \renewcommand{\@cftl@subfig}{
24333 \renewcommand*{\l@subfigure}[2]{%
24334 \ifnum \c@lofdepth > \toclevel@subfigure
24335 \vskip \cftbeforesubfigskip
24336 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24337 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24338 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24339 \parindent \cftsubfigindent\relax\@afterindenttrue
24340 \interlinepenalty\@M
24341 \leavevmode
24342 \@tempdima \cftsubfignumwidth\relax
24343 \let\@cftbsnum \cftsubfigpresnum
24344 \let\@cftasnum \cftsubfigaftersnum
24345 \let\@cftasnumb \cftsubfigaftersnumb
24346 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24347 {\cftsubfigfont ##1}\nobreak
24348 \cftsubfigfillnum{##2}}
24349 \fi
24350 }
24351 }
24352 \renewcommand{\@cftl@subtab}{
24353 \renewcommand*{\l@subtable}[2]{%
24354 \ifnum \c@lotdepth > \toclevel@subtable
24355 \vskip \cftbeforesubtabskip
24356 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24357 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24358 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24359 \parindent \cftsubtabindent\relax\@afterindenttrue
24360 \interlinepenalty\@M
24361 \leavevmode
24362 \@tempdima \cftsubtabnumwidth\relax
24363 \let\@cftbsnum \cftsubtabpresnum
24364 \let\@cftasnum \cftsubtabaftersnum
24365 \let\@cftasnumb \cftsubtabaftersnumb
24366 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24367 {\cftsubtabfont ##1}\nobreak
24368 \cftsubtabfillnum{##2}}
24369 \fi
24370 }
24371 }
24372 \renewcommand{\newlistentry}[4][\@empty]{%
24373 \@ifundefined{c@#2}{% check & set the counter
24374 \ifx \@empty#1\relax

```



```

24375     \newcounter{#2}
24376   \else
24377     \ifundefined{c@#1}{\PackageWarning{tocloft}%
24378       {#1 has no counter for use as a `within'}
24379       \newcounter{#2}}%
24380     {\newcounter{#2}[#1]%
24381       \expandafter\edef\csname the#2\endcsname{%
24382         \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
24383   \fi
24384   \setcounter{#2}{0}
24385 }
24386 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24387
24388 \@namedef{l@#2}##1##2{%
24389   \ifnum \@nameuse{c@#3depth} > #4\relax
24390     \vskip \@nameuse{cftbefore#2skip}
24391     {\ifRTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24392     \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
24393     \parfillskip -\ifRTL\leftskip\else\rightskip\fi
24394     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24395     \interlinepenalty\@M
24396     \leavevmode
24397     \@tempdima \@nameuse{cft#2numwidth}\relax
24398     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24399     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24400     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24401     \advance\ifRTL\rightskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\ifRTL\right
24402     {\@nameuse{cft#2font}##1}\nobreak
24403     \@nameuse{cft#2fillnum}{##2}}
24404   \fi
24405 } % end of l@#2
24406
24407 \expandafter\newlength\csname cftbefore#2skip\endcsname
24408 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}
24409 \expandafter\newlength\csname cft#2indent\endcsname
24410 \expandafter\newlength\csname cft#2numwidth\endcsname
24411 \ifcase #4\relax % 0
24412   \setlength{\@nameuse{cft#2indent}}{0em}
24413   \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24414 \or % 1
24415   \setlength{\@nameuse{cft#2indent}}{1.5em}
24416   \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24417 \or % 2
24418   \setlength{\@nameuse{cft#2indent}}{3.8em}
24419   \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24420 \or % 3
24421   \setlength{\@nameuse{cft#2indent}}{7.0em}
24422   \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24423 \else % anything else
24424   \setlength{\@nameuse{cft#2indent}}{10.0em}
24425   \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24426 \fi
24427 \@namedef{cft#2font}{\normalfont}
24428 \@namedef{cft#2presnum}{}

```



```

24429 \@namedef{cft#2aftersnum}{%
24430 \@namedef{cft#2aftersnumb}{%
24431 \@namedef{cft#2dotsep}{\cftdotsep}
24432 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}%
24433 \@namedef{cft#2pagefont}{\normalfont}
24434 \@namedef{cft#2afterpnum}{%
24435 \@namedef{toclevel@#2}{#4}
24436 \@namedef{cft#2fillnum}##1{%
24437   {\@nameuse{cft#2leader}}\nobreak
24438   \hb@xt@{\pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24439 } % end \newlistentry
24440 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24441   {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24442   \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24443   \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
24444   \textit{#1}\protect\par}}}%

```

157 File tocbasic-xetex-bidi.def

```

24445 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24446 \bidi@undef\scr@dte@def@l@undottedtoctline
24447 \bidi@undef\scr@dte@undottedtoctline@init
24448 \DeclareTOCEntryStyle{undottedtoctline}[{%
24449   \DefineTOCEntryLengthOption{indent}%
24450   {scr@tso@}{@indent}{entry indent}%
24451   \DefineTOCEntryLengthOption{numwidth}%
24452   {scr@tso@}{@numwidth}{entry number width}%
24453   \@ifundefined{#1tocdepth}{%
24454     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24455       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24456         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24457           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24458             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24459               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24460                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24461                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24462                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24463                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
24464                       \csname #1numdepth\endcsname
24465                     }%
24466                   }%
24467                 }%
24468               }%
24469             }%
24470           }%
24471         }%
24472       }%
24473     }%
24474   }{}%
24475   \@ifundefined{scr@tso@#1@indent}{%
24476     \@ifundefined{scr@#1@tocindent}{%
24477       \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24478         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24479         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%

```



```

24480 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24481 \scr@ifundefinedorrelax{1@chapter}{%
24482 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24483 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24484 \Ifstr{#1}{subsubsection}{%
24485 \@namedef{scr@tso@#1@indent}{3.8em}%
24486 }{%
24487 \Ifstr{#1}{paragraph}{%
24488 \@namedef{scr@tso@#1@indent}{7em}%
24489 }{%
24490 \Ifstr{#1}{subparagraph}{%
24491 \@namedef{scr@tso@#1@indent}{10em}%
24492 }{%
24493 }%
24494 }%
24495 }%
24496 }%
24497 }%
24498 }{%
24499 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24500 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24501 \Ifstr{#1}{subsubsection}{%
24502 \@namedef{scr@tso@#1@indent}{7.0em}%
24503 }{%
24504 \Ifstr{#1}{paragraph}{%
24505 \@namedef{scr@tso@#1@indent}{10em}%
24506 }{%
24507 \Ifstr{#1}{subparagraph}{%
24508 \@namedef{scr@tso@#1@indent}{12em}%
24509 }{%
24510 }%
24511 }%
24512 }%
24513 }%
24514 }%
24515 }%
24516 }%
24517 }%
24518 }%
24519 }%
24520 }{%
24521 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24522 }%
24523 }{}%
24524 \@ifundefined{scr@tso@#1@numwidth}{%
24525 \@ifundefined{scr@#1@tocnumwidth}{%
24526 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24527 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24528 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24529 \scr@ifundefinedorrelax{chapter}{%
24530 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24531 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24532 \Ifstr{#1}{subsubsection}{%
24533 \@namedef{scr@tso@#1@numwidth}{3.2em}%

```



```

24534 }{%
24535 \Ifstr{#1}{paragraph}{%
24536 \@namedef{scr@tso@#1@numwidth}{4.1em}%
24537 }{%
24538 \Ifstr{#1}{subparagraph}{%
24539 \@namedef{scr@tso@#1@numwidth}{5em}%
24540 }{%
24541 }%
24542 }%
24543 }%
24544 }%
24545 }%
24546 }{%
24547 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24548 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24549 \Ifstr{#1}{subsubsection}{%
24550 \@namedef{scr@tso@#1@numwidth}{3.1em}%
24551 }{%
24552 \Ifstr{#1}{paragraph}{%
24553 \@namedef{scr@tso@#1@numwidth}{5em}%
24554 }{%
24555 \Ifstr{#1}{subparagraph}{%
24556 \@namedef{scr@tso@#1@numwidth}{6em}%
24557 }{%
24558 }%
24559 }%
24560 }%
24561 }%
24562 }%
24563 }%
24564 }%
24565 }%
24566 }%
24567 }{%
24568 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24569 }%
24570 }{}%
24571 }]{%
24572 \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
24573 \ifnum \@nameuse{#1tocdepth} < \@ne
24574 \scr@ifundefinedorrelax{chapter}{%
24575 \addpenalty\@secpenalty
24576 \addvspace{1.0em \@plus\p@}%
24577 }{%
24578 \addpenalty{-\@highpenalty}%
24579 \vskip 1.0em \@plus\p@
24580 }%
24581 \else
24582 \addpenalty\@secpenalty
24583 \addvspace{1.0em \@plus\p@}%
24584 \fi
24585 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24586 \begingroup
24587 \parindent \z@ \bidi@rightskip \@pnumwidth

```



```

24588 \parfillskip -\@pnumwidth
24589 \leavevmode
24590 \bfseries
24591 \advance\bidil@leftskip\@tempdima
24592 \Iftocfeature{\@currentx}{noindent}{%
24593 \hskip -\bidil@leftskip
24594 }{%
24595 \advance\bidil@leftskip\@nameuse{scr@tso@#1@indent}%
24596 \hskip -\dimexpr \bidil@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24597 }%
24598 ##1%
24599 \nobreak
24600 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24601 \par
24602 \penalty\@highpenalty
24603 \endgroup
24604 \fi
24605 }
24606
24607 \bidi@undef\scr@dte@def@l@largetocline
24608 \bidi@undef\scr@dte@largetocline@init
24609 \DeclareTOCEntryStyle{largetocline}[{%
24610 \DefineTOCEntryLengthOption{indent}%
24611 {scr@tso@}{\@indent}{entry indent}%
24612 \@ifundefined{#1tocdepth}{%
24613 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24614 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24615 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24616 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24617 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24618 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24619 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24620 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24621 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24622 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24623 \csname #1numdepth\endcsname
24624 }%
24625 }%
24626 }%
24627 }%
24628 }%
24629 }%
24630 }%
24631 }%
24632 }%
24633 }{%}%
24634 \@ifundefined{scr@tso@#1@indent}{%
24635 \ifundefined{scr@#1@tocindent}{%
24636 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24637 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24638 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24639 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24640 \scr@ifundefinedorrelax{l@chapter}{%
24641 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%

```



```

24642 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24643 \Ifstr{#1}{subsubsection}{%
24644 \@namedef{scr@tso@#1@indent}{3.8em}%
24645 }{%
24646 \Ifstr{#1}{paragraph}{%
24647 \@namedef{scr@tso@#1@indent}{7em}%
24648 }{%
24649 \Ifstr{#1}{subparagraph}{%
24650 \@namedef{scr@tso@#1@indent}{10em}%
24651 }{%
24652 }%
24653 }%
24654 }%
24655 }%
24656 }%
24657 }{%
24658 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24659 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24660 \Ifstr{#1}{subsubsection}{%
24661 \@namedef{scr@tso@#1@indent}{7.0em}%
24662 }{%
24663 \Ifstr{#1}{paragraph}{%
24664 \@namedef{scr@tso@#1@indent}{10em}%
24665 }{%
24666 \Ifstr{#1}{subparagraph}{%
24667 \@namedef{scr@tso@#1@indent}{12em}%
24668 }{%
24669 }%
24670 }%
24671 }%
24672 }%
24673 }%
24674 }%
24675 }%
24676 }%
24677 }%
24678 }%
24679 }{%
24680 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24681 }%
24682 }{%}%
24683 }]{%
24684 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24685 \ifnum \@nameuse{#1tocdepth}<\@ne
24686 \scr@ifundefinedorrelax{chapter}{%
24687 \addpenalty\@secpenalty
24688 \addvspace{2.25em \@plus\p@}%
24689 }{%
24690 \addpenalty{-\@highpenalty}%
24691 \addvspace{2.25em \@plus\p@}%
24692 }%
24693 \else
24694 \addpenalty\@secpenalty
24695 \addvspace{2.25em \@plus\p@}%

```



```

24696 \fi
24697 \setlength\@tempdima{3em}%
24698 \beginngroup
24699 \parindent \z@ \bidi@rightskip \@pnumwidth
24700 \parfillskip -\@pnumwidth
24701 \leavevmode
24702 \large
24703 \bfseries
24704 \IfTocfeature{\@currentt}{noindent}{%
24705 }{%
24706 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24707 }%
24708 ##1%
24709 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24710 \par
24711 \nobreak
24712 \ifnum 0=
24713 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24714 \global\@nobreaktrue
24715 \everypar{\global\@nobreakfalse\everypar{}}%
24716 \fi
24717 \endgroup
24718 \fi
24719 }
24720
24721 \renewcommand*{\scr@dte@tocline}[3]{%
24722 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24723 \else
24724 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24725 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24726 \@nameuse{Ifscr@tso@#1@dynindent}{%
24727 \expandafter\ifx\c@name scr@tso@#1@indentfollows\endcsname\@empty
24728 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24729 \else
24730 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24731 \@for \reserved@a:=\reserved@a\do {%
24732 \scr@trim@spaces\reserved@a
24733 \ifx\reserved@a\@empty\else
24734 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24735 }{%
24736 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24737 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24738 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24739 \scr@ifundefinedorrelax
24740 {scr@dte@\reserved@a @lastmaxnumwidth}{%
24741 \advance\@tempdima
24742 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24743 }{%
24744 \advance\@tempdima
24745 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24746 }%
24747 }{%
24748 \advance\@tempdima
24749 \@nameuse{scr@tso@\reserved@a @numwidth}\relax

```




```

24750             }%
24751             \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24752                 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24753                     {\the\@tempdima}%
24754             \fi
24755         \fi
24756     }%
24757 \fi
24758 }%
24759 \fi
24760 }{}%
24761 {%
24762     \Iftocfeature{\@currentx}{noindent}{%
24763         \bidi@leftskip \z@
24764     }{}%
24765     \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24766 }%
24767 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24768 \parfillskip -\bidi@rightskip
24769 \@nameuse{Ifscr@tso@#1@raggedpage}{%
24770     \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24771 }{}%
24772 \Iftocfeature{\@currentx}{noindent}{%
24773     \parindent \z@
24774 }{}%
24775     \parindent \@nameuse{scr@tso@#1@indent}\relax
24776 }%
24777 \@afterindenttrue
24778 \interlinepenalty\@M
24779 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24780     \addtolength\bidi@rightskip\@flushglue
24781 \else
24782     \def\reserved@a{\raggedright}%
24783     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24784         \addtolength\bidi@rightskip\@flushglue
24785     \else
24786         \renewcommand\reserved@a{\raggedright}%
24787         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24788             \addtolength\bidi@rightskip\@flushglue
24789         \fi
24790     \fi
24791 \fi
24792 \leavevmode
24793 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24794 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24795     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{%
24796         \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24797             \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24798         \fi
24799     }%
24800 }{}%
24801 \advance\bidi@leftskip \@tempdima
24802 \null\nobreak\hskip -\bidi@leftskip
24803 {%

```



```

24804 \usetocbasicnumberline
24805 \let\scr@dte@numberline@box\numberline@box
24806 \def\numberline@box##1{%
24807   \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24808   \global\scr@dte@tocline@numberwidth
24809   \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24810   \relax
24811   \ifdim \scr@dte@tocline@numberwidth
24812     >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24813     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24814   \fi
24815   \@nameuse{Ifscr@tso@#1@dynnumwidth}{-}{%
24816     \ifdim \scr@dte@tocline@numberwidth
24817       >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24818       +\@nameuse{scr@tso@#1@numsep}\relax\relax
24819       \PackageWarning{tocbasic}{%
24820         number width of #1 toc entries should be
24821         increased!\MessageBreak
24822         Currently used number width =
24823         \the\wd\scr@dte@tocline@numbox,\MessageBreak
24824         Wanted number separation
24825         \space\space\space =
24826         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24827         Reserved number width \space\space\space\space\space\space =
24828         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24829       }%
24830     \fi
24831   }%
24832   \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24833   \@nameuse{Ifscr@tso@#1@breakafternumber}{%
24834     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
24835   }{}%
24836 }%
24837 {\@nameuse{scr@tso@#1@entryformat}{%
24838   #2%
24839   \nobreak
24840   {%
24841     \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
24842     \nobreak
24843     \expandafter\let\expandafter\scr@dte@pagenumberwidth
24844     \csname scr@tso@#1@pagenumberwidth\endcsname
24845     \@nameuse{scr@tso@#1@pagenumberbox}{%
24846       \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24847     }%
24848   }%
24849   }}\@par
24850 }%
24851 }%
24852 \tocbasic@SetPenaltyByTOCLevel{#1}%
24853 \fi
24854 }
24855
24856
24857 \bidi@undef\scr@dte@def@l@tocline

```



```

24858 \bidi@undef\scr@dte@tocline@init
24859 \DeclareTOCEntryStyle{tocline}[{%
24860   \DefineTOCEntryLengthOption{beforeskip}%
24861   {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24862   \DefineTOCEntryIfOption{breakafternumber}%
24863   {scr@tso@}{@breakafternumber}{line break after number flag}%
24864   \DefineTOCEntryIfOption{dynnumwidth}%
24865   {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24866   \DefineTOCEntryListOption{indentfollows}%
24867   {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24868   \DefineTOCEntryIfOption{dynindent}%
24869   {scr@tso@}{@dynindent}{dynamic indent width flag}%
24870   \DefineTOCEntryCommandOption{entryformat}%
24871   {scr@tso@}{@entryformat}[1]{entry format}%
24872   \DefineTOCEntryCommandOption{entrynumberformat}%
24873   {scr@tso@}{@numberformat}[1]{entry number format}%
24874   \DefineTOCEntryCommandOption{linefill}[1]{\TOCLineLeaderFill}%
24875   {scr@tso@}{@linefill}{filling between text and page number}%
24876   \DefineTOCEntryLengthOption{numsep}%
24877   {scr@tso@}{@numsep}{entry number separation}%
24878   \DefineTOCEntryCommandOption{onstarthigherlevel}%
24879   {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24880   \DefineTOCEntryCommandOption{onstartlowerlevel}%
24881   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24882   \DefineTOCEntryCommandOption{onstartsamelevel}%
24883   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24884   \DefineTOCEntryCommandOption{pagenumberbox}%
24885   {scr@tso@}{@pagenumberbox}[1]{page number box}%
24886   \DefineTOCEntryCommandOption{pagenumberformat}%
24887   {scr@tso@}{@pagenumberformat}[1]{page number format}%
24888   \DefineTOCEntryLengthOption{pagenumberwidth}%
24889   {scr@tso@}{@pagenumberwidth}{width of page number box}%
24890   \DefineTOCEntryLengthOption{rightindent}%
24891   {scr@tso@}{@rightindent}{entry's text right indent}%
24892   \DefineTOCEntryOption{raggedentrytext}[true]{%
24893     \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
24894     \ifx\FamilyKeyState\FamilyKeyStateProcessed
24895       \if@tempswa
24896         \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24897         \raggedright
24898       \else
24899         \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24900         \relax
24901       \fi
24902     \fi
24903   }%
24904   \DefineTOCEntryIfOption{raggedpagenumber}%
24905   {scr@tso@}{@raggedpage}{page number ragged flag}%
24906   \DefineTOCEntryLengthOption{indent}%
24907   {scr@tso@}{@indent}{entry indent}%
24908   \DefineTOCEntryLengthOption{numwidth}%
24909   {scr@tso@}{@numwidth}{entry number width}%
24910   \scr@ifundefinedorrelax{#1tocdepth}{%
24911     \Ifstrstart{#1}{sub}{%

```



```

24912 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{-}{%
24913 \expandafter\edef\csname #1tocdepth\endcsname{%
24914 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24915 }%
24916 }%
24917 }{}%
24918 }{}%
24919 \@ifundefined{#1tocdepth}{%
24920 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24921 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24922 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24923 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24924 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24925 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24926 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24927 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24928 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24929 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24930 \csname #1numdepth\endcsname
24931 }%
24932 }%
24933 }%
24934 }%
24935 }%
24936 }%
24937 }%
24938 }%
24939 }%
24940 }{}%
24941 \scr@ifundefinedorrelax{\scr@tso@#1@indent}{%
24942 \@ifundefined{\scr@#1@tocindent}{%
24943 \Ifstrstart{#1}{sub}{%
24944 \scr@ifundefinedorrelax{\scr@tso@\scr@dte@nosub{#1}@indent}{%
24945 \scr@ifundefinedorrelax{\scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
24946 \expandafter\edef\csname \scr@tso@#1@indent\endcsname{%
24947 \glueexpr \noexpand\@nameuse{\scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24948 \relax
24949 }%
24950 }%
24951 }{}%
24952 \scr@ifundefinedorrelax{\scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
24953 \expandafter\edef\csname \scr@tso@#1@indent\endcsname{%
24954 \glueexpr \noexpand\@nameuse{\scr@tso@\scr@dte@nosub{#1}@indent}}%
24955 \relax
24956 }%
24957 }{}%
24958 \expandafter\edef\csname \scr@tso@#1@indent\endcsname{%
24959 \glueexpr \noexpand\@nameuse{\scr@tso@\scr@dte@nosub{#1}@indent}}%
24960 +\noexpand\@nameuse{\scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24961 \relax
24962 }%
24963 }%
24964 }%
24965 }{}%

```



```

24966     }{%
24967     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24968     }%
24969   }{%
24970   \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24971     \Ifstrstart{#1}{sub}{%
24972       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
24973         \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
24974       }{%
24975         \expandafter\let
24976         \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
24977         \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
24978       }%
24979     }{%
24980     \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
24981     }%
24982   }{%
24983   \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
24984     \Ifstrstart{#1}{sub}{%
24985       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
24986         \namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
24987       }{%
24988         \expandafter\let
24989         \csname scr@tso@#1@rightindent\expandafter\endcsname
24990         \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
24991       }%
24992     }{%
24993     \namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
24994     }%
24995   }{%
24996   \@ifundefined{scr@tso@#1@indent}{%
24997     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24998     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24999     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25000     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25001     \scr@ifundefinedorrelax{l@chapter}{%
25002       \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25003       \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25004       \Ifstr{#1}{subsubsection}{%
25005         \@namedef{scr@tso@#1@indent}{3.8em}%
25006       }{%
25007         \Ifstr{#1}{paragraph}{%
25008           \@namedef{scr@tso@#1@indent}{7em}%
25009         }{%
25010           \Ifstr{#1}{subparagraph}{%
25011             \@namedef{scr@tso@#1@indent}{10em}%
25012           }{%
25013             }%
25014           }%
25015         }%
25016       }%
25017     }%
25018   }{%
25019     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%

```



```

25020 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25021 \Ifstr{#1}{subsubsection}{%
25022 \@namedef{scr@tso@#1@indent}{7.0em}%
25023 }{%
25024 \Ifstr{#1}{paragraph}{%
25025 \@namedef{scr@tso@#1@indent}{10em}%
25026 }{%
25027 \Ifstr{#1}{subparagraph}{%
25028 \@namedef{scr@tso@#1@indent}{12em}%
25029 }{%
25030 }%
25031 }%
25032 }%
25033 }%
25034 }%
25035 }%
25036 }%
25037 }%
25038 }%
25039 }%
25040 }{}%
25041 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25042 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25043 \Ifstrstart{#1}{sub}{%
25044 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
25045 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25046 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25047 +.9em%
25048 \relax
25049 }%
25050 }%
25051 }{}%
25052 }{%
25053 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25054 }%
25055 }{}%
25056 \@ifundefined{scr@tso@#1@numwidth}{%
25057 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25058 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25059 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25060 \scr@ifundefinedorrelax{chapter}{%
25061 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25062 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25063 \Ifstr{#1}{subsubsection}{%
25064 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25065 }{%
25066 \Ifstr{#1}{paragraph}{%
25067 \@namedef{scr@tso@#1@numwidth}{4.1em}%
25068 }{%
25069 \Ifstr{#1}{subparagraph}{%
25070 \@namedef{scr@tso@#1@numwidth}{5m}%
25071 }{%
25072 }%
25073 }%

```



```

25074         }%
25075     }%
25076 }%
25077 }{%
25078     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25079         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25080             \Ifstr{#1}{subsubsection}{%
25081                 \@namedef{scr@tso@#1@numwidth}{3.1em}%
25082             }{%
25083                 \Ifstr{#1}{paragraph}{%
25084                     \@namedef{scr@tso@#1@numwidth}{5em}%
25085                 }{%
25086                     \Ifstr{#1}{subparagraph}{%
25087                         \@namedef{scr@tso@#1@numwidth}{6em}%
25088                     }{%
25089                         }%
25090                     }%
25091                 }%
25092             }%
25093         }%
25094     }%
25095 }%
25096 }%
25097 }%
25098 }{%}%
25099 \expandafter\renewcommand%
25100 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25101 \expandafter\renewcommand%
25102 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25103 \expandafter\renewcommand%
25104 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25105 \ifundefined{scr@tso@#1@beforeskip}{%
25106     \Ifstr{#1}{part}{%
25107         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25108     }{%
25109         \Ifstr{#1}{chapter}{%
25110             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25111         }{%
25112             \Ifstr{#1}{section}{%
25113                 \scr@ifundefinedorrelax{1@chapter}{%
25114                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25115                 }{}%
25116             }{}%
25117         }%
25118     }%
25119     \expandafter\renewcommand\expandafter*%
25120     \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25121 }{%}%
25122 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25123     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25124     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25125 }{%}%
25126 \renewcommand*{\scr@dte@donumwidth}{}%
25127 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%

```



```

25128 \expandafter\renewcommand\expandafter*%
25129 \csname scr@tso@#1@numsep\endcsname{.4em}%
25130 \expandafter\renewcommand%
25131 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25132 \Ifstr{#1}{part}{%
25133   \expandafter\providecommand%
25134   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25135 }{%
25136   \Ifstr{#1}{chapter}{%
25137     \expandafter\providecommand%
25138     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25139   }{%
25140     \scr@ifundefinedorrelax{1@chapter}{%
25141       \Ifstr{#1}{section}{%
25142         \expandafter\providecommand%
25143         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25144       }{%
25145       }%
25146     \expandafter\providecommand%
25147     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25148   }%
25149 }%
25150 \expandafter\renewcommand
25151 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25152 \@ifundefined{scr@tso@#1@linefill}{%
25153   \Ifstr{#1}{part}{%
25154     \@namedef{scr@tso@#1@linefill}{\hfill}%
25155   }{%
25156     \Ifstr{#1}{chapter}{%
25157       \@namedef{scr@tso@#1@linefill}{\hfill}%
25158     }{%
25159       \scr@ifundefinedorrelax{1@chapter}{%
25160         \Ifstr{#1}{section}{%
25161           \@namedef{scr@tso@#1@linefill}{\hfill}%
25162         }{%
25163         }%
25164       \expandafter\renewcommand%
25165       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25166     }%
25167   }%
25168 }{%
25169 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25170 \Ifstr{#1}{part}{%
25171   \expandafter\providecommand%
25172   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25173 }{%
25174   \Ifstr{#1}{chapter}{%
25175     \expandafter\providecommand%
25176     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25177   }{%
25178     \scr@ifundefinedorrelax{1@chapter}{%
25179       \Ifstr{#1}{section}{%
25180         \expandafter\providecommand%
25181         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%

```




```

25182     }{}%
25183   }{}%
25184   \expandafter\providecommand%
25185   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25186     {\normalfont\normalcolor ##1}}%
25187   }%
25188 }%
25189 \expandafter\renewcommand%
25190 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25191   \hb@xt@{\nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
25192 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25193 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25194 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25195   \Ifstrstart{#1}{sub}{%
25196     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25197       \scr@dte@nosub{#1}%
25198     }%
25199   }{%
25200     \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25201   }%
25202 }{}%
25203 }{}%
25204 \scr@dte@tocline{#1}{##1}{##2}%
25205 }
25206
25207 \if@bidi\csdef{scr@tso@figure@pagenumberformat}{%
25208   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25209     {\normalfont\normalcolor #1}%
25210   }%
25211 }{}
25212
25213 \if@bidi\csdef{scr@tso@table@pagenumberformat}{%
25214   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25215     {\normalfont\normalcolor #1}%
25216   }%
25217 }{}
25218

```

158 File `tocstyle-xetex-bidi.def`

```

25219 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25220 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25221   \let\numberline\tocstyle@numberline
25222   \ifnum #1>\c@tocdepth \else
25223     \if@tocstyle@penalties
25224       \begingroup
25225         \@tempcnta 20010
25226         \advance \@tempcnta by -#1
25227         \ifnum \@tempcnta>\lastpenalty
25228           \aftergroup\penalty\aftergroup\@lowpenalty
25229         \fi
25230       \endgroup
25231     \fi
25232     \edef\tocstyledepth{#1}%

```



```

25233 \tocstyle@activate@features
25234 \ifx\tocstyle@feature@entryvskip\relax
25235 \vskip \z@ \@plus.2\p@
25236 \else
25237 \addvspace{\tocstyle@feature@entryvskip}%
25238 \fi
25239 {%
25240 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25241 \tocstyle@feature@raggedhook
25242 \@tempdima #3\relax
25243 \@tempdimb #2\relax
25244 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25245 \ifnum #1>\z@\relax
25246 \@tempcnta #1\relax \advance\@tempcnta \m@ne
25247 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25248 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25249 \@tempdimb
25250 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25251 \advance\@tempdimb
25252 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25253 \fi
25254 \fi
25255 \fi
25256 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25257 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25258 \ifdim \@tempdimb>
25259 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25260 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25261 @#1\endcsname{\the\@tempdimb}%
25262 \fi
25263 \else
25264 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25265 @#1\endcsname{\the\@tempdimb}%
25266 \fi
25267 \iftocstyle@autolength
25268 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25269 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25270 \relax
25271 \fi
25272 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25273 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25274 \relax
25275 \fi
25276 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25277 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25278 \else
25279 \@tempdimb #2\relax
25280 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25281 \fi
25282 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25283 \ifdim \@tempdima>
25284 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25285 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25286 @\endcsname{\the\@tempdima}%

```



```

25287     \fi
25288   \else
25289     \expandafter\edef\csname tocstyle@unumwidth@\tocstyleTOC
25290       @\endcsname{\the\@tempdima}%
25291   \fi
25292   \ifcase\tocstyle@indentstyle\relax\else
25293     \@tempdimb \z@
25294     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25295       \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25296       \relax
25297     \fi
25298     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25299     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25300   \fi
25301   \advance\parindent \@tempdimb\@afterindenttrue
25302   \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25303   \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25304   \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25305   \ifx\tocstyle@feature@parfillskip\relax\else
25306     \advance\parfillskip \tocstyle@feature@parfillskip\relax
25307   \fi
25308   \interlinepenalty\@M
25309   \leavevmode
25310   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25311   \null\nobreak
25312   \iftocstyle@indentnotnumbered\else
25313     \hskip -\if@RTL\rightskip\else\leftskip\fi
25314   \fi
25315   \tocstyle@feature@entryhook
25316   {\#4}\nobreak
25317   \ifx\tocstyle@feature@leaders\relax
25318     \leaders\hbox{$\m@th
25319       \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
25320       \mkern \@dotsep mu$}\hfill
25321   \else
25322     \tocstyle@feature@leaders
25323   \fi
25324   \nobreak
25325   \ifx\tocstyle@feature@pagenumberbox\relax
25326     \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25327   \else
25328     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25329   \fi
25330   \par
25331 }%
25332 \iftocstyle@penalties
25333   \bgroup
25334   \@tempcnta 20009
25335   \advance\@tempcnta by -#1
25336   \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25337   \reserved@a
25338 \fi
25339 \fi}
25340 \renewcommand*{\tocstyle@numberline}[1]{%

```



```

25341 \beginngroup
25342   \ifx\tocstyle@feature@spaceafternumber\relax
25343     \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
25344   \else
25345     \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
25346     \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25347   \fi
25348   \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25349     \ifdim \@tempdima >
25350       \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25351       \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25352         @\tocstyledepth\endcsname{\the\@tempdima}%
25353     \fi
25354   \else
25355     \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25356       @\tocstyledepth\endcsname{\the\@tempdima}%
25357   \fi
25358 \endgroup
25359 \iftocstyle@indentnotnumbered
25360   \hskip -\if@RTL\rightskip\else\leftskip\fi
25361 \fi
25362 \ifcase \tocstyle@indentstyle
25363   \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25364 \or
25365   \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25366 \else
25367   \ifx\tocstyle@feature@spaceafternumber\relax
25368     \hbox{\tocstyle@@numberline{#1}\enskip}%
25369   \else
25370     \hbox{\tocstyle@@numberline{#1}\hskip
25371       \tocstyle@feature@spaceafternumber\relax}%
25372   \fi
25373 \fi
25374 }
25375 \AtBeginDocument{%
25376   \ifcsname l@part\endcsname
25377     \ifcsname l@chapter\endcsname
25378       \setbox\@tempboxa\vbox{\hsize\maxdimen
25379         \l@part{\tocstyle@l@define{part}{-1}}{}}%
25380     \else
25381       \setbox\@tempboxa\vbox{\hsize\maxdimen
25382         \l@part{\tocstyle@l@define{part}{0}}{}}%
25383     \fi
25384   \fi
25385   \ifcsname l@chapter\endcsname
25386     \setbox\@tempboxa\vbox{\hsize\maxdimen
25387       \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25388   \fi
25389   \ifcsname l@section\endcsname
25390     \setbox\@tempboxa\vbox{\hsize\maxdimen
25391       \l@section{\tocstyle@l@define{section}{1}}{}}%
25392   \fi
25393   \ifcsname l@subsection\endcsname
25394     \setbox\@tempboxa\vbox{\hsize\maxdimen

```



```

25395 \l@section{\tocstyle@l@define{subsection}{2}}{}}%
25396 \fi
25397 \ifcsname l@subsubsection\endcsname
25398 \setbox\@tempboxa\vbox{\hsize\maxdimen
25399 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25400 \fi
25401 \ifcsname l@paragraph\endcsname
25402 \setbox\@tempboxa\vbox{\hsize\maxdimen
25403 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25404 \fi
25405 \ifcsname l@subparagraph\endcsname
25406 \setbox\@tempboxa\vbox{\hsize\maxdimen
25407 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25408 \fi
25409 \ifcsname l@table\endcsname
25410 \setbox\@tempboxa\vbox{\hsize\maxdimen
25411 \l@table{\tocstyle@l@define{table}{1}}{}}%
25412 \fi
25413 \ifcsname l@figure\endcsname
25414 \setbox\@tempboxa\vbox{\hsize\maxdimen
25415 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25416 \fi
25417 \def\@tempa#1#2#3#4#5{%
25418 \ifnum #1>\c@tocdepth \else
25419 \vskip \z@ \@plus.2\p@
25420 {\ifRTL\righskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\righskip\fi \@toc
25421 \parindent #2\relax\@afterindenttrue
25422 \interlinepenalty\@M
25423 \leavevmode
25424 \@tempdima #3\relax
25425 \advance\ifRTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\righ
25426 {#4}\nobreak
25427 \leaders\hbox{$\m@th
25428 \mkern \dotsep mu\hbox{.}\mkern \dotsep
25429 mu$}\hfill
25430 \nobreak
25431 \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
25432 \par}%
25433 \fi}%
25434 \ifx\@dottedtocline\@tempa\else
25435 \tocstyle@macrochangewarning\@dottedtocline
25436 \fi
25437 \let\tocstyle@saved@dottedtocline\@dottedtocline
25438 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25439 \ifx\numberline\@tempa\else
25440 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25441 \ifx\numberline\@tempa\else
25442 \tocstyle@macrochangewarning\numberline
25443 \fi
25444 \fi
25445 \let\tocstyle@saved@numberline\numberline
25446 }
25447 \renewcommand*\@tocstyle@l@define}[2]{%
25448 \advance\ifRTL\righskip\else\leftskip\fi-\@tempdima

```



```

25449 \edef\@tempa{%
25450   \noexpand\global\noexpand\let
25451   \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25452   \expandafter\noexpand\csname l@#1\endcsname
25453   \noexpand\gdef
25454   \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25455     \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
25456   \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25457     \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25458     \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25459   }%
25460 }%
25461 \PackageInfo{tocstyle}{prepare \expandafter\string
25462   \csname l@#1\endcsname\space for redefinition}%
25463 \@tempa
25464 }

```

159 File todonotes-xetex-bidi.def

```

25465 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25466 \newif\if@bidi@todonotes@textdirection@RTL
25467 \newif\if@bidi@todonotes@figposition@right
25468 \newcommand{\@bidi@todonotes@align}{}%
25469 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25470 \newcommand{\@bidi@todonotes@textdirection}{}%
25471 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25472   \ifcase\bidi@todonotes@tempb\relax
25473     \@bidi@todonotes@textdirection@RTLtrue
25474     \let\bidi@todonotes@textdirection\RL
25475   \or
25476     \@bidi@todonotes@textdirection@RTLfalse
25477     \let\bidi@todonotes@textdirection\LR
25478   \fi}
25479 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25480   \ifcase\bidi@todonotes@tempb\relax
25481     \@bidi@todonotes@figposition@righttrue
25482   \or
25483     \@bidi@todonotes@figposition@rightfalse
25484   \fi}
25485 \if@todonotes@disabled%
25486 \else % \if@todonotes@disabled
25487 \renewcommand{\@todonotes@drawInlineNote}{%
25488   \if@todonotes@dviStyle%
25489     {\par\noindent\begin{tikzpicture}[remember picture]%
25490       \draw node[inlinenotestyle] {};\end{tikzpicture}}\par}%
25491     \if@todonotes@authorgiven%
25492       {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25493     \else%
25494       {\noindent \@todonotes@sizecommand \@todonotes@text}%
25495     \fi
25496     {\par\noindent\begin{tikzpicture}[remember picture]%
25497       \draw node[inlinenotestyle] {};\end{tikzpicture}}\par}%
25498   \else%
25499     {\par\noindent\begin{tikzpicture}[remember picture]%

```



```

25500         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25501         \draw node[inline notestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25502             \if@todonotes@authorgiven%
25503                 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}
25504             \else%
25505                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25506             \fi};%
25507         \end{tikzpicture}\par}%
25508     \fi}%
25509 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25510 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25511     \node [coordinate] (inText) {};%
25512 \end{tikzpicture}%
25513 \marginpar[{\% Draw note in left margin
25514     \@todonotes@drawMarginNote%
25515     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25516 }]{\% Draw note in right margin
25517     \@todonotes@drawMarginNote%
25518     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25519 }%
25520 }%
25521 \renewcommand{\@todonotes@drawMarginNote}{%
25522 \if@todonotes@dviStyle%
25523     \begin{tikzpicture}[remember picture]%
25524         \draw node[notestyle] {};%
25525     \end{tikzpicture}\\%
25526     \begin{minipage}{\@todonotes@textwidth}%
25527         \if@todonotes@authorgiven%
25528             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25529         \else%
25530             \@todonotes@sizecommand \@todonotes@text%
25531         \fi%
25532     \end{minipage}\\%
25533     \begin{tikzpicture}[remember picture]%
25534         \draw node[notestyle] (inNote) {};%
25535     \end{tikzpicture}%
25536 \else%
25537     \let\originalHbadness\hbadness%
25538     \hbadness 100000%
25539     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25540         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25541         \node(X){\vphantom{X}};%
25542         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
25543             {\@todonotes@text};%
25544         \if@todonotes@authorgiven%
25545             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
25546                 {\@todonotes@sizecommand\@todonotes@author};%
25547             \node(Y)[below=of X]{};%
25548             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
25549                 {\@todonotes@text};%
25550         \else%
25551             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
25552                 {\@todonotes@text};%
25553         \fi%

```



```

25554 \end{tikzpicture}%
25555 \hbadness \originalHbadness%
25556 \fi}%
25557 \renewcommand{\missingfigure}[2] [] {%
25558 \setkeys{todonotes}{#1}%
25559 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25560 \par
25561 \noindent
25562 \begin{tikzpicture}
25563 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25564 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25565 \if@bidi@todonotes@figposition@right%
25566 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25567 \fi%
25568 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25569 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25570 \if@bidi@todonotes@figposition@right%
25571 \end{scope}
25572 \begin{scope}[xshift=-3.8cm]
25573 \fi%
25574 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25575 \draw (2, -0.3) node[right, text
25576 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25577 \if@bidi@todonotes@figposition@right%
25578 \end{scope}
25579 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25580 \fi%
25581 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
25582 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
25583 \if@bidi@todonotes@figposition@right%
25584 \end{scope}
25585 \fi%
25586 \end{tikzpicture}}\hfill
25587 }% Ending \missingfigure command
25588 \fi % Ending \@todonotes@ifdisabled
25589 \presetkeys%
25590 {todonotes}%
25591 {align=left,%
25592 textdirection=lefttoright,%
25593 figposition=left}{}%

```

160 File wrapfig-xetex-bidi.def

```

25594 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25595 \let\WF@@everypar\@everypar
25596 \def\WF@putfigmaybe{%
25597 \ifinner
25598 \vskip-\parskip \global\WF@floatfalse
25599 \let\pagetotal\maxdimen % kludge flag for "not top of page"
25600 \else % outer page
25601 \@tempdima\pagedepth % save page depth
25602 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25603 \penalty\interlinepenalty % update pg. parameters
25604 \@tempdima\pagegoal \advance\@tempdima-\pagetotal % room left on page

```




```

25605 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25606 \global\WF@floatfalse
25607 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25608 \else
25609 \ifdim\WF@size>\@tempdimb
25610 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25611 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25612 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25613 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25614 \advance\dimen@.5\baselineskip
25615 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
25616 \global\WF@floatfalse \pagebreak
25617 \fi
25618 \else % \WF@info{Fits in \the\@tempdimb;}%
25619 \global\WF@floatfalse
25620 \fi\fi
25621 \vskip\@tempdima\relax % (return erased page depth)
25622 \fi
25623 \noindent
25624 \ifWF@float
25625 \WF@flmes
25626 \else % putting here;
25627 \WF@info{Put \WF@wfname here:}%
25628 {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25629 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25630 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25631 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25632 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25633 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25634 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25635 \xdef\WF@adjlw{\the\@tempdima}%
25636 \ifnum `l=\WF@place % fig on left
25637 \if@RTL%
25638 \kern\@tempdimb \kern\columnsep
25639 \def\@tempa{\hss}% position to left of the gap
25640 \else%
25641 \hss % figure overlaps space to the left
25642 \def\@tempa{\kern\columnsep}% position to left of the gap
25643 \fi%
25644 \else % fig on right
25645 \if@RTL%
25646 \hss
25647 \@tempdima\z@
25648 \def\@tempa{\kern\columnsep}
25649 \else%
25650 \@tempdima\z@ % no left indentation
25651 \kern\@tempdimb \kern\columnsep
25652 \def\@tempa{\hss}% figure overlaps space to the right
25653 \fi%
25654 \fi
25655 \ifdim\@tempdimb<\hsize
25656 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25657 \xdef\WF@adjtlm{\the\@tempdima}%
25658 \else

```



```

25659 \xdef\WF@wrapil{\z@ \the\hsize}%
25660 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25661 \fi
25662 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25663 \global\advance\WF@size-\intextsep
25664 \else % \WF@info{Putting \WF@wfname in middle of page}%
25665 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25666 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25667 }% end \hbox to Opt
25668 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25669 \fi}

```

161 File xcolor-xetex-bidi.def

```

25670 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25671 \long\def\color@b@x#1#2#3%
25672 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25673 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25674 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
25675 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
25676 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25677 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25678 \DeclareRobustCommand\color
25679 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
25680 \def\@undeclaredcolor[#1]#2%
25681 {\begingroup
25682 \let\@ccls\@empty
25683 \XC@getmodclr12{#1}{#2}{}}%
25684 {\ifblendcolors
25685 \ifx\colorblend\@empty\else
25686 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
25687 \XC@coremodel\@mod\@clr\@xcolor@{ }\@mod\@clr
25688 \fi
25689 \fi
25690 \ifconvertcolorsU
25691 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25692 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25693 \fi
25694 \ifmaskcolors
25695 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25696 \let\@mod\XC@mmod
25697 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25698 \expandafter\XC@mul\@tmp,\@clr
25699 \fi
25700 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25701 \expandafter\endgroup\@tmp}}
25702 \def\@declaredcolor#1%
25703 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
25704 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
25705 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
25706 \ifconvertcolorsU\XC@@tsttrue\fi
25707 \fi
25708 \ifXC@@tst
25709 \expandafter\XC@declaredcolor\else

```



```

25710 \expandafter\XC@declaredcolor\fi}
25711 \def\XC@undeclaredcolor#1#2%
25712 {\@ifundefinedmodel{#1}%
25713 {\c@lor@error{model `#1'}}%
25714 {\@nameuse{color@#1}\current@color{#2}%
25715 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25716 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25717 \def\XC@declaredcolor
25718 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
25719 \edef\current@color{\XC@current@color}%
25720 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25721 \DeclareRobustCommand\bidicolor
25722 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
25723 \def\@bidiundeclaredcolor[#1]#2%
25724 {\beginRgroup
25725 \let\@@cls\@empty
25726 \XC@getmodclr12{#1}{#2}{}%
25727 {\ifblendcolors
25728 \ifx\colorblend\@empty\else
25729 \edef\@@mix{\expandafter\@gobble\colorblend}\@tempswafalse
25730 \XC@coremodel\@mod\@@clr\@xcolor@{}{\}@@mod\@@clr
25731 \fi
25732 \fi
25733 \ifconvertcolorsU
25734 \edef\@@tmp{\XC@tgt@mod{\}@@mod}}%
25735 \convertcolorspec\@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
25736 \fi
25737 \ifmaskcolors
25738 \convertcolorspec\@mod\@@clr\XC@mmod\@@clr
25739 \let\@@mod\XC@mmod
25740 \XC@inflate\@mod\XC@mclr\@@clr\@@tmp
25741 \expandafter\XC@mul\@@tmp,\@@clr
25742 \fi
25743 \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\}@@mod}{\}@@clr}}%
25744 \expandafter\endgroup\@@tmp}}
25745 \def\XC@bidiundeclaredcolor#1#2%
25746 {\@ifundefinedmodel{#1}%
25747 {\c@lor@error{model `#1'}}%
25748 {\@nameuse{color@#1}\current@color{#2}%
25749 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25750 \XC@display}}
25751 \def\@bidideclaredcolor#1%
25752 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
25753 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
25754 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
25755 \ifconvertcolorsU\XC@@tsttrue\fi
25756 \fi
25757 \ifXC@@tst
25758 \expandafter\XC@bidideclaredcolor\else
25759 \expandafter\XC@bidideclaredcolor\fi}
25760 \def\XC@bidideclaredcolor
25761 {\XC@split\XC@@tmp
25762 \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\}@@clr}}%
25763 \expandafter\endgroup\@@tmp}

```



```

25764 \def\XC@bidideclaredcolor
25765 {\XC@let\NC\XC@current@color{\string\color\XC@tmp}%
25766 \edef\current@color{\XC@current@color}%
25767 \XC@display}
25768 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25769 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25770 \def\color@fb@x#1#2#3#4%
25771 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
25772 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25773 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

162 File latex-xetex-bidi.def

```

25774 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25775 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
25776 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
25777 \TeXXeTOn
25778 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25779 \let\bidi@o@everypar=\everypar
25780 \newtoks\bidi@n@everypar
25781 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25782 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25783 \let\everypar=\bidi@n@everypar
25784 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25785 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25786 \protected\def\hboxR{\hbox\bgroup
25787 \everyhbox{%
25788 \aftergroup\egroup
25789 \everyhbox{}}%
25790 \beginR
25791 \@hboxRconstructtrue
25792 \bgroup
25793 \aftergroup\endR
25794 \aftergroup\egroup
25795 }\hbox}
25796 \protected\def\hboxL{\hbox\bgroup
25797 \everyhbox{%
25798 \aftergroup\egroup
25799 \everyhbox{}}%
25800 \beginL
25801 \@hboxRconstructfalse
25802 \bgroup
25803 \aftergroup\endL
25804 \aftergroup\egroup
25805 }\hbox}
25806 \protected\def\vboxR{\vbox\bgroup
25807 \everyvbox{%
25808 \aftergroup\egroup
25809 \everyvbox{}}%
25810 \@RTLtrue
25811 \@RTLtabtrue
25812 \bgroup
25813 \aftergroup\egroup
25814 }\vbox}

```



```

25815 \protected\def\ vboxL{\ vbox\bgroup
25816 \everyvbox{%
25817 \aftergroup\egroup
25818 \everyvbox{}%
25819 \@RTLfalse
25820 \@RTLtabfalse
25821 \bgroup
25822 \aftergroup\egroup
25823 }\ vbox}
25824 \newcommand*{\ bidi@leftskip}{\ if@RTL\rightskip\else\leftskip\fi}
25825 \newcommand*{\ bidi@rightskip}{\ if@RTL\leftskip\else\rightskip\fi}
25826 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
25827 \def\endLTR{\par}
25828 \newenvironment{LTR*}{\LTR
25829 \everypar{%
25830 {\setbox\z@\lastbox
25831 \ifvoid\z@
25832 \kern-\parindent
25833 \fi}%
25834 }%
25835 }\endLTR\@endpetrue}
25836 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25837 \def\endRTL{\par}
25838 \newenvironment{RTL*}{\RTL
25839 \everypar{%
25840 {\setbox\z@\lastbox
25841 \ifvoid\z@
25842 \kern-\parindent
25843 \fi}%
25844 }%
25845 }\endRTL\@endpetrue}
25846 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
25847 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
25848 \let\unsetRTL=\setRTL
25849 \let\unsetLTR=\setLTR
25850 \let\LR=\LRE
25851 \let\RL=\RLE
25852 \def\@ensure@RTL#1{\ if@RTL#1\else\RLE{#1}\fi}
25853 \def\@ensure@LTR#1{\ if@RTL\LRE{#1}\else#1\fi}
25854 \let\@ensure@RL=\@ensure@RTL
25855 \let\@ensure@LR=\@ensure@LTR
25856 \def\@ensure@dir#1{\ if@RTL\RLE{#1}\else{#1}\fi}
25857 \let\@ensure@maindir=\@ensure@dir
25858 \def\@@RTL{RTL}
25859 \def\@@LTR{LTR}
25860 \def\save@dir{\ if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
25861 \def\reset@dir{\ ifx\saved@@dir\@@RTL\setRTL\else\ ifx\saved@@dir\@@LTR\setLTR\else\relax\fi}
25862 \let\@TeX\TeX
25863 \def\TeX{\@ensure@LTR{\@TeX}}
25864 \let\@LaTeX\LaTeX
25865 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25866 \let\@LaTeXe\LaTeXe
25867 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25868 \long\def\bidi@reflect@box#1{%

```



```

25869 \leavevmode
25870 \setbox\z@\hbox{\{#1\}}%
25871 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
25872 \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
25873 }
25874 \if@bidi@csundef{XeTeX}{%
25875 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
25876 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25877 }{%
25878 \let\@bidi@orig@XeTeX\XeTeX
25879 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25880 }
25881 \if@bidi@csundef{XeLaTeX}{%
25882 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
25883 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
25884 }{%
25885 \let\@bidi@orig@XeLaTeX\XeLaTeX
25886 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25887 }
25888 \let\setRL=\setRTL
25889 \let\setLR=\setLTR
25890 \let\unsetRL=\setLTR
25891 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25892 \ApplyPatchIfPackageLoaded{array}{%
25893 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25894 \leavevmode
25895 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
25896 \let\dollarend\endgroup
25897 \@tabarray}
25898 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25899 }{%
25900 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25901 \leavevmode \hbox \bgroup
25902 $\left.\let\@acol\@tabacol
25903 \let\@classz\@tabclassz
25904 \let\@classiv\@tabclassiv \let\\ \@tabularcr\@tabarray}
25905
25906 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
25907 \egroup\right\rbrace $\egroup}}
25908 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25909 \ialign{##\hfil$\&\quad{##}\hfil\crr#1\crr}}\,\right\}}
25910 \renewenvironment{RTLcases}{%
25911 \bidi@matrix@check\RTLcases\env@RTLcases
25912 }{%
25913 \endbidi@tabular@RTLcases%
25914 }
25915 \def\env@RTLcases{%
25916 \let\@ifnextchar\bidi@new@ifnextchar
25917 \def\arraystretch{1.2}%
25918 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
25919 }
25920 \def\SepMark#1{\gdef\@SepMark{#1}}
25921 \SepMark{.}
25922 \def\@thmcountersep{\@SepMark}

```



```

25923 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25924 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25925 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25926 \newcommand*{\bidi@thebibliography@font@hook}{}
25927 \def\list#1#2{%
25928   \ifnum \@listdepth >5\relax
25929     \@toodeep
25930   \else
25931     \global\advance\@listdepth\@ne
25932   \fi
25933   \rightmargin\z@
25934   \listparindent\z@
25935   \itemindent\z@
25936   \csname @list\romannumeral\the\@listdepth\endcsname
25937   \def\@itemlabel{#1}%
25938   \let\makelabel\@mklab
25939   \@nmbrrlistfalse
25940   #2\relax
25941   \@trivlist
25942   \parskip\parsep
25943   \parindent\listparindent
25944   \advance\linewidth -\rightmargin
25945   \advance\linewidth -\leftmargin
25946   \if@bidi@list@minipage@parbox
25947     \if@RTL
25948       \advance\@totalleftmargin \leftmargin
25949     \else
25950       \advance\@totalleftmargin \rightmargin
25951     \fi
25952   \else
25953     \if@hboxRconstruct
25954       \if@bidi@list@minipage@parbox@not@nob
25955         \if@RTL
25956           \advance\@totalleftmargin \rightmargin
25957         \else
25958           \advance\@totalleftmargin \leftmargin
25959         \fi
25960       \else
25961         \if@RTL
25962           \advance\@totalleftmargin \leftmargin
25963         \else
25964           \advance\@totalleftmargin \rightmargin
25965         \fi\fi
25966       \else
25967         \if@RTL
25968           \advance\@totalleftmargin \rightmargin
25969         \else
25970           \advance\@totalleftmargin \leftmargin
25971         \fi\fi\fi
25972       \parshape \@ne \@totalleftmargin \linewidth
25973       \ignorespaces}
25974 \long\def\@iiiparbox#1#2[#3]#4#5{%
25975   \leavevmode
25976   \@pboxswfalse

```



```

25977 \if@hboxRconstruct
25978 \@bidi@list@minipage@parbox@not@nobtrue
25979 \fi
25980 \if@RTL
25981 \ifx#1t%
25982 \@bidi@list@minipage@parboxtrue
25983 \else
25984 \ifx#1b%
25985 \@bidi@list@minipage@parboxtrue
25986 \fi
25987 \fi
25988 \fi
25989 \setlength\@tempdima{#4}%
25990 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
25991 \ifx\relax#2\else
25992 \setlength\@tempdimb{#2}%
25993 \edef\@parboxto{to\the\@tempdimb}%
25994 \fi
25995 \if#1b\vbox
25996 \else\if #1t\vtop
25997 \else\ifmmode\vcenter
25998 \else\@pboxswtrue $\vcenter
25999 \fi\fi\fi
26000 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26001 \csname bm#3\endcsname}%
26002 \if@pboxsw \m@th$\fi
26003 \@end@tempboxa}
26004 \newenvironment{LTRitems}
26005 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26006 \if@bidi@list@minipage@parbox
26007 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26008 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26009 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26010 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26011 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26012 \ignorespaces}{\vskip\z@}
26013 \newenvironment{RTLitems}
26014 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
26015 \if@bidi@list@minipage@parbox
26016 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26017 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26018 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26019 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26020 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26021 \ignorespaces}{\vskip\z@}
26022 \newenvironment{LTRbibitems}
26023 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26024 \if@bidi@list@minipage@parbox
26025 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26026 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26027 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26028 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26029 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26030 \ignorespaces}{\vskip\z@}

```




```

26031 \newenvironment{RTLbibitems}
26032     {\par\@RTLtrue\@RTLtabtrue\@RTLbidi@beamer@ragged
26033      \if@bidi@list@minipage@parbox
26034      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26035      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26036      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26037      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26038      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26039      \ignorespaces}{\vskip\z@}
26040 \def\raggedright{%
26041     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26042     \leftskip\z@skip
26043     \parindent\z@\parfillskip\z@skip}
26044 \let\@bidi@orig@raggedleft\raggedleft
26045 \let\@bidi@orig@raggedright\raggedright
26046 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\else\@bidi@orig@raggedright\fi}
26047 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\else\@bidi@orig@raggedleft\fi}
26048 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26049 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26050 \DeclareRobustCommand\centerline[1]{%
26051 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26052 \else\@@line{\hss#1\hss}\fi}
26053 \def\@bidi@orig@leftline#1{%
26054 \if@RTL\@@line{\beginR#1\endR\hss}
26055 \else\@@line{#1\hss}\fi}
26056 \def\@bidi@orig@rightline#1{%
26057 \if@RTL\@@line{\hss\beginR#1\endR}
26058 \else\@@line{\hss#1}\fi}
26059 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@leftline{#1}\fi}
26060 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rightline{#1}\fi}
26061 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26062 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26063 \def\@hangfrom#1{\setbox\@tempboxa\hbox{\{#1\}}%
26064     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26065 \def\narrower{%
26066     \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26067     \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26068 \DeclareRobustCommand\underline[1]{%
26069     \relax
26070     \ifmmode\@@underline{#1}%
26071     \else
26072     \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26073     \else
26074     $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26075 \if@compatibility
26076     \let\underline=\underline
26077 \fi
26078 \def\@tabular{%
26079     \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26080     $\let\@acol\@tabacol
26081     \let\@classz\@tabclassz
26082     \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26083 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
26084     \egroup $\if@RTLtab\endR\fi\egroup}

```



```

26085 \expandafter \let \csname endtabular*\endcsname = \endtabular
26086 \def \@array[#1]#2{%
26087   \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26088   \bgroup
26089   \setbox\@arstrutbox\hbox{%
26090     \vrule \@height\arraystretch\ht\strutbox
26091     \@depth\arraystretch\dp\strutbox
26092     \@width\z@}%
26093   \@mkpream{#2}%
26094   \edef\@preamble{%
26095     \ialign \noexpand\@halignto
26096       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26097   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26098   \let\tabularnewline\%
26099   \let\par\@empty
26100   \let\@sharp##%
26101   \set@typeset@protect
26102   \lineskip\z@skip\baselineskip\z@skip
26103   \ifhmode \@preamerr\z@ \@@par\fi
26104   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26105   \@preamble}
26106 \def \array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26107 \let\@classiv\@arrayclassiv
26108 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26109 \def \@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26110   \ifnum \@lastchclass=3 5 \else
26111   \z@ \if #1c\@cnum \z@ \else
26112     \if \if@RTLtab#1r\else#1l\fi\@cnum \@ne \else
26113     \if \if@RTLtab#1l\else#1r\fi\@cnum \tw@ \else
26114     \@chclass \if #1|\@ne \else
26115     \if #1@\tw@ \else
26116     \if #1p3 \else \z@ \@preamerr 0\fi
26117   \fi \fi \fi \fi \fi \fi
26118 \fi}
26119 \def \bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26120 \def \bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26121 \def \bm@t{\unhbox\@tempboxa\hss}
26122 \def \bm@b{\hss\unhbox\@tempboxa}
26123 \def \@dottedtocline#1#2#3#4#5{%
26124   \ifnum #1>\c@tocdepth \else
26125     \vskip \z@ \@plus.2\p@
26126     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
26127     \parindent #2\relax\@afterindenttrue
26128     \interlinepenalty\@M
26129     \leavevmode
26130     \@tempdima #3\relax
26131     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26132     {#4}\nobreak
26133     \leaders\hbox{$\m@th
26134       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26135       mu$}\hfill
26136     \nobreak
26137     \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26138   \par}%

```



```

26139 \fi}
26140
26141 \newcount\ bidi@column@check@number
26142
26143 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
26144
26145 \def\ bidi@set@column@status#1#2{%
26146   \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
26147
26148 \if@twocolumn
26149 \newcommand\DetectColumn[3][1]{%
26150   \ifx\ bidi@firstcolumn@status\write\relax
26151     \PackageError{bidi}%
26152       {Option 'DetectColumn' not selected}%
26153       {\string\DetectColumn\space
26154        requires the use of the 'DetectColumn'
26155        option on the package}%
26156   \fi
26157   \global\advance\ bidi@column@check@number\@ne
26158   \edef\ bidi@column@type{\expandafter\ifx
26159     \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26160     0\else
26161     \csname bidi@column-\the\ bidi@column@check@number\endcsname
26162     \fi}%
26163   \ifcase \ bidi@column@type\relax
26164     \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
26165   \or
26166     #2% % 1 First column
26167   \or
26168     #3% % 2 Second (Last column)
26169   \else
26170     \ERROR
26171   \fi
26172   \edef\next{\write\@auxout
26173     {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}}%
26174     {\ bidi@column@type}}}%
26175   \next
26176 }
26177
26178 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
26179   \ifnum #2=\ bidi@current@column@status\else
26180     \@tempwattrue
26181     \fi}%
26182 }
26183 \fi
26184
26185 \def\RTL@outputdblcol{%
26186   \if@firstcolumn
26187     \global\@firstcolumnfalse
26188     \global\setbox\@leftcolumn\copy\@outputbox
26189     \splitmaxdepth\maxdimen
26190     \vbadness\maxdimen
26191     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26192     \setbox\@outputbox\vsplit\@outputbox to\maxdimen

```



```

26193 \toks@\expandafter{\topmark}%
26194 \xdef\@firstcoltopmark{\the\toks@}%
26195 \toks@\expandafter{\splitfirstmark}%
26196 \xdef\@firstcolfirstmark{\the\toks@}%
26197 \ifx\@firstcolfirstmark\@empty
26198 \global\let\@setmarks\relax
26199 \else
26200 \gdef\@setmarks{%
26201 \let\firstmark\@firstcolfirstmark
26202 \let\topmark\@firstcoltopmark}%
26203 \fi
26204 \else
26205 \global\@firstcolumntrue
26206 \setbox\@outputbox\vbox{%
26207 \hb@xt@\textwidth{%
26208 \hskip \columnwidth
26209 \hfil
26210 {\normalcolor\vrule \@width\columnseprule}%
26211 \hfil
26212 \hb@xt@\columnwidth{%
26213 \bidi@firstcolumn@status@write%
26214 \box\@leftcolumn \hss}%
26215 \hskip -\textwidth
26216 \hb@xt@\columnwidth{%
26217 \bidi@lastcolumn@status@write%
26218 \box\@outputbox \hss}%
26219 \hskip \columnsep
26220 \hskip \columnwidth }}%
26221 \@combinedblfloats
26222 \@setmarks
26223 \@outputpage
26224 \begingroup
26225 \@dblfloatplacement
26226 \@startdblcolumn
26227 \@whiles\if@fcolmade \fi{\@outputpage
26228 \@startdblcolumn}%
26229 \endgroup
26230 \fi}%
26231
26232 \def\LTR@outputdblcol{%
26233 \if@firstcolumn
26234 \global\@firstcolumnfalse
26235 \global\setbox\@leftcolumn\copy\@outputbox
26236 \splitmaxdepth\maxdimen
26237 \vbadness\maxdimen
26238 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26239 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26240 \toks@\expandafter{\topmark}%
26241 \xdef\@firstcoltopmark{\the\toks@}%
26242 \toks@\expandafter{\splitfirstmark}%
26243 \xdef\@firstcolfirstmark{\the\toks@}%
26244 \ifx\@firstcolfirstmark\@empty
26245 \global\let\@setmarks\relax
26246 \else

```



```

26247     \gdef\@setmarks{%
26248         \let\firstmark\@firstcolfirstmark
26249         \let\topmark\@firstcoltopmark}%
26250     \fi
26251 \else
26252     \global\@firstcolumntrue
26253     \setbox\@outputbox\vbox{%
26254         \hb@xt@\textwidth{%
26255             \hb@xt@\columnwidth{%
26256                 \bidi@firstcolumn@status@write%
26257                 \box\@leftcolumn \hss}%
26258             \hfil
26259             {\normalcolor\vrule \@width\columnseprule}%
26260             \hfil
26261             \hb@xt@\columnwidth{%
26262                 \bidi@lastcolumn@status@write%
26263                 \box\@outputbox \hss}}}%
26264 \@combinedblfloats
26265     \@setmarks
26266     \@outputpage
26267     \begingroup
26268         \@dblfloatplacement
26269         \@startdblcolumn
26270         \@whiles\if@fcolmade \fi{\@outputpage
26271             \@startdblcolumn}%
26272     \endgroup
26273 \fi}%
26274
26275
26276 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26277 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26278 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26279
26280 \bidi@patchcmd\@makecol{%
26281     \ifvoid\footins
26282         \setbox\@outputbox \box\@cclv
26283     \else
26284         \setbox\@outputbox \vbox {%
26285             \boxmaxdepth \@maxdepth
26286             \unvbox \@cclv
26287             \vskip \skip\footins
26288             \color@begingroup
26289                 \normalcolor
26290                 \footnoterule
26291                 \unvbox \footins
26292             \color@endgroup
26293         }%
26294     \fi
26295 }{%
26296     \ifvoid\footins
26297         \ifvoid\@bidi@copyins@
26298             \setbox\@outputbox \box\@cclv
26299         \else
26300             \setbox\@outputbox \vbox {%

```



```

26301         \boxmaxdepth \@maxdepth
26302         \unvbox \@cclv
26303         \vskip \skip\@bidi@copyins@
26304         \color@begingroup
26305             \normalcolor
26306             \unvbox \@bidi@copyins@
26307         \color@endgroup
26308     }%
26309 \fi
26310 \else
26311     \setbox\@outputbox \vbox {%
26312         \boxmaxdepth \@maxdepth
26313         \unvbox \@cclv
26314         \vskip \skip\footins
26315         \color@begingroup
26316             \normalcolor
26317             \footnoterule
26318             \unvbox \footins
26319         \color@endgroup
26320         \ifvoid\@bidi@copyins@
26321         \else
26322             \vskip \skip\@bidi@copyins@
26323             \color@begingroup
26324                 \normalcolor
26325                 \unvbox \@bidi@copyins@
26326             \color@endgroup
26327         \fi
26328     }%
26329 \fi
26330 }{}{}
26331
26332 \def\LTRmarginpar{%
26333     \ifhmode
26334         \bsphack
26335         \@floatpenalty -\@Mii
26336     \else
26337         \@floatpenalty-\@Miii
26338     \fi
26339     \ifinner
26340         \@parmoderr
26341         \@floatpenalty\z@
26342     \else
26343         \@next\@currbox\@freelist{}{}%
26344         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26345         {\@floatpenalty\z@
26346             \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26347     \fi
26348     \@ifnextchar [\@LTRxmpar\@LTRympar}
26349 \long\def\@LTRxmpar[#1]#2{%
26350     \LTRsavemarbox\@marbox{#1}%
26351     \LTRsavemarbox\@currbox{#2}%
26352     \@xympar}
26353 \long\def\@LTRympar#1{%
26354     \LTRsavemarbox\@marbox{#1}%

```



```

26355 \global\setbox\@currbox\copy\@marbox
26356 \xympar}
26357 \long\def \@LTRsavemarbox #1#2{%
26358 \global\setbox #1%
26359 \color@vbox
26360 \vtop{%
26361 \hsize\marginparwidth
26362 \@parboxrestore
26363 \@LTRmarginparreset
26364 #2%
26365 \@minipagefalse
26366 \outer@nobreak
26367 }%
26368 \color@endbox
26369 }
26370 \def \@LTRmarginparreset {%
26371 \reset@font
26372 \normalsize
26373 \@minipagetrue
26374 \everypar{\@minipagefalse\everypar{}\beginL}%
26375 }
26376 \def\RTLmarginpar{%
26377 \ifhmode
26378 \bsphack
26379 \@floatpenalty -\@Mii
26380 \else
26381 \@floatpenalty-\@Miii
26382 \fi
26383 \ifinner
26384 \@parmoderr
26385 \@floatpenalty\z@
26386 \else
26387 \@next\@currbox\@freelist{}\}%
26388 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26389 {\@floatpenalty\z@
26390 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
26391 \fi
26392 \@ifnextchar [\@RTLxmpar\@RTLympar}
26393 \long\def\@RTLxmpar[#1]#2{%
26394 \@RTLSavemarbox\@marbox{#1}%
26395 \@RTLSavemarbox\@currbox{#2}%
26396 \xympar}
26397 \long\def\@RTLympar#1{%
26398 \@RTLSavemarbox\@marbox{#1}%
26399 \global\setbox\@currbox\copy\@marbox
26400 \xympar}
26401 \long\def \@RTLSavemarbox #1#2{%
26402 \global\setbox #1%
26403 \color@vbox
26404 \vtop{%
26405 \hsize\marginparwidth
26406 \@parboxrestore
26407 \@RTLmarginparreset
26408 #2%

```



```

26409         \@minipagefalse
26410         \outer@nobreak
26411     }%
26412     \color@endbox
26413 }
26414 \def \@RTLmarginparreset {%
26415     \reset@font
26416     \normalsize
26417     \@minipagetrue
26418     \everypar{\@minipagefalse\everypar{}\beginR}%
26419 }
26420 \def \@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26421     \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26422     \if@twocolumn
26423         \if@firstcolumn \@tempcnta\m@ne \fi
26424     \else
26425         \if@mparswitch
26426             \ifodd\c@page \else\@tempcnta\m@ne \fi
26427         \fi
26428         \if@reversemargin \@tempcnta -\@tempcnta \fi
26429     \fi
26430     \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26431     \@tempdima\@mparbottom
26432     \advance\@tempdima -\@pageht
26433     \advance\@tempdima\ht\@marbox
26434     \ifdim\@tempdima >\z@
26435         \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26436     \else
26437         \@tempdima\z@
26438     \fi
26439     \global\@mparbottom\@pageht
26440     \global\advance\@mparbottom\@tempdima
26441     \global\advance\@mparbottom\dp\@marbox
26442     \global\advance\@mparbottom\marginparpush
26443     \advance\@tempdima -\ht\@marbox
26444     \global\setbox \@marbox
26445         \vbox {\vskip \@tempdima
26446             \box \@marbox}%
26447     \global \ht\@marbox \z@
26448     \global \dp\@marbox \z@
26449     \kern -\@pagedp
26450     \nointerlineskip
26451     \hb@xt@\columnwidth
26452     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26453         \hskip\columnwidth \hskip\marginparsep
26454     \else
26455         \hskip -\marginparsep \hskip -\marginparwidth
26456     \fi
26457     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26458     \nointerlineskip
26459     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
26460 \long\def \@ympar#1{%
26461     \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26462     \global\setbox\@currbox\copy\@marbox

```




```

26463 \xympar}
26464 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26465 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26466 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26467 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26468 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26469 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26470 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26471 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26472 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26473 \fi}
26474
26475 \newcommand*{\bidi@font@@outputpage}{}
26476
26477 \def\@outputpage{%
26478 \begingroup % the \endgroup is put in by \aftergroup
26479 \let \protect \noexpand
26480 \@resetactivechars
26481 \global\let\@if@newlist\if@newlist
26482 \global\@newlistfalse
26483 \@parboxrestore
26484 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26485 \bidi@beforeoutputpageshipouthook
26486 \shipout \vbox{%
26487 \set@typeset@protect
26488 \aftergroup \endgroup
26489 \aftergroup \set@typeset@protect
26490 % correct? or just restore by ending
26491 % the group?
26492 \if@specialpage
26493 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26494 \fi
26495 \if@twoside
26496 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26497 \if@RTLmain
26498 \let\@themargin\evensidemargin
26499 \else
26500 \let\@themargin\oddsidemargin
26501 \fi
26502 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26503 \if@RTLmain
26504 \let\@themargin\oddsidemargin
26505 \else
26506 \let\@themargin\evensidemargin
26507 \fi
26508 \fi
26509 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26510 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26511 \else %% not @twoside
26512 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26513 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26514 \fi
26515 \reset@font
26516 \normalsize

```



```

26517 \bidi@font@@outputpage
26518 \normalsfcodes
26519 \let\label\@gobble
26520 \let\index\@gobble
26521 \let\glossary\@gobble
26522 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26523 \@begindvi
26524 \vskip \topmargin
26525 \moveright\@themargin \vbox {%
26526 \global\let\bidi@BeforeHeader\@firstofone
26527 \bidi@beforeheaderhook
26528 \setbox\@tempboxa \vbox to\headheight{%
26529 \vfil
26530 \color@hbox
26531 \normalcolor
26532 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
26533 \color@endbox
26534 }% %% 22 Feb 87
26535 \dp\@tempboxa \z@
26536 \box\@tempboxa
26537 \vskip \headsep
26538 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
26539 \bidi@beforeoutputboxoutputpagehook
26540 \box\@outputbox
26541 \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
26542 \bidi@afteroutputboxoutputpagehook
26543 \global\let\bidi@BeforeFooter\@firstofone
26544 \bidi@beforefooterhook
26545 \baselineskip \footskip
26546 \color@hbox
26547 \normalcolor
26548 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
26549 \color@endbox
26550 \global\let\bidi@AfterFooter\@firstofone
26551 \bidi@afterfooterhook
26552 }%
26553 }%
26554 \global\let\bidi@AfterOutputPageShipOut\@firstofone
26555 \bidi@afteroutputpageshipouthook
26556 \global\let\if@newlist\@if@newlist
26557 \global \colht \textheight
26558 \stepcounter{page}%
26559 \let\firstmark\botmark
26560 \global\let\bidi@AtEndOutputPage\@firstofone
26561 \bidi@atendoutputpagehook
26562 }
26563 \long\def\@makecaption#1#2{%
26564 \vskip\abovcaptionskip
26565 \sbox\@tempboxa{#1: #2}%
26566 \ifdim \wd\@tempboxa >\hsize
26567 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26568 \else
26569 \global \@minipagefalse
26570 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%

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26571 \fi
26572 \vskip\belowcaptionskip}
26573 \let\bidisaved@eqno=\eqno
26574 \let\bidisaved@leqno=\leqno
26575 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
26576 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
26577 \ApplyPatchIfPackageLoadedF{amsmath}{
26578 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26579 }
26580 \input{footnote-xetex-bidi.def}
26581 \if@twocolumn
26582 \let\autofooterule\relax
26583 \let\leftfootnoterule\relax
26584 \let\rightfootnoterule\relax
26585 \textwidthfootnoterule
26586 \fi
26587 \if@bidi@csundef{@idxitem}{-}{%
26588 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
26589 }
26590
26591 \ApplyPatchToClassesIfPackageLoadedF{%
26592 book, %
26593 report %
26594 }{flowfram}
26595
26596 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26597
26598 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26599 fleqn, %
26600 leqno%
26601 }[clo]
26602
26603 \ApplyPatchToClasses{%
26604 amsart, %
26605 amsbook, %
26606 article, %
26607 artikel1, %
26608 artikel2, %
26609 artikel3, %
26610 beamer, %
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26624 refrep, %

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26625 scrartcl, %
26626 scrbook, %
26627 screprt %
26628 }
26629
26630 \ApplyPatchToPackages{%
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26633   amsmath, %
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26635   amsthm, %
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26651   beamerinnerthemeinmargin, %
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26675   cuted, %
26676   cutwin, %
26677   dblfnote, %
26678   diagbox, %

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26702 media9, %
26703 midfloat, %
26704 minitoc, %
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26706 multienum, %
26707 natbib, %
26708 newfloat, %
26709 nicematrix, %
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26733 tocloft, %
26734 tocstyle, %
26735 todonotes, %
26736 wrapfig, %
26737 xcolor, %
26738 xltextra %
26739 }
26740
26741 \ApplyPatchToFiles{%
26742   pgfcorescopes.code, %
26743   pstricks %
26744 }[tex]
26745
26746 \ApplyPatchToFile{tc-xetex}
26747

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163 File xltextra-xetex-bidi.def

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26748 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26749 \let\@XeTeX\XeTeX
26750 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26751 \let\@XeLaTeX\XeLaTeX
26752 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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