



The *bidi Package*

Source documentation for *version 25.09.26*

*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 *bid*i Package

Bidirectional typesetting with plain T_EX and L^AT_EX
formats in XeT_EX and LuaT_EX engines

Source documentation for [version 25.09.26](#)

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September 27, 2025

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*Thanks to the bidi-tex GitHub organization consisted of David Carlisle and other members of the L^AT_EX team for maintaining the package in the period 2018–2020.

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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
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\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
13    \if@RTL\leftskip\else\rightskip\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 \@makefnintext{%
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 \@makefnintext{%
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 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@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 \if@RTL\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@{\@xp{\shortauthors}\@temptokena\@xp{\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]
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]
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname 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\csname the\algocf@float\endcsname\@SepMark\arabic{
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 fo
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\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
218     \if@RTL\leftskip\else\rightskip\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     \@makefntext{%
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     \@makefntext{%
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]
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\@italiccc
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]
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}[2025/09/11 v0.7 bidi adaptations for array package for
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\begingroup
393 \let\d@llarend\endgroup
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 \begingroup

```



```

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 \let\@@array\@array
434 \def\endarray {
435   \tbl_crcr:n{endarray}
436   \tag_socket_use_expandable:n { math/luamml/array/save }
437   \egroup
438   \tag_socket_use:n { tbl/finalize }
439   \tbl_restore_outer_cell_data:
440   \if@RTLtab\egroup\endR\egroup\fi
441   \egroup
442   \tag_socket_use:n { math/luamml/array/finalize }
443   \@arrayright \gdef\@preamble{}%
444 }
445 \def\array{\col@sep\arraycolsep
446   \def\d@llarbegin{${\tag_socket_use:n { math/luamml/array/initcol }}
447   \def\d@llarend
448   {
449     \tag_socket_use:nn { math/luamml/save/nn }{{}}{mtd}}
450     $
451     \tag_socket_use:nn { math/luamml/array/finalizecol }{\the\@chnum}
452   }
453   \def\@halignto{}%
454   \@RTLtabfalse
455   \@tabarray}
456 \ExplSyntaxOff

```

9 File article-xetex-bidi.def

```

457 \ProvidesFile{article-xetex-bidi.def}[2025/09/08 v1.1 bidi adaptations for standard article]
458 \IfClassLoadedT{svmult}{\endinput}
459 \if@titlepage
460   \renewcommand\maketitle{\begin{titlepage}%

```



```

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

```



```

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

```




```

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

```



```

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

```

10 File artikel1-xetex-bidi.def

```

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

```



```

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

```



```

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

```



```

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

```



```

836 \futurelet\@tempa\uc@ax}
837 \def\uc@ax{%
838 \ifx\@tempa\relax
839 \else
840 \\\andname \\\expandafter\uc@authornothanks
841 \fi}
842 \def\uc@tx{\ifx\@tempa\relax
843 \else \expandafter\uc@ty \fi}
844 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
845 \else
846 \renewcommand*\maketitle{\par
847 \begin{group}
848 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
849 \def\@makefnmark{\rlap{%
850 \textsuperscript{\normalfont\@thefnmark}}}%
851 \long\def\@makefntext{\@xmakefntext{%
852 \textsuperscript{\normalfont\@thefnmark}}}%
853 \if@twocolumn
854 \ifnum \col@number=\@one
855 \maketitle
856 \else
857 \twocolumn[\maketitle]%
858 \fi
859 \else
860 \newpage
861 \global\@topnum\z@
862 \maketitle
863 \fi
864 \thispagestyle{plain}\@thanks
865 \end{group}
866 \setcounter{footnote}{0}%
867 \global\let\thanks\relax
868 \global\let\maketitle\relax
869 \global\let\@maketitle\relax
870 \global\let\@thanks\@empty
871 \global\let\@author\@empty
872 \global\let\@title\@empty
873 \global\let\@date\@empty
874 \global\let\title\relax
875 \global\let\author\relax
876 \global\let\date\relax
877 \global\let\and\relax
878 }
879 \def\@maketitle{%
880 \newpage
881 \null
882 \vskip 2em%
883 \begin{center}%
884 \let \footnote \thanks
885 {\LARGE \TitleFont \@title \par}%
886 \vskip 1.5em%
887 {\large \TitleFont
888 \lineskip .5em%
889 \begin{tabular}[t]{c}%

```



```

890      \@author
891      \end{tabular}\par}%
892      \vskip 1em%
893      {\large \TitleFont \@date}%
894      \end{center}%
895      \par
896      \vskip 1.5em}
897 \fi

```

11 File artikel2-xetex-bidi.def

```

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

```



```

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

```




```

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

```



```

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

```



```

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

```

12 File artikel3-xetex-bidi.def

```

1150 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class]
1151 \renewenvironment{theindex}{%
1152     \if@twocolumn
1153     \@restonecolfalse

```



```

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

```



```

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

```



```

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

```



```

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

```



```

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

```

13 File arydshln-xetex-bidi.def

```

1410 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln packag
1411 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \ifRTLtab\egroup\endR\egroup\fi\egro
1412 \def\endtabular{\endarray $\ifRTLtab\endR\fi\egroup}
1413 \expandafter\let\csname endtabular*\endcsname\endtabular
1414 \let\adl@array\@array
1415 \def\@array{\adl@everyvbox\everyvbox
1416 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1417 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1418 \let\adl@noalign\noalign
1419 \adl@array}
1420 \ifadl@usingarypkg

```




```

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

```



```

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

```



```

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

```

14 File beamer-xetex-bidi.def

```

1545 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for
1546 \AtBeginDocument{%
1547     \if@RTLmain
1548         \raggedleft
1549     \else
1550         \raggedright
1551     \fi
1552 }
1553
1554 \renewcommand*{\bidi@beamer@ragged}{%
1555     \if@RTL
1556         \raggedleft
1557     \else
1558         \raggedright
1559     \fi
1560 }
1561
1562

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1563 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for b
1564 \bidi@csundef{beamer@@tmpop@subsection in toc@sections numbered}
1565
1566 \bidi@csundef{beamer@@tmpop@subsubsection in toc@sections numbered}
1567
1568 \bidi@csundef{beamer@@tmpop@section in toc@subsections numbered}
1569
1570 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1571
1572 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1573
1574 \defbeamertemplate{subsection in toc}{sections numbered}
1575 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1576

```



```

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

```



```

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

```



```

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

```



```

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

```



```

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

```




```

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

```

16 File beamerbaseboxes-xetex-bidi.def

```

1883 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbaseboxes]
1884 \renewcommand\beamerboxesrounded[2] [] {%
1885   \global\let\beamer@firstlineitemizeunskip=\relax%
1886   \vbox\bgroup%
1887   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1888   \setkeys{beamerboxes}{#1}%
1889   {%
1890     \usebeamercolor{\bmb@lower}%
1891     \globalcolorstrue%
1892     \colorlet{lower.bg}{bg}%
1893   }%
1894   {%
1895     \usebeamercolor{\bmb@upper}%
1896     \globalcolorstrue%
1897     \colorlet{upper.bg}{bg}%

```



```

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

```



```

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

```

17 File beamerbasecolor-xetex-bidi.def

```

1979 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerba
1980 \renewenvironment{beamercolorbox}[2][{}]{%
1981 \def\beamer@vmode{\leavevmode}%
1982 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1983 leftskip=0pt,rightskip=0pt plus1fil,%
1984 sep=0pt,colsep=0pt,colsep*=0pt,%
1985 shadow=false,rounded=false,ignorebg=false}%
1986 \if@RTL
1987 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1988 \else
1989 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1990 \fi
1991 \setkeys{beamercolbox}{#1}%
1992 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1993 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1994 \def\beamer@colbox@color{#2}%
1995 \setbox\beamer@tempbox=\hbox\bgroup\color@bebegin{group}
1996 \ifbeamer@colbox@ignorebg%
1997 \colorlet{beamer@temp@color}{bg}%
1998 \usebeamercolor[fg]{#2}%
1999 \colorlet{bg}{beamer@temp@color}%
2000 \else%
2001 \usebeamercolor[fg]{#2}%
2002 \fi%

```



```

2003 \beginL
2004 \vbox\bgroup%
2005 \hsize=\beamer@colbox@wd%
2006 \@arrayparboxrestore%
2007 \leftskip=\beamer@colbox@ls%
2008 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2009 \rightskip=\beamer@colbox@rs%
2010 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2011 \if@tempswa\ifdim\beamer@colbox@colsep>\z%
2012 \advance\leftskip by\beamer@colbox@colsep%
2013 \advance\rightskip by\beamer@colbox@colsep%
2014 \vskip\beamer@colbox@colsep%
2015 \fi%
2016 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2017 \fi%
2018 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2019 \beamer@vmode\ignorespaces}{%
2020 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2021 \if@tempswa
2022 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2023 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2024 \fi%
2025 \egroup\endL\color@endgroup\egroup%
2026 \wd\beamer@tempbox=\beamer@colbox@wd%
2027 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2028 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2029 \ifbeamer@colbox@rounded%
2030 \if@tempswa%
2031 \begin{beamerboxesrounded}[%
2032 shadow=\beamer@colbox@shadow,%
2033 lower=\beamer@colbox@color,%
2034 upper=normal text,%
2035 width=\beamer@colbox@wd]{%
2036 \box\beamer@tempbox%
2037 \end{beamerboxesrounded}%
2038 \else%
2039 \ifdim\wd\beamer@tempbox>\textwidth%
2040 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2041 \fi%
2042 \box\beamer@tempbox%
2043 \fi%
2044 \else%
2045 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2046 \usebeamercolor{\beamer@colbox@color}%
2047 \hskip-\beamer@colbox@colseps%
2048 \fboxsep=\z@\colorbox{bg}{%
2049 \hskip\beamer@colbox@colseps%
2050 \box\beamer@tempbox%
2051 \hskip\beamer@colbox@colseps%
2052 }%
2053 \hskip-\beamer@colbox@colseps%
2054 }\fi%
2055 \ifdim\wd\beamer@tempbox>\textwidth%
2056 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box

```



```

2057     \fi%
2058     \box\beamer@tempbox%
2059     \fi%
2060 }
2061
2062

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2063 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for
2064 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\
2065
2066

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2067 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations fo
2068 \renewcommand{\setbeamersize}[1]{%
2069     \beamer@dogeometryfalse%
2070     \setkeys{beamer@margin}{#1}%
2071     \ifbeamer@dogeometry%
2072         % Reset left margin now
2073         \beamer@tempdim=\beamer@leftmargin%
2074         \advance\beamer@tempdim by\beamer@leftsidebar%
2075         \if@RTLmain
2076             \geometry{right=\the\beamer@tempdim}%
2077         \else
2078             \geometry{left=\the\beamer@tempdim}%
2079         \fi
2080         % Reset right margin now
2081         \beamer@tempdim=\beamer@rightmargin%
2082         \advance\beamer@tempdim by\beamer@rightsidebar%
2083         \if@RTLmain
2084             \geometry{left=\the\beamer@tempdim}%
2085         \else
2086             \geometry{right=\the\beamer@tempdim}%
2087         \fi
2088     \fi%
2089 }
2090
2091 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2092     \if@RTLmain
2093         \Gm@rmargin
2094     \else
2095         \Gm@lmargin
2096     \fi
2097 }
2098
2099 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2100     \if@RTLmain
2101         \Gm@lmargin
2102     \else
2103         \Gm@rmargin
2104     \fi

```



```

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

```



```

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

```



```

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

```




```

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

```



```

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

```



```

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

```



```

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

```

20 File beamerbaseframesize-xetex-bidi.def

```

2474 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beam
2475 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2476   \par\nointerlineskip%
2477   \global\beamer@slidehaszoomtrue%
2478   \advance\beamer@zoomcount by1\relax%
2479   \def\beamer@zoomborderwidth{0}%

```



```

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

```



```

2534 \divide\@tempdimb by\@tempcntb%
2535 \ifdim\@tempdimb<\@tempdima%
2536 \@tempdima=\@tempdimb%
2537 \fi%
2538 \edef\beamer@temp{\strip@pt\@tempdima}%
2539 \@tempdimc=\beamer@frametextheight%
2540 \advance\@tempdimc by4pt%
2541 \@tempdimb=\paperwidth%
2542 \ifbeamer@plainframe%
2543 \else%
2544 \advance\@tempdimb by-\beamer@leftsidebar%
2545 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2546 \fi%
2547 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2548 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2549 \ht\@tempboxa=0pt%
2550 \wd\@tempboxa=0pt%
2551 \dp\@tempboxa=0pt%
2552 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2553 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2554 \ifRTL
2555 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pap
2556 \pgftext[right,top]{\box\@tempboxa}
2557 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2558 \pgfusepath{clip}
2559 \begin{group}
2560 \pgftransformscale{\beamer@temp}
2561 \@tempdima=#4\relax%
2562 \@tempdimb=#5\relax%
2563 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2564 \pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2565 \end{group}
2566 \end{pgfpicture}%
2567 \else
2568 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmarg
2569 \pgftext[left,top]{\box\@tempboxa}
2570 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2571 \pgfusepath{clip}
2572 \begin{group}
2573 \pgftransformscale{\beamer@temp}
2574 \@tempdima=#4\relax%
2575 \@tempdimb=#5\relax%
2576 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2577 \pgftext[left,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2578 \end{group}
2579 \end{pgfpicture}%
2580 \fi
2581 }}%
2582 \setbox\beamer@framebox=\vbox{%
2583 \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2584 \nointerlineskip\unvbox\beamer@frametitlebox%
2585 \nobreak%
2586 \box\beamer@framebox%
2587 \nobreak%

```



```

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

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2597 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2598 \def\beamer@enum@{%
2599     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2600     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2601     \bgroup
2602     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2603     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2604     \egroup
2605     \expandafter
2606     \list
2607         {\usebeamertemplate{\beamer@enumtempl}}
2608         {\usecounter\@enumctr%
2609             \def\makelabel##1{{\hss\llap{%
2610                 \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2611                 \usebeamerfont{itemize/enumerate \beameritemnestingprefix item}##1}}}%
2612             \beamer@cramped%
2613             \bidi@beamer@ragged%
2614             \beamer@firstlineitemizeunskip%
2615         }
2616
2617 \renewcommand{\itemize}[1][1]{%
2618     \ifblank{#1}{\def\beamer@defaultospec{#1}}%
2619     \ifnum \@itemdepth > 2 \relax \@toodeep \else
2620         \advance\@itemdepth\@ne
2621         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2622         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2623         \bgroup
2624         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2625         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2626         \egroup
2627         \list
2628             {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2629             {\def\makelabel##1{%
2630                 {%
2631                     \hss\llap{%
2632                         \usebeamerfont*{itemize \beameritemnestingprefix item}%
2633                         \usebeamerfont{itemize \beameritemnestingprefix item}##1}}}%
2634                 }%
2635             }%
2636         }
2637     \fi%
2638     \beamer@cramped%

```



```

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

```

22 File beamerbasemisc-xetex-bidi.def

```

2683 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbas
2684 \define@key{beamerst}{width}{%
2685 \def\beamer@ststart{%
2686 \begin{minipage}[t]{#1}%
2687 \bidi@beamer@ragged
2688 \beamer@stalign
2689 \beamer@stlinebreakrule

```




```

2690 }%
2691 \def\beamer@stend{\end{minipage}}
2692
2693

```

23 File beamerbasenavigation-xetex-bidi.def

```

2694 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for bea
2695 \def\slideentry#1#2#3#4#5#6{%
2696   %section number, subsection number, slide number, first/last frame, page number, part num
2697   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2698     \ifbeamer@compress%
2699       \advance\beamer@xpos by1\relax%
2700     \else%
2701       \ifnum#2=0%
2702         \beamer@ypos@offset=1\relax%
2703       \fi
2704       \beamer@xpos=#3\relax%
2705       \beamer@ypos=#2\relax%
2706       \advance\beamer@ypos by \beamer@ypos@offset\relax
2707     \fi%
2708     \hbox to 0pt{%
2709       \beamer@tempdim=-\beamer@vboxoffset%
2710       \advance\beamer@tempdim by-\beamer@boxsize%
2711       \multiply\beamer@tempdim by\beamer@ypos%
2712       \advance\beamer@tempdim by -.05cm%
2713       \raise\beamer@tempdim\hbox{%
2714         \beamer@tempdim=\beamer@boxsize%
2715         \multiply\beamer@tempdim by\beamer@xpos%
2716         \advance\beamer@tempdim by -\beamer@boxsize%
2717         \advance\beamer@tempdim by 1pt%
2718         \kern\beamer@tempdim
2719         \global\beamer@section@min@dim\beamer@tempdim
2720         \hbox{\beamer@link(#4){}%
2721           \usebeamerfont{mini frame}%
2722           \ifnum\c@section=#1%
2723             \ifnum\c@subsection=#2%
2724               \usebeamercolor{fg}{mini frame}%
2725               \ifnum\c@subsectionslide=#3%
2726                 \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2727               \else%
2728                 \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhi
2729             \fi%
2730           \else%
2731             \usebeamercolor{mini frame}%
2732             %\color{fg!50!bg}%
2733             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2734           \fi%
2735         \else%
2736           \usebeamercolor{mini frame}%
2737           %\color{fg!50!bg}%
2738           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2739         \fi%
2740       }}}} \hskip-10cm plus 1fil%

```



```

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

```



```

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

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2811 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2812 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2813
2814

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2815 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2816 \newcommand*{\bidi@beamer@leftskip}{%
2817 \if@RTL
2818 \rightskip
2819 \else
2820 \leftskip
2821 \fi
2822 }
2823
2824 \newcommand*{\bidi@beamer@rightskip}{%
2825 \if@RTL
2826 \leftskip
2827 \else
2828 \rightskip
2829 \fi
2830 }
2831
2832 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2833
2834 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2835
2836 \defbeamertemplate*{subsection in toc}{default}
2837 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2838
2839 \defbeamertemplate*{subsubsection in toc}{default}
2840 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2841 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2842

```



```

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

```



```

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

```



```

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

```



```

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

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3014 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for be
3015 \setbeamertemplate{sections/subsections in toc}[circle]
3016

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3018 \setbeamertemplate{section in toc}[square]
3019 \setbeamertemplate{subsection in toc}[square]
3020
3021 \setbeamertemplate{itemize items}[square]
3022 \setbeamertemplate{itemize subitem}[triangle]
3023
3024 \bidi@csundef{beamer@@tmpop@title page@focus}
3025
3026 \defbeamertemplate*{title page}{focus}{%
3027     {%
3028         \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3029         \begin{tikzpicture}[overlay, remember picture]
3030             \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.
3031         \end{tikzpicture}
3032     }
3033
3034     \vspace{-1.65\baselineskip}
3035     \begin{minipage}[b][0.35\paperheight]{\textwidth}
3036         \vspace{\baselineskip}
3037         \usebeamerfont{title}
3038         \usebeamercolor[fg]{frametitle}
3039         \inserttitle
3040     \end{minipage}
3041
3042     \begin{minipage}[t][0.1\paperheight]{\textwidth}
3043         \usebeamerfont{subtitle}
3044         \usebeamercolor[fg]{frametitle}
3045         \insertsubtitle
3046     \end{minipage}
3047
3048     % Set the title graphic in a zero-height box, so that
3049     % the position of other elements is not affected.
3050     {\vfuzz=9999pt\vbox to 0pt {
3051         \if@RTL
3052         \raggedright

```



```

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

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3084 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3085 \AtBeginDocument{%
3086     \setbeamsize{sidebar width left=.25\paperwidth}%
3087 }
3088
3089 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3090
3091 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3092
3093 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3094
3095 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3096
3097 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3100
3101 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3102
3103 \bidi@csundef{beamer@@tmpop@block example end@inmargin}

```




```

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

```



```

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

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3179 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3180 \setbeamertemplate{title}{
3181   \bidi@beamer@ragged%
3182   \linespread{1.0}%
3183   \inserttitle%
3184   \par%
3185   \vspace*{0.5em}
3186 }
3187
3188 \setbeamertemplate{subtitle}{
3189   \bidi@beamer@ragged%
3190   \insertsubtitle%
3191   \par%
3192   \vspace*{0.5em}
3193 }
3194
3195 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3196
3197 \defbeamertemplate{section page}{progressbar}{
3198   \centering
3199   \begin{minipage}{22em}
3200     \bidi@beamer@ragged
3201     \usebeamercolor[fg]{section title}
3202     \usebeamerfont{section title}
3203     \insertsectionhead\[-lex]
3204     \usebeamertemplate*{progress bar in section page}
3205     \par
3206     \ifx\insertsubsectionhead\@empty\else%
3207       \usebeamercolor[fg]{subsection title}%
3208       \usebeamerfont{subsection title}%

```



```

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

```



```

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

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3304 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations f
3305 \setbeamertemplate{sections/subsections in toc}[square]
3306 \setbeamertemplate{items}[square]
3307

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3308 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for
3309 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3310 \setbeamertemplate{items}[ball]

```



```

3311 \setbeamertemplate{sections/subsections in toc}[ball]
3312

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3313 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for
3314 \def\beamer@ftelleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3315
3316 \def\beamer@fterright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3317
3318 \AtBeginDocument{%
3319   \if@RTLmain
3320     \setbeamertemplate{frametitle}[default][right]
3321   \fi
3322 }
3323
3324 \bidi@csundef{beamer@@tmpop@note page@default}
3325
3326 \newcommand*{\bidi@beamer@today}{%
3327   \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3328
3329 \defbeamertemplate*{note page}{default}
3330 {%
3331   {%
3332     \scriptsize
3333     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3334     \ifbeamercolorempy[bg]{note title}{\%
3335       \insertvrule{.25\paperheight}{note title.bg}%
3336       \vskip-.25\paperheight%
3337       \nointerlineskip%
3338     }%
3339     \vbox{
3340       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3341       \vskip-0.25\paperheight%
3342       \nointerlineskip
3343       \if@RTL
3344         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3345           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3346             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3347             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3348           \end{pgflowlevelscope}
3349         \end{pgfpicture}%
3350       \else
3351         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3352           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3353             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3354             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3355           \end{pgflowlevelscope}
3356         \end{pgfpicture}%
3357       \fi}
3358     \nointerlineskip
3359     \vbox to .25\paperheight{\vskip0.5em
3360     \if@RTL
3361       \moveright0.25\textwidth

```



```

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

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3403 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3404 \bidi@undef\beamer@@tmpop@footline@progressbar
3405
3406 \defbeamertemplate*{footline}{progressbar}{%
3407 % If not appendix.
3408 \ifnum\mainend<0% From package appendixnumberbeamer.
3409 %
3410 \settowidth{\focus@pbar@leftoffset}{1}%
3411 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3412 %

```



```

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

```



```

3467             \fi%
3468         \end{tikzpicture}%
3469     \fi%
3470 \fi%
3471 \fi%
3472 }
3473
3474

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3475 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations fo
3476 \bidi@csundef{beamer@@tmpop@footline@infolines theme}
3477
3478 \defbeamertemplate*{footline}{infolines theme}
3479 {%
3480     \leavevmode%
3481     \hbox{%
3482         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}
3483         \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\
3484         \end{beamercolorbox}%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}
3486         \usebeamerfont{title in head/foot}\insertshorttitle
3487         \end{beamercolorbox}%
3488         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,
3489         \hfill%
3490         \usebeamerfont{date in head/foot}%
3491         \insertshortdate}%
3492         \hfill%
3493         \bgroup
3494         \usebeamercolor[fg]{page number in head/foot}%
3495         \usebeamerfont{page number in head/foot}%
3496         \usebeamertemplate{page number in head/foot}%
3497         \egroup
3498         \end{beamercolorbox}}%
3499         \vskip0pt%
3500     }
3501
3502 \bidi@csundef{beamer@@tmpop@headline@infolines theme}
3503
3504 \defbeamertemplate*{headline}{infolines theme}
3505 {%
3506     \leavevmode%
3507     \hbox{%
3508         \if@RTL
3509         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3510         \else
3511         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3512         \fi
3513         \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3514         \end{beamercolorbox}%
3515         \if@RTL
3516         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3517         \else

```




```

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

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3529 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3530 \setbeamertemplate{progress bar in head/footer}{
3531 \nointerlineskip
3532 \setlength{\metropolis@progressinheadfoot}{%
3533 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}%
3534 }%
3535 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/footer}
3536 \begin{tikzpicture}
3537 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3538 \if@RTLmain
3539 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \met
3540 \else
3541 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinhead
3542 \fi
3543 \end{tikzpicture}%
3544 \end{beamercolorbox}
3545 }
3546
3547 \AtBeginDocument{%
3548 \setbeamertemplate{frametitle}[plain]%
3549 }
3550
3551

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3552 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3553 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3554
3555 \defbeamertemplate*{headline}{miniframes theme}
3556 {%
3557 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3558 \end{beamercolorbox}
3559 \begin{beamercolorbox}{section in head/footer}
3560 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3561 \end{beamercolorbox}%
3562 \ifbeamer@theme@subsection%
3563 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3564 \end{beamercolorbox}
3565 \if@RTL

```



```

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

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3580 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for
3581 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3582
3583 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3584
3585 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3586
3587 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3588
3589 \ifdim\beamer@headheight>0pt
3590
3591 \defbeamertemplate*{frametitle}{sidebar theme}
3592 {%
3593 \nointerlineskip%
3594 \ifbeamer@plainframe%
3595 \hbox{\usebeamercolor[bg]{frametitle}%
3596 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3597 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3598 \nointerlineskip%
3599 \fi%
3600 \vskip-\beamer@headheight%
3601 \vbox to \beamer@headheight{%
3602 \vfil
3603 \bidi@beamer@leftskip=-\beamer@leftmargin%
3604 \advance\bidi@beamer@leftskip by0.3cm%
3605 \bidi@beamer@rightskip=-\beamer@rightmargin%
3606 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3607 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par
3608 \ifx\insertframesubtitle\@empty\else%
3609 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframes
3610 \fi%
3611 \vbox{}}%
3612 \vskip-1em%
3613 \vfil
3614 }%
3615 }
3616

```



```

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

```



```

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

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3700 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for be
3701 \bidi@csundef{beamer@@tmpop@footline@split theme}
3702
3703 \defbeamertemplate*{footline}{split theme}
3704 {%
3705 \leavevmode%
3706 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm p
3707 \else
3708 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightsk
3709 \fi
3710 \usebeamerfont{author in head/foot}\insertshortauthor
3711 \end{beamercolorbox}%
3712 \if@RTL
3713 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3714 \else
3715 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm
3716 \fi
3717 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor
3718 \end{beamercolorbox}}%
3719 \vskip0pt%
3720 }
3721

```



3722

39 File beamerouterthemeshadow-xetex-bidi.def

```
3723 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for b
3724 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitles
3725   color(0pt)=(frametitle right.bg);
3726   color(\paperwidth)=(frametitle.bg)
3727 }
3728
3729 \newcommand*{\bidi@beamer@frametitleshade}{%
3730   \if@RTLmain
3731     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3732   \else
3733     \pgfuses shading{beamer@frametitleshade}%
3734   \fi
3735 }
3736
3737 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3738
3739 \defbeamertemplate*{frametitle}{shadow theme}
3740 {%
3741   \nointerlineskip%
3742   \vskip-2pt%
3743   \hbox{\leavevmode
3744     \advance\beamer@leftmargin by -12bp%
3745     \advance\beamer@rightmargin by -12bp%
3746     \beamer@tempdim=\textwidth%
3747     \advance\beamer@tempdim by \beamer@leftmargin%
3748     \advance\beamer@tempdim by \beamer@rightmargin%
3749     \hskip-\Gm@lmargin\hbox{%
3750       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3751         \vbox{\vskip-.75ex%
3752           \bidi@beamer@leftskip0.3cm%
3753           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3754           \bgroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertfram
3755           \ifx\insertframesubtitle\empty\else%
3756             {\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\insertframes
3757           \fi%
3758           \nointerlineskip
3759           \vbox{}}%
3760         \end{minipage}}}%
3761       \beamer@tempdim=\ht\beamer@tempbox%
3762       \advance\beamer@tempdim by 2pt%
3763       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3764         \begin{pgfscope}
3765           \pgfsetfillcolor{black}%
3766           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3767           \pgfsetfading{beamer@topshadowmask}{}%
3768           \pgfusepath{fill}%
3769         \end{pgfscope}
3770         \begin{pgfscope}
3771           \usebeamercolor{frametitle right}%
3772           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
```



```

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

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3790 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3791 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3792
3793 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3794
3795 \defbeamertemplate*{headline}{smoothbars theme}
3796 {%
3797     \pgfuses shading{beamer@barshade}%
3798     \vskip-0.05ex%
3799     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3800     \begin{pgfpicture}
3801         \begin{pgfscope}%
3802             \ifbeamer@sb@subsection%
3803                 \pgfsetfillcolor{subsection in head/foot.bg}%
3804             \else%
3805                 \pgfsetfillcolor{section in head/foot.bg}%
3806             \fi%
3807             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3808             \pgfsetfading{beamer@belowframetitlemask}{}%
3809             \pgfusepath{fill}%
3810         \end{pgfscope}%
3811     \end{pgfpicture}%
3812     \end{beamer colorbox}%
3813     \ifbeamer@sb@subsection%
3814         \vskip-9.75ex%
3815     \else%
3816         \vskip-6.85ex%
3817     \fi%
3818     \begin{beamer colorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3819         \insertnavigation{\paperwidth}
3820     \end{beamer colorbox}%
3821     \ifbeamer@sb@subsection%
3822     \ifRTL
3823         \begin{beamer colorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%

```



```

3824     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3825 \else
3826 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3828 \fi
3829 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3830 \end{beamercolorbox}%
3831 \fi%
3832 }%
3833
3834 \defbeamertemplate*{frametitle}{smoothbars theme}
3835 {%
3836 \nointerlineskip%
3837 \vskip-0.19ex%
3838 \usebeamerfont{headline}%
3839 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3840 \pgfuses shading{beamer@aboveframetitle}%
3841 \end{beamercolorbox}%
3842 \vskip-1ex%
3843 \nointerlineskip%
3844 \ifRTL
3845 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{framet
3846 \else
3847 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{framet
3848 \fi
3849 \vskip0.5ex%
3850 \usebeamerfont*{frametitle}\strut\insertframetitle%
3851 \ifx\insertframesubtitle\@empty%
3852 \strut\par%
3853 \else
3854 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insert
3855 \fi%
3856 \usebeamerfont{headline}%
3857 \vskip0.05ex%
3858 \end{beamercolorbox}%
3859 \nointerlineskip%
3860 \vskip-0.05ex%
3861 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3862 \begin{pgfpicture}
3863 \begin{pgfscope}%
3864 \pgfsetfillcolor{frametitle.bg}%
3865 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3866 \pgfsetfading{beamer@belowframetitlemask}{}%
3867 \pgfusepath{fill}%
3868 \end{pgfscope}%
3869 \end{pgfpicture}%
3870 \end{beamercolorbox}%
3871 }
3872
3873 \AtBeginDocument{%
3874 \setbeamertemplate{frametitle}[smoothbars theme]%
3875 }
3876
3877

```



41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3878 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3879 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3880
3881 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3882
3883 \defbeamertemplate*{headline}{smoothtree theme}
3884 {%
3885   \pgfuseshading{beamer@treeshade}%
3886   \vskip-0.05ex%
3887   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3888     \begin{pgfpicture}
3889       \begin{pgfscope}%
3890         \pgfsetfillcolor{subsection in head/foot.bg}%
3891         \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3892         \pgfsetfading{beamer@belowframetitlemask}{}%
3893         \pgfusepath{fill}%
3894       \end{pgfscope}%
3895     \end{pgfpicture}%
3896   \end{beamercolorbox}%
3897   \vskip-9.15ex%
3898   \if@RTL
3899     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3900       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3901   \else
3902     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3904   \fi
3905     \usebeamerfont{title in head/foot}\insertshorttitle
3906   \end{beamercolorbox}
3907   \if@RTL
3908     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3909       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3910   \else
3911     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3913   \fi
3914     \usebeamerfont{section in head/foot}%
3915     \hskip6pt\insertsectionhead
3916   \end{beamercolorbox}
3917   \if@RTL
3918     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3920   \else
3921     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3923   \fi
3924     \usebeamerfont{subsection in head/foot}%
3925     \hskip12pt\insertsubsectionhead
3926   \end{beamercolorbox}
3927   \vskip-0.4ex%
3928 }
3929

```




```

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

```

42 File beamerouterthemetree-xetex-bidi.def

```

3973 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3974 \bidi@csundef{beamer@tmpop@headline@tree theme}
3975
3976 \defbeamertemplate*{headline}{tree theme}
3977 {%
3978   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3979   \end{beamercolorbox}
3980   \if@RTL

```



```

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

```

43 File beamerthemeHannover-xetex-bidi.def



```

4032 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beam
4033 \AtBeginDocument{%
4034   \if@RTLmain
4035     \setbeamertemplate{frametitle}[default][left]%
4036   \else
4037     \setbeamertemplate{frametitle}[default][right]%
4038   \fi
4039 }
4040
4041

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4042 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for bea
4043 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
4044
4045 \beamertemplatedotitem
4046
4047 \AtBeginDocument{%
4048   \setbeamertemplate{frametitle}[default][center]%
4049 }
4050
4051

```

45 File bidi.sty

```

4052 \NeedsTeXFormat{LaTeX2e}
4053 \def\bidiidate{2025/09/26}
4054 \def\bidi@version{25.09.26}
4055 \def\bidi@releasename{Iran}
4056 \newcommand*{\bidi@releasename}{\bidi@releasename}
4057 \ProvidesPackage{bidi}[\bidiidate\space v\bidi@version\space (Release \bidi@releasename)\spa
4058 Bidirectional typesetting in plain TeX and LaTeX]
4059 \newif\if@bidi@banner
4060 \newif\if@bidi@pdfbanner
4061 \newif\iffootdir@debug
4062 \newif\if@extrafootnotefeatures
4063 \newif\if@nonlatin
4064 \newif\if@bidi@pdfm@mark
4065 \newif\if@bidi@perpage@footnote
4066 \ExplSyntaxOn
4067 \msg_new:nnn {bidi} {cannot-use-engine}
4068 {
4069   Oops!~can~not~use~\c_sys_engine_str.\\\
4070   The~bidi~package~requires~XeTeX.
4071 }
4072 \sys_if_engine_xetex:F
4073 {
4074   \msg_fatal:nn {bidi} {cannot-use-engine}
4075 }
4076
4077 \keys_define:nn { bidi }
4078 {
4079   banner .choice: ,

```



```

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

```



```

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

```



```

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

```



```

4242 \newif\if@bidi@pdfencrypt
4243 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4244 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4245 \newif\if@RTLmarginpar
4246 \newif\if@LTRmarginpar
4247 \newif\if@LTRbibitems
4248 \newif\if@RTLbibitems
4249 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4250 \newif\if@bidi@list@minipage@parbox
4251 \newif\if@bidi@list@minipage@parbox@not@nob
4252 \newcommand*{\@bidi@pdfcreator}{%
4253   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4254 }
4255 \newcommand*{\@bidi@pdfproducer}{%
4256   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4257 }
4258 \newcommand*{\@bidi@pdfcustomproperties}{%
4259   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4260   Released September 26, 2025.
4261 }
4262 \newcommand*{\bidi@beamer@ragged}{%}
4263 \@RTLmainfalse
4264 \AtBeginDocument{%
4265   \if@RTLmain\else
4266     \if@RTL\@RTLmaintrue%
4267     \else\@RTLmainfalse%
4268     \fi%
4269   \fi%
4270 }
4271 \let\n@xt=\
4272 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4273 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4274 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4275 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4276 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4277   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4278 \newinsert\@bidi@copyins@
4279 \skip\@bidi@copyins@=12\p@
4280 \dimen\@bidi@copyins@=40pc
4281 \count\@bidi@copyins@=1000
4282 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4283 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4284   \if@RTLmain
4285     \if@twocolumn
4286       \hboxR to \columnwidth
4287     \else
4288       \hboxR to \textwidth
4289     \fi
4290   \else
4291     \if@twocolumn
4292       \hboxL to \columnwidth
4293     \else
4294       \hboxL to \textwidth
4295     \fi

```



```

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

```




```

4350 \ExplSyntaxOff
4351 \@onlypreamble\pdfencryptsetup
4352 \input{latex-xetex-bidi.def}
4353
4354 \pdfencryptsetup{%
4355   userpassword,%
4356   ownerpassword,%
4357   keylength,%
4358   permissionflags%
4359 }
4360
4361 \if@extrafootnotefeatures
4362 \input{extrafootnotefeatures-xetex-bidi.def}
4363 \fi
4364 \newcount\ bidi@digits
4365 \XeTeXinterchartokenstate=\@ne
4366 \newXeTeXintercharclass\ bidi@digits@charclass
4367 \newXeTeXintercharclass\ bidi@sepmark@charclass
4368 \XeTeXcharclass \. \ bidi@sepmark@charclass
4369 \XeTeXcharclass \- \ bidi@sepmark@charclass
4370 \ bidi@digits=\0 \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<10\relax
4371 \ bidi@digits=\ \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<256\relax
4372 \ bidi@digits=\ \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<65536\relax
4373 \XeTeXinterchartoks \ bidi@sepmark@charclass \ bidi@digits@charclass = {\DigitsDotDashInterCharToks}
4374 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4375 \ bidi@AtEndPreamble{%
4376   \if@bidi@perpage@footnote
4377     \RequirePackage{bidi-perpage}%
4378     \ResetCounterPerPage{footnote}%
4379   \fi
4380   \ifx\ bidi@pdfencrypt@ownerpassword\ bidi@empty
4381     \ifx\ bidi@pdfencrypt@userpassword\ bidi@empty
4382       \@bidi@pdfencryptfalse
4383     \else
4384       \@bidi@pdfencrypttrue
4385     \fi
4386   \else
4387     \@bidi@pdfencrypttrue
4388   \fi
4389   \if@bidi@pdfencrypt
4390     \special{pdf:encrypt
4391       userpw (\ bidi@pdfencrypt@userpassword)
4392       ownerpw (\ bidi@pdfencrypt@ownerpassword)
4393       length \ bidi@pdfencrypt@keylength
4394       perm \ bidi@pdfencrypt@permissionflags
4395     }%
4396   \fi
4397 }
4398 \if@bidi@pdfbanner
4399 \if@bidi@pdfm@mark
4400 \AtEndDocument{%
4401 \special{pdf:
4402 docinfo<<%
4403 /Creator(\@bidi@pdfcreator)%

```



```

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

```

46 File bidi.tex

```

4436 \def\biddate{2025/09/26}
4437 \catcode`\@=11
4438 \def\bidi@version{25.09.26}
4439 \def\bidi@releasename{Iran}
4440 \def\bidi@releasename{\bidi@releasename}
4441 \let \protect \relax
4442 \newlinechar`\^^J
4443 \edef\@bidi@info{*****~J%
4444 * ~J%
4445 * bidi package (Bidirectional typesetting with~J%
4446 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4447 * ~J%
4448 * Description: A convenient interface for~J%
4449 * typesetting bidirectional texts in plain TeX~J%
4450 * and LaTeX. The package includes adaptations~J%
4451 * for use with many other commonly-used packages.~J%
4452 * ~J%
4453 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4454 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%

```



```

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

```



```

4509 \hboxR to
4510 \else
4511 \hboxL to
4512 \fi
4513 }
4514 \def\@bidi@logo#1{%
4515 \toks@{%
4516 \setbox\z@\hbox{%
4517 \special{%
4518 pdf:image width 50pt height 50pt (#1)%
4519 }
4520 }%
4521 \dp\z@\z@
4522 \ht\z@=50pt
4523 \wd\z@=50pt
4524 \beginL
4525 \lower20pt\box\z@
4526 \endL
4527 }%
4528 \the\toks@
4529 }
4530 \def\today{\ifcase\month\or
4531 January\or February\or March\or April\or May\or June\or
4532 July\or August\or September\or October\or November\or December\fi
4533 \space\number\day, \number\year}
4534 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4535 \newcount\bidi@typesethour
4536 \newcount\bidi@typesetminute
4537 \bidi@typesethour=\time
4538 \divide\bidi@typesethour 60
4539 \bidi@typesetminute=-\bidi@typesethour
4540 \multiply\bidi@typesetminute 60
4541 \advance\bidi@typesetminute \time
4542 \def\TypesetHour{\two@digits\bidi@typesethour}
4543 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4544 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4545 \def\@bidi@logo@{\@bidi@logo@hb@xt@hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} b
4546 \def\bidi@logo@{\@bidi@inslogo@}
4547 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4548 \def\@bidi@pdfcreator{%
4549 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4550 }
4551 \def\@bidi@pdfproducer{%
4552 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4553 }
4554 \def\@bidi@pdfcustomproperties{%
4555 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4556 Released September 26, 2025.
4557 }
4558 \def\bidi@pdfm@mark{%
4559 \special{pdf:
4560 docinfo<<%
4561 \if\@bidi@pdfm@mark
4562 /Creator(\@bidi@pdfcreator)%

```



```

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

```

47 File bidi2in1.sty

```

4575 \NeedsTeXFormat{LaTeX2e}
4576 \ProvidesPackage{bidi2in1}
4577 \pagestyle{plain}
4578 \newcount\evenpage
4579 \newcount\oddpages
4580 \twocolumn
4581 \def\@oddfoot{\evenpage=\thepage%
4582 \multiply\evenpage by 2%
4583 \oddpages=\the\evenpage%
4584 \advance\oddpages by -1%
4585 \hfil\the\evenpage\hfil\hfil\the\oddpages\hfil}%
4586 \def\@evenfoot{\evenpage=\thepage%
4587 \multiply\evenpage by 2%
4588 \oddpages=\the\evenpage%
4589 \advance\oddpages by -1%
4590 \hfil\the\oddpages\hfil\hfil\the\evenpage\hfil}%
4591 \textwidth 9.49in
4592 \textheight 6.7in
4593 \columnsep 0.9in
4594 \columnseprule 0.125pt
4595 \headheight 0cm
4596 \topmargin 0in
4597 \marginparwidth 0in
4598 \marginparsep 0in
4599 \hoffset 0.05in % Corrected
4600 \voffset -0.5in %top margin space is 1.0in by default
4601 \oddsidemargin 0in
4602 \evensidemargin 0in
4603 \headsep 0cm
4604 \topskip 0cm
4605 \parskip 0.15in %
4606 \headsep 0pt
4607 \special{papersize=11.69in,8.26in}
4608 \renewcommand\maketitle{\par
4609 \begingroup
4610 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4611 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4612 \long\def\@makefntext##1{\parindent 1em\noindent
4613 \hb@xt@1.8em{

```



```

4614 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4615 \@maketitle
4616 \@thanks
4617 \endgroup
4618 \setcounter{footnote}{0}%
4619 \global\let\thanks\relax
4620 \global\let\maketitle\relax
4621 \global\let\@maketitle\relax
4622 \global\let\@thanks\@empty
4623 \global\let\@author\@empty
4624 \global\let\@date\@empty
4625 \global\let\@title\@empty
4626 \global\let\title\relax
4627 \global\let\author\relax
4628 \global\let\date\relax
4629 \global\let\and\relax
4630 }

```

48 File `bidicode.sty`

```

4631 \NeedsTeXFormat{LaTeX2e}
4632 \ProvidesPackage{bidicode}
4633 \RequirePackage{xcolor}
4634 \RequirePackage{showexpl}
4635 \definecolor{hellgelb}{rgb}{1,1,0.85}
4636 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4637 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4638 \definecolor{colIdentifier}{rgb}{0,0,0}
4639 \definecolor{colComments}{rgb}{1,0,0}
4640 \definecolor{colString}{rgb}{0,0.5,0}
4641 \lstset{%
4642     language=[LaTeX]TeX,%
4643     float=hbp,%
4644     basicstyle=\ttfamily\small,%
4645     identifierstyle=\color{colIdentifier},%
4646     keywordstyle=\color{colKeys},%
4647     texcsstyle=\color{colCS},%
4648     stringstyle=\color{colString},%
4649     commentstyle=\color{colComments},%
4650     backgroundcolor=\color{hellgelb},%
4651     columns=flexible,%
4652     tabsize=4,%
4653     extendedchars=true,%
4654     showspace=false,%
4655     showstringspaces=false,%
4656     numbers=left,%
4657     numbersep=0.9em,%
4658     numberstyle=\tiny,%
4659     frame=single,%
4660     captionpos=b,%
4661     xleftmargin=1em,%
4662     breaklines=true,%
4663     breakautoindent=false,%
4664     breakindent=0pt,%

```



```

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

```



```

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

```




```

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

```

49 File bidiftnxtra.sty

```

4810 \NeedsTeXFormat{LaTeX2e}
4811 \ProvidesPackage{bidiftnxtra}
4812 \newtoks\bidip@ftn
4813 \let\FN@sff@footnote\footnote
4814 \let\FN@sff@LTRfootnote\LTRfootnote
4815 \let\FN@sff@RTLfootnote\RTLfootnote
4816 \def\footnote{\ifx\protect\@typeset@protect
4817   \expandafter\FN@sff@footnote
4818   \else
4819     \expandafter\FN@sff@gobble@opt
4820   \fi
4821 }
4822 \def\LTRfootnote{\ifx\protect\@typeset@protect
4823   \expandafter\FN@sff@LTRfootnote

```



```

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

```



```

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

```



```

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

```



```

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

```

50 File bidimoderncv.cls

```

5002 \NeedsTeXFormat{LaTeX2e}
5003 \ProvidesClass{bidimoderncv}
5004 \newif\if@DEBUG\@DEBUGfalse
5005 \DeclareOption{a4paper}{
5006 \setlength\paperheight{297mm}
5007 \setlength\paperwidth{210mm}}
5008 \DeclareOption{a5paper}{
5009 \setlength\paperheight{210mm}
5010 \setlength\paperwidth{148mm}}
5011 \DeclareOption{b5paper}{
5012 \setlength\paperheight{250mm}
5013 \setlength\paperwidth{176mm}}
5014 \DeclareOption{letterpaper}{
5015 \setlength\paperheight{11in}
5016 \setlength\paperwidth{8.5in}}
5017 \DeclareOption{legalpaper}{
5018 \setlength\paperheight{14in}
5019 \setlength\paperwidth{8.5in}}
5020 \DeclareOption{executivepaper}{
5021 \setlength\paperheight{10.5in}
5022 \setlength\paperwidth{7.25in}}
5023 \DeclareOption{landscape}{
5024 \setlength\@tempdima{\paperheight}
5025 \setlength\paperheight{\paperwidth}
5026 \setlength\paperwidth{\@tempdima}}
5027 \newcommand\@ptsize{}
5028 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5029 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5030 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5031 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5032 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5033 \newif\if@colour\@colourtrue
5034 \DeclareOption{nocolour}{\@colourfalse}
5035 \ExecuteOptions{a4paper,11pt,colour,final}
5036 \ProcessOptions\relax

```



```

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

```



```

5091 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5092 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5093 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5094 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5095 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5096 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5097 \providecommand*\{firstnamedfont\}{}
5098 \providecommand*\{familynamedfont\}{}
5099 \providecommand*\{titlefont\}{}
5100 \providecommand*\{addressfont\}{}
5101 \providecommand*\{quote\font\}{}
5102 \providecommand*\{sectionfont\}{}
5103 \providecommand*\{subsectionfont\}{}
5104 \providecommand*\{hintfont\}{\small}
5105 \providecommand*\{firstnamedstyle\}[1]{\{firstnamedfont\@firstnamedcolour#1}}
5106 \providecommand*\{familynamedstyle\}[1]{\{familynamedfont\@familynamedcolour#1}}
5107 \providecommand*\{titlestyle\}[1]{\{titlefont\@titlecolour#1}}
5108 \providecommand*\{addresstyle\}[1]{\{addressfont\@addresscolour#1}}
5109 \providecommand*\{quotestyle\}[1]{\{quote\font\@quotecolour#1}}
5110 \providecommand*\{sectionstyle\}[1]{\{sectionfont\@sectiontitlecolour#1}}
5111 \providecommand*\{subsectionstyle\}[1]{\{subsectionfont\@subsectioncolour#1}}
5112 \providecommand*\{hintstyle\}[1]{\{hintfont\@hintcolour#1}}
5113 \newcommand*\{cvtheme\}[2][]{
5114   \def\@cvtheme{#2}
5115   \def\@cvthemeoptions{#1}}
5116 \cvtheme{bidi-casual}
5117 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5118 \newcommand*\{resumename\}[1]{\def\@resumename{#1}}
5119 \newcommand*\{firstname\}[1]{\def\@firstname{#1}}
5120 \newcommand*\{familyname\}[1]{\def\@familyname{#1}}
5121 \renewcommand*\{title\}[1]{\def\@title{#1}}
5122 \newcommand*\{address\}[1]{\def\@address{#1}}
5123 \newcommand*\{mobile\}[1]{\def\@mobile{#1}}
5124 \newcommand*\{phone\}[1]{\def\@phone{#1}}
5125 \renewcommand*\{fax\}[1]{\def\@fax{#1}}
5126 \newcommand*\{email\}[1]{\def\@email{#1}}
5127 \newcommand*\{extrainfo\}[1]{\def\@extrainfo{#1}}
5128 \def\@photowidth{0pt}
5129 \newcommand*\{photo\}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5130 \newcommand*\{quote\}[1]{\def\@quote{#1}}
5131 \newlength{\quotewidth}
5132 \newlength{\hintscolumnwidth}
5133 \newlength{\separatorcolumnwidth}
5134 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5135 \newlength{\maincolumnwidth}
5136 \newlength{\doubleitemmaincolumnwidth}
5137 \newlength{\listitemsymbolwidth}
5138 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}
5139 \newlength{\listitemmaincolumnwidth}
5140 \newlength{\listdoubleitemmaincolumnwidth}
5141 \newcommand*\{recomputethemelengths\}{}
5142 \newcommand*\{recomputelengths\}{%
5143 \setlength{\quotewidth}{0.65\textwidth}%
5144 \setlength{\maincolumnwidth}{\textwidth}%

```



```

5145 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5146 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5147 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5148 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5149 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5150 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5151 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5152 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5153 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5154 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5155 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5156 \renewcommand{\headwidth}{\textwidth}%
5157 \recomputethemelengths}
5158 \setlength{\hintscolumnwidth}{0.15\textwidth}
5159 \recomputelengths
5160 \title{}
5161 \renewcommand*{\maketitle}{}
5162 \newcommand*{\section}[1]{%
5163 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5164 \phantomsection}%
5165 \addcontentsline{toc}{part}{#1}%
5166 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5167 \hspace{\separatorcolumnwidth}%
5168 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5169 \newcommand*{\subsection}[1]{%
5170 \cvline[0.45em]{\subsectionstyle{#1}}
5171 \newcommand*{\cvline}[3][.25em]{%
5172 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5173 \bidi@raggedleft\hintfont{#2} &{#3}%
5174 \end{tabular}\[\[1]}
5175 \newcommand*{\cvdoublingitem}[4]{%
5176 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5177 \hfill%
5178 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5179 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5180 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5181 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5182 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5183 \hfill%
5184 \ifthenelse{\equal{#3}{}}{
5185 {}%
5186 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5187 \newcommand*{\cventry}[6]{%
5188 \cvline{#1}{%
5189 {\bfseries#2}%
5190 \ifx#3\else{, {\slshape#3}}\fi%
5191 \ifx#4\else{, #4}\fi%
5192 \ifx#5\else{, #5}\fi%
5193 .%
5194 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5195 }%
5196 \newcommand*{\cvlanguage}[3]{%
5197 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
5198 \newcommand*{\cvcomputer}[4]{%

```




```

5199 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5200 \newcommand*{\link}[2] [] {%
5201 \ifthenelse{\equal{#1}{}}{%
5202 {\href{#2}{#2}}%
5203 {\href{#2}{#1}}}
5204 \newcommand*{\httplink}[2] [] {%
5205 \ifthenelse{\equal{#1}{}}{%
5206 {\href{http://#2}{#2}}%
5207 {\href{http://#2}{#1}}}
5208 \newcommand*{\emaillink}[2] [] {%
5209 \ifthenelse{\equal{#1}{}}{%
5210 {\href{mailto:#2}{#2}}%
5211 {\href{mailto:#2}{#1}}}
5212 \newif\if@displaypagenumbers\@displaypagenumberstrue
5213 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5214 \AtBeginDocument{%
5215 \if@displaypagenumbers%
5216 \ifundefined{r@lastpage}{\fi}%
5217 \ifthenelse{\pageref{lastpage} > 1}{%
5218 \fancypagestyle{plain}{%
5219 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pa
5220 \pagestyle{plain}}}%}%
5221 \AtEndDocument{\label{lastpage}}%
5222 \fi}
5223 \newlength{\bibindent}
5224 \setlength{\bibindent}{1.5em}
5225 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5226 \newenvironment{thebibliography}[1]%
5227 {%
5228 \section{\refname}%
5229 \small%
5230 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5231 \bidi@thebibliography@font@hook%
5232 \begin{list}{\bibliographyitemlabel}%
5233 {%
5234 \setlength{\topsep}{0pt}%
5235 \setlength{\labelwidth}{\hintscolumnwidth}%
5236 \setlength{\labelsep}{\separatorcolumnwidth}%
5237 \leftmargin\labelwidth%
5238 \advance\leftmargin\labelsep%
5239 \@openbib@code%
5240 \usecounter{enumiv}%
5241 \let\p@enumiv\@empty%
5242 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5243 \sloppy\clubpenalty4000\widowpenalty4000
5244 }%
5245 {%
5246 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5247 \end{list}%
5248 }
5249 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5250 \let\@openbib@code\@empty

```



51 File bidi-perpage.sty

```

5251 \NeedsTeXFormat{LaTeX2e}
5252 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5253 \newcommand*{\bidi@checkvlist}{%
5254   \ifcase
5255     \ifvmode
5256       \ifx\lastnodetype\bidi@undefined
5257         \ifdim-\@m\p@=\prevdepth
5258           \ifdim\lastskip=\z@
5259             \ifnum\lastpenalty=\z@
5260               \@ne
5261             \fi
5262           \fi
5263         \fi
5264       \else
5265         \ifnum\lastnodetype=\m@ne
5266           \@ne
5267         \fi
5268       \fi
5269     \fi
5270     \z@
5271   \or
5272     \PackageWarning{bidi-perpage}{%
5273       '\string\stepcounter' is probably at the beginning of vertical
5274       list.
5275       You may need to use '\string\leavevmode' before it to avoid
5276       vertical shifts%
5277     }%
5278   \fi
5279 }
5280 \newcount\bidi@page@count
5281 \bidi@page@count\@ne
5282 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5283   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5284     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5285     }%
5286   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5287     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5288   }%
5289   \if@bidi@csundef\bidi@#2@count}{%
5290     \expandafter\newcount\csname bidi@#2@count\endcsname
5291   }%
5292   \csname bidi@#2@count\endcsname\z@
5293   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5294     \expandafter\newcount\csname
5295       bidi@previous@page@#2@count\endcsname
5296   }%
5297   \csname bidi@previous@page@#2@count\endcsname\z@
5298   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5299     \bidi@AfterEndDocumentCheckLabelsRerun{%
5300       \csname if@bidi@reset@#2@rerun\endcsname
5301       \PackageWarningNoLine{bidi-perpage}{%
5302         Counter `#2' may not have been reset per page.

```



```

5303         Rerun to reset counter `#2' per page%
5304     }%
5305 \fi
5306 }%
5307 }{}%
5308 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5309     \global\advance\csname bidi@#2@count\endcsname\@ne
5310     \if@filesw
5311         \edef\@tempa{%
5312             \write\@auxout{%
5313                 \string\bidi@counter@page{#2}%
5314                 {\number\csname bidi@#2@count\endcsname}%
5315                 {\noexpand\number\noexpand\bidi@page@count}%
5316             }%
5317         }%
5318         \bidi@checkvlist
5319         \dimen@=\lastkern
5320         \ifdim\dimen@=\z@
5321             \else
5322                 \unkern
5323             \fi
5324             \count@=\lastpenalty
5325             \@tempa
5326             \ifdim\dimen@=\z@
5327                 \penalty
5328                 \ifnum\count@<\@M
5329                     \@M
5330                 \else
5331                     \count@
5332                 \fi
5333             \else
5334                 \kern\dimen@
5335             \fi
5336         \fi
5337     \begin@group\expandafter\expandafter\expandafter\endgroup
5338     \expandafter\ifx\csname bidi@#2@@\number\csname
5339         bidi@#2@count\endcsname\endcsname\relax
5340         \global\csname @bidi@reset@#2@reruntrue\endcsname
5341     \else
5342         \global\csname @bidi@reset@#2@rerunfalse\endcsname
5343         \expandafter\@tempcnta\csname bidi@#2@@\number
5344         \csname bidi@#2@count\endcsname\endcsname\relax
5345         \ifnum\@tempcnta=\csname
5346             bidi@previous@page@@#2@count\endcsname
5347         \else
5348             \global\csname
5349                 bidi@previous@page@@#2@count\endcsname\@tempcnta
5350             \global\csname c@#2\endcsname#1\relax
5351         \fi
5352     \fi
5353 }%
5354 \expandafter\bidi@gappto\csname
5355     bidi@stepcounterhook@@#2\endcsname{%
5356     \csname bidi@reset@#2@perpage\endcsname

```



```

5357 }%
5358 }
5359 \def\ bidi@counter@page#1#2#3{\ bidi@namegdef{\ bidi@#1@@#2}{#3}}
5360 \ bidi@AtEndOutputPage{%
5361   \global\advance\ bidi@page@count\@ne
5362 }

```

52 File biditools.sty

```

5363 \NeedsTeXFormat{LaTeX2e}
5364 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5365 \providecommand{\@ bidi@saveprimitive}[2]{\ begingroup\ escapechar`\relax
5366   \edef\@tempa{\ string#1}\edef\@tempb{\ meaning#1}%
5367   \ifx\@tempa\@tempb \global\let#2#1%
5368   \else
5369     \edef\@tempb{\ meaning#2}%
5370     \ifx\@tempa\@tempb
5371     \else
5372       \@latex@error{Unable to properly define \ string#2; primitive
5373       \noexpand#1no longer primitive}\@eha
5374     \fi
5375   \fi
5376   \endgroup}
5377 \newtoks\@ bidi@envbody
5378 \newtoks\@ bidi@emptytoks
5379 \def\ bidi@addto@envbody#1{\global\@ bidi@envbody\ expandafter{\ the\@ bidi@envbody#1}}
5380 \def\ bidi@collect@body#1{%
5381   \@ bidi@envbody{\ expandafter#1\ expandafter{\ the\@ bidi@envbody}}}%
5382   \edef\ bidi@process@envbody{\ the\@ bidi@envbody\noexpand\end{\@ currentvir}}}%
5383   \@ bidi@envbody\@ bidi@emptytoks \def\ begin@ bidi@stack{b}%
5384   \begingroup
5385   \expandafter\let\ csname\@ currentvir\endcsname\ bidi@collect@@body
5386   \edef\ bidi@process@envbody{\ expandafter\noexpand\ csname\@ currentvir\endcsname}%
5387   \ bidi@process@envbody
5388 }
5389 \def\ bidi@push@begins#1\ begin#2{%
5390   \ifx\end#2\else b\ expandafter\ bidi@push@begins\fi
5391 }
5392 \def\ bidi@collect@@body#1\end#2{%
5393   \edef\ begin@ bidi@stack{\ bidi@push@begins#1\ begin\end \ expandafter\@ gobble\ begin@ bidi@stack
5394   \ifx\@empty\ begin@ bidi@stack
5395     \endgroup
5396     \@checkend{#2}%
5397     \ bidi@addto@envbody{#1}%
5398   \else
5399     \ bidi@addto@envbody{#1\end{#2}}}%
5400   \fi
5401   \ bidi@process@envbody % A little tricky! Note the grouping
5402 }
5403 \long\def\ bidi@addto@long@envbody#1{\global\@ bidi@envbody\ expandafter{\ the\@ bidi@envbody#1}}
5404 \long\def\ bidi@collect@long@body#1{%
5405   \@ bidi@envbody{\ expandafter#1\ expandafter{\ the\@ bidi@envbody}}}%
5406   \edef\ bidi@process@envbody{\ the\@ bidi@envbody\noexpand\end{\@ currentvir}}}%
5407   \@ bidi@envbody\@ bidi@emptytoks \def\ begin@ bidi@stack{b}%

```



```

5408 \begingroup
5409 \expandafter\let\csname\@currenvir\endcsname\bidicollect@long@@body
5410 \edef\bidiprocess@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5411 \bidiprocess@envbody
5412 }
5413 \long\def\bidipush@long@begins#1\begin#2{%
5414 \ifx\end#2\else b\expandafter\bidipush@long@begins\fi
5415 }
5416 \long\def\bidicollect@long@@body#1\end#2{%
5417 \edef\begin@bidi@stack{\bidipush@long@begins#1\begin\end \expandafter\@gobble\begin@bidi
5418 \ifx\@empty\begin@bidi@stack
5419 \endgroup
5420 \@checkend{#2}%
5421 \bidicollect@long@envbody{#1}%
5422 \else
5423 \bidicollect@long@envbody{#1\end{#2}}%
5424 \fi
5425 \bidiprocess@envbody % A little tricky! Note the grouping
5426 }
5427 \long\def\bidinew@ifnextchar#1#2#3{%
5428 \let\reserved@d= #1%
5429 \def\reserved@a{#2}\def\reserved@b{#3}%
5430 \futurelet\@let@token\bidinew@ifnch
5431 }
5432 \def\bidinew@ifnch{%
5433 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5434 \reserved@b
5435 }
5436 \def\bidimatrix@check#1{%
5437 \expandafter\ifx\csname\@currenvir\endcsname#1%
5438 \else\bidimatrix@error#1%
5439 \expandafter\@gobble
5440 \fi
5441 }
5442 \def\bidimatrix@error#1{%
5443 \PackageError{biditools}{%
5444 Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5445 }{%
5446 '\string#1{...}' is old bidi package syntax whose use is
5447 ill-advised in the old versions of bidi package.%
5448 }%
5449 }
5450 \def\eqnewif#1#2{%
5451 \count@\escapechar \escapechar\m@ne
5452 \let#1\iffalse
5453 \let#2\iffalse
5454 \eq@if#1#2\iftrue
5455 \eq@if#1#2\iffalse
5456 \escapechar\count@}
5457 \def\eq@if#1#2#3{%
5458 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5459 \expandafter\@gobbletwo\string#3\endcsname
5460 {\let#1#3%
5461 \let#2#3}%

```



```

5462 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5463 \expandafter\@gobbletwo\string#3\endcsname
5464 {\let#2#3%
5465 \let#1#3}}
5466 \def\noteqnewif#1#2{%
5467 \count@\escapechar \escapechar\m@ne
5468 \let#1\iffalse
5469 \let#2\iffalse
5470 \not@eq@if#1#2\iftrue\iffalse
5471 \escapechar\count@}
5472 \def\not@eq@if#1#2#3#4{%
5473 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5474 \expandafter\@gobbletwo\string#3\endcsname
5475 {\let#1#3%
5476 \let#2#4}%
5477 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5478 \expandafter\@gobbletwo\string#4\endcsname
5479 {\let#1#4%
5480 \let#2#3}%
5481 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5482 \expandafter\@gobbletwo\string#3\endcsname
5483 {\let#2#3%
5484 \let#1#4}%
5485 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5486 \expandafter\@gobbletwo\string#4\endcsname
5487 {\let#2#4%
5488 \let#1#3}}
5489 \newcommand*\SetBoolean}[2]{%
5490 \lowercase{\def\@tempa{#2}}%
5491 \@ifundefined{@tempa}{%
5492 {\PackageError{biditools}%
5493 {You can only set a boolean to `true' or `false'}\@ehc}%
5494 {\@ifundefined{#1\@tempa}%
5495 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5496 {\csname#1\@tempa\endcsname}}}%
5497 \newcommand*\GlobalSetBoolean}[2]{%
5498 \lowercase{\def\@tempa{#2}}%
5499 \@ifundefined{@tempa}{%
5500 {\PackageError{biditools}%
5501 {You can only set a boolean to `true' or `false'}\@ehc}%
5502 {\@ifundefined{#1\@tempa}%
5503 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5504 {\global\csname#1\@tempa\endcsname}}}%
5505 \newcommand*\SetatBoolean}[2]{%
5506 \lowercase{\def\@tempa{#2}}%
5507 \@ifundefined{@tempa}{%
5508 {\PackageError{biditools}%
5509 {You can only set a boolean to `true' or `false'}\@ehc}%
5510 {\@ifundefined{@#1\@tempa}%
5511 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5512 {\csname @#1\@tempa\endcsname}}}%
5513 \newcommand*\GlobalSetatBoolean}[2]{%
5514 \lowercase{\def\@tempa{#2}}%
5515 \@ifundefined{@tempa}{%

```



```

5516 {\PackageError{biditools}%
5517 {You can only set a boolean to `true' or `false'}\@ehc}%
5518 {\@ifundefined{@#1\@tempa}%
5519 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5520 {\global\csname @#1\@tempa\endcsname}}}}
5521 \def\@bidi@removefromreset#1#2{%
5522 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5523 \def\@elt##1{%
5524 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5525 \else
5526 \noexpand\@elt{##1}%
5527 \fi}%
5528 \expandafter\xdef\csname cl@#2\endcsname{%
5529 \csname cl@#2\endcsname}}}}
5530 \newcommand*{\ifRtoL}{%
5531 \if@RTL
5532 \expandafter\@firstoftwo
5533 \else
5534 \expandafter\@secondoftwo
5535 \fi}
5536 \newcommand*{\ifLtoR}{%
5537 \if@RTL
5538 \expandafter\@secondoftwo
5539 \else
5540 \expandafter\@firstoftwo
5541 \fi}
5542 \newcommand*{\ifRtoLtable}{%
5543 \if@RTLtab
5544 \expandafter\@firstoftwo
5545 \else
5546 \expandafter\@secondoftwo
5547 \fi}
5548 \newcommand*{\ifLtoRtable}{%
5549 \if@RTLtab
5550 \expandafter\@secondoftwo
5551 \else
5552 \expandafter\@firstoftwo
5553 \fi}
5554 \newcommand*{\ifRtoLhboxconstruct}{%
5555 \if@hboxRconstruct
5556 \expandafter\@firstoftwo
5557 \else
5558 \expandafter\@secondoftwo
5559 \fi}
5560 \newcommand*{\ifLtoRhboxconstruct}{%
5561 \if@hboxRconstruct
5562 \expandafter\@secondoftwo
5563 \else
5564 \expandafter\@firstoftwo
5565 \fi}
5566 \newcommand*{\iflatin}{%
5567 \if@nonlatin
5568 \expandafter\@secondoftwo
5569 \else

```



```

5570     \expandafter\@firstoftwo
5571     \fi}
5572 \newcommand*{\ifnonlatin}{%
5573     \ifnonlatin
5574     \expandafter\@firstoftwo
5575     \else
5576     \expandafter\@secondoftwo
5577     \fi}
5578
5579 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5580     \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5581
5582 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5583     \dimexpr #1*65536/\dimexpr 1pt\relax}
5584
5585 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5586     \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5587 }
5588 \newcommand*{\@if@ver@pkg@least}[2]{%
5589     \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5590     \expandafter\@secondoftwo
5591     \else
5592     \expandafter\@firstoftwo
5593     \fi
5594 }
5595 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5596 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5597     \if\relax#2\relax\else#1\fi#2#3#4
5598 }
5599 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5600     \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5601 }
5602 \newcommand*{\@if@ver@pkg@most}[2]{%
5603     \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5604     \expandafter\@secondoftwo
5605     \else
5606     \expandafter\@firstoftwo
5607     \fi
5608 }
5609 \newcommand*{\IfPackageVersionTF}[1]{%
5610     \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5611 }
5612 \newcommand*{\@if@ver@pkg@}[2]{%
5613     \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5614     \expandafter\@firstoftwo
5615     \else
5616     \expandafter\@secondoftwo
5617     \fi
5618 }
5619
5620 \newcommand*{\if@bidi@csdef}[1]{%
5621     \ifcsname#1\endcsname
5622     \expandafter\@firstoftwo
5623     \else

```




```

5624 \expandafter\@secondoftwo
5625 \fi}
5626 \newcommand*\if@bidi@csundef}[1]{%
5627 \ifcsname#1\endcsname
5628 \expandafter\ifx\csname#1\endcsname\relax
5629 \expandafter\expandafter
5630 \expandafter\@firstoftwo
5631 \else
5632 \expandafter\expandafter
5633 \expandafter\@secondoftwo
5634 \fi
5635 \else
5636 \expandafter\@firstoftwo
5637 \fi}
5638 \newcommand{\if@bidi@def}[1]{%
5639 \ifdefined#1%
5640 \expandafter\@firstoftwo
5641 \else
5642 \expandafter\@secondoftwo
5643 \fi}
5644 \newcommand{\if@bidi@undef}[1]{%
5645 \ifdefined#1%
5646 \ifx#1\relax
5647 \expandafter\expandafter
5648 \expandafter\@firstoftwo
5649 \else
5650 \expandafter\expandafter
5651 \expandafter\@secondoftwo
5652 \fi
5653 \else
5654 \expandafter\@firstoftwo
5655 \fi}
5656 \newcommand{\if@bidi@blank}[1]{% from url.sty
5657 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5658 \long\def\bidi@ifblank@i#1#2&#3#4#5:#{#4}
5659 \newcommand{\bidi@notblank}[1]{%
5660 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5661 \newcommand{\if@bidi@defmacro}{%
5662 \long\edef\if@bidi@defmacro#1{%
5663 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5664 \noexpand\meaning#1\detokenize{macro}:&}
5665 \edef\bidi@ifdefmacro{%
5666 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5667 \bidi@ifdefmacro{\bidi@notblank{#2}}
5668 \newcommand*\if@bidi@csmacro}[1]{%
5669 \if@bidi@csdef{#1}
5670 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5671 {\@secondoftwo}}
5672 \newcommand{\if@bidi@defprimitive}[1]{%
5673 \ifprimitive#1%
5674 \expandafter\@firstoftwo
5675 \else
5676 \expandafter\@secondoftwo
5677 \fi}

```



```

5678 \newcommand{\if@bidi@csprimitive}[1]{%
5679 \begingroup\expandafter\expandafter\expandafter\endgroup%
5680 \expandafter\ifprimitive\csname#1\endcsname%
5681 \expandafter\@firstoftwo
5682 \else
5683 \expandafter\@secondoftwo
5684 \fi}
5685 \newcommand*{\bidi@csdefcs}[2]{%
5686 \expandafter\@ifdefinable \csname#1\endcsname{%
5687 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5688 \newcommand*{\bidi@csletcs}[2]{%
5689 \expandafter\@ifdefinable \csname#1\endcsname{%
5690 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5691 \newcommand*{\bidi@cslet}[2]{%
5692 \expandafter\@ifdefinable \csname#1\endcsname{%
5693 \expandafter\let\csname#1\endcsname#2}}
5694 \newcommand{\bidi@namelongdef}[1]{%
5695 \long\expandafter\def\csname #1\endcsname}
5696 \newcommand{\bidi@namelonggdef}[1]{%
5697 \long\expandafter\gdef\csname #1\endcsname}
5698 \newcommand{\bidi@namelongedef}[1]{%
5699 \long\expandafter\edef\csname #1\endcsname}
5700 \newcommand{\bidi@namelongxdef}[1]{%
5701 \long\expandafter\xdef\csname #1\endcsname}
5702 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5703 \def\bidi@ensure@new@command#1{%
5704 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5705 \expandafter\if@bidi@csundef\@gtempa
5706 {\new@command#1}{\relax%
5707 \let\@ifdefinable\@rc@ifdefinable%
5708 \new@command#1}}
5709 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5710
5711 \protected\def\bidi@error{\PackageError\bidi}
5712 \protected\def\bidi@warning{\PackageWarning\bidi}
5713 \protected\def\bidi@warningnoline{\PackageWarningNoLine\bidi}
5714 \protected\def\bidi@info{\PackageInfo\bidi}
5715
5716 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}
5717
5718 \newcount\bidi@poscount
5719
5720 \newcommand*{\WriteStartXPostoaux}{%
5721 \global\advance\bidi@poscount\@ne
5722 \edef\@tempa{%
5723 \write\@auxout{%
5724 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdfstart
5725 }%
5726 }%
5727 \ifvmode
5728 \leavevmode
5729 \fi
5730 \if@RTL
5731 \if@files

```



```

5732 \@tempa
5733 \fi
5734 \pdfsavepos
5735 \else
5736 \pdfsavepos
5737 \if@filesw
5738 \@tempa
5739 \fi
5740 \fi
5741 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5742 \PackageWarningNoLine{biditools}{%
5743 The start x position '\number\bidi@poscount' is not known yet.
5744 Rerun to get this x position%
5745 }%
5746 }{}%
5747 }
5748
5749 \newcommand*\WriteEndXPostoaux{%
5750 \edef\@tempa{%
5751 \write\@auxout{%
5752 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5753 }%
5754 }%
5755 \if@RTL
5756 \if@filesw
5757 \@tempa
5758 \fi
5759 \pdfsavepos
5760 \else
5761 \pdfsavepos
5762 \if@filesw
5763 \@tempa
5764 \fi
5765 \fi
5766 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5767 \PackageWarningNoLine{biditools}{%
5768 The end x position '\number\bidi@poscount' is not known yet.
5769 Rerun to get this x position%
5770 }%
5771 }{}%
5772 }
5773
5774 \newcommand*\WriteStartYPostoaux{%
5775 \global\advance\bidi@poscount\@ne
5776 \edef\@tempa{%
5777 \write\@auxout{%
5778 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5779 }%
5780 }%
5781 \ifvmode
5782 \leavevmode
5783 \fi
5784 \if@RTL
5785 \if@filesw

```



```

5786 \@tempa
5787 \fi
5788 \pdfsavepos
5789 \else
5790 \pdfsavepos
5791 \if@filesw
5792 \@tempa
5793 \fi
5794 \fi
5795 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5796 \PackageWarningNoLine{biditools}{%
5797 The start y position '\number\bidi@poscount' is not known yet.
5798 Rerun to get this y position%
5799 }%
5800 }{}%
5801 }
5802
5803 \newcommand*{\WriteEndYPostoaux}{%
5804 \edef\@tempa{%
5805 \write\@auxout{%
5806 \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5807 }%
5808 }%
5809 \if@RTL
5810 \if@filesw
5811 \@tempa
5812 \fi
5813 \pdfsavepos
5814 \else
5815 \pdfsavepos
5816 \if@filesw
5817 \@tempa
5818 \fi
5819 \fi
5820 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5821 \PackageWarningNoLine{biditools}{%
5822 The end y position '\number\bidi@poscount' is not known yet.
5823 Rerun to get this y position%
5824 }%
5825 }{}%
5826 }
5827
5828 \newcommand*{\WriteStartXYPostoaux}{%
5829 \global\advance\bidi@poscount\@ne
5830 \edef\@tempa{%
5831 \write\@auxout{%
5832 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5833 }%
5834 \write\@auxout{%
5835 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5836 }%
5837 }%
5838 \ifvmode
5839 \leavevmode

```



```

5840 \fi
5841 \if@RTL
5842 \if@filesw
5843 \@tempa
5844 \fi
5845 \pdfsavepos
5846 \else
5847 \pdfsavepos
5848 \if@filesw
5849 \@tempa
5850 \fi
5851 \fi
5852 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5853 \PackageWarningNoLine{biditools}{%
5854 The start x position `\'number\bidi@poscount' is not known yet.
5855 Rerun to get this x position%
5856 }%
5857 }{}%
5858 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5859 \PackageWarningNoLine{biditools}{%
5860 The start y position `\'number\bidi@poscount' is not known yet.
5861 Rerun to get this y position%
5862 }%
5863 }{}%
5864 }
5865
5866 \newcommand*{\WriteEndXYPostoaux}{%
5867 \edef\@tempa{%
5868 \write\@auxout{%
5869 \string\bidi@pos{x}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflast
5870 }%
5871 \write\@auxout{%
5872 \string\bidi@pos{y}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflast
5873 }%
5874 }%
5875 \if@RTL
5876 \if@filesw
5877 \@tempa
5878 \fi
5879 \pdfsavepos
5880 \else
5881 \pdfsavepos
5882 \if@filesw
5883 \@tempa
5884 \fi
5885 \fi
5886 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5887 \PackageWarningNoLine{biditools}{%
5888 The end x position `\'number\bidi@poscount' is not known yet.
5889 Rerun to get this x position%
5890 }%
5891 }{}%
5892 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5893 \PackageWarningNoLine{biditools}{%

```



```

5894         The end y position '\number\bidiposcount' is not known yet.
5895         Rerun to get this y position%
5896     }%
5897 }{}%
5898 }
5899
5900 \newcommand*{\currentposxwidth}{%
5901     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5902     {%
5903         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5904         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5905         \endcsname
5906         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5907         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5908         \endcsname sp\relax
5909     \else
5910         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5911         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5912         \endcsname sp\relax
5913     \fi
5914     }%
5915 }
5916
5917 \newcommand*{\currentposyheight}{%
5918     \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{\z@}
5919     {%
5920         \dimexpr \csname bidi@ypos@@start@\number\bidiposcount
5921         \endcsname sp - \csname bidi@ypos@@end@\number\bidiposcount
5922         \endcsname sp\relax
5923     }%
5924 }
5925
5926
5927
5928 \newcommand*{\setbaselineskip}[1]{%
5929     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5930     \selectfont
5931 }
5932
5933
5934 \newcommand*{\bidi@newrobustcmd}{}
5935 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5936
5937 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5938
5939 \def\bidi@newcommand#1[#2]{%
5940     \@ifnextchar[%]
5941     {\bidi@xargdef#1[#2]}
5942     {\ifx\l@ngrel@x\relax
5943         \let\l@ngrel@x\protected
5944     \else
5945         \protected\def\l@ngrel@x{\protected\long}%
5946     \fi
5947     \@argdef#1[#2]}}

```



```

5948
5949 \long\def\bidixargdef#1[#2][#3]#4{%
5950   \@ifdefinable#1{%
5951     \expandafter\protected
5952     \expandafter\def
5953     \expandafter#1%
5954     \expandafter{%
5955       \expandafter\@testopt
5956       \csname\string#1\endcsname{#3}}%
5957     \expandafter\@yargdef\csname\string#1\endcsname\tw{#2}{#4}}
5958
5959 \bidixnewrobustcmd*{\bidixrenewrobustcmd}{\@star@or@long\bidixrenew@command}
5960
5961 \def\bidixrenew@command#1{%
5962   \if@bidixundef{#1}
5963     {\bidixerror{\string#1 undefined}\@ehc}
5964     {}%
5965   \let\@ifdefinable\@rc@ifdefinable
5966   \bidixnew@command#1}
5967
5968
5969
5970 \bidixnewrobustcmd*{\bidixproviderobustcmd}{\@star@or@long\bidixprovide@command}
5971
5972 \def\bidixprovide@command#1{%
5973   \if@bidixundef{#1}
5974     {\def\reserved@a{\bidixnew@command#1}}
5975     {\def\reserved@a{\bidixrenew@command\reserved@a}}%
5976   \reserved@a}
5977
5978 \newcommand*{\bidixcsuse}[1]{%
5979   \ifcsname#1\endcsname
5980     \csname#1\expandafter\endcsname
5981     \fi}
5982
5983 \newcommand{\bidixexpandonce}[1]{%
5984   \unexpanded\expandafter{#1}}
5985
5986 \def\bidixprotected{%
5987   \let\@protect\protect
5988   \let\protect\@unexpandable@protect
5989   \afterassignment\restore@protect}
5990
5991 \bidixnewrobustcmd{\bidixappto}[2]{%
5992   \if@bidixundef{#1}
5993     {\edef#1{\unexpanded{#2}}}
5994     {\edef#1{\bidixexpandonce#1\unexpanded{#2}}}}
5995 \bidixnewrobustcmd{\bidixeappto}[2]{%
5996   \if@bidixundef{#1}
5997     {\edef#1{#2}}
5998     {\edef#1{\bidixexpandonce#1#2}}}
5999 \bidixnewrobustcmd{\bidixgappto}[2]{%
6000   \if@bidixundef{#1}
6001     {\xdef#1{\unexpanded{#2}}}

```



```

6002     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6003 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6004     \if@bidi@undef{#1}
6005         {\xdef#1{#2}}
6006         {\xdef#1{\bidi@expandonce#1#2}}}}
6007
6008 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6009 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6010
6011
6012
6013 \bidi@newrobustcmd{\bidi@preto}[2]{%
6014     \if@bidi@undef{#1}
6015         {\edef#1{\unexpanded{#2}}}
6016         {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6017 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6018     \if@bidi@undef{#1}
6019         {\edef#1{#2}}
6020         {\edef#1{#2\bidi@expandonce#1}}}}
6021 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6022     \if@bidi@undef{#1}
6023         {\xdef#1{\unexpanded{#2}}}
6024         {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6025 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6026     \if@bidi@undef{#1}
6027         {\xdef#1{#2}}
6028         {\xdef#1{#2\bidi@expandonce#1}}}}
6029
6030 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6031 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6032
6033
6034
6035 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6036 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6037 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6038 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6039 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6040 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6041
6042
6043
6044 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6045 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6046 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6047 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6048 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6049 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6050
6051
6052
6053 \bidi@newrobustcmd{\if@bidi@patchable}{%
6054     \bidi@dbg@trce\if@bidi@patchable
6055     \begingroup

```




```

6056 \@makeother\#%
6057 \ifstar\bid@ifpatchable@i\bid@ifpatchable}
6058
6059 \long\def\bid@ifpatchable#1#2{%
6060 \endgroup
6061 \bid@dbg@init#1%
6062 \if@bid@undef{#1}
6063 {\bid@dbg@fail{def}\@secondoftwo}
6064 {\bid@dbg@info{def}%
6065 \if@bid@defmacro{#1}
6066 {\bid@dbg@info{mac}%
6067 \bid@ifscanable{#1}
6068 {\bid@ifhashcheck{#2}
6069 {\bid@dbg@info{tok}%
6070 \bid@ifpattern#1{#2}
6071 {\bid@dbg@info{pat}%
6072 \bid@dbg@info{pos}\@firstoftwo}
6073 {\bid@dbg@fail{pat}\@secondoftwo}}
6074 {\bid@dbg@fail{hsh}\@secondoftwo}}
6075 {\bid@dbg@fail{tok}\@secondoftwo}}
6076 {\bid@dbg@fail{mac}\@secondoftwo}}}
6077
6078 \long\def\bid@ifpatchable@i#1{%
6079 \endgroup
6080 \bid@dbg@init#1%
6081 \if@bid@undef{#1}
6082 {\bid@dbg@fail{def}\@secondoftwo}
6083 {\bid@dbg@info{def}%
6084 \if@bid@defmacro{#1}
6085 {\bid@dbg@info{mac}%
6086 \if@bid@defparam{#1}
6087 {\bid@dbg@info{prm}%
6088 \bid@ifscanable{#1}
6089 {\bid@dbg@info{tok}%
6090 \bid@dbg@info{pos}\@firstoftwo}
6091 {\bid@dbg@fail{tok}\@secondoftwo}}
6092 {\bid@dbg@info{prl}%
6093 \if@bid@defprotected{#1}
6094 {\bid@dbg@info{pro}}
6095 {}%
6096 \bid@dbg@info{pos}\@firstoftwo}}
6097 {\bid@dbg@fail{mac}\@secondoftwo}}}
6098
6099 \bid@newrobustcmd*{\bid@patchcmd}{%
6100 \bid@dbg@trce\bid@patchcmd
6101 \begingroup
6102 \@makeother\#%
6103 \bid@@@patchcmd}
6104
6105 \newcommand{\bid@@@patchcmd}[4][#####1]{%
6106 \bid@ifpatchable#2{#3}
6107 {\bid@dbg@succ{ret}%
6108 \begingroup
6109 \edef\bid@resrvda{%

```



```

6110 \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6111 #1\def\string\bidiresrvda\space####2{\noexpand\bidiresrvdb####3&}}%
6112 \def\noexpand\bidiresrvdb####1\detokenize{#3}####2&{%
6113 ####1\detokenize{#4}####2}%
6114 \edef\noexpand\bidiresrvda{%
6115 \noexpand\bidiresrvda\meaning#2&}}%
6116 \bidiresrvda
6117 \bidipatchcmd@scantoks\bidiresrvda
6118 \let#2\bidiresrvda
6119 \bidiundef\bidiresrvda
6120 \@firstoftwo}
6121 {\@secondoftwo}}
6122
6123 \def\bidipatchcmd@scantoks#1{%
6124 \edef\bidiresrvda{\endgroup
6125 \unexpanded{\makeatletter\scantokens}{#1}%
6126 \catcode\number`\@=\the\catcode`\@relax}%
6127 \bidiresrvda}
6128
6129 \protected\def\bidifscanable#1{%
6130 \begingroup
6131 \edef\bidiresrvda{%
6132 \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6133 ####1\def\string\bidiresrvda####2{####3}}}%
6134 \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
6135 \bidiresrvda
6136 \makeatletter
6137 \scantokens\expandafter{\bidiresrvda}%
6138 \expandafter\endgroup\ifx#1\bidiresrvda
6139 \expandafter\@firstoftwo
6140 \else
6141 \expandafter\@secondoftwo
6142 \fi}
6143
6144
6145 \protected\long\def\bidifhashcheck#1{%
6146 \begingroup
6147 \edef\bidiresrvda{\detokenize{#1}}%
6148 \expandafter\endgroup
6149 \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
6150
6151 \edef\bidifhashcheck@i#1&{%
6152 \noexpand\expandafter
6153 \noexpand\bidifhashcheck@ii
6154 \noexpand\strip@prefix#1\string#\string#&}
6155
6156 \edef\bidifhashcheck@ii{%
6157 \def\noexpand\bidifhashcheck@ii##1\string#\string##2&}
6158 \bidifhashcheck@ii{\if@bidi@blank{#2}}
6159
6160
6161 \protected\long\def\bidifpattern#1#2{%
6162 \begingroup
6163 \edef\bidiresrvda{%

```



```

6164 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
6165 \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
6166 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6167 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6168 \noexpand\bidi@resrvda}
6169 \bidi@resrvda\@secondoftwo\@firstoftwo}
6170
6171
6172 \newcommand{\if@bidi@defparam}{%
6173 \long\edef\if@bidi@defparam#1{%
6174 \noexpand\expandafter\noexpand\bidi@ifdefparam
6175 \noexpand\meaning#1\detokenize{macro}:->&}
6176 \edef\bidi@ifdefparam{%
6177 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6178 \bidi@ifdefparam{\bidi@notblank{#2}}
6179
6180
6181 \newcommand{\if@bidi@defprotected}{%
6182 \long\edef\if@bidi@defprotected#1{%
6183 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6184 \noexpand\meaning#1\string\protected&}
6185 \edef\bidi@ifdefprotected{%
6186 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6187 \bidi@ifdefprotected{\bidi@notblank{#2}}
6188
6189
6190 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6191 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6192 \expandafter\let\csname #1\endcsname\bidi@undefined
6193 }
6194
6195 \let\bidi@dbg@trce\@gobble
6196 \let\bidi@dbg@init\@gobble
6197 \let\bidi@dbg@info\@gobble
6198 \let\bidi@dbg@succ\@gobble
6199 \let\bidi@dbg@fail\@gobble
6200
6201
6202
6203 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6204 \bidi@dbg@trce\bidi@apptocmd
6205 \begingroup
6206 \@makeoother\#%
6207 \bidi@hooktocmd\bidi@append}
6208
6209
6210
6211 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6212 \bidi@dbg@trce\bidi@pretocmd
6213 \begingroup
6214 \@makeoother\#%
6215 \bidi@hooktocmd\bidi@prepend}
6216
6217 \long\def\bidi@hooktocmd#1#2#3{%

```



```

6218 \endgroup
6219 \bidi@dbg@init#2%
6220 \if@bidi@undef{#2}
6221   {\bidi@dbg@fail{def}\@secondoftwo}
6222   {\bidi@dbg@info{def}%
6223     \if@bidi@defmacro{#2}
6224       {\bidi@dbg@info{mac}%
6225         \if@bidi@defparam{#2}
6226           {\bidi@dbg@info{prm}%
6227             \bidi@ifscanable{#2}
6228               {\bidi@ifhashcheck{#3}
6229                 {\bidi@dbg@info{tok}%
6230                   \bidi@dbg@succ{ret}%
6231                   \bidi@hooktocmd@i#1#2{#3}%
6232                   \@firstoftwo}
6233                 {\bidi@dbg@fail{hsh}\@secondoftwo}}
6234               {\bidi@dbg@fail{tok}\@secondoftwo}}
6235             {\bidi@dbg@info{prl}%
6236               \if@bidi@defprotected{#2}
6237                 {\bidi@dbg@info{pro}%
6238                   \bidi@dbg@succ{red}%
6239                   \protected}
6240                 {\bidi@dbg@succ{red}}}%
6241             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6242             \@firstoftwo}}
6243     {\bidi@dbg@fail{mac}\@secondoftwo}}
6244
6245 \long\def\bidi@hooktocmd@i#1#2#3{%
6246   \begingroup
6247   \edef\bidi@resrvda{%
6248     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6249       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}%
6250     \edef\noexpand\bidi@resrvda{%
6251       \noexpand\bidi@resrvda\meaning#2&}}%
6252   \bidi@resrvda
6253   \bidi@patchcmd@scantoks\bidi@resrvda
6254   \let#2\bidi@resrvda
6255   \bidi@undef\bidi@resrvda}
6256
6257 \long\def\bidi@append#1#2{#1#2}
6258 \long\def\bidi@prepend#1#2{#2#1}
6259
6260 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6261 %\newcommand*{\bidi@endpreamblehook}{ }
6262
6263 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6264
6265 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipou
6266 \newcommand*{\bidi@beforeoutputpageshipouthook}{ }
6267
6268 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6269 \newcommand*{\bidi@beforeheaderhook}{ }
6270
6271 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutpu

```



```

6272 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{\}
6273
6274 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputp
6275 \newcommand*{\bidi@afteroutputboxoutputpagehook}{\}
6276
6277 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6278 \newcommand*{\bidi@beforefooterhook}{\}
6279
6280 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6281 \newcommand*{\bidi@afterfooterhook}{\}
6282
6283
6284 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouth
6285 \newcommand*{\bidi@afteroutputpageshipouthook}{\}
6286
6287 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6288 \newcommand*{\bidi@atendoutputpagehook}{\}
6289
6290 %\bidi@preto\document{%
6291 % \endgroup
6292 % \let\bidi@AtEndPreamble\@firstofone
6293 % \bidi@endpreamblehook
6294 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6295 % \bidi@undef\bidi@endpreamblehook
6296 % \begingroup}
6297
6298 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6299 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6300
6301 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterrendpreamblehook}
6302 %\newcommand*{\bidi@afterrendpreamblehook}{\}
6303
6304 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6305
6306 %\bidi@appto\document{%
6307 % \let\bidi@AfterEndPreamble\@firstofone
6308 % \bidi@afterrendpreamblehook
6309 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6310 % \bidi@undef\bidi@afterrendpreamblehook
6311 % \ignorespaces}
6312
6313 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterrenddocum
6314 \newcommand*{\bidi@afterrenddocumentchecklabelsrerunhook}{\}
6315
6316 \bidi@patchcmd\enddocument
6317 {\fi}
6318 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6319 \bidi@afterrenddocumentchecklabelsrerunhook
6320 \fi}
6321 {}
6322 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6323
6324 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6325

```



```

6326 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6327 \newcommand*{\bidi@afterlastshipouthook}{}
6328
6329 \bidi@patchcmd\enddocument
6330 {\clearpage}
6331 {\clearpage
6332 \let\bidi@AfterLastShipout\@firstofone
6333 \bidi@afterlastshipouthook}
6334 {}
6335 {\let\bidi@clearpage\clearpage
6336 \def\clearpage{%
6337 \bidi@clearpage
6338 \let\bidi@AfterLastShipout\@firstofone
6339 \bidi@afterlastshipouthook}}
6340
6341 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterendddocumenthook}
6342 %\newcommand*{\bidi@afterendddocumenthook}{}
6343
6344 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6345
6346 %\bidi@patchcmd\enddocument
6347 % {\deadcycles}
6348 % {\let\bidi@AfterEndDocument\@firstofone
6349 % \bidi@afterendddocumenthook
6350 % \deadcycles}
6351 % {}
6352 % {\let\bidi@@end@@end
6353 % \def@@end{%
6354 % \let\bidi@AfterEndDocument\@firstofone
6355 % \bidi@afterendddocumenthook
6356 % \bidi@@end}}
6357
6358 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6359 \bidi@csgappto{@bidi@begin@#1@hook}}
6360
6361 % Patch \begin<space> and \end<space> in newer LaTeX releases
6362 % \begin and \end in older ones.
6363 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6364 {\csname #1\endcsname}
6365 {\bidi@csuse{@bidi@begin@#1@hook}}%
6366 \csname #1\endcsname}
6367 {}
6368 {\bidi@warning{%
6369 Patching '\string\begin' failed!\MessageBreak
6370 '\string\bidi@AtBeginEnvironment' will not work@gobble}}
6371
6372
6373
6374 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6375 \bidi@csgappto{@bidi@end@#1@hook}}
6376
6377 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6378 {\csname end#1\endcsname}
6379 {\bidi@csuse{@bidi@end@#1@hook}}%

```



```

6380 \csname end#1\endcsname}
6381 {}
6382 {\bidi@warning{%
6383   Patching '\string\end' failed!\MessageBreak
6384   '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6385
6386
6387
6388 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6389   \bidi@csgappto{\bidi@beforebegin@#1@hook}}
6390
6391 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6392 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
6393 {}
6394 {\bidi@warning{%
6395   Patching '\string\begin' failed!\MessageBreak
6396   '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6397
6398 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6399   \bidi@csgappto{\bidi@afterend@#1@hook}}
6400
6401 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6402 {\if@ignore}
6403 {\bidi@csuse{\bidi@afterend@#1@hook}}%
6404 \if@ignore}
6405 {}
6406 {\bidi@warning{%
6407   Patching '\string\end' failed!\MessageBreak
6408   '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6409
6410 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6411 \def\bidi@namedef#1{\expandafter\gdef\csname #1\endcsname}
6412 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6413 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6414
6415 % From David Carlisle:
6416 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6417 % See also https://github.com/ho-tex/oberdiek/issues/26
6418
6419 \let\@bidi@stepcounter\stepcounter
6420 \let\@bidi@@stpelt\@stpelt
6421
6422 \def\@stpelt#1{%
6423   \ifcsname bidi@reset@#1@perpage\endcsname
6424     \begingroup
6425       \let\stepcounter\@bidi@stepcounter
6426       \@bidi@@stpelt{#1}%
6427     \endgroup
6428     \expandafter\@gobbletwo
6429   \fi
6430   \@bidi@@stpelt{#1}%
6431 }
6432
6433 \bidi@pretocmd\stepcounter

```



```

6434 {%
6435     \if@bidi@csundef{bidi@stepcounterhook@@#1}{}%
6436     \csname bidi@stepcounterhook@@#1\endcsname
6437 }%
6438 }{}%
6439 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6440
6441 \chardef\bidi@backslash`\\
6442 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6443
6444 % anonymous control sequences
6445 \newcount\bidi@tempcountb
6446 \newtoks\bidi@temptoksa
6447 \newtoks\bidi@temptoksb
6448
6449 % Catcode (re)storing
6450 %
6451 \def\bidi@storecatcode#1%
6452     {\escapechar\m@ne
6453     \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6454     {\catcode`\string#1=
6455     \the\catcode\expandafter`\string#1}%
6456     \catcode\expandafter`\string#1=12\relax
6457     \escapechar`\\ \relax}
6458 \def\bidi@restorecatcode#1%
6459     {\escapechar\m@ne
6460     \csname bidi@restorecatcode\string#1\endcsname
6461     \escapechar`\\ \relax}
6462
6463 % Construct a control sequence inside \edef
6464 %
6465 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6466
6467 % Construct a control sequence out of #2, and give it to #1
6468 %
6469 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6470
6471 % Pick an escapecharacter
6472 % this presumes that its argument is a character.
6473 %
6474 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6475
6476 % Equality of strings.
6477 % the fast approach: does not work in expansion-only environment.
6478 %
6479 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6480     \ifx\bidi@eqs@a\bidi@eqs@b}
6481
6482 % Test by expansion only
6483 %
6484 \def\bidi@EqualStringX#1#2{00\fi
6485     \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6486 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6487     \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi

```




```

6488     \else false\fi}
6489 \def\bid@hop@ES#1\fi#2\fi{\fi\fi#1}
6490
6491 % Lexicographic ordering
6492 % note the use of \def
6493 % also note the characters 0,127,255 that are used,
6494 % these are not supposed to appear in the strings
6495 %
6496 {\catcode0=12 \catcode255=12 \catcode127=12
6497 \gdef\bid@StringBeforeNC#1#2{00\fi
6498   \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6499 \gdef\bid@CharsBeforeNC#1#2^^?#3#4^^?{%
6500   \ifcat#1\relax\def\bid@next{\bid@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6501   \else\ifcat#3\relax\def\bid@next{\bid@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6502     \else\ifnum\lccode`#1<\lccode`#3
6503       \def\bid@next{\csname iftrue\endcsname}%
6504     \else\ifnum\lccode`#1>\lccode`#3
6505       \def\bid@next{\csname iffalse\endcsname}%
6506     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6507   \fi \fi \fi \fi
6508   \bid@next}
6509 \gdef\bid@StringBefore#1#2{00\fi
6510   \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6511 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6512   \ifnum`#1<`#3
6513     \def\bid@next{\csname iftrue\endcsname}%
6514   \else\ifnum`#1>`#3
6515     \def\bid@next{\csname iffalse\endcsname}%
6516   \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6517   \fi\fi
6518   \bid@next}
6519 }
6520
6521 % Null argument test
6522 %
6523 \def\bid@empty{}
6524 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1\endcsname\bid@empty}
6525 \def\bid@ifemptyX#1{\expandafter\ifx\csname bid@#1\endcsname\bid@empty}
6526 %\def\bid@ifempty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6527 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6528
6529 % Next character test
6530 %
6531 \def\bid@NextChar#1#2#3{00\fi
6532   \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6533   \futurelet\bid@nxt@c\@bid@ifnxtc}
6534 \def\bid@ifNextChar#1#2#3{%
6535   \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6536   \futurelet\bid@nxt@c\@bid@ifnxtc}
6537 \def\@bid@ifnxtc{\ifx\bid@nxt@ch\bid@nxt@c \expandafter\bid@nxt@a
6538   \else \expandafter\bid@nxt@b \fi}
6539
6540 % Test for defined-ness of string as control sequence.
6541 % works inside \edef

```



```

6542 %
6543 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
6544
6545 % Define uniquely defined dummy macros,
6546 % usually to serve as bumper blocks at the end of a list
6547 %
6548 \newcount\bid@dummies
6549 \def\DefNewDummy#1{
6550     \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
6551     \advance\bid@dummies\@ne
6552     \else
6553     \bid@error{Attempt at second definition of `#1'}
6554     \fi}
6555
6556 % string case statement
6557 % use: \bid@switch \iftest{...} in:
6558 %     item1 action1
6559 %     ...
6560 %     itemn actionn
6561 %     default defaultaction [optional]
6562 %     \endbid@switch
6563 % inspired by Jonathan Fine: Some Basic Control Macros
6564 % Tugboat 12 #4
6565 %
6566 \let\@bid@fi\fi \let\endbid@switch\relax \DefNewDummy{\bid@default}
6567 \def\bid@switch@exit #1 \@bid@fi #2 \endbid@switch {\fi #1}
6568 \def\bid@switch #1#2#3{\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6569 #1{#2}\bid@switch@exit #3 \@bid@fi
6570 \bid@switch {#1}
6571 }
6572 % this version puts the test object in {}
6573 \def\bid@oswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6574 #1{#2}\bid@switch@exit #3 \@bid@fi
6575 \bid@switch #1 in:
6576 }
6577 % this version assumes that the test object is just one character
6578 \def\bid@cswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6579 #1#2\bid@switch@exit #3 \@bid@fi
6580 \bid@cswitch #1 in:
6581 }
6582 % this version assumes that the test object can have an optional space
6583 \def\bid@bswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6584 #1#2 \bid@switch@exit #3 \@bid@fi
6585 \bid@bswitch #1 in:
6586 }
6587 % this version can cope with significant spaces at the start of #3;
6588 % #2 is macro argument
6589 \def\bid@mswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6590 #1{#2}\bid@switch@exit #3 \@bid@fi
6591 \bid@mswitch #1 in:
6592 }
6593 % idem; #2 does not have to be enclosed in braces
6594 \def\bid@fswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6595 #1#2 \bid@switch@exit #3 \@bid@fi

```



```

6596 \bidi@fswitch #1 in:
6597 }
6598
6599 % Routines for taking the value of a string:
6600 % if the string is defined as control sequence
6601 % take the value of that, otherwise take the string itself
6602
6603 % String or value of control sequence
6604 %
6605 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6606
6607 % String or control sequence
6608 %
6609 \def@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6610
6611 % String or \noexpand-ed control sequence;
6612 % for use in \edef
6613 %
6614 \newif\ifbidi@in@label
6615 \def@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6616 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6617 \newtoks\bidi@are@these@correct
6618 \def\bidi@t@w@w#1{%
6619 \if\bidi@undefinedcs{#1}#1%
6620 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1}\fi
6621 \else
6622 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6623
6624 % List Manipulation .....
6625 % this assumes that #1 is a list of tokens, #2 is the name of a list
6626 %
6627 % Names of lists (and of items to pop into) are given as strings;
6628 % not as control sequences.
6629 %
6630 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6631 % basic append/prepend macro
6632 \long\def\bidi@append@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6633 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@listb}
6634 \long\def\bidi@prepend@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6635 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@listb}
6636 \def@bidi@append@to@list{\bidi@csarg\bidi@append@to@clist}
6637 \def@bidi@prepend@to@list{\bidi@csarg\bidi@prepend@to@clist}
6638 % variations:
6639 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6640 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6641 \def\bidi@append@list@to@list#1#2{%
6642 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6643 \def\bidi@prepend@list@to@list#1#2{%
6644 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6645 \def\bidi@append@clist@to@clist#1#2{%
6646 \@bidi@append@to@clist{#1}\expandafter{\the#2}}
6647 \def\bidi@prepend@clist@to@clist#1#2{%
6648 \@bidi@prepend@to@clist{#1}\expandafter{\the#2}}
6649 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}

```



```

6650 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}\expandafter{\the#2}}
6651
6652 \let\bidibillbeunhskip\unhskip
6653
6654 % A few list macros for the user
6655 \def\NewTokenList:#1 {\@bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6656 \def\EmptyTokenList:#1 {\@global\csname#1\endcsname{}}
6657 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6658 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6659 \def\TheTokenList:#1 {\let\bidibillbeunhskip\bidibillbeunhskip \let\bidibillbeunhskip\empt
6660 \if\bidibillbeunhskip{#1}\bidibillbeunhskip{Token List <#1> undefined}
6661 \else\bidibillbeunhskip{#1}\fi
6662 \let\bidibillbeunhskip\bidibillbeunhskip}
6663
6664 \def\bididel@tok@from@list#1#2{\begingroup
6665 \long\def\bidics@list#1#2#3\biditok@SM
6666 {\biditoks@list#1}\biditoks@listb{#2}%
6667 \edef\bidics@listb{\global\bidicsname{#1}=
6668 {\the\biditoks@list\the\biditoks@listb}}%
6669 \bidics@listb}%
6670 \edef\bidics@list{\noexpand\bidics@list#1}\expandafter\the\csname#1\endcsname\noexpand
6671 \bidics@list \endgroup}
6672 \def\bidibillbeunhskip@of@list#1{\bidibillbeunhskip{\let\expandafter\bidics@list#1}%
6673 \bidibillbeunhskip@of@list#1\bidibillbeunhskip}
6674 \long\def\bidibillbeunhskip@of@list#1#2{\begingroup\biditoks@list#1={#2}%
6675 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list
6676 \endgroup}
6677 \long\def\bidibillbeunhskip@of@list#1#2{\biditoks@list#1={#2}%
6678 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expanda
6679 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6680 \expandafter\the\csname#1\endcsname}%
6681 }
6682 \def\bidibillbeunhskip@set@list#1{\bidibillbeunhskip{\let\expandafter\bidics@list#1}%
6683 \bidibillbeunhskip@set@list#1\bidibillbeunhskip}
6684 \long\def\bidibillbeunhskip@set@list#1#2{\begingroup\biditoks@list#1={#2}%
6685 \global#1=\expandafter{\the\biditoks@list}\endgroup}
6686
6687 %%%%%%%%%%%%%%% Stack macros
6688 %
6689 % push in terms of prepending of lists
6690 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@cslist#1\expandafter{\expandafter\\expanda
6691 \def\bidipush@onto#1{\bidibillbeunhskip\bidibillbeunhskip@push@onto@cs{#1}}
6692 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@cslist#1}{\{#2}}
6693 \def\bidibillbeunhskip@push@onto#1#2{\let\\=\relax
6694 \bidibillbeunhskip@push@onto@list#1{\{#2}}
6695 % pop via auxiliary macro: #1 is result, #2 is stack
6696 % two cs arguments
6697 \def\bidibillbeunhskip@pop@cs@into#1#2{\edef\bidibillbeunhskip@
6698 {\noexpand\@bidibillbeunhskip@pop@into\noexpand#1\noexpand#2\the#2\noexpand\@bidibillbeunhskip}\bidibillbeunhskip@
6699 % two string arguments
6700 \def\bidibillbeunhskip@pop@into#1#2{\edef\bidibillbeunhskip@
6701 {\noexpand\@bidibillbeunhskip@pop@into\bidibillbeunhskip@csname{#1}\bidibillbeunhskip@csname{#2}\bidibillbeunhskip@the{#2}\noexpand\@
6702 \long\def\@bidibillbeunhskip@pop@into#1#2\#3#4\@bidibillbeunhskip@pop{#1{#3}#2{#4}}
6703 \def\bidibillbeunhskip@stacktop#1#2{\%

```



```

6704 \edef\bidics@e{\noexpand\@bidi@copy@stacktop
6705 {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6706 \bidi@cs@e}
6707 \def\@bidi@copy@stacktop#1\\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6708 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6709 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6710 \def\bidi@length@of@csstack#1{\def\\##1{\advance\bidi@stack@length\@ne}%
6711 \bidi@stack@length\m@ne \the#1}
6712 % turn a stack upside down
6713 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6714 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6715 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6716 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\m@ne
6717 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6718 % \bidi@append@cslst@to@cslst\bidi@temptoksb\bidi@temptoksa% append a to b
6719 % \bidi@temptoksa\bidi@temptoksb
6720 \repeat% copy b to a
6721 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6722 % invert a stack into a list
6723 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6724 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6725 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6726 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
6727 \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6728 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6729
6730
6731 % General loop macro:
6732 \looprepeat
6733 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6734 % \untilcondition{<cond>} \whilecondition{<cond>}
6735 % \doloopbody { <loop body> }
6736 % where all control sequences in between \looprepeat and \doloopbody are optional.
6737 %
6738 % var: characters to form a control sequence;
6739 % after \forvariable{index} you can access the loop counter as \index.
6740 % This is a count register; to print it use \number\index.
6741 % start,step,end: integers with obvious relations to the loop counter;
6742 % start and step have a default value of 1
6743 % cond: (sequence of commands ending in) any TeX \if... test.
6744 %
6745 % Count down instead of up with \downtovalue; the increment given in \bystep
6746 % is always positive, and is added or subtracted accordingly.
6747 %
6748 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6749 % at the beginning of the loop body.
6750 %
6751 % Exit from middle of loop: \breaklooprepeat
6752 % use this at any place in the loop; in case of a conditional use
6753 % \ifsomething ... \expandafter \breaklooprepeat \fi
6754 %
6755 % Note that the line ends do not cause spaces in the output.
6756 %
6757 % Technical details:

```



```

6758 % The loop body is not executed in a group: the braces are those
6759 % of a token list.
6760 % The 'forvariable' variable is \let to a \count register.
6761
6762
6763
6764 % Auxiliary stuff
6765 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6766 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6767 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6768
6769 \newcount\bidi@looprepeat@depth
6770 \let\endlooprepeat\relax \def\bidi@csprotect{}
6771 % Trace switches may later be defined by PAC_utils
6772 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6773
6774 % Main repeatloop macro
6775 % - go to next level and allocate unique counter/toks if this is the
6776 %   first time we visit this level
6777 % - setup: gather bounds and termination conditions
6778 % - scoop up body in token list; after the assignment define and
6779 %   execute body
6780 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6781   \advance\bidi@looprepeat@depth\@ne\relax
6782   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count}\relax
6783     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}\bidi@looprepeat@depth\endcsname}
6784     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@depth\endcsname}
6785     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@depth\endcsname}
6786     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@depth\endcsname}
6787   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@looprepeat@depth\endcsname}
6788   \edef\bidi@looprepeat@tmp
6789     {\def\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}\bidi@looprepeat@depth\endcsname}
6790   \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral\bidi@looprepeat@depth\endcsname}
6791
6792 % Define and execute loop body
6793 % This is done with an \edef to construct the actual sequence
6794 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef\bidi@looprepeat@body{\bidi@looprepeat@depth\endcsname}
6795   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6796   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@toks}%
6797   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@utest}%
6798   \global\bidi@looprepeat@csargromannumeral\advance\bidi@looprepeat@count by \bidi@looprepeat@depth\endcsname}
6799   \noexpand\endlooprepeat
6800   \bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}}%
6801   \bidi@looprepeat@csromannumeral\bidi@looprepeat@body\ignorespaces}
6802
6803 % Stop test
6804 %% In order to stop, issue a
6805 %% \breaklooprepeat which scoops up the rest of the body and exits
6806 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral\edef\bidi@looprepeat@body{\bidi@looprepeat@depth\endcsname}
6807   \advance\bidi@looprepeat@depth\@m\@ne \bidi@looprepeat@traceexit
6808   }
6809
6810
6811 % Setup

```



```

6812 % gather bounds and termination conditions
6813 \def\bidilooprepeat@setup#1{%
6814   \beginingroup
6815   \def\forvariable##1{%
6816     \edef\bidilooprepeat@tmp{%
6817       \global\let\bidilooprepeat@csarg\noexpand{##1}\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}%
6818       \bidilooprepeat@tmp}%
6819     \def\fromvalue##1{\bidilooprepeat@csargromannumeral\global{\bidilooprepeat@count}##1\i
6820     \def\tovalue##1{%
6821       \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6822       {\bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}}%
6823       \noexpand\ifnum\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@count}>\bidilooprepeat@wtest%
6824       \noexpand\expandafter\noexpand\breaklooprepeat
6825       \noexpand\fi}\ignorespaces}%
6826     \bidilooprepeat@tmp}%
6827   \def\downtovalue##1{%
6828     \gdef\bidilooprepeat@sign{-}\gdef\bidilooprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6829   \def\bystep##1{\ifnum##1<0\bidioerror{LOOPREPEAT: increment has to be a positive value}\fi}%
6830     \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{-##1}\else
6831     \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{##1}\fi\ignorespaces}%
6832   \def\untilcondition##1{%
6833     \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6834     {\noexpand##1\relax
6835     \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6836     \bidilooprepeat@tmp}%
6837   \def\whilecondition##1{%
6838     \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6839     {\noexpand##1\relax\noexpand\else
6840     \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6841     \bidilooprepeat@tmp}%
6842     \fromvalue{\@ne}\bystep{\@ne}#1%
6843   \endgroup}
6844 \def\bidilooprepeat@zero
6845   {\bidilooprepeat@csromannumeral{\bidilooprepeat@toks}{}}\bidilooprepeat@csromannumeral{\bidilooprepeat@body}{}}
6846   \bidilooprepeat@csargromannumeral\def{\bidilooprepeat@body}{}}
6847
6848 %\tracingmacros2
6849 %\newcount\tmpcount % used in some examples below
6850
6851 %\looprepeat \forvariable{i}
6852 %   \bystep{2}
6853 % \doloopbody {%
6854 %   \ifnum i=13 \expandafter\breaklooprepeat \fi
6855 %   \number i}%
6856 %}%
6857
6858 %\looprepeat \forvariable{iii}
6859 %   \tovalue{8}
6860 % \doloopbody {}
6861 %After loop: \number iii%
6862
6863 %\looprepeat \forvariable{i}
6864 %   \fromvalue{10}
6865 %   \bystep{2}

```



```

6866 %          \downtovalue{0}
6867 %    \doloopbody {\number\i{ } }
6868
6869 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6870 %    \doloopbody {\number\x{ } }
6871
6872 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6873
6874 %\looprepeat \forvariable{j}
6875 %          \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6876 %    \doloopbody {\number\j{ } }
6877
6878 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6879 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6880 %   \doloopbody {(\number\i.\number\j) }
6881 % }
6882
6883 % infinite loop
6884 %\looprepeat \doloopbody {}
6885
6886 \ExplSyntaxOn
6887 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6888 {
6889   \IfBooleanTF { #1 }
6890   {
6891     \@ifclassloaded{ #2 }
6892     { #4 }
6893     {
6894       \hook_gput_code:nnn
6895       { file / #2.\@clsextension / after }
6896       { #3 }
6897       { #4 }
6898     }
6899   }
6900   {
6901     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6902   }
6903 }
6904
6905 \seq_new:N \g__biditools_input_file_seq
6906
6907 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6908 {
6909   \str_set:Nx \l_tmpa_str { #1 }
6910   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6911   { \prg_return_true: }
6912   { \prg_return_false: }
6913 }
6914
6915 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6916 {
6917   \@ifclassloaded { #1 }
6918   {
6919     \__bidi_if_loading:nTF { #1.\@clsextension }

```




```

6920         { \prg_return_false: }
6921         { \prg_return_true: }
6922     }
6923     {
6924         \prg_return_false:
6925     }
6926 }
6927
6928 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6929 {
6930     \@ifpackageloaded { #1 }
6931     {
6932         \_bidi_if_loading:nTF { #1.\@pkgextension }
6933         { \prg_return_false: }
6934         { \prg_return_true: }
6935     }
6936     {
6937         \prg_return_false:
6938     }
6939 }
6940
6941 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6942 {
6943     \IfBooleanTF { #1 }
6944     {
6945         \bidi_if_class_loaded:nTF { #2 }
6946         { #4 }
6947         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6948     }
6949     {
6950         \bidi_if_class_loaded:nF
6951         { #2 }
6952         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6953     }
6954 }
6955
6956 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6957 {
6958     \IfBooleanTF { #1 }
6959     {
6960         \@ifpackageloaded{ #2 }
6961         { #4 }
6962         {
6963             \hook_gput_code:nnn
6964             { file / #2.\@pkgextension / after }
6965             { #3 }
6966             { #4 }
6967         }
6968     }
6969     {
6970         \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6971     }
6972 }
6973

```



```

6974 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6975 {
6976   \IfBooleanTF { #1 }
6977   {
6978     \bidi_if_package_loaded:nTF { #2 }
6979     { #4 }
6980     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6981   }
6982   {
6983     \bidi_if_package_loaded:nF
6984     { #2 }
6985     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6986   }
6987 }
6988
6989 \clist_new:N \l__biditools_package_clist
6990 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6991 {
6992   Can-not-prevent-package-`#1'-from-being-loaded,~
6993   since-it-has-been-loaded-already-before-line~\msg_line_number:
6994 }
6995 \clist_new:N \g__biditools_prevent_clist
6996
6997 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6998 {
6999   \clist_set:Nx \l__biditools_package_clist { #3 }
7000   \clist_map_inline:Nn \l__biditools_package_clist
7001   {
7002     \@ifpackageloaded { ##1 }
7003     {
7004       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7005       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7006     }
7007     {
7008       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7009       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7010       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7011       {
7012         \tl_new:c { g__biditools_exclude_package_##1_tl }
7013       }
7014       \IfValueT { #2 }
7015       {
7016         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7017       }
7018       \disable@package@load { ##1 }
7019       { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7020     }
7021   }
7022   \clist_clear:N \l__biditools_package_clist
7023 }
7024
7025 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7026 {
7027   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load

```



```

7028 \clist_gclear:N \g__biditools_prevent_clist
7029 }
7030
7031 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7032 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7033
7034 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7035 {
7036 \clist_set:Nx \l__biditools_package_clist { #2 }
7037 \clist_map_inline:Nn \l__biditools_package_clist
7038 {
7039 \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7040 {
7041 \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7042 \reenable@package@load { ##1 }
7043 \IfBooleanT { #1 }
7044 { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7045 }
7046 }
7047 }
7048
7049 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7050 {
7051 \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7052 {
7053 \debug_suspend:
7054 \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7055 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7056 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7057 #2
7058 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7059 \debug_resume:
7060 }
7061 }
7062
7063 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7064 {
7065 \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7066 {
7067 \debug_suspend:
7068 \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7069 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7070 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7071 #2
7072 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7073 \debug_resume:
7074 }
7075 }
7076
7077 \clist_new:N \l__biditools_file_patch_clist
7078
7079 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7080 {
7081 \clist_set:Nx \l__biditools_file_patch_clist { #1 }

```



```

7082 \clist_map_inline:Nn \l__biditools_file_patch_clist
7083 {
7084   \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7085 }
7086 \clist_clear:N \l__biditools_file_patch_clist
7087 }
7088
7089 \clist_new:N \l__biditools_package_patch_clist
7090
7091 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7092 {
7093   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7094   \clist_map_inline:Nn \l__biditools_package_patch_clist
7095   {
7096     \ApplyPatchToPackage { ##1 } [ #2 ]
7097   }
7098   \clist_clear:N \l__biditools_package_patch_clist
7099 }
7100
7101 \clist_new:N \l__biditools_class_patch_clist
7102
7103 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7104 {
7105   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7106   \clist_map_inline:Nn \l__biditools_class_patch_clist
7107   {
7108     \ApplyPatchToClass { ##1 } [ #2 ]
7109   }
7110   \clist_clear:N \l__biditools_class_patch_clist
7111 }
7112
7113 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7114 {
7115   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7116   \clist_map_inline:Nn \l__biditools_class_patch_clist
7117   {
7118     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7119   }
7120   \clist_clear:N \l__biditools_class_patch_clist
7121 }
7122 \ExplSyntaxOff
7123
7124 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7125 \newcommand*{\bidi@UnReplaceInput}
7126 {\undeclare@file@substitution}
7127 \newcommand*{\bidi@ReplacePackage}[2]{%
7128   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7129 }
7130 \newcommand*{\bidi@UnReplacePackage}[1]{%
7131   \undeclare@file@substitution{#1.\@pkgextension}%
7132 }
7133 \newcommand*{\bidi@ReplaceClass}[2]{%
7134   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7135 }

```



```

7136 \newcommand*{\bidi@UnReplaceClass}[1]{%
7137   \undecore@file@substitution{#1.\@clsextension}%
7138 }
7139 \newcommand*{\bidi@BeforeFile}[1]{%
7140   \AddToHook{file/#1/before}%
7141 }
7142 \newcommand*{\bidi@AfterFile}[1]{%
7143   \AddToHook{file/#1/after}%
7144 }
7145 \newcommand*{\bidi@BeforeClass}[1]{%
7146   \bidi@BeforeFile{#1.\@clsextension}%
7147 }
7148 \newcommand*{\bidi@BeforePackage}[1]{%
7149   \bidi@BeforeFile{#1.\@pkgextension}%
7150 }
7151
7152 \long\def\bidi@protected@immediate@write#1#2#3{%
7153   \begingroup
7154     #2%
7155     \let\protect\@unexpandable@protect
7156     \edef\reserved@a{\immediate\write#1{#3}}%
7157     \reserved@a
7158   \endgroup
7159   \if@nobreak\ifvmode\nobreak\fi\fi
7160 }
7161
7162 \def\bidi@patch@AfterPackage#1{%
7163   \@ifpackageloaded{#1}{%
7164     \@firstofone
7165   }{%
7166     \AddToHook{package/#1/after}%
7167   }%
7168 }
7169
7170 \def\bidi@patch@AfterFile#1{%
7171   \IfFileLoadedTF{#1}{%
7172     \@firstofone
7173   }{%
7174     \AddToHook{file/#1/after}%
7175   }%
7176 }
7177
7178 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7179 {
7180   \bidi@patch@AfterFile{#1.#2}{%
7181     \ifnum\catcode`\@=11
7182       \input{#1-xetex-#3.def}%
7183     \else
7184       \bidi@storecatcode\@
7185       \makeatletter
7186       \input{#1-xetex-#3.def}%
7187       \bidi@restorecatcode\@
7188     \fi
7189   }%

```



```

7190 }
7191
7192 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7193 {
7194   \bidi@patch@AfterFile{#1.#3}{#2}%
7195 }
7196
7197 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7198 {
7199   \AddToHook{begindocument/before}{%
7200     \IfPackageLoadedF{#1}{%
7201       \ApplyPatchToFiles{#2}[#3][#4]%
7202     }%
7203   }
7204 }
7205
7206 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7207 {
7208   \AddToHook{begindocument/before}{%
7209     \IfPackageLoadedF{#2}{%
7210       \ifnum\catcode`\@=11
7211         \@ifclassloaded{#1}{%
7212           \input{#1-xetex-#3.def}%
7213         }{%
7214           \else
7215             \bidi@storecatcode\@
7216             \makeatletter
7217             \@ifclassloaded{#1}{%
7218               \input{#1-xetex-#3.def}%
7219             }{%
7220               \bidi@restorecatcode\@
7221             }%
7222           \fi
7223         }%
7224       }
7225     }
7226 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7227 {
7228   \AddToHook{begindocument/before}{%
7229     \IfPackageLoadedF{#2}{%
7230       \IfPackageLoadedT{#1}{%
7231         \ifnum\catcode`\@=11
7232           \input{#1-xetex-#3.def}%
7233         \else
7234           \bidi@storecatcode\@
7235           \makeatletter
7236           \input{#1-xetex-#3.def}%
7237           \bidi@restorecatcode\@
7238         \fi
7239       }%
7240     }%
7241   }
7242 }
7243

```



```

7244 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7245 {
7246   \AddToHook{begindocument/before}{%
7247     \ifnum\catcode`\@=11
7248       \@ifpackageloaded{#1}{#2}{#3}%
7249     \else
7250       \bidi@storecatcode\@
7251       \makeatletter
7252       \@ifpackageloaded{#1}{#2}{#3}%
7253       \bidi@restorecatcode\@
7254     \fi
7255   }
7256 }
7257
7258 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7259 {
7260   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7261 }
7262
7263 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7264 {
7265   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7266 }
7267
7268 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7269 {
7270   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7271 }
7272
7273 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7274 {
7275   \bidi@patch@AfterPackage{#1}{#2}%
7276 }
7277
7278 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7279 {
7280   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7281 }

```

53 File `bidituftefloat.sty`

```

7282 \NeedsTeXFormat{LaTeX2e}
7283 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7284 bidi implementation of tufte float]
7285 \RequirePackage{xifthen}
7286 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7287 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7288 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bi
7289 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7290 \newboolean{\@bidituftefloat@reversegeometry}
7291 \setboolean{\@bidituftefloat@reversegeometry}{false}
7292 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
7293 \newboolean{\@bidituftefloat@a4paper}
7294 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}

```



```

7295 \newboolean{@biditytfloat@bfivepaper}
7296 \DeclareOption{b5paper}{\setboolean{@biditytfloat@bfivepaper}{true}}
7297 \newboolean{@biditytfloat@symmetric}
7298 \newboolean{@biditytfloat@twoside}
7299 \DeclareOption{twoside}{%
7300 \@twosidettrue \@mparswitchtrue%
7301 \setboolean{@biditytfloat@twoside}{true}%
7302 \setboolean{@biditytfloat@symmetric}{true}%
7303 }
7304 \DeclareOption{oneside}{%
7305 \@twosidefalse \@mparswitchfalse%
7306 \setboolean{@biditytfloat@twoside}{false}%
7307 \setboolean{@biditytfloat@symmetric}{false}%
7308 }
7309 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7310 \newboolean{@biditytfloat@debug}
7311 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodet
7312 \ProcessOptions
7313 %% Globally sets the length
7314 \newcommand*{\gsetlength}[2]{%
7315 \setlength{#1}{#2}%
7316 \global#1=#1\relax%
7317 }
7318
7319 %% Set the font sizes and baselines to match biditytfloat's books
7320 \renewcommand\normalsize{%
7321 \@setfontsize\normalsize\@xpt{14}%
7322 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7323 \abovedisplayshortskip \z@ \@plus3\p@
7324 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7325 \belowdisplayskip \abovedisplayskip
7326 \let\@listi\@listI}
7327 \normalbaselineskip=14pt
7328 \normalsize
7329 \renewcommand\footnotesize{%
7330 \@setfontsize\footnotesize\@viipt{10}%
7331 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7332 \abovedisplayshortskip \z@ \@plus\p@
7333 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7334 \def\@listi{\leftmargin\leftmargini
7335 \topsep 3\p@ \@plus\p@ \@minus\p@
7336 \parsep 2\p@ \@plus\p@ \@minus\p@
7337 \itemsep \parsep}%
7338 \belowdisplayskip \abovedisplayskip
7339 }
7340 %% Paragraph indentation and separation for marginal text
7341 \newcommand{\@biditytfloat@margin@par}{%
7342 \setlength{\RaggedRightParindent}{0.5pc}%
7343 \setlength{\JustifyingParindent}{0.5pc}%
7344 \setlength{\parindent}{0.5pc}%
7345 \setlength{\parskip}{0pt}%
7346 }
7347 \RequirePackage{ragged2e}
7348 \ifthenelse{boolean{@biditytfloat@reversegeometry}}{%

```




```

7349 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7350 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7351   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7352   {}
7353 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7354   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7355   {}}%
7356 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7357 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7358   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7359   {}
7360 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7361   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm
7362   {}%
7363 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7364   {}
7365   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7366 \setlength\marginparpush{10pt}
7367 %% Font for margin items
7368 \newcommand{@biditytfloat@marginfont}{\normalfont\footnotesize}
7369 \newcommand*{@biditytfloat@caption@font}{@biditytfloat@marginfont}
7370 \newcommand*{\setcaptionfont}[1]{\renewcommand*{@biditytfloat@caption@font}{#1}}
7371 \newcommand{@biditytfloat@justification}{\justifying}%
7372 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7373 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7374 \newboolean{@biditytfloat@changepage}
7375 \IfFileExists{changepage.sty}{%
7376   \biditytfloatDebugInfoNL{Found changepage.sty}
7377   \RequirePackage[strict]{changepage}
7378   \setboolean{@biditytfloat@changepage}{true}
7379 }{%
7380   \biditytfloatDebugInfoNL{Found chngpage.sty}
7381   \RequirePackage[strict]{chngpage}
7382   \setboolean{@biditytfloat@changepage}{false}
7383 }
7384 \newboolean{@biditytfloat@odd@page}
7385 \setboolean{@biditytfloat@odd@page}{true}
7386 \newcommand*{@biditytfloat@checkoddpag}{%
7387   \checkoddpag%
7388   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7389     \ifoddpag%
7390       \setboolean{@biditytfloat@odd@page}{true}%
7391     \else%
7392       \setboolean{@biditytfloat@odd@page}{false}%
7393     \fi%
7394   }{%
7395     \ifcpoddpag%
7396       \setboolean{@biditytfloat@odd@page}{true}%
7397     \else%
7398       \setboolean{@biditytfloat@odd@page}{false}%
7399     \fi%
7400   }%
7401 }
7402 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running he

```



```

7403 \newlength{\@biditytfloat@fullwidth}
7404 \newlength{\@biditytfloat@caption@fill}
7405 \newcommand{\biditytfloatRecalculate}{%
7406   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7407   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7408
7409   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7410   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7411   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7412
7413   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7414   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7415 }
7416 \AtBeginDocument{\biditytfloatRecalculate}
7417 \RequirePackage{optparams}% provides multiple optional arguments for commands
7418 \RequirePackage{placeins}
7419 \newsavebox{\@biditytfloat@margin@floatbox}
7420 \newenvironment{@biditytfloat@margin@float}[2][1.2ex]%
7421   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in
7422   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7423   \begin{minipage}{\marginparwidth}%
7424     \@biditytfloat@caption@font%
7425     \def\@capttype{#1}%
7426     \hbox{} \vspace*{#1}%
7427     \@biditytfloat@caption@justification%
7428     \@biditytfloat@margin@par%
7429     \noindent%
7430   }
7431   {\end{minipage}%
7432   \end{lrbox}%
7433   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7434 }
7435 \newenvironment{marginfigure}[1][1.2ex]%
7436   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7437   {\end{@biditytfloat@margin@float}}
7438 \newenvironment{mintable}[1][1.2ex]%
7439   {\begin{@biditytfloat@margin@float}[#1]{table}}
7440   {\end{@biditytfloat@margin@float}}
7441 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7442
7443 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7444 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7445   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}%
7446     {\def\@biditytfloat@float@debug@info{#1}}%
7447     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7448 }
7449 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7450 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@deb
7451 \newboolean{@biditytfloat@float@recto}
7452 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityf
7453 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityf
7454 \newsavebox{\@biditytfloat@figure@box}
7455 \newsavebox{\@biditytfloat@caption@box}
7456 \let\@biditytfloat@orig@float\float

```



```

7457 \let\@biditytfloat@orig@endfloat\endfloat
7458 \newlength{\@biditytfloat@caption@vertical@offset}
7459 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7460 \newcommand{\@biditytfloat@stored@shortcaption}{ }
7461 \newcommand{\@biditytfloat@stored@caption}{ }
7462 \newcommand{\@biditytfloat@stored@label}{ }
7463 \long\def\@biditytfloat@caption[#1][#2]#3{%
7464   \ifthenelse{\isempty{#1}}%
7465     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7466     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7467   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to
7468   \gdef\@biditytfloat@stored@caption{#3}%
7469 }
7470 \newcommand{\@biditytfloat@label}[1]{%
7471   \gdef\@biditytfloat@stored@label{#1}%
7472 }
7473 \newcommand{\@biditytfloat@fps}{ }
7474 \newboolean{\@biditytfloat@float@star}
7475 \newlength{\@biditytfloat@float@contents@width}
7476 \newenvironment{\@biditytfloat@float}[3][htbp]%
7477 {% begin \@biditytfloat@float
7478   % Should this float be full-width or just text-width?
7479   \ifthenelse{\equal{#3}{star}}%
7480     {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7481     {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7482   % Check page side (recto/verso) and store detected value -- can be overridden in environ
7483   \@biditytfloat@checkoddpage%
7484   \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7485     {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Det
7486     {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{De
7487   % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-page
7488   \renewcommand{\@biditytfloat@fps}{#1}%
7489   \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7490   \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7491     {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bo
7492     {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [to
7493   % Capture the contents of the \caption and \label commands to use later
7494   \global\let\@biditytfloat@orig@caption\caption%
7495   \global\let\@biditytfloat@orig@label\label%
7496   \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7497   \renewcommand{\label}[1]{\@biditytfloat@label{#1}}%
7498   % Handle subfigure package compatibility
7499   \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7500     \bidi@patchcmd{\subfigure}{%
7501       \let\subfig@oldlabel=\label
7502     }{%
7503       \let\subfig@oldlabel=\@biditytfloat@orig@label
7504     }
7505   }
7506   {}
7507   \let\subtable=\subfigure
7508 }{}% subfigure package is not loaded
7509 \@biditytfloat@orig@float{#2}[#1]%
7510 \ifthenelse{\boolean{\@biditytfloat@float@star}}%

```



```

7511     {\setlength{\@bituftefloat@float@contents@width}{\@bituftefloat@fullwidth}}%
7512     {\setlength{\@bituftefloat@float@contents@width}{\textwidth}}%
7513     \begin{lrbox}{\@bituftefloat@figure@box}%
7514     \begin{minipage}[\floatalignment]{\@bituftefloat@float@contents@width}\hbox{%
7515 }{% end @bituftefloat@float
7516     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}}%
7517     \end{minipage}%
7518     \end{lrbox}%
7519     % build the caption box
7520     \begin{lrbox}{\@bituftefloat@caption@box}%
7521     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7522     \ifthenelse{\NOT\equal{\@bituftefloat@stored@caption}}{\@bituftefloat@orig@ca
7523     \ifthenelse{\NOT\equal{\@bituftefloat@stored@label}}{\@bituftefloat@orig@labe
7524     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7525     \end{minipage}%
7526     \end{lrbox}%
7527     % now typeset the stored boxes
7528     \begin{fullwidth}%
7529     \begin{minipage}[\floatalignment]{\linewidth}%
7530     \ifthenelse{\boolean{\@bituftefloat@float@star}}%
7531     {\@bituftefloat@float@fullwidth[\@bituftefloat@caption@vertical@offset]{\@bid
7532     {\@bituftefloat@float@textwidth[\@bituftefloat@caption@vertical@offset]{\@bid
7533     \end{minipage}%
7534     \end{fullwidth}%
7535     \@bituftefloat@orig@endfloat% end original LaTeX float environment
7536     % output debug info
7537     \ifthenelse{\boolean{\@bituftefloat@debug}}{%
7538     \typeout{^^J^^J----- bituftefloat package float information -----}%
7539     \ifthenelse{\equal{\@bituftefloat@stored@label}}{%
7540     {\typeout{Warning: Float unlabeled!}}}%
7541     {\typeout{Float label: [\@bituftefloat@stored@label]}}%
7542     \typeout{Page number: [\thepage]}%
7543     \def\MessageBreak{^^J}%
7544     \typeout{\@bituftefloat@float@debug@info}%
7545     \ifthenelse{\boolean{\@bituftefloat@symmetric}}%
7546     {\typeout{Symmetric: [true]}}%
7547     {\typeout{Symmetric: [false]}}%
7548     \typeout{-----^^J^^J}%
7549     }{%
7550     % reset commands and temp boxes and captions
7551     \gdef\@bituftefloat@float@debug@info{%
7552     \let\caption\@bituftefloat@orig@caption%
7553     \let\label\@bituftefloat@orig@label%
7554     \begin{lrbox}{\@bituftefloat@figure@box}\hbox{}\end{lrbox}%
7555     \begin{lrbox}{\@bituftefloat@caption@box}\hbox{}\end{lrbox}%
7556     \gdef\@bituftefloat@stored@shortcaption{%
7557     \gdef\@bituftefloat@stored@caption{%
7558     \gdef\@bituftefloat@stored@label{%
7559     \gsetlength{\@bituftefloat@caption@vertical@offset}{0pt}% reset caption offset
7560     }
7561     \newcommand{\@bituftefloat@float@textwidth}[3][0pt]{%
7562     \ifthenelse{\NOT\boolean{\@bituftefloat@symmetric}}\OR\boolean{\@bituftefloat@float@rect
7563     % asymmetric or page is odd, so caption is on the right
7564     \hbox{%

```



```

7565     \usebox{#2}%
7566     \hspace{\marginparsep}%
7567     \smash{\raisebox{#1}{\usebox{#3}}}%
7568   }
7569   \@bituftefloat@float@debug{Caption position: [right]]%
7570 }{% symmetric pages and page is even, so caption is on the left
7571   \hbox{%
7572     \smash{\raisebox{#1}{\usebox{#3}}}%
7573     \hspace{\marginparsep}%
7574     \usebox{#2}%
7575   }
7576   \@bituftefloat@float@debug{Caption position: [left]]%
7577 }%
7578 }
7579 \newcommand{\@bituftefloat@float@fullwidth}[3][Opt]{%
7580   \ifthenelse{\equal{\floatalignment}{b}}{%
7581     {% place caption above figure
7582       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7583         {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debu
7584         {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debu
7585     }{% place caption below figure
7586       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7587         {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debu
7588         {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debu
7589     }%
7590   }
7591 \renewenvironment{figure}[1][htbp]{%
7592   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
7593   {\end{@bituftefloat@float}}
7594 \renewenvironment{table}[1][htbp]{%
7595   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
7596   {\end{@bituftefloat@float}}
7597 \renewenvironment{figure*}[1][htbp]{%
7598   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
7599   {\end{@bituftefloat@float}}
7600 \renewenvironment{table*}[1][htbp]{%
7601   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
7602   {\end{@bituftefloat@float}}
7603 \newenvironment{fullwidth}{%
7604   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7605     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\begin{adjustwidth*}}{-\@bituftef
7606     {\begin{adjustwidth}}{-\@bituftefloat@overhang}}%
7607   }%
7608   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7609     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth
7610     {\end{adjustwidth}}}%
7611   }
7612 \long\def\@caption#1[#2]#3{%
7613   \par%
7614   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7615   {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7616   \begingroup%
7617   \@parboxrestore%
7618   \if@minipage%

```



```

7619     \@setminipage%
7620     \fi%
7621     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7622     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7623     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7624     \endgroup}
7625 %%
7626 % Turns newlines into spaces. Based on code from the `titlesec' package.
7627 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7628   \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7629 }
7630 \def\@biditytfloat@newlinetospace@i{%
7631   \ifdim\lastskip>\z@\else\space\fi
7632   \ignorespaces%
7633 }
7634 \DeclareRobustCommand{\newlinetospace}[1]{%
7635   \let\@biditytfloat@orig@cr\\% save the original meaning of \\
7636   \def\\{\@biditytfloat@newlinetospace}% turn \\ and \\* into \space
7637   \let\newline\\% turn \newline into \space
7638   #1%
7639   \let\\\\@biditytfloat@orig@cr% revert to original meaning of \\
7640 }
7641 \RequirePackage{fancyhdr}
7642 \pagestyle{fancy}
7643 \AtBeginDocument{%
7644   \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7645     {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}{
7646     {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7647 }
7648 % The running heads/feet don't have rules
7649 \renewcommand{\headrulewidth}{0pt}
7650 \renewcommand{\footrulewidth}{0pt}
7651 % The 'fancy' page style is the default style for all pages.
7652 \fancyhf{} % clear header and footer fields
7653   \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7654     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7655     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7656     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7657 % The `plain' page style is used on chapter opening pages.
7658 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7659 % bottom of pages -- the folios are unexpressed.
7660 \fancypagestyle{plain}{
7661   \fancyhf{} % clear header and footer fields
7662   % Uncomment the following five lines of code if you want the opening page
7663   % of the chapter to express the folio in the lower outside corner.
7664   % \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7665   %   {\fancyfoot[LE,RO]{\thepage}}{
7666   %   {\fancyfoot[RE,RO]{\thepage}}
7667 }
7668 % The `empty' page style suppresses all headers and footers.
7669 % It's used on title pages and `intentionally blank' pages.
7670 \fancypagestyle{empty}{
7671   \fancyhf{} % clear header and footer fields
7672 }

```



```

7673 \def\morefloats{% provides a total of 52 floats
7674   \ifthenelse{\isundefined{\bx@S}}{%
7675     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7676     \newinsert\bx@S
7677     \newinsert\bx@T
7678     \newinsert\bx@U
7679     \newinsert\bx@V
7680     \newinsert\bx@W
7681     \newinsert\bx@X
7682     \newinsert\bx@Y
7683     \newinsert\bx@Z
7684     \newinsert\bx@a
7685     \newinsert\bx@b
7686     \newinsert\bx@c
7687     \newinsert\bx@d
7688     \newinsert\bx@e
7689     \newinsert\bx@f
7690     \newinsert\bx@g
7691     \newinsert\bx@h
7692     \newinsert\bx@i
7693     \newinsert\bx@j
7694     \newinsert\bx@k
7695     \newinsert\bx@l
7696     \newinsert\bx@m
7697     \newinsert\bx@n
7698     \newinsert\bx@o
7699     \newinsert\bx@p
7700     \newinsert\bx@q
7701     \newinsert\bx@r
7702     \newinsert\bx@s
7703     \newinsert\bx@t
7704     \newinsert\bx@u
7705     \newinsert\bx@v
7706     \newinsert\bx@w
7707     \newinsert\bx@x
7708     \newinsert\bx@y
7709     \newinsert\bx@z
7710     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7711       \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7712       \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7713       \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7714       \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7715       \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7716       \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7717       \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7718       \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7719       \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7720       \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7721       \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7722   }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7723     \ifthenelse{\isundefined{\bx@AA}}{%
7724       \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7725       \newinsert\bx@AA
7726       \newinsert\bx@BB

```




```

7727 \newinsert\bx@CC
7728 \newinsert\bx@DD
7729 \newinsert\bx@EE
7730 \newinsert\bx@FF
7731 \newinsert\bx@GG
7732 \newinsert\bx@HH
7733 \newinsert\bx@II
7734 \newinsert\bx@JJ
7735 \newinsert\bx@KK
7736 \newinsert\bx@LL
7737 \newinsert\bx@MM
7738 \newinsert\bx@NN
7739 \newinsert\bx@OO
7740 \newinsert\bx@PP
7741 \newinsert\bx@QQ
7742 \newinsert\bx@RR
7743 \newinsert\bx@SS
7744 \newinsert\bx@TT
7745 \newinsert\bx@UU
7746 \newinsert\bx@VV
7747 \newinsert\bx@WW
7748 \newinsert\bx@XX
7749 \newinsert\bx@YY
7750 \newinsert\bx@ZZ
7751 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7752 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7753 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7754 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7755 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7756 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7757 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7758 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7759 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7760 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7761 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7762 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7763 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7764 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7765 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7766 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7767 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7768 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7769 }{%
7770 \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Messag
7771 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space o
7772 }%
7773 }%
7774 }
7775 \newboolean{@bidituftefloat@packages@subfigure}
7776 \setboolean{@bidituftefloat@packages@subfigure}{false}
7777 \AtBeginDocument{%
7778 \@ifpackageloaded{subfigure}
7779 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{true}}
7780 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{false}}}%

```




```

7781 }
7782 \AtBeginDocument{%
7783   \@ifpackageloaded{float}{%
7784     % Save the redefined float environment (instead of the LaTeX float environment)
7785     \let\@bittuftefloat@orig@float\@float
7786     \let\@bittuftefloat@orig@endfloat\end@float
7787
7788     % Define Tuftian float styles (with the caption in the margin)
7789     \newcommand{\floatc@bittuftefloatplain}[2]{%
7790       \begin{lrbox}{\@bittuftefloat@caption@box}%
7791         \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7792           \@bittuftefloat@caption@font{\@fs@cfont #1:} #2\par%
7793         }\end{minipage}%
7794       \end{lrbox}%
7795       \smash{\hspace{\@bittuftefloat@caption@fill}}\usebox{\@bittuftefloat@caption@box}}%
7796   }
7797   \newcommand{\fs@bittuftefloatplain}{%
7798     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7799     \let\@fs@capt\floatc@bittuftefloatplain%
7800     \def\@fs@pre{}%
7801     \def\@fs@post{}%
7802     \def\@fs@mid{}%
7803     \let\@fs@iftopcapt\iftrue%
7804   }
7805   \let\fs@bittuftefloatplaintop=\fs@bittuftefloatplain
7806   \let\floatc@bittuftefloatplaintop=\floatc@bittuftefloatplain
7807   \newcommand\floatc@bittuftefloatruled[2]{%
7808     {\@fs@cfont #1} #2\par%
7809   }
7810   \newcommand\fs@bittuftefloatruled{%
7811     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7812     \let\@fs@capt\floatc@bittuftefloatplain%
7813     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7814     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7815     \def\@fs@mid{}%
7816     \let\@fs@iftopcapt\iftrue%
7817   }
7818   \newcommand\fs@bittuftefloatboxed{%
7819     \def\@fs@cfont{}%
7820     \let\@fs@capt\floatc@bittuftefloatplain%
7821     \def\@fs@pre{%
7822       \setbox\@currbox\vbox{\hbadness10000
7823         \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7824           \hrule \hbox to\hsize{\vrule\kern3pt
7825             \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7826     }%
7827     \def\@fs@mid{\kern2pt}%
7828     \def\@fs@post{}%
7829     \let\@fs@iftopcapt\iftrue%
7830   }
7831 }{%
7832   % Nothing to do
7833 }
7834 }

```



```

7835 \AtBeginDocument{%
7836   \@ifpackageloaded{algorithm}{%
7837     % Set the float style to the Tufte version
7838     \ifthenelse{equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{bittuftefloat}}{true}{%
7839       \bittuftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to bittuftefloat}%
7840       \floatstyle{\ALG@floatstyle}{bittuftefloat}%
7841       \restylefloat{algorithm}%
7842     }{}%
7843   }{%
7844     % Nothing to do
7845   }
7846 }
7847 \PassOptionsToPackage{caption=false}{subfig}

```

```

7848 \NeedsTeXFormat{LaTeX2e}
7849 \ProvidesPackage{biditytutesidenote}[2017/08/09 v0.4
7850 bidi implementation of tufte sidenote]
7851 \RequirePackage{xifthen}
7852 \RequirePackage{ragged2e}
7853 \RequirePackage{setspace}
7854 \RequirePackage{biditytools}
7855 \def\biditytutesidenotemarginpar{%
7856   \ifhmode
7857     \@bsphack
7858     \@floatpenalty -\@Mii
7859   \else
7860     \@floatpenalty-\@Miii
7861   \fi
7862   \ifinner
7863     \@parmoderr
7864     \@floatpenalty\z@
7865   \else
7866     \@next\@currbox\@freelist{}{}%
7867     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7868     {\@floatpenalty\z@
7869       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7870   \fi
7871   \@ifnextchar [\@biditytutesidenotexmpar\@biditytutesidenoteympar}
7872 \long\def\@biditytutesidenotexmpar[#1]#2{%
7873   \@biditytutesidenotesavemarbox\@marbox{#1}%
7874   \@biditytutesidenotesavemarbox\@currbox{#2}%
7875   \@xympar}
7876 \long\def\@biditytutesidenoteympar#1{%
7877   \@biditytutesidenotesavemarbox\@marbox{#1}%
7878   \global\setbox\@currbox\copy\@marbox
7879   \@xympar}
7880 \long\def \@biditytutesidenotesavemarbox #1#2{%
7881   \global\setbox #1%
7882     \color@vbox
7883     \vtop{%
7884       \hsize\marginparwidth
7885       \@parboxrestore

```



```

7886         \@bidityftesidenotemarginparreset
7887         #2%
7888         \@minipagefalse
7889         \outer@nobreak
7890         }%
7891     \color@endbox
7892 }
7893 \def \@bidityftesidenotemarginparreset {%
7894     \reset@font
7895     \normalsize
7896     \@minipagetrue
7897     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7898 }
7899 \def\LTRbidityftesidenotemarginpar{%
7900     \ifhmode
7901         \@bsphack
7902         \@floatpenalty -\@Mii
7903     \else
7904         \@floatpenalty-\@Miii
7905     \fi
7906     \ifinner
7907         \@parmoderr
7908         \@floatpenalty\z@
7909     \else
7910         \@next\@currbox\@freelist{}{}%
7911         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7912         {\@floatpenalty\z@
7913             \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7914     \fi
7915     \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7916 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7917     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7918     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7919     \@xympar}
7920 \long\def\@LTRbidityftesidenoteympar#1{%
7921     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7922     \global\setbox\@currbox\copy\@marbox
7923     \@xympar}
7924 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7925     \global\setbox #1%
7926         \color@vbox
7927         \vtop{%
7928             \hsize\marginparwidth
7929             \@parboxrestore
7930             \@LTRbidityftesidenotemarginparreset
7931             #2%
7932             \@minipagefalse
7933             \outer@nobreak
7934             }%
7935     \color@endbox
7936 }
7937 \def \@LTRbidityftesidenotemarginparreset {%
7938     \reset@font
7939     \normalsize

```



```

7940         \@minipagetrue
7941         \everypar{\@minipagefalse\everypar{}\beginL}%
7942 }
7943 \def\RTLbidityftesidenotemarginpar{%
7944     \ifhmode
7945         \@bsphack
7946         \@floatpenalty -\@Mii
7947     \else
7948         \@floatpenalty-\@Miii
7949     \fi
7950     \ifinner
7951         \@parmoderr
7952         \@floatpenalty\z@
7953     \else
7954         \@next\@currbox\@freelist{}\{}%
7955         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7956         {\@floatpenalty\z@
7957         \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7958     \fi
7959     \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteypar}
7960 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7961     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7962     \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7963     \@xympar}
7964 \long\def\@RTLbidityftesidenoteypar#1{%
7965     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7966     \global\setbox\@currbox\copy\@marbox
7967     \@xympar}
7968 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7969     \global\setbox #1%
7970     \color@vbox
7971     \vtop{%
7972         \hsize\marginparwidth
7973         \@parboxrestore
7974         \@RTLbidityftesidenotemarginparreset
7975         #2%
7976         \@minipagefalse
7977         \outer@nobreak
7978     }%
7979     \color@endbox
7980 }
7981 \def \@RTLbidityftesidenotemarginparreset {%
7982     \reset@font
7983     \normalsize
7984     \@minipagetrue
7985     \everypar{\@minipagefalse\everypar{}\beginR}%
7986 }
7987 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7988 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7989 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7990 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7991 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7992 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7993 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}

```



```

7994 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7995 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7996 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7997 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7998 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7999 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
8000 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
8001 \newcommand*{\setRTLsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLsidenote@font}{#1}}
8002 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
8003 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
8004 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
8005 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
8006 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
8007 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
8008 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@normal}
8009 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@normal}
8010 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@normal}
8011 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
8012 \newcommand{\@bidityftesidenote@margin@par}{%
8013   \setlength{\RaggedRightParindent}{0.5pc}%
8014   \setlength{\JustifyingParindent}{0.5pc}%
8015   \setlength{\parindent}{0.5pc}%
8016   \setlength{\parskip}{0pt}%
8017 }
8018 %%
8019 % Globally sets the length
8020 \ifundefined{gsetlength}{%
8021 \newcommand*{gsetlength}[2]{%
8022   \setlength{#1}{#2}%
8023   \global#1=#1\relax%
8024 }%
8025 }{}
8026
8027 %%
8028 % A function that removes leading and trailing spaces from the supplied macro.
8029 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8030 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
8031 % being trimmed of leading and trailing white space.
8032 \catcode`\Q=3
8033 \def\@bidityftesidenote@trim@spaces#1{%
8034   % Use grouping to emulate a multi-token afterassignment queue
8035   \begingroup%
8036   % Put ``\toks 0 {' into the afterassignment queue
8037   \aftergroup\toks\aftergroup0\aftergroup{%
8038     % Apply \trimb to the replacement text of #1, adding a leading
8039     % \noexpand to prevent brace stripping and to serve another purpose
8040     % later.
8041     \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8042   % Transfer the trimmed text back into #1.
8043   \edef#1{\the\toks0}%
8044 }
8045 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8046 % clean up any leftover bizarre Qs, and trim a leading space. In
8047 % order for \trimc to work properly we need to put back a Q first.

```



```

8048 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8049 % Execute \vfuzz assignment to remove leading space; the \noexpand
8050 % will now prevent unwanted expansion of a macro or other expandable
8051 % token at the beginning of the trimmed text. The \endgroup will feed
8052 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8053 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8054 \catcode`\Q=11
8055 %%
8056 % Citations should go in the margin as sidenotes
8057
8058 \RequirePackage{natbib}
8059 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography en
8060 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8061 \renewcommand\BR@b@bibitem[2] []{%
8062   \ifthenelse{\isempty{#1}}{%
8063     {\BR@bibitem{#2}}%
8064     {\BR@bibitem{#1}{#2}}%
8065   \BR@c@bibitem{#2}%
8066 }
8067 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8068 %%
8069 % Normal \cite behavior
8070 \newcounter{@bidityftesidenote@num@bibkeys}%
8071 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
8072   % Snag the last bibentry in the list for later comparison
8073   \let\@temp@last@bibkey\@empty%
8074   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8075   \sidenote[] [1]{%
8076     % Loop through all the bibentries, separating them with semicolons and spaces
8077     \normalsize\normalfont\@bidityftesidenote@citation@font%
8078     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8079     \@for\@temp@bibkeyx:=#2\do{%
8080       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8081       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8082         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8083         \bibentry{\@temp@bibkeyx}}%
8084       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8085         \bibentry{\@temp@bibkeyx};\ }%
8086       \stepcounter{@bidityftesidenote@num@bibkeys}%
8087     }%
8088   }%
8089 }
8090 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%
8091   % Snag the last bibentry in the list for later comparison
8092   \let\@temp@last@bibkey\@empty%
8093   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8094   \LTRsidenote[] [1]{%
8095     % Loop through all the bibentries, separating them with semicolons and spaces
8096     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
8097     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8098     \@for\@temp@bibkeyx:=#2\do{%
8099       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8100       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8101         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

8102         \bibentry{\@temp@bibkeyx}}%
8103         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8104         \bibentry{\@temp@bibkeyx};\ }%
8105         \stepcounter{\@bidityftesidenote@num@bibkeys}%
8106     }%
8107 }%
8108 }
8109 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
8110     % Snag the last bibentry in the list for later comparison
8111     \let\@temp@last@bibkey\@empty%
8112     \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8113     \RTLsidenote[] [#1]{%
8114         % Loop through all the bibentries, separating them with semicolons and spaces
8115         \normalsize\normalfont\@bidityftesidenote@citation@font%
8116         \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8117         \@for\@temp@bibkeyx:=#2\do{%
8118             \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8119             {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8120             \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8121             \bibentry{\@temp@bibkeyx}}%
8122             {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8123             \bibentry{\@temp@bibkeyx};\ }%
8124             \stepcounter{\@bidityftesidenote@num@bibkeys}%
8125         }%
8126     }%
8127 }
8128 %%
8129 % Macros for holding the list of cite keys until after the \sidenote
8130 \gdef\@bidityftesidenote@citations{}% list of cite keys
8131 \newcommand{\@bidityftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cit
8132     \ifx\@bidityftesidenote@citations\@empty\else
8133         \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
8134     \fi
8135     \g@addto@macro\@bidityftesidenote@citations{#1}
8136 }
8137 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin n
8138     % Snag the last bibentry in the list for later comparison
8139     \let\@temp@last@bibkey\@empty%
8140     \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}
8141     \marginpar{%
8142         \hbox{\vspace*{#1}}%
8143         \@bidityftesidenote@citation@font%
8144         \@bidityftesidenote@citation@justification%
8145         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8146         \vspace*{-1\baselineskip}%
8147         % Loop through all the bibentries, separating them with semicolons and spaces
8148         \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8149         \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8150             \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8151             {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8152             \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8153             \bibentry{\@temp@bibkeyx}}%
8154             {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8155             \bibentry{\@temp@bibkeyx};\ }%

```



```

8156     \stepcounter{@biditytesidenote@num@bibkeys}%
8157   }%
8158 }%
8159 }
8160 %%
8161 % \cite behavior when executed within a sidenote
8162 \newcommand{@biditytesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8163 \newcommand{@biditytesidenote@infootnote@cite}[1]{%
8164   \@biditytesidenote@add@citation{#1}
8165 }
8166 %%
8167 % Set the default \cite style. This is set and reset by the \sidenote command.
8168 \let\cite\@biditytesidenote@normal@cite
8169 \let\LTRcite\@bidityteLTRsidenote@normal@cite
8170 \let\RTLcite\@bidityteRTLsidenote@normal@cite
8171 %%
8172 % Transform existing \footnotes into \sidenotes
8173 % Sidenote: ``Where God meant footnotes to go.''' ---biditytesidenote
8174 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arg
8175 \providecommand{\footnotelayout}{\@biditytesidenote@sidenote@font\@biditytesidenote@sidenote}
8176 \renewcommand{\footnotelayout}{\@biditytesidenote@sidenote@font\@biditytesidenote@sidenote}
8177 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8178 % sidenote's text block.
8179 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@biditytesidenote}
8180 % Set the in-text footnote mark in the same typeface as the body text itself.
8181 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnot
8182 \providecommand*\multiplefootnotemarker}{3sp}
8183 \providecommand*\multfootsep}{,}
8184 \bidi@patch@AfterPackage{bidi}{%
8185 \renewcommand{\@footnotemark}{%
8186   \leavevmode%
8187   \ifhmode%
8188     \edef\@x@sf{\the\spacefactor}%
8189     \@biditytesidenote@check@multiple@sidenotes%
8190     \nobreak%
8191     \fi%
8192     \@makefnmark%
8193     \ifhmode\spacefactor\@x@sf\fi%
8194     \relax%
8195 }%
8196 }
8197 \newcommand{@biditytesidenote@check@multiple@sidenotes}{%
8198   \ifdim\lastkern=\multiplefootnotemarker\relax%
8199     \edef\@x@sf{\the\spacefactor}%
8200     \unkern%
8201     \textsuperscript{\multfootsep}%
8202     \spacefactor\@x@sf\relax%
8203     \fi
8204 }
8205 \bidi@patch@AfterPackage{bidi}{%
8206 \renewcommand\@footnotetext[2][Opt]{%
8207   \biditytesidenotemarginpar{%
8208     \hbox{\vspace*{#1}}%
8209     \def\baselinestretch {\setspace@singlespace}%

```




```

8210 \reset@font%
8211 \bidi@@footnotetext@font% \reset@font\footnotesize%
8212 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8213 \vspace*{-1\baselineskip}\noindent%
8214 \protected@edef\@currentlabel{%
8215     \csname p@footnote\endcsname\@thefnmark%
8216 }%
8217 \color@begingroup%
8218     \@makefntext{%
8219         \ignorespaces#2%
8220     }%
8221 \color@endgroup%
8222 }%
8223 }%
8224 \renewcommand\LTRfootnotetext[2][Opt]{%
8225     \LTRbidiuftesidenotemarginpar{%
8226         \hbox{}\vspace*{#1}%
8227         \def\baselinestretch {\setspace@singlespace}%
8228         \reset@font%
8229         \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8230         \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8231         \vspace*{-1\baselineskip}\noindent%
8232         \protected@edef\@currentlabel{%
8233             \csname p@footnote\endcsname\@thefnmark%
8234         }%
8235         \color@begingroup%
8236             \@makefntext{%
8237                 \ignorespaces#2%
8238             }%
8239         \color@endgroup%
8240     }%
8241 }%
8242 \renewcommand\RTLfootnotetext[2][Opt]{%
8243     \RTLbidiuftesidenotemarginpar{%
8244         \hbox{}\vspace*{#1}%
8245         \def\baselinestretch {\setspace@singlespace}%
8246         \reset@font%
8247         \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8248         \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8249         \vspace*{-1\baselineskip}\noindent%
8250         \protected@edef\@currentlabel{%
8251             \csname p@footnote\endcsname\@thefnmark%
8252         }%
8253         \color@begingroup%
8254             \@makefntext{%
8255                 \ignorespaces#2%
8256             }%
8257         \color@endgroup%
8258     }%
8259 }%
8260 }
8261 %
8262 % Define \sidenote command. Can handle \cite.
8263 \newlength{\@bidiuftesidenote@sidenote@vertical@offset}

```



```

8264 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8265 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8266 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8267   \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8268   \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8269   \ifthenelse{\NOT\isempty{#2}}{%
8270     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8271   }{%
8272     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8273   }%
8274   \ifthenelse{\isempty{#1}}{%
8275     % no specific footnote number provided
8276     \stepcounter\@mpfn%
8277     \protected@xdef\@thefnmark{\thempfn}%
8278     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8279   }{%
8280     % specific footnote number provided
8281     \begingroup%
8282       \csname c@\@mpfn\endcsname #1\relax%
8283       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8284     \endgroup%
8285     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8286   }%
8287   \@bidityftesidenote@print@citations%                print any citations
8288   \let\cite\@bidityftesidenote@normal@cite%           go back to using normal in-text \cite com
8289   \let\LTRcite\@bidityftelTRSidenote@normal@cite%     go back to using normal in-text \LT
8290   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%     go back to using normal in-text \RT
8291   \unskip\ignorespaces%                               remove extra white space
8292   \kern-\multiplefootnotemarker%                      remove \kern left behind by sidenote
8293   \kern\multiplefootnotemarker\relax%                add new \kern here to replace the one we yanked
8294 }
8295 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8296   \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8297   \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8298   \ifthenelse{\NOT\isempty{#2}}{%
8299     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8300   }{%
8301     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8302   }%
8303   \ifthenelse{\isempty{#1}}{%
8304     % no specific footnote number provided
8305     \stepcounter\@mpfn%
8306     \protected@xdef\@thefnmark{\thempfn}%
8307     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8308   }{%
8309     % specific footnote number provided
8310     \begingroup%
8311       \csname c@\@mpfn\endcsname #1\relax%
8312       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8313     \endgroup%
8314     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8315   }%
8316   \@bidityftesidenote@print@citations%                print any citations
8317   \let\cite\@bidityftesidenote@normal@cite%           go back to using normal in-text \cite com

```



```

8318 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8319 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8320 \unskip\ignorespaces%                               remove extra white space
8321 \kern-\multiplefootnotemarker%                     remove \kern left behind by sidenote
8322 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8323 }
8324 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8325 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8326 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8327 \ifthenelse{\NOT\isempty{#2}}{%
8328 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8329 }{%
8330 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8331 }%
8332 \ifthenelse{\isempty{#1}}{%
8333 % no specific footnote number provided
8334 \stepcounter\@mpfn%
8335 \protected@xdef\@thefnmark{\thempfn}%
8336 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8337 }{%
8338 % specific footnote number provided
8339 \begingroup%
8340 \csname c@\@mpfn\endcsname #1\relax%
8341 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8342 \endgroup%
8343 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8344 }%
8345 \@bidityftesidenote@print@citations%                print any citations
8346 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite com
8347 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8348 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8349 \unskip\ignorespaces%                               remove extra white space
8350 \kern-\multiplefootnotemarker%                     remove \kern left behind by sidenote
8351 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8352 }
8353 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8354 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8355 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8356 \bidi@patch@AfterPackage{bidi}{%
8357 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8358 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8359 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8360 }
8361 %%
8362 % Sidenote without the footnote mark
8363 \newcommand\marginnote[2][Opt]{%
8364 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8365 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8366 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity
8367 \@bidityftesidenote@print@citations%                print any citations
8368 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite com
8369 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8370 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8371 }

```



```

8372 \newcommand\LTRmarginnote[2][Opt]{%
8373   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8374   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8375   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\
8376   \@bidityftesidenote@print@citations%            print any citations
8377   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite com
8378   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8379   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8380 }
8381 \newcommand\RTLmarginnote[2][Opt]{%
8382   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8383   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8384   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\
8385   \@bidityftesidenote@print@citations%            print any citations
8386   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite com
8387   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8388   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8389 }

```

55 File bidityftetoc.sty

```

8390 \NeedsTeXFormat{LaTeX2e}
8391 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8392 bidi implementation of tufte toc]
8393 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8394 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8395 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8396 %%
8397 % Turn off section numbering
8398 \setcounter{secnumdepth}{-1}
8399 \newboolean{\@bidityftetoc@toc}
8400 \setboolean{\@bidityftetoc@toc}{true}
8401 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8402 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8403 \ProcessOptions
8404 %%
8405 % Make Tuftean-style section headings and TOC formatting
8406 \bidi@patch@AfterPackage{bidi}{%
8407   \titleformat{\chapter}%
8408     [display]% shape
8409     {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8410     {\itshape\huge\thechapter}% label
8411     {0pt}% horizontal separation between label and title body
8412     {\huge\rmfamily\itshape}% before the title body
8413     [\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the titl
8414   \titleformat{\section}%
8415     [hang]% shape
8416     {\normalfont\Large\itshape}% format applied to label+text
8417     {\thesection}% label
8418     {1em}% horizontal separation between label and title body
8419     {}% before the title body
8420     []% after the title body
8421   \titleformat{\subsection}%
8422     [hang]% shape

```



```

8423 {\normalfont\large\itshape}% format applied to label+text
8424 {\thesubsection}% label
8425 {1em}% horizontal separation between label and title body
8426 {}% before the title body
8427 []% after the title body
8428 \titleformat{\paragraph}%
8429 [runin]% shape
8430 {\normalfont\itshape}% format applied to label+text
8431 {\theparagraph}% label
8432 {1em}% horizontal separation between label and title body
8433 {}% before the title body
8434 []% after the title body
8435 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8436 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8437 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8438 }
8439 % Subsubsection and following section headings shouldn't be used.
8440 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8441 \renewcommand\subsubsection{%
8442   \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8443     \MessageBreak See Robert Bringhurst's _The Elements of
8444     \MessageBreak Typographic Style_, section 4.2.2.
8445     \MessageBreak \noexpand\subsubsection was used}
8446     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8447     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8448     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8449 }
8450 \renewcommand\subparagraph{%
8451   \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8452     \MessageBreak See Robert Bringhurst's _The Elements of
8453     \MessageBreak Typographic Style_, section 4.2.2.
8454     \MessageBreak \noexpand\subparagraph was used}
8455     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8456     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8457     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8458 }
8459 % Formatting for main TOC (printed in front matter)
8460 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8461 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8462   \bidi@patch@AfterPackage{bidi}{%
8463     \titlecontents{part}% FIXME
8464     [0em] % distance from left margin
8465     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8466     {\contentslabel{2em}} % before w/label (label = ``II'')
8467     {} % before w/o label
8468     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8469     [\end{fullwidth}] % after
8470     \titlecontents{chapter}%
8471     [0em] % distance from left margin
8472     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8473     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8474     {\hspace*{0em}} % before w/o label
8475     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8476     [\end{fullwidth}] % after

```



```

8477 \titlecontents{section}% FIXME
8478 [0em] % distance from left margin
8479 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global forma
8480 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8481 {\hspace*{2em}} % before w/o label
8482 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8483 [\end{fullwidth}] % after
8484 \titlecontents{subsection}% FIXME
8485 [0em] % distance from left margin
8486 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global forma
8487 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8488 {\hspace*{4em}} % before w/o label
8489 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8490 [\end{fullwidth}] % after
8491 \titlecontents{paragraph}% FIXME
8492 [0em] % distance from left margin
8493 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global
8494 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8495 {\hspace*{6em}} % before w/o label
8496 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8497 [\end{fullwidth}] % after
8498 }%
8499 }{}
8500 %%
8501 % Format lists of figures/tables
8502 \renewcommand\listoffigures{%
8503 \ifundefined{chapter}%
8504 {\section*{\listfigurename}}%
8505 {\chapter*{\listfigurename}}%
8506 % \begin{fullwidth}%
8507 % \@starttoc{lof}%
8508 % \end{fullwidth}%
8509 }
8510 \renewcommand\listoftables{%
8511 \ifundefined{chapter}%
8512 {\section*{\listtablename}}%
8513 {\chapter*{\listtablename}}%
8514 % \begin{fullwidth}%
8515 % \@starttoc{lot}%
8516 % \end{fullwidth}%
8517 }
8518 \newcommand{\@biditytetoc@lof@line}[2]{%
8519 % #1 is the figure/table number and its caption text
8520 % #2 is the page number on which the figure/table appears
8521 \leftskip 0.0em
8522 \rightskip 0em
8523 \parfillskip 0em plus 1fil
8524 \parindent 0.0em
8525 \@afterindenttrue
8526 \interlinepenalty \@M
8527 \leavevmode
8528 \@tempdima 2.0em
8529 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8530 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

8531 {#1}\nobreak\qqquad\nobreak#2%
8532 \par%
8533 }
8534 \renewcommand*\l@figure{\@bidityfttetoc@lof@line}
8535 \let\l@table\l@figure

```

56 File bidityfttegeneralstructure.sty

```

8536 \NeedsTeXFormat{LaTeX2e}
8537 \ProvidesPackage{bidityfttegeneralstructure}[2011/06/18 v0.1
8538 bidi implementation of tufte general structure]
8539 \renewcommand\small{%
8540   \@setfontsize\small\@ixpt{12}%
8541   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8542   \abovedisplayskip \z@ \@plus2\p@
8543   \belowdisplayskip 4\p@ \@plus2\p@ \@minus2\p@
8544   \def\@listi{\leftmargin\leftmargini
8545             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8546             \parsep 2\p@ \@plus\p@ \@minus\p@
8547             \itemsep \parsep}%
8548   \belowdisplayskip \abovedisplayskip
8549 }
8550 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8551 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8552 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8553 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8554 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8555 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8556 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8557 \setlength\leftmargini {1pc}
8558 \setlength\leftmarginii {1pc}
8559 \setlength\leftmarginiii {1pc}
8560 \setlength\leftmarginiv {1pc}
8561 \setlength\leftmarginv {1pc}
8562 \setlength\leftmarginvi {1pc}
8563 \setlength\labelsep {.5pc}
8564 \setlength\labelwidth {\leftmargini}
8565 \addtolength\labelwidth{-\labelsep}
8566 \setlength{\parindent}{1.0pc}%
8567 \setlength{\parskip}{0pt}%
8568 \RequirePackage{ragged2e}
8569 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8570 % Paragraph indentation and separation for normal text
8571 \newcommand{\@bidityfttegeneralstructure@reset@par}{%
8572   \setlength{\RaggedRightParindent}{1.0pc}%
8573   \setlength{\JustifyingParindent}{1.0pc}%
8574   \setlength{\parindent}{1pc}%
8575   \setlength{\parskip}{0pt}%
8576 }
8577 \@bidityfttegeneralstructure@reset@par
8578 % Require paralist package for tighter lists
8579 \RequirePackage{paralist}
8580 % Add rightmargin to compactenum
8581 \def\@compactenum{%

```




```

8582 \expandafter\list\csname label\@enumctr\endcsname{%
8583 \usecounter{\@enumctr}%
8584 \rightmargin=2em% added this
8585 \parsep\plparsep
8586 \itemsep\plitemsep
8587 \topsep\pltopsep
8588 \partopsep\plpartopsep
8589 \def\makelabel##1{\hss\llap{##1}}}}
8590 %%
8591 % An environment for paragraph-style section
8592 \providecommand\newthought[1]{%
8593 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8594 \noindent\textbf{#1}%
8595 }
8596 %%
8597 % Redefine the display environments (quote, quotation, etc.)
8598 \renewenvironment{verse}
8599 {\let\\@centercr
8600 \list{}\itemsep \z@
8601 \itemindent -1pc%
8602 \listparindent\itemindent
8603 \rightmargin \leftmargin
8604 \advance\leftmargin 1pc}%
8605 \small%
8606 \item\relax}
8607 {\endlist}
8608 \renewenvironment{quotation}
8609 {\list{}\listparindent 1pc%
8610 \itemindent \listparindent
8611 \rightmargin \leftmargin
8612 \parsep \z@ \@plus\p@}%
8613 \small%
8614 \item\relax\noindent\ignorespaces}
8615 {\endlist}
8616 \renewenvironment{quote}
8617 {\list{}\rightmargin\leftmargin}%
8618 \small%
8619 \item\relax}
8620 {\endlist}
8621 % Italicize description run-in headings (instead of the default bold)
8622 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8623 %%
8624 % Redefine \bibsection to not mark the running heads.
8625 % (Code modified from natbib.sty.)
8626 \@ifundefined{chapter}%
8627 {\renewcommand\bibsection{\section*{\refname}}}
8628 {\@ifundefined{NAT@sectionbib}%
8629 {\renewcommand\bibsection{\chapter{\bibname}}}
8630 {\renewcommand\bibsection{\section*{\bibname}}}}
8631 \RequirePackage{multicol}
8632 \renewenvironment{theindex}{%
8633 \@ifundefined{chapter}%
8634 {\section*{\indexname}}%
8635 {\chapter{\indexname}}%

```




```

8636 \begin{fullwidth}%
8637 \small%
8638 \parskip0pt%
8639 \parindent0pt%
8640 \let\item\@idxitem%
8641 \begin{multicols}{3}%
8642 }{%
8643 \end{multicols}%
8644 \end{fullwidth}%
8645 }
8646 \AtBeginDocument{%
8647 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8648 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8649 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8650 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8651 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8652 \NeedsTeXFormat{LaTeX2e}
8653 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8654 bidi implementation of tufte hyperref]
8655 %%
8656 % Color
8657 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8658 \newboolean{@bidituftehyperref@loadhyper}
8659 \setboolean{@bidituftehyperref@loadhyper}{true}
8660 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8661 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8662 \ProcessOptions
8663 %% Loads the hyperref package and sets some default options.
8664 \newcommand{\bidituftehyperrefLoadHyperref}{%
8665 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8666 \hypersetup{%
8667     bookmarksdepth = section,
8668     citecolor = DarkGreen,
8669     linkcolor = DarkBlue,
8670 %     pagecolor = DarkBlue,
8671     urlcolor = DarkGreen,
8672 }%
8673 }
8674 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8675 \bidituftehyperrefLoadHyperref%
8676 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8677 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8678 }

```

58 File `bidituftetitle.sty`

```

8679 \NeedsTeXFormat{LaTeX2e}
8680 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8681 bidi implementation of tufte title]
8682 \RequirePackage{biditools}
8683 %%

```



```

8684 % `titlepage' option -- creates a full title page with \maketitle
8685 \newboolean{@bidityttitle@titlepage}
8686 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8687 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8688 % Default `book' and `handout' options
8689 \@ifclassloaded{book}{%
8690 \ExecuteOptions{titlepage}}{%
8691 \@ifclassloaded{article}{%
8692 \ExecuteOptions{notitlepage}}%
8693 {}}
8694 \ProcessOptions
8695 %%
8696 % Modified \title, \author, and \date commands. These store the
8697 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8698 \newcommand{\plaintitle}{}% plain-text-only title
8699 \newcommand{\plainauthor}{}% plain-text-only author
8700 \newcommand{\plainpublisher}{}% plain-text-only publisher
8701 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8702 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8703 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8704 \newcommand{\@publisher}{}% full publisher with \thanks{}
8705 \newcommand{\thedata}{\today}
8706 \bidi@patch@AfterPackage{bidi}{%
8707 \renewcommand{\thanks}[1]{\footnote{#1}}
8708 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8709 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8710 }
8711 \renewcommand{\title}[2][]{%
8712 \gdef\@title{#2}%
8713 \begingroup%
8714 % TODO store contents of \thanks command
8715 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8716 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8717 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8718 \protected@xdef\thanklesstitle{#2}%
8719 \endgroup%
8720 \ifthenelse{\isempty{#1}}%
8721 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8722 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8723 \@ifundefined{hypersetup}%
8724 {}% hyperref is not loaded; do nothing
8725 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8726 }
8727 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8728 \renewcommand{\author}[2][]{%
8729 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8730 \begingroup%
8731 % TODO store contents of \thanks command
8732 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8733 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8734 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8735 \protected@xdef\thanklessauthor{#2}%
8736 \endgroup%
8737 \ifthenelse{\isempty{#1}}%

```



```

8738     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8739     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8740     \@ifundefined{hypersetup}%
8741     {}% hyperref is not loaded; do nothing
8742     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8743 }
8744 \renewcommand{\date}[1]{%
8745     \gdef\@date{#1}%
8746     \begingroup%
8747     % TODO store contents of \thanks command
8748     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8749     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8750     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8751     \protected@xdef\thedate{#1}%
8752     \endgroup%
8753 }
8754 %%
8755 % Provides a \publisher command to set the publisher
8756 \newcommand{\publisher}[2][]{%
8757     \gdef\@publisher{#2}%
8758     \begingroup%
8759     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8760     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8761     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8762     \protected@xdef\thanklesspublisher{#2}%
8763     \endgroup%
8764     \ifthenelse{\isempty{#1}}{
8765         {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8766         {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8767     }
8768 %%
8769 % Produces a full title page
8770 \newcommand{\maketitlepage}[0]{%
8771     \cleardoublepage%
8772     {%
8773         \bfseries%
8774         \begin{fullwidth}%
8775         \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8776         \vspace{11.5pc}%
8777         \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8778         \vfill%
8779         \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8780         \end{fullwidth}%
8781     }
8782     \thispagestyle{empty}%
8783     \clearpage%
8784 }
8785 %%
8786 % Title block
8787 \bidi@AfterEndPreamble{%
8788 \renewcommand{\maketitle}{%
8789     \newpage%
8790     \global\@topnum\z@% prevent floats from being placed at the top of the page
8791     \begingroup%

```



```

8792 \setlength{\parindent}{0pt}%
8793 \setlength{\parskip}{4pt}%
8794 \let\@title\@empty%
8795 \let\@author\@empty%
8796 \let\@date\@empty%
8797 \gdef\@title{\LARGE\itshape\@title\par}%
8798 \gdef\@author{\Large\itshape\@author\par}%
8799 \gdef\@date{\Large\itshape\@date\par}%
8800 \@title%
8801 \@author%
8802 \@date%
8803 \endgroup%
8804 \thispagestyle{plain}% suppress the running head
8805 }%
8806 }
8807 %%
8808 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8809 % class.)
8810 \bidentuftetitle@AfterEndPreamble{%
8811 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}
8812 {\renewcommand{\maketitle}{\maketitlepage}}
8813 {}
8814 }
8815 %%
8816 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8817 % without headers and footers
8818 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8819 \hbox{}
8820 %\vspace*{\fill}
8821 %\begin{center}
8822 % This page intentionally contains only this sentence.
8823 %\end{center}
8824 %\vspace{\fill}
8825 \thispagestyle{empty}
8826 \newpage
8827 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File bidentuftte-handout.cls

```

8828 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8829 \ProvidesClass{bidentuftte-handout}[2011/06/18 v0.1 bidentuftte-handout class]
8830 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8831 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttefloat}}
8832 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttetoc}}
8833 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttehyperref}}
8834 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttetitle}}
8835 \ProcessOptions\relax
8836 \LoadClass{article}
8837 \RequirePackage{bidentufttefloat}
8838 \RequirePackage{bidentufttesidenote}
8839 \RequirePackage{bidentufttetoc}
8840 \RequirePackage{bidentufttegeneralstructure}
8841 \RequirePackage{bidentufttehyperref}
8842 \RequirePackage{bidentufttetitle}

```



```

8843 \renewenvironment{abstract}
8844   {\begin{quotation}}
8845   {\end{quotation}}
8846 \AtBeginDocument{%
8847 \IfFileExists{biditufte-handout.cfg}
8848   {\input{biditufte-handout.cfg}
8849     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8850   }%
8851 }

```

60 File biditufte-book.cls

```

8852 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8853 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8854 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8855 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8856 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8857 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8858 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8859 \ProcessOptions\relax
8860 \LoadClass{book}
8861 \RequirePackage{bidituftefloat}
8862 \RequirePackage{bidituftesidenote}
8863 \RequirePackage{bidituftetoc}
8864 \RequirePackage{bidituftegeneralstructure}
8865 \RequirePackage{bidituftehyperref}
8866 \RequirePackage{bidituftetitle}
8867 %%
8868 % Set up any book-specific stuff now
8869 %%
8870 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8871 % to the opening page of Chapter 1. The running heads, when they appear,
8872 % contain only the (arabic) page number in the outside corner.
8873 %\newif\if@mainmatter \@mainmattertrue
8874 \renewcommand\frontmatter{%
8875   \cleardoublepage%
8876   \@mainmatterfalse%
8877   \pagenumbering{arabic}%
8878   %\pagestyle{plain}%
8879   \fancyhf{}%
8880   \ifthenelse{\boolean{@bidituftefloat@twoside}}{%
8881     {\fancyhead[LE,RO]{\thepage}}%
8882     {\fancyhead[RE,RO]{\thepage}}%
8883   }
8884   %%
8885 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8886 % numbering---it continues where it left off in the front matter.
8887 \renewcommand\mainmatter{%
8888   \cleardoublepage%
8889   \@mainmattertrue%
8890   \fancyhf{}%
8891   \ifthenelse{\boolean{@bidituftefloat@twoside}}{%
8892     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8893     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title

```



```

8894      \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8895      {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8896 }
8897 %%
8898 % The back matter contains appendices, indices, glossaries, endnotes,
8899 % bibliographies, list of contributors, illustration credits, etc.
8900 \renewcommand\backmatter{%
8901   \if@openright%
8902     \cleardoublepage%
8903   \else%
8904     \clearpage%
8905   \fi%
8906   \@mainmatterfalse%
8907 }
8908 %%
8909 % Only show the chapter titles in the table of contents
8910 \setcounter{tocdepth}{0}
8911 \AtBeginDocument{%
8912   \IfFileExists{biditufte-book.cfg}
8913   {\input{biditufte-book.cfg}
8914     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8915   {}%
8916 }

```

61 File bidipoem.sty

```

8917 \NeedsTeXFormat{LaTeX2e}
8918 \ProvidesPackage{bidipoem}%
8919 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8920
8921 % Usage:
8922 %
8923 % \Setversedim #1#2   % define the layout (within a group):
8924 % #1 = length of both half-verses
8925 % #2 = separation distance = length of a connection, if present
8926 % Variant:
8927 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8928 % #1 = length of first (=right) half-verse
8929 % #2 = length of second (=left) half-verse
8930 % #3 = separation distance = length of a connection, if present
8931 %
8932 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8933 % #1 = text of first (=right) half-verse
8934 % #2 = text of second (=left) half-verse
8935 % Variant:
8936 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8937 % #1 = text of first (=right) half-verse
8938 % #2 = text of connection
8939 % #3 = text of second (=left) half-verse
8940 %
8941 % Alternative (if preferred):
8942 %
8943 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8944

```



```

8945
8946 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8947
8948 % define the layout, verses will be centered
8949
8950 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8951 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8952
8953 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8954 \bidipoem@hvind \textwidth
8955 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8956 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8957 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipo
8958
8959 \def \bidipoem@set@verseI [#1]{% optional parameter
8960 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8961
8962 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8963 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8964 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8965
8966 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8967 \ifdim Opt > \bidipoem@hvind %
8968 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8969 \else
8970 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8971 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8972 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8973 \par }
8974
8975 % macro for two half verses
8976 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8977 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}}%
8978 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}\hfill}{#2}}\fi%
8979 \bidipoem@half@verses@next}
8980
8981 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8982 \traditionalconnverses {#1}{#2}{#3}}
8983
8984
8985 {\catcode\^^M=\active % these lines must end with %
8986 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8987 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8988 {\catcode\^^M=\active % these lines must end with %
8989 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8990 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8991 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8992 \def\poemmarginsskip{1em plus 1fil minus 1em}
8993 \def\poemextrabaselineskip{0\baselineskip}
8994 \def\poemskip{\medskip}
8995 \newcommand{\bidipoem@openbox}{\leavevmode
8996 \hbox to.77778em{%
8997 \hfil\vrule
8998 \vbox to.675em{\hrule width.6em\vfil\hrule}%

```



```

8999 \vrule\hfil}}
9000 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9001 \newdimen\versewidth
9002 \newtoks\bidipoem@p@ftn
9003 \def\poem@verse#1{%
9004 \ifdim\wd#1>\new@poem@width
9005 \xdef\new@poem@width{\the\wd#1}%
9006 \ifdim\new@poem@width>\poem@width
9007 \xdef\poem@width{\new@poem@width}%
9008 \global\let\poem@needrun\relax
9009 \fi
9010 \fi
9011 \hbox to\poem@width{\unhbox#1}%
9012 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9013 }
9014 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
9015 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
9016 \def\poem@lineversesep{%
9017 \nobreak
9018 \hskip\z@ plus 1filll%
9019 \penalty600%
9020 \hskip\poemcolsepskip
9021 \hskip\z@ plus -2filll%
9022 \vadjust{}}%
9023 \nobreak
9024 \hskip\z@ plus 1filll%
9025 }
9026 \def\poem@lineparsebegin{%
9027 \halign\bgroup
9028 \global\setbox\verse@i=\hbox{%
9029 \let\@footnotetext\bidipoem@p@ftntext%
9030 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9031 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9032 \let\@xfootnotenext\bidipoem@p@xftntext%
9033 \let\@xfootnote\bidipoem@p@xfootnote%
9034 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9035 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9036 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9037 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9038 \ignorespaces##\unskip}&&
9039 \global\setbox\verse@ii=\hbox{%
9040 \let\@footnotetext\bidipoem@p@ftntext%
9041 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9042 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9043 \let\@xfootnotenext\bidipoem@p@xftntext%
9044 \let\@xfootnote\bidipoem@p@xfootnote%
9045 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9046 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9047 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9048 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9049 \ignorespaces##\unskip}
9050 \cr
9051 }
9052 \def\poem@lineparseend{%

```




```

9053 \crr\egroup
9054 \vskip-\baselineskip
9055 }
9056 \def\traditionalpoem@cr{%
9057   \cr\poem@line
9058 }
9059 \newbox\verse@i
9060 \newbox\verse@ii
9061 \newif\ifpoem@started
9062
9063 \def\poem@line{%
9064   \poem@lineparseend
9065   \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9066   \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9067   \ifpoem@started
9068     \ifdim\wd\verse@ii>\z@\else
9069       \nopagebreak[3]
9070     \fi
9071     \leavevmode
9072     \poem@linebegin
9073     \poem@verse\verse@i
9074     \ifdim\wd\verse@ii>\z@
9075       \poem@lineversesep
9076       \poem@verse\verse@ii
9077     \fi
9078     \poem@lineend
9079   % \nopagebreak
9080   \par
9081   \vskip\poemextrabaselineskip
9082 \fi
9083 \poem@lineparsebegin
9084 }
9085 \def\@traditionalpoem{%
9086   \stepcounter{poem@no}
9087   \ifnum\max@poem@no<\number\c@poem@no%
9088     \xdef\poem@width{\z@}%
9089   \else
9090     \xdef\poem@width{\poem@prop{poem@width}}%
9091   \fi
9092   \xdef\new@poem@width{\z@}%
9093   \global\versewidth=\poem@width
9094   \poemskip\par
9095   \begingroup
9096   \tabskip=\z@
9097   \parskip=\z@
9098   \parindent=\z@
9099   \parfillskip=\z@
9100   \rightskip=\z@
9101   \leftskip=\z@
9102   \widowpenalty=10000% No break between verses of the same line.
9103   \clubpenalty=10000% Same as above. Not really needed.
9104   \def\newblock{\hfil\poemblocksep\hfil\null}%
9105   \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9106   \def\{\global\poem@startedtrue\traditionalpoem@cr}%

```



```

9107 \global\poem@startedfalse
9108 \csname poem@obeylines\endcsname
9109 \let\poem@obeylines\relax
9110 \poem@lineparsebegin
9111 }
9112 \def\@endtraditionalpoem{%
9113 \cr
9114 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9115 \noalign{%
9116 \skip0=\poemextrabaseskip
9117 \vskip-\skip0
9118 \vskip-\baseskip
9119 }%
9120 \fi\fi
9121 \poem@lineparseend
9122 \endgroup
9123 \par
9124 \vskip\baseskip
9125 \poemskip
9126 \ifdim\new@poem@width<\poem@width
9127 \global\let\poem@needrun\relax
9128 \fi
9129 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
9130 \ifx\AtEndDocument\undefined\poem@finish\fi
9131 \@endparenv
9132 }
9133
9134
9135 \long\def\bidipoem@p@ftntext#1{%
9136 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
9137 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
9138 \long\def\bidipoem@p@LTRftntext#1{%
9139 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9140 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9141 \long\def\bidipoem@p@RTLftntext#1{%
9142 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9143 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9144
9145 \long\def\bidipoem@p@xftntext[#1]#2{%
9146 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9147
9148 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9149 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9150
9151 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9152 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9153
9154 \def\bidipoem@p@xfootnote[#1]{%
9155 \begingroup
9156 \csname c@\@mpfn\endcsname #1\relax
9157 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9158 \endgroup
9159 \@footnotemark\bidipoem@p@xftntext[#1]}
9160

```



```

9161 \def\bidipoem@p@xLTRfootnote[#1]{%
9162   \begingroup
9163     \csname c@%mpfn\endcsname #1\relax
9164     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9165   \endgroup
9166   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9167
9168 \def\bidipoem@p@xRTLfootnote[#1]{%
9169   \begingroup
9170     \csname c@%mpfn\endcsname #1\relax
9171     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9172   \endgroup
9173   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9174
9175
9176
9177 \newenvironment{traditionalpoem}{\@traditionalpoem}{\endtraditionalpoem}
9178 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obe
9179 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9180 \def\poem@finish{%
9181 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9182 \ifx\poem@needrun\relax
9183 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9184 \global\let\poem@needrun\undefined
9185 \fi
9186 }
9187 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9188 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9189 \ifx\max@poem@no\undefined
9190   \def\max@poem@no{0}%
9191 \fi
9192 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
9193 \newcommand{\poem@write@aux}[2]{%
9194   \def\x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9195   \x
9196 }
9197 \def\@modernpoem{%
9198 \par
9199 \begingroup
9200 \parskip=\z@
9201 \parindent=\z@
9202 \def\[{ \@settab\@tabplus\ignorespaces}%
9203 \def\]{ \@tabminus\ignorespaces}%
9204 \def\newblock{\poemblocksep}%
9205 \let\newpoem@tabcr\@tabcr
9206 \def\modernpoem@par{% Redefine \par for possible \obeylines
9207   \ifpoem@started\else
9208     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9209       \@stopfield
9210       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9211       \@contfield
9212     \fi
9213   \fi
9214   \ifpoem@started\newpoem@tabcr\fi}%

```



```

9215 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9216 \global\poem@startedfalse
9217 \csname poem@obeylines\endcsname
9218 \let\poem@obeylines\relax
9219 \begin{tabbing}%
9220 }
9221 \def\@endmodernpoem{%
9222 \global\poem@startedfalse
9223 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9224   \@stopfield
9225   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9226   \@contfield
9227 \fi
9228 \ifpoem@started\else\let\@stopline\@stopfield\fi
9229 \end{tabbing}%
9230 \endgroup
9231 \par
9232   \if@nparlist \else
9233     \ifdim\lastskip >\z@
9234       \@tempskipa\lastskip \vskip -\lastskip
9235       \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9236       \vskip\@tempskipa
9237     \fi
9238     \@endparenv
9239   \fi
9240 }
9241 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9242 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mod
9243 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9244 \gdef\@startfield{%
9245 \global\setbox\@curfield\hbox\bgroup%
9246 \let\@footnotetext\bidipoem@p@ftntext%
9247 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9248 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9249 \let\@xfootnotenext\bidipoem@p@xftntext%
9250 \let\@xfootnote\bidipoem@p@xfootnote%
9251 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9252 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9253 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9254 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9255 \color@begingroup}
9256 \gdef\@stopfield{%
9257   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn
9258 \gdef\@contfield{%
9259 \global\setbox\@curfield\hbox\bgroup%
9260 \let\@footnotetext\bidipoem@p@ftntext%
9261 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9262 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9263 \let\@xfootnotenext\bidipoem@p@xftntext%
9264 \let\@xfootnote\bidipoem@p@xfootnote%
9265 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9266 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9267 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9268 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%

```



```
9269 \color@begingroup\unhbox\@curfield}
```

62 File boek3-xetex-bidi.def

```
9270 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for Xe
9271 \renewenvironment{theindex}{%
9272   \if@twocolumn
9273     \@restonecolfalse
9274   \else
9275     \@restonecoltrue
9276   \fi
9277   \columnseprule \z@
9278   \columnsep 35\p@
9279   \twocolumn[\@makeschapterhead{\indexname}]{%
9280     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9281     \thispagestyle{plain}\parindent\z@
9282     \parskip\z@ \@plus .3\p@\relax
9283     \let\item\@idxitem
9284   }{%
9285     \if@restonecol\onecolumn\else\clearpage\fi}
9286 \renewcommand*{\head@style}{%
9287   \interlinepenalty \@M
9288   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9289   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9290 \renewcommand*{\regtocline}[3]{%
9291   \ifnum #1>\c@tocdepth
9292   \else
9293     \vskip\z@ \@plus .2\p@
9294     {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
9295     \if@RTL\rightskip\else\leftskip\fi\unitindent
9296     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9297     \parfillskip\z@
9298     \@tempdima\unitindent
9299     \parindent\z@
9300     \leavevmode
9301     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9302     \hskip 1em \nobreak{\slshape #3}\par
9303   }%
9304   \fi}
9305 \if@oldtoc
9306 \renewcommand*{\l@part}[2]{%
9307   \ifnum \c@tocdepth >-2\relax
9308     \addpenalty{-\@highpenalty}%
9309     \addvspace{2.25em \@plus\p@}%
9310     \begingroup
9311       \setlength\@tempdima{3em}%
9312       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9313       \parfillskip -\@pnumwidth
9314       {\leavevmode
9315         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9316         \nobreak
9317         \global\@nobreaktrue
9318         \everypar{\global\@nobreakfalse\everypar{}}%
9319       \endgroup
```



```

9320 \fi}
9321 \else
9322 \renewcommand*\l@part{%
9323 \ifnum \c@tocdepth >-2\relax
9324 \addpenalty{-\@highpenalty}%
9325 \addvspace{2.25em \@plus \p@}%
9326 \@regtocline{0}%
9327 \fi}
9328 \fi
9329 \if@oldtoc
9330 \renewcommand*\l@chapter[2]{%
9331 \addpenalty{-\@highpenalty}%
9332 \vskip 1.0em \@plus \p@
9333 \setlength\@tempdima{1.5em}%
9334 \begingroup
9335 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9336 \parfillskip -\@pnumwidth
9337 \leavevmode \bfseries
9338 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
9339 \hskip -\if@RTL\rightskip\else\leftskip\fi
9340 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9341 \penalty\@highpenalty
9342 \endgroup}
9343 \else
9344 \renewcommand*\l@chapter{\@regtocline{0}}
9345 \fi
9346 \renewenvironment{abstract}{%
9347 \titlepage
9348 \null\vfil
9349 \section*{\SectFont \abstractname}
9350 \noindent\ignorespaces}
9351 {\par\vfil\null\endtitlepage}
9352 \renewenvironment{thebibliography}[1]
9353 {\chapter*{\bibname}%
9354 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9355 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9356 \bidi@thebibliography@font@hook%
9357 \list{\@biblabel{\@arabic\c@enumiv}}%
9358 {\settowidth\labelwidth{\@biblabel{#1}}%
9359 \leftmargin\labelwidth
9360 \advance\leftmargin\labelsep
9361 \@openbib@code
9362 \usecounter{enumiv}%
9363 \let\p@enumiv\@empty
9364 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9365 \sloppy\clubpenalty4000\widowpenalty4000%
9366 \sfcode\.\@m}
9367 {\def\@noitemerr
9368 {\@latex@warning{Empty `thebibliography' environment}}%
9369 \endlist}
9370 \renewcommand*\left@footnoterule{%
9371 \kern-3\p@
9372 \kern.5\baselineskip
9373 \hrule\@width\unitindent

```



```

9374 \kern.4\baselineskip
9375 }
9376 \renewcommand*\right@footnoterule{%
9377 \kern-3\p@
9378 \kern.5\baselineskip
9379 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9380 \kern.4\baselineskip}
9381 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9382 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9383 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9384 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9385 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9386 \renewcommand*\theequation{%
9387 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9388 \renewcommand*\thefigure{%
9389 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9390 \renewcommand*\thetable{%
9391 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9392 \renewcommand*\maketitle{%
9393 \begin{titlepage}%
9394 \let\footnotesize\small
9395 \let\right@footnoterule\relax
9396 \let\left@footnoterule\relax
9397 \let\textwidth@footnoterule\relax
9398 \let \footnote \thanks
9399 \long\def\@makefnmark##1{\parindent\z@
9400 \def\labelitemi{\textendash}\@revlabeltrue
9401 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9402 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9403 \if@compatibility\setcounter{page}{0}\fi
9404 \null\vfil
9405 \vskip 60\p@
9406 \begin{center}%
9407 \TitleFont
9408 {\LARGE \def\\{\penalty -\@M}
9409 \if@allcaps
9410 \expandafter\uc@nothanks\@title\thanks\relax
9411 \else
9412 \@title
9413 \fi\par}%
9414 \vskip 3em%
9415 {\large
9416 \lineskip .75em \parindent\z@
9417 \begin{tabular}[t]{c}%
9418 \if@allcaps
9419 \expandafter\uc@authornothanks\@author\and\relax
9420 \else
9421 \@author
9422 \fi
9423 \end{tabular}\par}%
9424 \vskip 1.5em%
9425 {\large
9426 \if@allcaps
9427 \uppercase\expandafter{\@date}%

```



```

9428         \else
9429             \@date
9430         \fi\par}%
9431     \end{center}\par
9432     \@thanks
9433     \vfil\null
9434 \end{titlepage}%
9435 \setcounter{footnote}{0}%
9436 \global\let\thanks\relax
9437 \global\let\maketitle\relax
9438 \global\let\@thanks\@empty
9439 \global\let\@author\@empty
9440 \global\let\@title\@empty
9441 \global\let\@date\@empty
9442 \global\let\title\relax
9443 \global\let\author\relax
9444 \global\let\date\relax
9445 \global\let\and\relax
9446 }

```

63 File boek-xetex-bidi.def

```

9447 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9448 \renewenvironment{theindex}{%
9449     \if@twocolumn
9450         \@restonecolfalse
9451     \else
9452         \@restonecoltrue
9453     \fi
9454     \columnseprule \z@
9455     \columnsep 35\p@
9456     \twocolumn[\@makeschapterhead{\indexname}]{%
9457         \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9458         \thispagestyle{plain}\parindent\z@
9459         \parskip\z@ \@plus .3\p@\relax
9460         \let\item\@idxitem
9461     }{%
9462         \if@restonecol\onecolumn\else\clearpage\fi}
9463 \renewcommand*{\head@style}{%
9464     \interlinepenalty \@M
9465     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9466     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9467 \renewcommand*{\regtocline}[3]{%
9468     \ifnum #1>\c@tocdepth
9469     \else
9470         \vskip\z@\@plus.2\p@
9471         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9472         \if@RTL\rightskip\else\leftskip\fi\unitindent
9473         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9474         \parfillskip\z@
9475         \@tempdima\unitindent
9476         \parindent\z@
9477         \leavevmode
9478         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak

```




```

9479     \hskip 1em \nobreak{\slshape #3}\par
9480   }%
9481 \fi}
9482 \if@oldtoc
9483 \renewcommand*\l@part[2]{%
9484   \ifnum \c@tocdepth >-2\relax
9485     \addpenalty{-\@highpenalty}%
9486     \addvspace{2.25em \@plus\p@}%
9487     \begingroup
9488       \setlength\@tempdima{3em}%
9489       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9490       \parfillskip -\@pnumwidth
9491       {\leavevmode
9492         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9493         \nobreak
9494         \global\@nobreaktrue
9495         \everypar{\global\@nobreakfalse\everypar{}}%
9496       \endgroup
9497     \fi}
9498 \else
9499   \renewcommand*\l@part{%
9500     \ifnum \c@tocdepth >-2\relax
9501       \addpenalty{-\@highpenalty}%
9502       \addvspace{2.25em \@plus\p@}%
9503       \@regtocline{0}%
9504     \fi}
9505 \fi
9506 \if@oldtoc
9507 \renewcommand*\l@chapter[2]{%
9508   \addpenalty{-\@highpenalty}%
9509   \vskip 1.0em \@plus\p@
9510   \setlength\@tempdima{1.5em}%
9511   \begingroup
9512     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9513     \parfillskip -\@pnumwidth
9514     \leavevmode \bfseries
9515     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9516     \hskip -\if@RTL\rightskip\else\leftskip\fi
9517     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9518     \penalty\@highpenalty
9519   \endgroup}
9520 \else
9521   \renewcommand*\l@chapter{\@regtocline{0}}
9522 \fi
9523 \renewcommand*\left@footnoterule{%
9524   \kern-3\p@
9525   \kern.5\baselineskip
9526   \hrule\@width\unitindent
9527   \kern.4\baselineskip
9528 }
9529 \renewcommand*\right@footnoterule{%
9530   \kern-3\p@
9531   \kern.5\baselineskip
9532   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```



```

9533 \kern.4\baselineskip}
9534 \renewenvironment{abstract}{%
9535     \titlepage
9536     \null\vfil
9537     \section*{\SectFont \abstractname}
9538     \noindent\ignorespaces}
9539 {\par\vfil\null\endtitlepage}
9540 \renewenvironment{thebibliography}[1]
9541 {\chapter*{\bibname}%
9542     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9543     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9544     \bidi@thebibliography@font@hook%
9545     \list{\@biblabel{\@arabic\c@enumiv}}%
9546         {\settowidth\labelwidth{\@biblabel{#1}}%
9547         \leftmargin\labelwidth
9548         \advance\leftmargin\labelsep
9549         \@openbib@code
9550         \usecounter{enumiv}%
9551         \let\p@enumiv\@empty
9552         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9553     \sloppy\clubpenalty4000\widowpenalty4000%
9554     \sfcode`. \m}
9555 {\def\@noitemerr
9556     {\@latex@warning{Empty `thebibliography' environment}}%
9557     \endlist}
9558 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9559 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
9560 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
9561 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
9562 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
9563 \renewcommand*\theequation{%
9564     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9565 \renewcommand*\thefigure{%
9566     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9567 \renewcommand*\thetable{%
9568     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9569 \renewcommand*\maketitle{%
9570     \begin{titlepage}%
9571         \let\footnotesize\small
9572         \let\right@footnoterule\relax
9573         \let\left@footnoterule\relax
9574         \let\textwidth\footnoterule\relax
9575         \let \footnote \thanks
9576         \long\def\@makefnmark##1{\parindent\z@
9577             \def\labelitemi{\textendash}\@revlabeltrue
9578             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9579         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9580         \if@compatibility\setcounter{page}{0}\fi
9581         \null\vfil
9582         \vskip 60\p@
9583         \begin{center}%
9584             \TitleFont
9585             {\LARGE \def\{\{\penalty -\m}
9586             \if@allcaps

```



```

9587         \expandafter\uc@nothanks\@title\thanks\relax
9588     \else
9589         \@title
9590     \fi\par}%
9591 \vskip 3em%
9592 {\large
9593     \lineskip .75em \parindent\z@
9594     \begin{tabular}[t]{c}%
9595         \if@allcaps
9596             \expandafter\uc@authornothanks\@author\and\relax
9597         \else
9598             \@author
9599         \fi
9600     \end{tabular}\par}%
9601 \vskip 1.5em%
9602 {\large
9603     \if@allcaps
9604         \uppercase\expandafter{\@date}%
9605     \else
9606         \@date
9607     \fi\par}%
9608 \end{center}\par
9609 \@thanks
9610 \vfil\null
9611 \end{titlepage}%
9612 \setcounter{footnote}{0}%
9613 \global\let\thanks\relax
9614 \global\let\maketitle\relax
9615 \global\let\@thanks\@empty
9616 \global\let\@author\@empty
9617 \global\let\@title\@empty
9618 \global\let\@date\@empty
9619 \global\let\title\relax
9620 \global\let\author\relax
9621 \global\let\date\relax
9622 \global\let\and\relax
9623 }

```

64 File bookest-xetex-bidi.def

```

9624 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class fo
9625 \def\@makechapterhead#1{%
9626     \vspace*{20\p@}
9627     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9628         \ifnum \c@secnumdepth >\m@ne
9629             \if@mainmatter
9630                 {\colorA\huge\scshape \@chapapp\space \thechapter}
9631                 \par\nobreak
9632                 \vskip 10\p@
9633             \fi
9634         \fi
9635         \interlinepenalty\@M
9636         {\colorB\hrule}
9637         \vskip 15\p@

```



```

9638 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9639 {\colorA\Huge \bfseries #1}\par\nobreak
9640 \if@RTL\end{flushleft}\else\end{flushright}\fi
9641 \vskip 5\p@
9642 {\colorB\hrule}
9643 \vskip 30\p@
9644 }}
9645 \def\@makeschapterhead#1{%
9646 \vspace*{20\p@}
9647 {\parindent \z@ \raggedright \normalfont
9648 {\colorB\hrule}
9649 \vskip 15\p@
9650 \begin{center}
9651 {\colorA\Huge \bfseries #1}\par\nobreak
9652 \end{center}
9653 \vskip 5\p@
9654 {\colorB\hrule}
9655 \vskip 30\p@
9656 }}

```

65 File book-xetex-bidi.def

```

9657 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class]
9658 \renewenvironment{theindex}
9659 {\if@twocolumn
9660 \@restonecolfalse
9661 \else
9662 \@restonecoltrue
9663 \fi
9664 \columnseprule \z@
9665 \columnsep 35\p@
9666 \twocolumn[\@makeschapterhead{\indexname}]}%
9667 \mkboth{\MakeUppercase\indexname}%
9668 {\MakeUppercase\indexname}%
9669 \thispagestyle{plain}\parindent\z@
9670 \parskip\z@ \@plus .3\p@\relax
9671 \let\item\@idxitem}
9672 {\if@restonecol\onecolumn\else\clearpage\fi}
9673 \IfClassLoadedF{bookest}{%
9674 \if@titlepage
9675 \renewcommand\maketitle{\begin{titlepage}%
9676 \let\footnotesize\small
9677 \let\right@footnoterule\relax
9678 \let\left@footnoterule\relax
9679 \let\textwidth@footnoterule\relax
9680 \let \footnote \thanks
9681 \let \LTRfootnote \LTRthanks
9682 \let \RTLfootnote \RTLthanks
9683 \null\vfil
9684 \vskip 60\p@
9685 \begin{center}%
9686 {\LARGE \@title \par}%
9687 \vskip 3em%
9688 {\large

```



```

9689 \lineskip .75em%
9690 \begin{tabular}[t]{c}%
9691 \@author
9692 \end{tabular}\par}%
9693 \vskip 1.5em%
9694 {\large \@date \par}% % Set date in \large size.
9695 \end{center}\par
9696 \@thanks
9697 \vfil\null
9698 \end{titlepage}%
9699 \setcounter{footnote}{0}%
9700 \global\let\thanks\relax
9701 \global\let\LTRthanks\relax
9702 \global\let\RTLthanks\relax
9703 \global\let\maketitle\relax
9704 \global\let\@thanks\@empty
9705 \global\let\@author\@empty
9706 \global\let\@date\@empty
9707 \global\let\@title\@empty
9708 \global\let\title\relax
9709 \global\let\author\relax
9710 \global\let\date\relax
9711 \global\let\and\relax
9712 }
9713 \else
9714 \renewcommand\maketitle{\par
9715 \begingroup
9716 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9717 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9718 \long\def\@makefntext##1{\parindent 1em\noindent
9719 \hb@xt@1.8em{%
9720 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9721 \if@twocolumn
9722 \ifnum \col@number=\@ne
9723 \@maketitle
9724 \else
9725 \twocolumn[\@maketitle]%
9726 \fi
9727 \else
9728 \newpage
9729 \global\@topnum\z@ % Prevents figures from going at top of page.
9730 \@maketitle
9731 \fi
9732 \thispagestyle{plain}\@thanks
9733 \endgroup
9734 \setcounter{footnote}{0}%
9735 \global\let\thanks\relax
9736 \global\let\LTRthanks\relax
9737 \global\let\RTLthanks\relax
9738 \global\let\maketitle\relax
9739 \global\let\@maketitle\relax
9740 \global\let\@thanks\@empty
9741 \global\let\@author\@empty
9742 \global\let\@date\@empty

```



```

9743 \global\let\@title\@empty
9744 \global\let\title\relax
9745 \global\let\author\relax
9746 \global\let\date\relax
9747 \global\let\and\relax
9748 }
9749 \def\@maketitle{%
9750 \newpage
9751 \null
9752 \vskip 2em%
9753 \begin{center}%
9754 \let \footnote \thanks
9755 \let \LTRfootnote \LTRthanks
9756 \let \RTLfootnote \RTLthanks
9757 {\LARGE \@title \par}%
9758 \vskip 1.5em%
9759 {\large
9760 \lineskip .5em%
9761 \begin{tabular}[t]{c}%
9762 \@author
9763 \end{tabular}\par}%
9764 \vskip 1em%
9765 {\large \@date}%
9766 \end{center}%
9767 \par
9768 \vskip 1.5em}
9769 \fi}
9770 \IfPackageLoadedF{tocloft}{%
9771 \renewcommand*\l@part[2]{%
9772 \ifnum \c@tocdepth >-2\relax
9773 \addpenalty{-\@highpenalty}%
9774 \addvspace{2.25em \@plus\p@}%
9775 \setlength\@tempdima{3em}%
9776 \begingroup
9777 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9778 \parfillskip -\@pnumwidth
9779 {\leavevmode
9780 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9781 \nobreak
9782 \global\@nobreaktrue
9783 \everypar{\global\@nobreakfalse\everypar{}}%
9784 \endgroup
9785 \fi}
9786 \renewcommand*\l@chapter[2]{%
9787 \ifnum \c@tocdepth >\m@ne
9788 \addpenalty{-\@highpenalty}%
9789 \vskip 1.0em \@plus\p@
9790 \setlength\@tempdima{1.5em}%
9791 \begingroup
9792 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9793 \parfillskip -\@pnumwidth
9794 \leavevmode \bfseries
9795 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9796 \hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

9797      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9798      \penalty\@highpenalty
9799      \endgroup
9800      \fi}
9801  }
9802  \renewcommand\left@footnoterule{%
9803      \kern-3\p@
9804      \hrule\@width.4\columnwidth
9805      \kern2.6\p@}
9806  \renewcommand\right@footnoterule{%
9807      \kern-3\p@
9808      \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9809      \kern2.6\p@}
9810  \renewcommand\theequation
9811      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9812  \renewcommand \thefigure
9813      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9814  \renewcommand \thetable
9815      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9816  \renewcommand \thechapter {\@arabic\c@chapter}
9817  \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9818  \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9819  \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9820  \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9821  \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9822  \def\@makechapterhead#1{%
9823      \vspace*{50\p@}%
9824      {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9825          \ifnum \c@secnumdepth >\m@ne
9826              \if@mainmatter
9827                  \huge\bfseries \@chapapp\space \thechapter
9828                  \par\nobreak
9829                  \vskip 20\p@
9830              \fi
9831              \fi
9832              \interlinepenalty\@M
9833              \Huge \bfseries #1\par\nobreak
9834              \vskip 40\p@
9835          }}
9836  \def\@makeschapterhead#1{%
9837      \vspace*{50\p@}%
9838      {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9839          \normalfont
9840          \interlinepenalty\@M
9841          \Huge \bfseries #1\par\nobreak
9842          \vskip 40\p@
9843      }}
9844  \renewcommand\backmatter{%
9845      \if@openright
9846          \cleardoublepage
9847      \else
9848          \clearpage
9849      \fi
9850      \@mainmatterfalse}

```



```

9851 \IfPackageLoadedF{natbib}{%
9852 \renewenvironment{thebibliography}[1]
9853   {\chapter*{\bibname}%
9854    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9855    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9856    \bidi@thebibliography@font@hook%
9857    \list{\@biblabel{\@arabic\c@enumiv}}%
9858      {\settowidth\labelwidth{\@biblabel{#1}}%
9859       \leftmargin\labelwidth
9860       \advance\leftmargin\labelsep
9861       \@openbib@code
9862       \usecounter{enumiv}%
9863       \let\p@enumiv\@empty
9864       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9865   \sloppy
9866   \clubpenalty4000
9867   \@clubpenalty \clubpenalty
9868   \widowpenalty4000%
9869   \sfcode\.\@m}
9870 {\def\@noitemerr
9871   {\@latex@warning{Empty `thebibliography' environment}}%
9872   \endlist}
9873 }

```

66 File breqn-xetex-bidi.def

```

9874 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for
9875 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9876   \everydisplay\expandafter{\the\everydisplay \display@setup}%
9877   \if@noskipsec \leavevmode \fi
9878   \if@inlabel \leavevmode \global\@inlabelfalse \fi
9879   \if@eq@group\else\eq@prelim\fi
9880   \setkeys{breqn}{#1}%
9881   \the\eqstyle
9882   \eq@setnumber
9883   \begin@group
9884   \eq@setup@a
9885   \eq@startup
9886 }
9887 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9888   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9889   \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9890   \global\let\GRP@label\@empty
9891   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9892   \global\grp@linewidth\z@\global\grp@wdNum\z@
9893   \global\let\grp@eqs@numbered\@False
9894   \global\let\grp@aligned\@True
9895   \global\let\grp@shiftnumber\@False
9896   \eq@prelim
9897   \setkeys{breqn}{#1}%
9898   \if\grp@hasNumber \grp@setnumber \fi
9899 }
9900 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9901   \let\display@setup\dseries@display@setup

```




```

9902 % Question: should this be the default for dseries???
9903 \global\eq@wdCond\z@
9904 \@dmath[layout={M},#1]%
9905 \mathsurround\z@\@math \penalty\@Mi
9906 \let\endmath\ends@math
9907 \def\premath{%
9908     \ifdim\lastskip<.3em \unskip
9909     \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9910 }%
9911 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9912 \ignorespaces
9913 }
9914 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9915 \renewenvironment{dsuspend}{%
9916     \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9917     \parshape 1 \displayindent \displaywidth\relax
9918     \hsize=\columnwidth \noindent\ignorespaces
9919 }{%
9920     \par\egroup
9921     \global\setbox\GRP@box\vbox{%
9922         \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}}%
9923     \unvbox\GRP@box
9924 }%
9925 \global\GRP@queue\@xp{\the\GRP@queue
9926     \@elt{\let\eq@isIntertext\@True}%
9927 }%
9928 }

```

67 File cals-xetex-bidi.def

```

9929 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for Xe
9930 \renewcommand\cals@setup@alignment[1]{%
9931 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9932 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9933 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9934 }
9935 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9936 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9937 \if@RTLtab\cals@activate@rtl\fi
9938 \let\cals@thead@tokens=\relax
9939 \let\cals@tfoot@tokens=\relax
9940 \let\cals@tbody@tokens=\relax
9941 \cals@tfoot@height=0pt \relax
9942 \let\cals@last@context=n%
9943 \let\cals@current@context=b%
9944 \parindent=0pt \relax%
9945 \cals@setup@alignment{#1}%
9946 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9947 }% Alignment inside is independent on center/flushright outside
9948 \parfillskip=0pt plus1fil\relax
9949 \let\cals@borderL=\relax
9950 \let\cals@borderR=\relax
9951 \let\cals@borderT=\relax
9952 \let\cals@borderB=\relax

```



```

9953 \setbox\cals@backup@row=\box\voidb@x\relax
9954 \cals@AtBeginTable
9955 }{% End of the table
9956 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9957 \renewcommand\alignL{%
9958 \if@RTLtab
9959   \cals@vfillAdd\cals@paddingL
9960 \else
9961   \cals@vfillDrop\cals@paddingL
9962 \fi
9963 \cals@vfillDrop\cals@paddingR}
9964 \renewcommand\alignR{%
9965 \if@RTLtab
9966   \cals@vfillDrop\cals@paddingL
9967 \else
9968   \cals@vfillAdd\cals@paddingL
9969 \fi
9970 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9971 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package
9972 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9973 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9974 \renewcommand*\caption@par{%
9975   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9976 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9977 \def\CT@setup{%
9978   \@tempdimb\col@sep
9979   \@tempdimc\col@sep
9980   \def\CT@color{%
9981     \global\let\CT@do@color\CT@@do@color
9982     \bicolor}}
9983 \def\@classz{\@classx
9984   \@tempcnta\count@
9985   \prepnext@tok
9986 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9987   \@addtopreamble{\if@RTLtab\beginL\fi%
9988     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9989     \ifcase \@chnum
9990       \hskip\stretch{.5}\kern\z@
9991       \d@llarbegin
9992       \insert@column
9993       \d@llarend\hskip\stretch{.5}\or
9994       \d@llarbegin \insert@column \d@llarend \hfill \or
9995       \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9996     $\vcenter
9997     \@startpbox{\@nextchar}\insert@column \@endpbox $\or

```



```

9998 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9999 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10000 \fi
10001 \if@RTLtab\endR\fi\egroup\egroup
10002 \beginngroup
10003 \CT@setup
10004 \CT@column@color
10005 \CT@row@color
10006 \CT@cell@color
10007 \CT@do@color
10008 \endgroup
10009 \tempdima\ht\z@
10010 \advance\tempdima\minrowclearance
10011 \vrule\@height\tempdima\@width\z@
10012 \unhbox\z@\if@RTLtab\endL\fi}%
10013 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

10014 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for
10015 \long\def\color@b@x#1#2#3{%
10016 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
10017 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
10018 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
10019 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
10020 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
10021 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
10022 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
10023 \DeclareRobustCommand\color{%
10024 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]{}
10025 \def\@declaredcolor#1{%
10026 \@ifundefined{string\color @#1}%
10027 {\c@lor@error{`#1'}}%
10028 {\expandafter\let\expandafter\current@color
10029 \csname string\color @#1\endcsname
10030 \set@color}%
10031 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10032 \def\@undeclaredcolor[#1]#2{%
10033 \@ifundefined{color@#1}%
10034 {\c@lor@error{model `#1'}}%
10035 {\csname color@#1\endcsname\current@color{#2}%
10036 \set@color}%
10037 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10038 \DeclareRobustCommand\bidicolor{%
10039 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]{}
10040 \def\@bidiundeclaredcolor[#1]#2{%
10041 \@ifundefined{color@#1}%
10042 {\c@lor@error{model `#1'}}%
10043 {\csname color@#1\endcsname\current@color{#2}%
10044 \set@color}%
10045 \ignorespaces}
10046 \def\@bidideclaredcolor#1{%
10047 \@ifundefined{string\color @#1}%
10048 {\c@lor@error{`#1'}}%

```



```

10049     {\expandafter\let\expandafter\current@color
10050     \csname\string\color @#1\endcsname
10051     \set@color}%
10052   \ignorespaces}
10053 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10054 \def\color@fbox#1#2#3{%
10055   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10056 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

72 File combine-xetex-bidi.def

```

10057 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class fo
10058 \renewcommand{\c@ll@chapsecii}[2]{%
10059   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10060   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10061   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10062 }
10063 \renewcommand{\c@ll@chapseci}{%
10064   \setlength\@tempdima{0em}%
10065   \begingroup
10066     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10067     \parfillskip -\@pnumwidth
10068     \leavevmode
10069 }
10070 \renewenvironment{tocindent}[1]{%
10071   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10072 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for Xe
10073 \IfClassLoadedT{memoir}{\endinput}
10074 \RequirePackage{graphicx}
10075 \renewcommand*\CROP@ulc{%
10076   \if@RTLmain%
10077     \begin{picture}(0,0)
10078       \unitlength\p@\thinlines
10079       \put(-40,0){\circle{10}}
10080       \put(-30,-5){\line(0,1){10}}
10081       \put(-35,0){\line(1,0){30}}
10082       \put(-10,30){\circle{10}}
10083       \put(-5,30){\line(1,0){10}}
10084       \put(0,35){\line(0,-1){30}}
10085     \end{picture}%
10086   \else%
10087     \begin{picture}(0,0)
10088       \unitlength\p@\thinlines
10089       \put(-30,0){\circle{10}}
10090       \put(-30,-5){\line(0,1){10}}
10091       \put(-35,0){\line(1,0){30}}
10092       \put(0,30){\circle{10}}
10093       \put(-5,30){\line(1,0){10}}
10094       \put(0,35){\line(0,-1){30}}
10095     \end{picture}%
10096   \fi%

```



```

10097 }
10098 \renewcommand*\CROP@curc{%
10099   \if@RTLmain%
10100     \begin{picture}(0,0)
10101       \unitlength\p@\thinline
10102       \put(20,0){\circle{10}}
10103       \put(30,-5){\line(0,1){10}}
10104       \put(35,0){\line(-1,0){30}}
10105       \put(-10,30){\circle{10}}
10106       \put(-5,30){\line(1,0){10}}
10107       \put(0,35){\line(0,-1){30}}
10108     \end{picture}%
10109   \else%
10110     \begin{picture}(0,0)
10111       \unitlength\p@\thinline
10112       \put(30,0){\circle{10}}
10113       \put(30,-5){\line(0,1){10}}
10114       \put(35,0){\line(-1,0){30}}
10115       \put(0,30){\circle{10}}
10116       \put(-5,30){\line(1,0){10}}
10117       \put(0,35){\line(0,-1){30}}
10118     \end{picture}%
10119   \fi%
10120 }
10121 \renewcommand*\CROP@llc{%
10122   \if@RTLmain%
10123     \begin{picture}(0,0)
10124       \unitlength\p@\thinline
10125       \put(-40,0){\circle{10}}
10126       \put(-30,-5){\line(0,1){10}}
10127       \put(-35,0){\line(1,0){30}}
10128       \put(-10,-30){\circle{10}}
10129       \put(-5,-30){\line(1,0){10}}
10130       \put(0,-35){\line(0,1){30}}
10131     \end{picture}%
10132   \else%
10133     \begin{picture}(0,0)
10134       \unitlength\p@\thinline
10135       \put(-30,0){\circle{10}}
10136       \put(-30,-5){\line(0,1){10}}
10137       \put(-35,0){\line(1,0){30}}
10138       \put(0,-30){\circle{10}}
10139       \put(-5,-30){\line(1,0){10}}
10140       \put(0,-35){\line(0,1){30}}
10141     \end{picture}%
10142   \fi%
10143 }
10144 \renewcommand*\CROP@lrc{%
10145   \if@RTLmain%
10146     \begin{picture}(0,0)
10147       \unitlength\p@\thinline
10148       \put(20,0){\circle{10}}
10149       \put(30,-5){\line(0,1){10}}
10150       \put(35,0){\line(-1,0){30}}

```



```

10151      \put(-10,-30){\circle{10}}
10152      \put(-5,-30){\line(1,0){10}}
10153      \put(0,-35){\line(0,1){30}}
10154  \end{picture}%
10155  \else%
10156  \begin{picture}(0,0)
10157    \unitlength\p@\thinline
10158    \put(30,0){\circle{10}}
10159    \put(30,-5){\line(0,1){10}}
10160    \put(35,0){\line(-1,0){30}}
10161    \put(0,-30){\circle{10}}
10162    \put(-5,-30){\line(1,0){10}}
10163    \put(0,-35){\line(0,1){30}}
10164  \end{picture}%
10165  \fi%
10166 }
10167 \@ifpackagewith{crop}{cam}{%
10168 \CROP@execopt{cam}%
10169 }{}

```

74 File cutwin-xetex-bidi.def

```

10170 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for]
10171 \renewcommand*{\c@twcompctr}[2]{%
10172   \def\c@twfirst{1}
10173   \loop\advance\c@twwinlines\m@ne
10174   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10175   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10176   \c@twprune{\c@twslicea}{\c@twlftside}%
10177   \c@twprune{\c@twsliceb}{\c@twrtside}%
10178   \ifnum\c@twfirst=\@ne
10179     \setbox#2=\vbox{\unvbox#2\hbox
10180       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10181     \else
10182       \setbox#2=\vbox{\unvbox#2\hbox
10183       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\
10184     \fi
10185   \def\c@twfirst{2}
10186   \ifnum\c@twwinlines>\z@\repeat}
10187 \renewcommand*{\c@twcompoddctr}[2]{%
10188   \def\c@twrounds{1}
10189   \def\c@twfirst{1}
10190   \@for\c@twlspec:=\c@twb\do{%
10191     \ifnum\c@twrounds=1
10192       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10193       \c@twprune{\c@twslicea}{\c@twlspec}%
10194       \def\c@twrounds{2}
10195     \else
10196       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10197       \c@twprune{\c@twsliceb}{\c@twlspec}%
10198       \ifnum\c@twfirst=1
10199         \setbox#2=\vbox{\unvbox#2\hbox
10200         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL
10201       \def\c@twfirst{2}

```



```

10202     \else
10203         \setbox#2=\vbox{\unvbox#2\hbox
10204             to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@twsliceb\fi}}
10205     \fi
10206     \def\c@twrounds{1}
10207 \fi}}

```

75 File cuted-xetex-bidi.def

```

10208 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for xetex]
10209
10210 \def\RTL@outputdblcol{%
10211     \if@firstcolumn
10212         \global\@firstcolumnfalse
10213         \global\setbox\@leftcolumn\copy\@outputbox
10214         \splitmaxdepth\maxdimen
10215         \vbadness\maxdimen
10216         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10217         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10218         \toks@\expandafter{\topmark}%
10219         \xdef\@firstcoltopmark{\the\toks@}%
10220         \toks@\expandafter{\splitfirstmark}%
10221         \xdef\@firstcolfirstmark{\the\toks@}%
10222         \ifx\@firstcolfirstmark\@empty
10223             \global\let\@setmarks\relax
10224         \else
10225             \gdef\@setmarks{%
10226                 \let\firstmark\@firstcolfirstmark
10227                 \let\topmark\@firstcoltopmark}%
10228         \fi
10229     \else
10230         \global\@firstcolumntrue
10231         \setbox\@outputbox\vbox{%
10232             \hb@xt@\textwidth{%
10233                 \hskip \columnwidth
10234                 \hfil
10235                 {\normalcolor\vrule \@width\columnseprule}%
10236                 \hfil
10237                 \hb@xt@\columnwidth{%
10238                     \bidi@firstcolumn@status@write%
10239                     \box\@leftcolumn \hss}%
10240                 \hskip -\textwidth
10241                 \hb@xt@\columnwidth{%
10242                     \bidi@lastcolumn@status@write%
10243                     \box\@outputbox \hss}%
10244                 \hskip \columnsep
10245                 \hskip \columnwidth }%
10246             \ifvoid\hold@viper
10247             \else
10248                 \setbox\@outputbox \vbox to\textheight{%
10249                     \box\hold@viper
10250                     \box\@outputbox
10251                     \vss
10252                 }%

```



```

10253 \fi
10254 \@combinedblfloats
10255 \@setmarks
10256 \@outputpage
10257 \begingroup
10258 \@dblfloatplacement
10259 \@startdblcolumn
10260 \@whiles\if@fcolmade \fi{\@outputpage
10261 \@startdblcolumn}%
10262 \ifvoid\@viper
10263 \else
10264 \global\setbox\@viper\vbox{%
10265 \vskip-\stripsep
10266 \unvbox\@viper
10267 }%
10268 \@viperoutput
10269 \fi
10270 \endgroup
10271 \fi}%
10272
10273 \def\LTR@outputdblcol{%
10274 \if@firstcolumn
10275 \global\@firstcolumnfalse
10276 \global\setbox\@leftcolumn\copy\@outputbox
10277 \splitmaxdepth\maxdimen
10278 \vbadness\maxdimen
10279 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10280 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10281 \toks@\expandafter{\topmark}%
10282 \xdef\@firstcoltopmark{\the\toks@}%
10283 \toks@\expandafter{\splitfirstmark}%
10284 \xdef\@firstcolfirstmark{\the\toks@}%
10285 \ifx\@firstcolfirstmark\@empty
10286 \global\let\@setmarks\relax
10287 \else
10288 \gdef\@setmarks{%
10289 \let\firstmark\@firstcolfirstmark
10290 \let\topmark\@firstcoltopmark}%
10291 \fi
10292 \else
10293 \global\@firstcolumntrue
10294 \setbox\@outputbox\vbox{%
10295 \hb@xt@\textwidth{%
10296 \hb@xt@\columnwidth{%
10297 \bidi@firstcolumn@status@write%
10298 \box\@leftcolumn \hss}%
10299 \hfil
10300 {\normalcolor\vrule \@width\columnseprule}%
10301 \hfil
10302 \hb@xt@\columnwidth{%
10303 \bidi@lastcolumn@status@write%
10304 \box\@outputbox \hss}}}%
10305 \ifvoid\hold@viper
10306 \else

```




```

10307      \setbox\@outputbox \vbox to\textheight{%
10308                                \box\hold@viper
10309                                \box\@outputbox
10310                                \vss
10311                                }%
10312  \fi
10313  \@combinedblfloats
10314  \@setmarks
10315  \@outputpage
10316  \begingroup
10317    \@dblfloatplacement
10318    \startdblcolumn
10319    \@whiles\if@fcolmade \fi{\@outputpage
10320    \startdblcolumn}%
10321    \ifvoid\@viper
10322    \else
10323      \global\setbox\@viper\vbox{%
10324                                \vskip-\stripsep
10325                                \unvbox\@viper
10326                                }%
10327      \@viperoutput
10328    \fi
10329  \endgroup
10330  \fi}%
10331
10332  \def\@addviper{%
10333    \@insertfalse
10334    \def\var@@thecol@num{2}%
10335    \if@firstcolumn
10336      \def\var@@thecol@num{1}%
10337      \@reqcolroom=.5\@pageht
10338      \ht@viper=\@reqcolroom
10339      \advance\@reqcolroom by\ht\@viper
10340      \advance\@reqcolroom by\stripsep
10341    \else
10342      \@reqcolroom=\@colht
10343      \advance\@reqcolroom by\@pageht
10344      \ht@viper.5\@reqcolroom
10345      \@reqcolroom=\ht@viper
10346      \advance\@reqcolroom by\ht\@viper
10347      \advance\@reqcolroom by\stripsep
10348      \global\setbox\@holdpg\vbox{%
10349        \setbox\cuted@tempbox@a\vbox{%
10350          \aftergroup\unvbox
10351          \unvcopy\@leftcolumn
10352          \unskip\unkern\unpenalty
10353          \setbox\@tempbox@a\lastbox
10354          \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10355            %% keeps lastbox
10356            \aftergroup\@leftcolumn
10357          \else
10358            %% removes lastbox
10359            \aftergroup\cuted@tempbox@a
10360          \fi

```



```

10361         }%
10362         \unskip\unkern\unpenalty
10363         \on@stripcols@break
10364         \the\At@ViperColsBreak
10365         \unvbox\@holdpg
10366     }%
10367     \global\At@ViperColsBreak{}}%
10368     \ht@viper=.5\ht\@holdpg
10369     \ifdim\ht@viper>\@colht
10370         \ht@viper=\@colht
10371     \fi
10372 \fi
10373 %%
10374 %% calculations for breaking
10375 %%
10376 \ifvoid\hold@viper
10377     \ht@hold@viper=\z@
10378 \else
10379     \ht@hold@viper=\ht\hold@viper
10380 \fi
10381 \cuted@@tempdim@b\ht@viper
10382 \set@split@topskip@to\topskip
10383 \loop
10384     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10385     \setbox\cuted@@varbox@a\copy\@holdpg
10386     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10387     %% set leftcolumn boxes
10388     \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10389     \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10390     \xdef\var@@leftcolumn@badness{\the\badness}%
10391     %% set rightcolumn boxes
10392     \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10393     \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10394     \xdef\var@@rightcolumn@badness{\the\badness}%
10395     %% analyzing split goodness
10396     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10397     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10398     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10399     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10400     \cuted@@wlog@debug{CUTED [----]}%
10401     ^^JLeft: \the\ht\cuted@@tempbox@c
10402     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10403     ^^JRight: \the\ht\cuted@@varbox@c
10404     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10405     ^^JSplit: \the\cuted@@tempdim@b
10406     ^^JExtra height: \the\cuted@@tempdim@spread
10407     }%
10408     \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10409         \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10410             \cuted@@tempdim@spread=\z@
10411         \fi
10412     \fi
10413     \ifdim\cuted@@tempdim@spread<\z@
10414         \if@left@column@spread

```



```

10415         \if@right@column@shrink
10416             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10417                 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread+\pageshrink>\z@
10418             \else
10419                 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10420             \fi
10421             \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10422             \ifnum\badness<\cuted@@column@badness
10423                 \cuted@@tempdim@b=\cuted@@tempdim@a
10424                 \cuted@@tempdim@spread=\z@
10425             \fi
10426             \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\cuted@@varbox@a}
10427             \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10428             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\cuted@@varbox@a}
10429         \else
10430             \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10431                 \unvcopy\cuted@@tempbox@c
10432             }%
10433             \ifnum\badness<\cuted@@column@badness
10434                 \@tempdimb=\ht\cuted@@varbox@c
10435                 \cuted@@tempdim@spread=\z@
10436             \fi
10437             \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\cuted@@varbox@a}
10438             \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10439                 \unvcopy\cuted@@tempbox@c
10440             }%
10441             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\cuted@@varbox@a}
10442         \fi
10443     \else
10444         \if@right@column@shrink
10445             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10446                 \else
10447                     \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10448                     \cuted@@tempdim@spread=\z@
10449                 \fi
10450             \fi
10451         \fi
10452     \else
10453         \ifdim\cuted@@tempdim@spread>\z@
10454             \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10455                 \cuted@@tempdim@b=\@colht
10456                 \cuted@@tempdim@spread=\z@
10457             \fi
10458         \fi
10459     \fi
10460     \ifdim\cuted@@tempdim@spread<\z@
10461         \advance\cuted@@tempdim@b 1\p@
10462     \repeat
10463     \wlog{CUTED [- LAST -]}%
10464     ^^JExtra skip:\the\cuted@@tempdim@spread
10465     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10466     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10467     ^^JSplit:\saved@tempdimb
10468     ^^JOutput:\the\cuted@@tempdim@b

```



```

10469      ^^JPageshrink: \the\pageshrink
10470      ^^JPagestretch: \the\pagestretch
10471      ^^Jcolht:\the\colht
10472      }%
10473      %%
10474      %% final construction of the cuted page above strip
10475      %%
10476      \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10477      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10478        \cuted@@tempdim@a=\dimexpr
10479          \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10480          \relax
10481        \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10482        \unvbox\cuted@@tempbox@c
10483        \ifdim\cuted@@tempdim@spread>\dp\strutbox
10484        \else
10485          \vskip-\cuted@@tempdim@spread
10486        \fi
10487        \prevdepth\z@
10488        \hrule\@height\cuted@@page@rule width\textwidth
10489        \vskip-\cuted@@page@rule
10490        \ifdim\cuted@@tempdim@a>\z@
10491          \if@left@column@spread
10492          \else
10493            \vss
10494          \fi
10495        \else
10496          \ifdim\cuted@@tempdim@a<\z@
10497            \if@left@column@shrink
10498            \else
10499              \vss
10500            \fi
10501          \fi
10502        \fi
10503      }%
10504      \wlog{CUTED [output]: \the\cuted@@tempdim@b
10505      ^^JCUTED [leftcolumn badness]: \number\badness
10506      }%
10507      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10508        \cuted@@tempdim@a=\dimexpr
10509          \cuted@@tempdim@b-\ht\@holdpg
10510          \relax
10511        \unvbox\@holdpg
10512        \ifdim\cuted@@tempdim@a>\z@
10513          \if@right@column@spread
10514          \else
10515            \vss
10516          \fi
10517        \else
10518          \ifdim\cuted@@tempdim@a<\z@
10519            \if@right@column@shrink
10520            \else
10521              \vss
10522            \fi

```



```

10523         \fi
10524     \fi
10525     }%
10526     \wlog{CUTED [rightcolumn badness]: \number\badness}%
10527     \setbox\cuted@@tempbox@var\vbox{%
10528         \hb@xt@\textwidth{%
10529             \if@RTLmain
10530                 \hskip \columnwidth
10531                 \hfil
10532                 {\normalcolor\vrule \@width\columnseprule}%
10533                 \hfil
10534                 \hb@xt@\columnwidth{%
10535                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10536                     \hss
10537                 }%
10538                 \hskip -\textwidth
10539                 \hb@xt@\columnwidth{%
10540                     \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10541                     \hss
10542                 }%
10543                 \hskip \columnsep
10544                 \hskip \columnwidth
10545             \else
10546                 \hb@xt@\columnwidth{%
10547                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10548                     \hss
10549                 }%
10550                 \hfil
10551                 {\normalcolor\vrule \@width\columnseprule}%
10552                 \hfil
10553                 \hb@xt@\columnwidth{%
10554                     \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10555                     \hss
10556                 }%
10557             \fi
10558         }%
10559     }%
10560     %%
10561     %% finalize cuted page
10562     %%
10563     \ifvoid\hold@viper
10564         \global\setbox\hold@viper\vbox{%
10565             \unvbox\cuted@@tempbox@var
10566             \penalty\interlinepenalty
10567             \vskip\stripsep
10568             \the\preCutedStrip
10569             \ifnum\outputpenalty<-\@Mii
10570                 \vskip -\parskip
10571             \fi
10572             \outputpenalty\z@
10573         }%
10574     \else
10575         \global\setbox\hold@viper\vbox{%
10576             \unvbox\hold@viper

```



```

10577         \cuted@@tempbox@var
10578         \penalty\interlinepenalty
10579         \vskip\stripsep
10580         \the\preCutedStrip
10581         \ifnum\outputpenalty<-\@Mii
10582             \vskip -\parskip
10583         \fi
10584         \outputpenalty\z@
10585     }%
10586 \fi
10587 \ifdim\@colht>\@reqcolroom
10588     \global\setbox\hold@viper\vbox{%
10589         \unvbox\hold@viper
10590         \box\@viper
10591         \penalty\interlinepenalty
10592         \the\postCutedStrip
10593         \vskip\stripsep
10594         \ifnum\outputpenalty<-\@Mii
10595             \vskip -\parskip
10596         \fi
10597         \outputpenalty\z@
10598     }%
10599     \@inserttrue
10600     \global\@firstcolumntrue
10601     \advance\ht@hold@viper by-\ht\hold@viper
10602     \global\advance\@colht by\ht\hold@viper
10603     \ifdim\@colht<2.5\baselineskip
10604         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10605                                 too tall on page \thepage (\var@@thecol@num column)}}%
10606         \@emptycol
10607         \if@firstcolumn
10608             \else
10609                 \@emptycol
10610             \fi
10611         \global\@lastvipertrue
10612     \else
10613         \global\vsizel\@colht
10614         \global\@colroom\@colht
10615         \check@floats\cuted@@tempdim@a
10616         \ifdim\cuted@@tempdim@a>\z@
10617             \global\advance\@colroom by-\cuted@@tempdim@a
10618         \fi
10619         \ifdim\@colroom<\z@
10620             \global\@colroom1\p@
10621             \ifdim\cuted@@tempdim@a>\@colht
10622                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10623                                         to large on \thepage (\var@@thecol@num column)}}%
10624             \fi
10625             \@emptycol
10626             \if@firstcolumn
10627                 \else
10628                     \@emptycol
10629                 \fi
10630             \global\@lastvipertrue

```



```

10631         \fi
10632     \fi
10633 \fi
10634 \if@insert
10635 \else
10636     \advance\ht@hold@viper by-\ht\hold@viper
10637     \global\advance\@colht by\ht@hold@viper
10638     \global\setbox\hold@viper\ vbox{%
10639         \unvbox\hold@viper
10640         \set@split@topskip@to{\z@ plus2\p@}%
10641         \vsplit\@viper to\@colht
10642         \vss
10643     }%
10644     \vbox{}%
10645     \global\@firstcolumnfalse
10646     \newpage
10647 \fi
10648 }

```

76 File cvthemebidicasual.sty

```

10649 \NeedsTeXFormat{LaTeX2e}
10650 \ProvidesPackage{cvthemebidicasual}
10651 \DeclareOption{blue}{}
10652 \newif\if@colourorange\@colourorangefalse
10653 \DeclareOption{orange}{\@colourorange true}
10654 \newif\if@colourgreen\@colourgreenfalse
10655 \DeclareOption{green}{\@colourgreentrue}
10656 \newif\if@colourred\@colourredfalse
10657 \DeclareOption{red}{\@colourred true}
10658 \newif\if@colourgrey\@colourgreyfalse
10659 \DeclareOption{grey}{\@colourgrey true}
10660 \DeclareOption*{
10661     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10662 \ExecuteOptions{colour}
10663 \ProcessOptions\relax
10664 \renewcommand*{\listitemsymbol}{\textbullet}
10665 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10666 \familynamecolour{808080}
10667 \firstnamecolour{A9A9A9}
10668 \quotecolour{696969}
10669 \addresscolour{696969}
10670 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10671 \sectiontitlecolour{1E90FF}
10672 \subsectioncolour{4682B4}
10673 \definecolor{rulecolour}{gray}{0.6}
10674 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10675 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10676 \if@colourorange
10677     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10678     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10679     \sectiontitlecolour{FF8C00}
10680     \subsectioncolour{FF8C00}
10681     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}

```



```

10682 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10683 \if@colourgreen
10684 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10685 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10686 \sectiontitlecolour{008000}
10687 \subsectioncolour{008000}
10688 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10689 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10690 \if@coloured
10691 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10692 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10693 \sectiontitlecolour{FF0000}
10694 \subsectioncolour{FF0000}
10695 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10696 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10697 \if@colourgrey
10698 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10699 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10700 \sectiontitlecolour{808080}
10701 \subsectioncolour{808080}
10702 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10703 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10704 \renewcommand*{\ttdefault}{pcr}
10705 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10706 \renewcommand*{\familynamefont}{\firstnamefont}
10707 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10708 \renewcommand*{\quoteont}{\large\slshape}
10709 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10710 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10711 \renewcommand*{\maketitle}{%
10712   {%
10713     \ifthenelse{\isundefined{\@photo}}{%
10714       {%
10715         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10716         \hfill%
10717         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\ll[-.35em]
10718         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\ll[2.5em]}}%
10719       \ifthenelse{\isundefined{\@quote}}{%
10720         {%
10721           {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\ll[2.5em]
10722         }%
10723       \newif\if@firstfooterelement\@firstfooterelementtrue
10724       \providecommand*{\footersymbol}{%
10725         \renewcommand*{\footersymbol}{%
10726           \if@firstfooterelement%
10727           \else%
10728             {~~\color{footersymbolcolor}\textbullet~~}\fi
10729       \providecommand*{\makefooter}{%
10730         \renewcommand*{\makefooter}{%
10731           \fancypagestyle{plain}{%
10732             \fancyfoot[c]{%
10733               \parbox{0.8\textwidth}{%
10734                 \centering%
10735                 \addressfont\@addresscolour%

```




```

10736 \ifthenelse{\isundefined{\@address}}{\}%
10737 \addresssymbol~\@address\\%
10738 \@firstfooterelementfalse}%
10739 \ifthenelse{\isundefined{\@mobile}}{\}{\mobilesymbol~\@mobile\@firstfooterelementfalse
10740 \ifthenelse{\isundefined{\@phone}}{\}{\footersymbol\phonesymbol~\@phone\@firstfooterele
10741 \ifthenelse{\isundefined{\@fax}}{\}{\footersymbol\faxsymbol~\@fax\@firstfooterelementf
10742 \ifthenelse{\isundefined{\@email}}{\}{\footersymbol\emailsymbol~\emailink{\@email}\@f
10743 \ifthenelse{\isundefined{\@extrainfo}}{\}{\footersymbol\@extrainfo\@firstfooterelement
10744 }%
10745 \pagestyle{plain}}
10746 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10747 \NeedsTeXFormat{LaTeX2e}
10748 \ProvidesPackage{cvthemebidiclassic}
10749 \DeclareOption{blue}{}
10750 \newif\if@colourorange\@colourorangefalse
10751 \DeclareOption{orange}{\@colourorange true}
10752 \newif\if@colourgreen\@colourgreenfalse
10753 \DeclareOption{green}{\@colourgreen true}
10754 \newif\if@coloured\@colouredfalse
10755 \DeclareOption{red}{\@coloured true}
10756 \newif\if@colourgrey\@colourgreyfalse
10757 \DeclareOption{grey}{\@colourgrey true}
10758 \DeclareOption*{
10759 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10760 \ExecuteOptions{colour}
10761 \ProcessOptions\relax
10762 \renewcommand*{\listitemsymbol}{\textbullet}
10763 \firstnamecolour{}
10764 \familynamecolour{}
10765 \titlecolour{808080}
10766 \quotecolour{696969}
10767 \addresscolour{696969}
10768 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10769 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10770 \sectiontitlecolour{1E90FF}
10771 \subsectioncolour{4682B4}
10772 \if@colourorange
10773 \addresscolour{FF8C00}
10774 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10775 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10776 \sectiontitlecolour{FF8C00}
10777 \subsectioncolour{FF8C00}\fi
10778 \if@colourgreen
10779 \addresscolour{008000}
10780 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10781 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10782 \sectiontitlecolour{008000}
10783 \subsectioncolour{008000}\fi
10784 \if@coloured
10785 \addresscolour{FF0000}
10786 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}

```



```

10787 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10788 \sectiontitlecolour{FF0000}
10789 \subsectioncolour{FF0000}\fi
10790 \if@colourgrey
10791 \addresscolour{808080}
10792 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10793 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10794 \sectiontitlecolour{808080}
10795 \subsectioncolour{808080}\fi
10796 \renewcommand*{\ttdefault}{pcr}
10797 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10798 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10799 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10800 \renewcommand*{\familynamefont}{\firstnamefont}
10801 \renewcommand*{\quoteftfont}{\large\slshape}
10802 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10803 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10804 \newlength{\maketitlenamemaxwidth}
10805 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10806 \newlength{\maketitlenamewidth}
10807 \settowidth{\maketitlenamewidth}{\firstnamestyle{\@firstname-}\familynamestyle{\@familyname-}}
10808 \newlength{\maketitlepicturewidth}
10809 \ifnum\maketitlenamewidth<\maketitlepicturewidth\setlength{\maketitlepicturewidth}{\maketitlenamewidth}\fi
10810 \setlength{\maketitlepicturewidth}{\@photowidth}
10811 \newlength{\maketitledetailwidth}
10812 \renewcommand*{\recomputethemelengths}{%
10813 \setlength{\maketitledetailwidth}{\textwidth}%
10814 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10815 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10816 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10817 \recomputethemelengths
10818 \newif\if@firstdetailselement\@firstdetailselementtrue
10819 \newcommand*{\maketitledetailsnewline}{%
10820 \if@firstdetailselement%
10821 \@firstdetailselementfalse%
10822 \else%
10823 \\\[.2em]\fi}
10824 \renewcommand*{\maketitle}{%
10825 % name and title
10826 \begin{minipage}[b]{\maketitlenamewidth}%
10827 \firstnamestyle{\@firstname-}\familynamestyle{\@familyname-}%
10828 \ifthenelse{equal{\@title}{}}{\\\[1.25em]\titlestyle{\@title}}{}%
10829 \end{minipage}%
10830 % optional data
10831 \begin{minipage}[b]{\maketitledetailwidth}%
10832 \bidi@raggedleft\addressfont\@addresscolour%
10833 \ifthenelse{\isundefined{\@address}}{\%
10834 \maketitledetailsnewline%
10835 \addresssymbol~\\\@address}%
10836 \ifthenelse{\isundefined{\@mobile}}{\%
10837 \maketitledetailsnewline\mobilesymbol~\@mobile}%
10838 \ifthenelse{\isundefined{\@phone}}{\%
10839 \maketitledetailsnewline\phonesymbol~\@phone}%
10840 \ifthenelse{\isundefined{\@fax}}{\%
10841 \maketitledetailsnewline\faxsymbol~\@fax}%
10842 \ifthenelse{\isundefined{\@email}}{\%
10843 \maketitledetailsnewline\emailsymbol~\@email}%

```



```

10841 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}%
10842 \end{minipage}%
10843 % optional photo
10844 \ifthenelse{\isundefined{\@photo}}%
10845 {}%
10846 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10847 % optional quote
10848 \ifthenelse{\isundefined{\@quote}}%
10849 {}%
10850 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10851 }

```

78 File dblfnote-xetex-bidi.def

```

10852 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote packag
10853 \let\autofootnoterule\relax
10854 \let\rightfootnoterule\relax
10855 \let\leftfootnoterule\relax
10856 \let\textwidthfootnoterule\relax
10857 \let\LRfootnoterule\relax
10858 \def\footnoterule{\kern-3\p@
10859 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10860 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10861 \let\@footnotetext\dfn@footnotetext}
10862 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10863 \let\insert\dfn@gobble
10864 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10865 \def\@makefnmark{\smash{\dfn@makefnmark}}
10866 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10867 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10868 \ifdim\dfn@dima>\z@\else
10869 \dfn@dima1sp\relax
10870 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10871 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10872 \ifvoid\dfn@ins\else
10873 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10874 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10875 \setbox\dfn@boxa\copy\dfn@ins
10876 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10877 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10878 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10879 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10880 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10881 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10882 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10883 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10884 \let\insert\dfn@gobble
10885 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10886 \def\@makefnmark{\smash{\dfn@makefnmark}}
10887 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10888 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10889 \ifdim\dfn@dima>\z@\else
10890 \dfn@dima1sp\relax
10891 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi

```



```

10892 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10893 \ifvoid\dfn@ins\else
10894 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10895 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10896 \setbox\dfn@boxa\copy\dfn@ins
10897 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10898 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10899 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10900 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10901 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}\number\@tempdima}}}}
10902 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10903 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10904 \def\dfn@RTLmakecol{\ifvoid\footins\else
10905 \dfn@dima\ht\footins
10906 \@tempcnta\z@ \dfn@countins
10907 \@tempdima\z@ \let\@elt\dfn@elt@getht
10908 \dfn@list\@nil
10909 \ifdim\@tempdima=\z@\else
10910 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10911 \global\setbox\dfn@ins\box\dfn@ins
10912 \@tempswatrue
10913 \ifdfn@trysingle
10914 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10915 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10916 \advance\@tempdima-\skip\footins
10917 \advance\@tempdima-\ht\dfn@boxa
10918 \ifdim\@tempdima<\z@\else \@tempswafalse
10919 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10920 \footnoterule \unvbox\dfn@boxa}\fi\fi
10921 \if@tempswa
10922 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10923 \global\setbox\footins\vbox{\hbox{%
10924 \hskip \DFNcolumnwidth
10925 \hskip \DFNcolumnsep
10926 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10927 \unvbox\dfn@boxb\vss}\hss}
10928 \hskip -\textwidth
10929 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10930 \vbox to\@tempdima{
10931 \setbox\@tempboxa\vbox{\footnoterule}
10932 \ifdfn@ruleboth \unvbox\@tempboxa
10933 \else \@tempdima\ht\@tempboxa
10934 \advance\@tempdima\dp\@tempboxa
10935 \vskip\@tempdima
10936 \prevdepth\dp\@tempboxa \fi
10937 \unvbox\dfn@boxa\vss}\fi\hss}
10938 \hskip \DFNcolumnsep
10939 \hskip \DFNcolumnwidth}}\fi\fi
10940 \global\dfn@fnht\z@
10941 \ifx\dfn@list\@empty\else
10942 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10943 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10944 \let\@elt\relax
10945 \ifdim\dfn@dimb>\z@

```



```

10946 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10947 \insert\footins{\floatingpenalty\@MM
10948 \vbox to\dfn@dimb{}}\fi
10949 \ifdim\dfn@fnht>\@tempdima
10950 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10951 \global\dfn@fnht\@tempdima
10952 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10953 \xdef\dfn@afteroutput{\insert\footins{
10954 \floatingpenalty\@MM
10955 \vbox to\number\@tempdimb sp{}}%
10956 \global\let\noexpand\dfn@afteroutput\relax}%
10957 \fi\fi
10958 \fi}%
10959 \let\footnoterule\relax \dfn@latex@makecol
10960 \let\footnoterule\dfn@footnoterule}
10961 \def\dfn@LTRmakecol{\ifvoid\footins\else
10962 \dfn@dim\ht\footins
10963 \@tempcnta\z@ \dfn@countins
10964 \@tempdima\z@ \let\@elt\dfn@elt@getht
10965 \dfn@list\@nil
10966 \ifdim\@tempdima=\z@\else
10967 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10968 \global\setbox\dfn@ins\box\dfn@ins
10969 \@tempswatrue
10970 \ifdfn@trysingle
10971 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10972 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10973 \advance\@tempdima-\skip\footins
10974 \advance\@tempdima-\ht\dfn@boxa
10975 \ifdim\@tempdima<\z@\else \@tempswafalse
10976 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10977 \footnoterule \unvbox\dfn@boxa}\fi\fi
10978 \if@tempswa
10979 \dfn@split{\dfn@dim}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10980 \global\setbox\footins\vbox{\hbox{%
10981 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10982 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10983 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10984 \vbox to\@tempdima{
10985 \setbox\@tempboxa\vbox{\footnoterule}
10986 \ifdfn@ruleboth \unvbox\@tempboxa
10987 \else \@tempdima\ht\@tempboxa
10988 \advance\@tempdima\dp\@tempboxa
10989 \vskip\@tempdima
10990 \prevdepth\dp\@tempboxa \fi
10991 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10992 \global\dfn@fnht\z@
10993 \ifx\dfn@list\@empty\else
10994 \let\@elt\dfn@elt@adjust \dfn@dim\z@ \dfn@dimb\z@
10995 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10996 \let\@elt\relax
10997 \ifdim\dfn@dimb>\z@
10998 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10999 \insert\footins{\floatingpenalty\@MM

```



```

11000 \vbox to\dfn@dimb{}}\fi
11001 \ifdim\dfn@fnht>\@tempdima
11002 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
11003 \global\dfn@fnht\@tempdima
11004 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
11005 \xdef\dfn@afteroutput{\insert\footins{
11006 \floatingpenalty\@MM
11007 \vbox to\number\@tempdimb sp{}}}%
11008 \global\let\noexpand\dfn@afteroutput\relax}%
11009 \fi\fi
11010 \fi}%
11011 \let\footnoterule\relax \dfn@latex@makecol
11012 \let\footnoterule\dfn@footnoterule}
11013 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
11014 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
11015 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
11016 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

11017 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package]
11018 \bidi@patchcmd{\diagbox@double}{%
11019 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11020 }{\bidi@@diagbox@double@ii}{-}{-}
11021 \bidi@patchcmd{\diagbox@double}{%
11022 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11023 }{\bidi@@diagbox@double@iii}{-}{-}
11024 \newcommand*{\bidi@@diagbox@double@ii}{%
11025 \if@RTL
11026 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11027 \else
11028 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11029 \fi
11030 }
11031 \newcommand*{\bidi@@diagbox@double@iii}{%
11032 \if@RTL
11033 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11034 \else
11035 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11036 \fi
11037 }
11038 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11039 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11040 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11041 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11042 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11043 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11044 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11045 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11046 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11047 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11048 \if@RTL
11049 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11050 \else

```



```

11051 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11052 \fi}
11053 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11054 \if@RTL
11055 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11056 \else
11057 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11058 \fi}
11059 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11060 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11061 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11062 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}%
11063 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11064 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11065 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}%
11066 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11067 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11068 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}%
11069 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11070 \if@RTL
11071 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}}
11072 \else
11073 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11074 \fi
11075 }
11076 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11077 \if@RTL
11078 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11079 \else
11080 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}}
11081 \fi
11082 }
11083 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11084 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11085 \diagbox@setlinecolor
11086 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11087 }{%
11088 {\diagbox@setlinecolor
11089 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11090 }{-}{-}
11091 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11092 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11093 \diagbox@setlinecolor
11094 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11095 }{%
11096 {\diagbox@setlinecolor
11097 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11098 }{-}{-}
11099 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11100 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11101 \diagbox@setlinecolor
11102 \Line(0,\yym)(\x,0)
11103 \Line(\xm,\y)(\x,0)%
11104 }{%

```




```

11105 {\diagbox@setlinecolor
11106 \Line(0,\yym)(\x,0)
11107 \Line(\xm,\y)(\x,0)}%
11108 }{}{}
11109 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11110 \diagbox@setlinecolor
11111 \Line(0,0)(\xxm,\y)
11112 \Line(0,0)(\x,\yym)%
11113 }{%
11114 {\diagbox@setlinecolor
11115 \Line(0,0)(\xxm,\y)
11116 \Line(0,0)(\x,\yym)}%
11117 }{}{}
11118 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11119 \diagbox@setlinecolor
11120 \Line(0,\ym)(\x,\y)
11121 \Line(\xm,0)(\x,\y)%
11122 }{%
11123 {\diagbox@setlinecolor
11124 \Line(0,\ym)(\x,\y)
11125 \Line(\xm,0)(\x,\y)}%
11126 }{}{}
11127 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11128 \diagbox@setlinecolor
11129 \Line(0,\y)(\xxm,0)
11130 \Line(0,\y)(\x,\ym)%
11131 }{%
11132 {\diagbox@setlinecolor
11133 \Line(0,\y)(\xxm,0)
11134 \Line(0,\y)(\x,\ym)}%
11135 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11136 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
11137 \renewcommand\SetWatermarkText[1]{%
11138 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11139 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package]
11140 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11141 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11142
11143 \ESO@isMEMOIR{%
11144 \renewcommand\AtTextUpperLeft[1]{%
11145 \begingroup
11146 \ifodd\c@page
11147 \if@RTLmain
11148 \ESO@tempdima=\paperwidth
11149 \advance\ESO@tempdima-\textwidth
11150 \advance\ESO@tempdima-\spinemargin
11151 \else
11152 \ESO@tempdima=\spinemargin

```




```

11153     \fi
11154   \else
11155     \if@RTLmain
11156       \ESO@tempdima=\spinemargin
11157     \else
11158       \ESO@tempdima=\paperwidth
11159       \advance\ESO@tempdima-\textwidth
11160       \advance\ESO@tempdima-\spinemargin
11161     \fi
11162   \fi
11163   \ESO@tempdimb=-\uppermargin
11164   \AtPageUpperLeft{%
11165     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11166   }%
11167 \endgroup
11168 }
11169 }{%
11170 \renewcommand\AtTextUpperLeft[1]{%
11171 \begingroup
11172   \ESO@tempdima=1in\relax
11173   \if@twoside
11174     \ifodd\c@page
11175       \if@RTLmain
11176         \advance\ESO@tempdima\evensidemargin
11177       \else
11178         \advance\ESO@tempdima\oddsidemargin
11179       \fi
11180     \else
11181       \if@RTLmain
11182         \advance\ESO@tempdima\oddsidemargin
11183       \else
11184         \advance\ESO@tempdima\evensidemargin
11185       \fi
11186     \fi
11187   \else
11188     \advance\ESO@tempdima\oddsidemargin
11189   \fi
11190   \ESO@tempdimb=-1in\relax
11191   \advance\ESO@tempdimb-\topmargin
11192   \advance\ESO@tempdimb-\headheight
11193   \advance\ESO@tempdimb-\headsep
11194   \AtPageUpperLeft{%
11195     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11196   }%
11197 \endgroup
11198 }
11199 }

```

82 File empheq-xetex-bidi.def

```

11200 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package fo
11201 \MHInternalSyntaxOn
11202 \def\EQ_tag_plus_endmark:{%
11203   \iftagsleft@

```



```

11204 \gdef\maketag@@@#1{%
11205 \hfuzz\displaywidth
11206 \ifRTL\makebox[\widthof{##1}][r]{%
11207 \hbox to \displaywidth{\m@th\normalfont##1\hss
11208 \raisebox{-\dp\EQ_mathdisplay_box
11209 -\depthof{\EQ_outerbox:}}{
11210 {\PotEndMark{\hss}}}}
11211 \else\makebox[\widthof{##1}][l]{%
11212 \hbox to \displaywidth{\m@th\normalfont##1\hss
11213 \raisebox{-\dp\EQ_mathdisplay_box
11214 -\depthof{\EQ_outerbox:}}{
11215 {\PotEndMark{\hss}}}}}\fi}%
11216 \MH_else:
11217 \gdef\maketag@@@#1{%
11218 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11219 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11220 \MH_addtolength:dn \@tempdima
11221 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11222 \setlength{\@tempdimb}
11223 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11224 +\depthof{\EQ_innerbox:}}}}
11225 \MH_if_dim:w \@tempdima>\@tempdimb
11226 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11227 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11228 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11229 \def\EQ_next:{\raisebox{\@tempdima}}%
11230 \MH_else:
11231 \def\EQ_next:{
11232 \raisebox{-\dp\EQ_mathdisplay_box
11233 -\depthof{\EQ_outerbox:}}}%
11234 \MH_fi:\EQ_next:}}}%
11235 \MH_fi:}
11236 \def\EQ_post_process:{%
11237 \EQ_initialize:
11238 \EQ_begin_equation:
11239 \MH_if_boolean:nT {outer_mult}{
11240 \setkeys{\MT_options_name}{
11241 firstline-afterskip=Opt,
11242 lastline-preskip=Opt,
11243 multlined-width=Opt,
11244 }
11245 \ifodd \l_EQ_alignmentmode_int
11246 \setkeys{\MT_options_name}{multlined-pos=b}
11247 \MH_else:
11248 \setkeys{\MT_options_name}{multlined-pos=t}
11249 \MH_fi:
11250 \g@addto@macro\EQ_complete_mathdisplay:{
11251 \begin{MTmultlined}\relax
11252 }
11253 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11254 \MH_if_boolean:nT {outer_mult}{
11255 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11256 }
11257 \EQ_end_equation:

```



```

11258 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11259 \savecounters@
11260 \EQ_typeset_tags:
11261 \edef\l_EQ_equation_fint{\number\c@equation}
11262 \restorecounters@
11263 \Hy@linkcounter=\EQ_hyperref_link_fint
11264 \settowidth\l_EQ_totalwidth_dim{%
11265   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11266 \MH_if_boolean:nTF {outer_mult}
11267   { \def\EQ_next:{_mult} }
11268   { \def\EQ_next:{} }
11269 \@nameuse{EQ_modify_linewidth_
11270   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11271 \EQ_typeset_display:
11272 \@nameuse{EQ_find_displaywidth_
11273   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11274 \MH_addtolength:dn
11275   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11276 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11277   $\EQ_left_side:
11278   \EQ_innerbox:{%
11279     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11280     \makebox[\l_EQ_displaywidth_dim][c]
11281     {\usebox{\EQ_mathdisplay_box}}%
11282   \MH_or:
11283     \makebox[\l_EQ_displaywidth_dim][c]
11284     {\usebox{\EQ_mathdisplay_box}}%
11285   \MH_or:
11286     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11287       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11288         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11289           \kern-\@mathmargin
11290         \MH_fi:
11291       \MH_fi:
11292       \usebox{\EQ_mathdisplay_box}}%
11293     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11294       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11295         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11296           \kern-\@mathmargin
11297         \MH_fi:
11298       \MH_fi:
11299       \usebox{\EQ_mathdisplay_box}}\fi%
11300   \MH_or:
11301     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11302       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11303         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11304           \kern-\@mathmargin
11305         \MH_fi:
11306       \MH_fi:
11307       \usebox{\EQ_mathdisplay_box}}
11308     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11309       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11310         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11311           \kern-\@mathmargin

```



```

11312         \MH_fi:
11313         \MH_fi:
11314         \usebox{\EQ_mathdisplay_box}}\fi%
11315         \MH_fi:}%
11316         \EQ_right_side:$}%
11317         \begin{AmSequation*}
11318         \@nameuse{EQ_place_display_
11319             \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11320         \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11321         \MH_set_boolean_T:n {show_manual_tags}
11322         \MH_if_case:w \l_EQ_alignmentmode_int
11323         \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11324         \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11325         \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11326         \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11327         \MH_fi:
11328         \MH_fi:
11329         \end{AmSequation*}
11330         \global\c@equation=\l_EQ_equation_fint\relax
11331     }
11332 \AtBeginDocument{%
11333     \@ifpackageloaded{fancybox}{%
11334         \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11335         {\renewcommand*{\textcolor[2]{\normalcolor{#2}}}%
11336         \renewcommand*{\shadowbox{%
11337             \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11338                 \VerbBox\EQ_shadowbox:n}
11339             {\MH_set_boolean_F:n {shadowbox_star}
11340                 \VerbBox\EQ_shadowbox:n}}
11341         \def\EQ_shadowbox:n #1{%
11342             \sbox{\z@}{\fbox{#1}}%
11343             \MH_if_boolean:nTF {shadowbox_star}{
11344                 \MH_setlength:dn \@tempdima{\z@}%
11345             }{
11346                 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11347             }
11348             \raisebox{\@tempdima}{%
11349                 \if@RTL\makebox[\z@][r]{%
11350                     \kern\shadowsize \textcolor{shadowcolor}{%
11351                         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11352                 }%
11353                 \else\makebox[\z@][l]{%
11354                     \kern\shadowsize \textcolor{shadowcolor}{%
11355                         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11356                 }\fi%
11357                 \usebox\z@\textcolor{shadowcolor}{%
11358                     \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11359             }{}}%
11360     }
11361 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

11362 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/08 v0.7 bidi adaptations for extarticle cl



```

11363 \renewcommand*\l@section[2]{%
11364   \ifnum \c@tocdepth >\z@
11365     \addpenalty\@secpenalty
11366     \addvspace{1.0em \@plus\p@}%
11367     \setlength\@tempdima{1.5em}%
11368     \begingroup
11369       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11370       \parfillskip -\@pnumwidth
11371       \leavevmode \bfseries
11372       \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
11373       \hskip -\if@RTL\rightskip\else\leftskip\fi
11374       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11375     \endgroup
11376   \fi}
11377 \renewcommand*\l@part[2]{%
11378   \ifnum \c@tocdepth >-2\relax
11379     \addpenalty\@secpenalty
11380     \addvspace{2.25em \@plus\p@}%
11381     \begingroup
11382       \setlength\@tempdima{3em}%
11383       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11384       \parfillskip -\@pnumwidth
11385       {\leavevmode
11386         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11387       \nobreak
11388     \endgroup
11389   \fi}
11390 \ApplyPatchIfPackageLoaded{nameref}{%
11391   \bidi@patchcmd\NR@part\raggedright{%
11392     \if@RTL\raggedleft\else\raggedright\fi
11393   }{}{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11394   \bidi@patchcmd\NR@spart\raggedright{%
11395     \if@RTL\raggedleft\else\raggedright\fi
11396   }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11397 }{%
11398   \bidi@patchcmd\@part\raggedright{%
11399     \if@RTL\raggedleft\else\raggedright\fi
11400   }{}{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11401   \bidi@patchcmd\@spart\raggedright{%
11402     \if@RTL\raggedleft\else\raggedright\fi
11403   }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11404 }
11405 \renewenvironment{thebibliography}[1]
11406   {\section*{\refname
11407     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11408     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11409     \bidi@thebibliography@font@hook%
11410     \list{\@biblabel{\@arabic\c@enumiv}}%
11411       {\settowidth\labelwidth{\@biblabel{#1}}%
11412        \leftmargin\labelwidth
11413        \advance\leftmargin\labelsep
11414        \@openbib@code
11415        \usecounter{enumiv}%
11416        \let\p@enumiv\@empty

```



```

11417         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11418         \sloppy\clubpenalty4000\widowpenalty4000%
11419         \sfcode\.\@m}
11420     {\def\@noitemerr
11421      {\@latex@warning{Empty `thebibliography' environment}}}%
11422     \endlist}
11423 \renewcommand\left@footnoterule{%
11424   \kern-3\p@
11425   \hrule\@width.4\columnwidth
11426   \kern2.6\p@}
11427 \renewcommand\right@footnoterule{%
11428   \kern-3\p@
11429   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11430   \kern2.6\p@}
11431   \if@titlepage
11432   \renewcommand\maketitle{\begin{titlepage}%
11433     \let\footnotesize\small
11434     \let\right@footnoterule\relax
11435     \let\left@footnoterule\relax
11436     \let\textwidth\footnoterule\relax
11437     \let \footnote \thanks
11438     \null\vfil
11439     \vskip 60\p@
11440     \begin{center}%
11441       {\LARGE \@title \par}%
11442       \vskip 3em%
11443       {\large
11444         \lineskip .75em%
11445         \begin{tabular}[t]{c}%
11446           \@author
11447           \end{tabular}\par}%
11448         \vskip 1.5em%
11449         {\large \@date \par}%           % Set date in \large size.
11450       \end{center}\par
11451       \@thanks
11452       \vfil\null
11453       \end{titlepage}%
11454       \setcounter{footnote}{0}%
11455       \global\let\thanks\relax
11456       \global\let\maketitle\relax
11457       \global\let\@thanks\@empty
11458       \global\let\@author\@empty
11459       \global\let\@date\@empty
11460       \global\let\@title\@empty
11461       \global\let\title\relax
11462       \global\let\author\relax
11463       \global\let\date\relax
11464       \global\let\and\relax
11465   }
11466 \else
11467 \renewcommand\maketitle{\par
11468   \begingroup
11469     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11470     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

11471 \long\def\@makefntext##1{\parindent 1em\noindent
11472 \hb@xt@1.8em{%
11473 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11474 \if@twocolumn
11475 \ifnum \col@number=\@ne
11476 \@maketitle
11477 \else
11478 \twocolumn[\@maketitle]%
11479 \fi
11480 \else
11481 \newpage
11482 \global\@topnum\z@ % Prevents figures from going at top of page.
11483 \@maketitle
11484 \fi
11485 \thispagestyle{plain}\@thanks
11486 \endgroup
11487 \setcounter{footnote}{0}%
11488 \global\let\thanks\relax
11489 \global\let\maketitle\relax
11490 \global\let\@maketitle\relax
11491 \global\let\@thanks\@empty
11492 \global\let\@author\@empty
11493 \global\let\@date\@empty
11494 \global\let\@title\@empty
11495 \global\let\title\relax
11496 \global\let\author\relax
11497 \global\let\date\relax
11498 \global\let\and\relax
11499 }
11500 \def\@maketitle{%
11501 \newpage
11502 \null
11503 \vskip 2em%
11504 \begin{center}%
11505 \let \footnote \thanks
11506 {\LARGE \@title \par}%
11507 \vskip 1.5em%
11508 {\large
11509 \lineskip .5em%
11510 \begin{tabular}[t]{c}%
11511 \@author
11512 \end{tabular}\par}%
11513 \vskip 1em%
11514 {\large \@date}%
11515 \end{center}%
11516 \par
11517 \vskip 1.5em}
11518 \fi
11519 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11520 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11521 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11522 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```



84 File extbook-xetex-bidi.def

```

11523 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class fo
11524 \if@titlepage
11525 \renewcommand\maketitle{\begin{titlepage}%
11526 \let\footnotesize\small
11527 \let\right@footnoterule\relax
11528 \let\left@footnoterule\relax
11529 \let\textwidth@footnoterule\relax
11530 \let \footnote \thanks
11531 \let \LTRfootnote \LTRthanks
11532 \let \RTLfootnote \RTLthanks
11533 \null\vfil
11534 \vskip 60\p@
11535 \begin{center}%
11536 {\LARGE \@title \par}%
11537 \vskip 3em%
11538 {\large
11539 \lineskip .75em%
11540 \begin{tabular}[t]{c}%
11541 \@author
11542 \end{tabular}\par}%
11543 \vskip 1.5em%
11544 {\large \@date \par}% % Set date in \large size.
11545 \end{center}\par
11546 \@thanks
11547 \vfil\null
11548 \end{titlepage}%
11549 \setcounter{footnote}{0}%
11550 \global\let\thanks\relax
11551 \global\let\LTRthanks\relax
11552 \global\let\RTLthanks\relax
11553 \global\let\maketitle\relax
11554 \global\let\@thanks\@empty
11555 \global\let\@author\@empty
11556 \global\let\@date\@empty
11557 \global\let\@title\@empty
11558 \global\let\title\relax
11559 \global\let\author\relax
11560 \global\let\date\relax
11561 \global\let\and\relax
11562 }
11563 \else
11564 \renewcommand\maketitle{\par
11565 \begingroup
11566 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11567 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11568 \long\def\@makefntext##1{\parindent 1em\noindent
11569 \hb@xt@1.8em{%
11570 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11571 \if@twocolumn
11572 \ifnum \col@number=\@ne
11573 \maketitle
11574 \else

```




```

11575         \twocolumn[\@maketitle]%
11576     \fi
11577 \else
11578     \newpage
11579     \global\@topnum\z@    % Prevents figures from going at top of page.
11580     \@maketitle
11581 \fi
11582 \thispagestyle{plain}\@thanks
11583 \endgroup
11584 \setcounter{footnote}{0}%
11585 \global\let\thanks\relax
11586 \global\let\LTRthanks\relax
11587 \global\let\RTLthanks\relax
11588 \global\let\maketitle\relax
11589 \global\let\@maketitle\relax
11590 \global\let\@thanks\@empty
11591 \global\let\@author\@empty
11592 \global\let\@date\@empty
11593 \global\let\@title\@empty
11594 \global\let\title\relax
11595 \global\let\author\relax
11596 \global\let\date\relax
11597 \global\let\and\relax
11598 }
11599 \def\@maketitle{%
11600     \newpage
11601     \null
11602     \vskip 2em%
11603     \begin{center}%
11604         \let \footnote \thanks
11605         \let \LTRfootnote \LTRthanks
11606         \let \RTLfootnote \RTLthanks
11607         {\LARGE \@title \par}%
11608         \vskip 1.5em%
11609         {\large
11610             \lineskip .5em%
11611             \begin{tabular}[t]{c}%
11612                 \@author
11613             \end{tabular}\par}%
11614         \vskip 1em%
11615         {\large \@date}%
11616     \end{center}%
11617     \par
11618     \vskip 1.5em}
11619 \fi
11620 \renewcommand*{\l@part[2]}{%
11621     \ifnum \c@tocdepth >-2\relax
11622         \addpenalty{-\@highpenalty}%
11623         \advspace{2.25em \@plus\p@}%
11624         \begingroup
11625             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11626             \parfillskip -\@pnumwidth
11627             {\leavevmode
11628                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

11629      \nobreak
11630      \global\@nobreaktrue
11631      \everypar{\global\@nobreakfalse\everypar{}}%
11632  \endgroup
11633  \fi}
11634  \renewcommand\theequation
11635    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11636  \renewcommand \thefigure
11637    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11638  \renewcommand \thetable
11639    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11640  \renewcommand \thechapter {\@arabic\c@chapter}
11641  \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11642  \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11643  \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11644  \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11645  \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11646  \def\@makechapterhead#1{%
11647    \vspace*{50\p@}%
11648    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11649      \ifnum \c@secnumdepth >\m@ne
11650        \if@mainmatter
11651          \huge\bfseries \@chapapp\space \thechapter
11652          \par\nobreak
11653          \vskip 20\p@
11654        \fi
11655      \fi
11656      \interlinepenalty\@M
11657      \Huge \bfseries #1\par\nobreak
11658      \vskip 40\p@
11659    }}
11660
11661  \def\@makeschapterhead#1{%
11662    \vspace*{50\p@}%
11663    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11664      \normalfont
11665      \interlinepenalty\@M
11666      \Huge \bfseries #1\par\nobreak
11667      \vskip 40\p@
11668    }}
11669  \renewcommand\backmatter{%
11670    \if@openright
11671      \cleardoublepage
11672    \else
11673      \clearpage
11674    \fi
11675    \@mainmatterfalse}
11676  \renewenvironment{thebibliography}[1]
11677    {\chapter*{\bibname
11678      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11679      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11680      \bidi@thebibliography@font@hook%
11681      \list{\@biblabel{\@arabic\c@enumiv}}%
11682      {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

11683         \leftmargin\labelwidth
11684         \advance\leftmargin\labelsep
11685         \@openbib@code
11686         \usecounter{enumiv}%
11687         \let\p@enumiv\@empty
11688         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11689     \sloppy
11690     \clubpenalty4000
11691     \@clubpenalty \clubpenalty
11692     \widowpenalty4000%
11693     \sfcode`\.\@m}
11694     {\def\@noitemerr
11695      {\@latex@warning{Empty `thebibliography' environment}}}%
11696     \endlist}

```

85 File extletter-xetex-bidi.def

```

11697 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter clas
11698 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11699   \thispagestyle{firstpage}%
11700   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11701   \else % home address
11702     \thispagestyle{empty}%
11703     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignor
11704       \fromaddress \*[2\parskip]%
11705       \@date \end{tabular}\par}%
11706   \fi
11707   \vspace{2\parskip}%
11708   {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
11709   \vspace{2\parskip}%
11710   #1\par\nobreak}
11711 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11712   \stopbreaks
11713   \noindent
11714   \ifx\@empty\fromaddress\else
11715     \hspace*{\longindentation}\fi
11716   \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11717     \ignorespaces #1\\[6\medskipamount]%
11718     \ifx\@empty\fromsig
11719       \fromname
11720     \else \fromsig \fi\strut}%
11721   \par}
11722 \renewcommand\left@footnoterule{%
11723   \kern-\p@
11724   \hrule \@width .4\columnwidth
11725   \kern .6\p@}
11726 \renewcommand\right@footnoterule{%
11727   \kern-\p@
11728   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11729   \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11730 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote fea

```



```

11731 \newdimen\bidicolumnwidth
11732 \def\bidifloathook{%
11733   \bidicolumnwidth\columnwidth
11734 }
11735 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11736 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11737 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11738 \ifHy@hyperfootnotes
11739   \let\@H@footnotetext\@footnotetext
11740   \let\@HLTR@LTrfootnotetext\@LTrfootnotetext
11741   \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11742   \let\@H@mpfootnotetext\@mpfootnotetext
11743   \let\@HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11744   \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11745 \fi
11746 }%
11747 }%
11748 }
11749 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11750 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11751 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11752 \ifHy@hyperfootnotes
11753   \let\H@footnotetext\@footnotetext
11754   \let\@footnotetext\@H@footnotetext
11755   \let\HLTR@LTrfootnotetext\@LTrfootnotetext
11756   \let\@LTrfootnotetext\@HLTR@LTrfootnotetext
11757   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11758   \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11759   \let\H@mpfootnotetext\@mpfootnotetext
11760   \let\@mpfootnotetext\@H@mpfootnotetext
11761   \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11762   \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11763   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11764   \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11765 \fi
11766 }%
11767 }%
11768 }
11769 \let\autofootnoterule\relax
11770 \let\rightfootnoterule\relax
11771 \let\leftfootnoterule\relax
11772 \let\textwidthfootnoterule\relax
11773 \let\LRfootnoterule\relax
11774 \def\footnoterule{\kern-3\p@
11775   \hrule \@width \columnwidth \kern 2.6\p@}
11776 \newcommand{\@preamnormalfmt}{%
11777   \parindent 1em%
11778   \noindent
11779 }
11780 \newcommand{\@normalfootfmt}[1]{%
11781   \@preamnormalfmt
11782   \footfootmark
11783   \rule{z@}{\footnotesep}\ignorespaces{\foottextfont #1}%
11784   \@finalstrut\strutbox

```



```

11785 }
11786 \newcommand{\@normalRTLfootfmt}[1]{%
11787   \@preamnormalfmt
11788   \RTLfootfootmark
11789   \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11790   \@finalstrut\strutbox
11791 }
11792 \newcommand{\@normalLTRfootfmt}[1]{%
11793   \@preamnormalfmt
11794   \LTRfootfootmark
11795   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11796   \@finalstrut\strutbox
11797 }
11798 \renewcommand{\@footnotetext}[1]{%
11799   \insert\footins{%
11800     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11801     \def\baselinestretch{\m@m@footnote@spacing}%
11802     \reset@font
11803     \foottextfont
11804     \@preamfntext
11805     \hsize\columnwidth
11806     \protected@edef\@currentlabel{%
11807       \csname p@footnote\endcsname\@thefnmark}%
11808     \color@begingroup
11809       \@normalfootfmt{#1}%
11810     \color@endgroup}%
11811     \m@mmf@prepare}
11812 \renewcommand{\@RTLfootnotetext}[1]{%
11813   \insert\footins{%
11814     \@RTLtrue%
11815     \def\baselinestretch{\m@m@footnote@spacing}%
11816     \reset@font
11817     \RTLfoottextfont
11818     \@preamfntext
11819     \hsize\columnwidth
11820     \protected@edef\@currentlabel{%
11821       \csname p@footnote\endcsname\@thefnmark}%
11822     \color@begingroup
11823       \@normalRTLfootfmt{#1}%
11824     \color@endgroup}%
11825     \m@mmf@prepare}
11826 \renewcommand{\@LTRfootnotetext}[1]{%
11827   \insert\footins{%
11828     \@RTLfalse%
11829     \def\baselinestretch{\m@m@footnote@spacing}%
11830     \reset@font
11831     \LTRfoottextfont
11832     \@preamfntext
11833     \hsize\columnwidth
11834     \protected@edef\@currentlabel{%
11835       \csname p@footnote\endcsname\@thefnmark}%
11836     \color@begingroup
11837       \@normalLTRfootfmt{#1}%
11838     \color@endgroup}%

```



```

11839 \m@mmf@prepare}
11840 \renewcommand{\@mpfootnotetext}[1]{%
11841 \global\setbox\@mpfootins\vbox{%
11842 \unvbox\@mpfootins
11843 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11844 \def\baselinestretch{\m@m@footnote@spacing}%
11845 \reset@font%
11846 \foottextfont \hsize\columnwidth \@parboxrestore
11847 \protected@edef\@currentlabel{%
11848 \csname p@mpfootnote\endcsname\@thefnmark}%
11849 \color@begingroup
11850 \@normalfootfmt{#1}%
11851 \color@endgroup}}
11852 \renewcommand{\@mpLTRfootnotetext}[1]{%
11853 \global\setbox\@mpfootins\vbox{%
11854 \unvbox\@mpfootins
11855 \@RTLfalse
11856 \def\baselinestretch{\m@m@footnote@spacing}%
11857 \reset@font%
11858 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11859 \protected@edef\@currentlabel{%
11860 \csname p@mpfootnote\endcsname\@thefnmark}%
11861 \color@begingroup
11862 \@normalLTRfootfmt{#1}%
11863 \color@endgroup}}
11864 \renewcommand{\@mpRTLfootnotetext}[1]{%
11865 \global\setbox\@mpfootins\vbox{%
11866 \unvbox\@mpfootins
11867 \@RTLtrue
11868 \def\baselinestretch{\m@m@footnote@spacing}%
11869 \reset@font%
11870 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11871 \protected@edef\@currentlabel{%
11872 \csname p@mpfootnote\endcsname\@thefnmark}%
11873 \color@begingroup
11874 \@normalRTLfootfmt{#1}%
11875 \color@endgroup}}
11876 \let\m@mold@footnotetext\@footnotetext
11877 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11878 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11879 \let\m@mold@mpfootnotetext\@mpfootnotetext
11880 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11881 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11882 \bidi@ensure@newcommand{\normalfootnotes}{%
11883 \@bidi@before@Hy@hyperfootnotes
11884 \let\@footnotetext\m@mold@footnotetext
11885 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11886 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11887 \let\@mpfootnotetext\m@mold@mpfootnotetext
11888 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11889 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11890 \@bidi@after@Hy@hyperfootnotes
11891 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11892 }

```



```

11893 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11894 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11895   \def\m@m@singlespace{#1}%
11896   \def\m@m@footnote@spacing{#1}%
11897   \def\m@m@float@spacing{#1} %
11898 }
11899 \setSingleSpace{1}
11900 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11901 \bidi@ensure@newcommand*{\m@mmf@prepare}{%
11902   \kern-\multiplefootnotemarker
11903   \kern\multiplefootnotemarker\relax}
11904 \bidi@ensure@newlength{\footmarkwidth}
11905 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11906 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11907 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11908 \bidi@ensure@newcommand{\footfootmark}{%
11909   \ifdim\footmarkwidth < \z@
11910     \llap{\hb@xt@ -\footmarkwidth{%
11911       \hss\normalfont\footscript{\@thefnmark}}}%
11912     \hspace*{-\footmarkwidth}}%
11913   \else
11914     \ifdim\footmarkwidth = \z@
11915       {\normalfont\footscript{\@thefnmark}}%
11916     \else
11917       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11918     \fi
11919   \fi}
11920 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11921   \ifdim\footmarkwidth < \z@
11922     \llap{\hb@xt@ -\footmarkwidth{%
11923       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11924     \hspace*{-\footmarkwidth}}%
11925   \else
11926     \ifdim\footmarkwidth = \z@
11927       {\normalfont\LTRfootscript{\@thefnmark}}%
11928     \else
11929       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11930     \fi
11931   \fi}
11932 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11933   \ifdim\footmarkwidth < \z@
11934     \llap{\hb@xt@ -\footmarkwidth{%
11935       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11936     \hspace*{-\footmarkwidth}}%
11937   \else
11938     \ifdim\footmarkwidth = \z@
11939       {\normalfont\RTLfootscript{\@thefnmark}}%
11940     \else
11941       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11942     \fi
11943   \fi}
11944 \footmarkstyle{\textsuperscript{#1}}
11945 \LTRfootmarkstyle{\textsuperscript{#1}}
11946 \RTLfootmarkstyle{\textsuperscript{#1}}

```



```

11947 \newcommand*{\bidi@normal@footmarkwidth}{%
11948   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11949 }
11950 \newcommand*{\bidi@star@footmarkwidth}{%
11951   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11952 }
11953 \bidi@normal@footmarkwidth
11954 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11955 \bidi@ensure@newcommand*{\extrafeetins}{%
11956   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11957   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11958   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11959   \extrafeetinshook}
11960 \bidi@ensure@newcommand{\extrafeetinshook}{}
11961 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11962 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11963 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11964 \bidi@ensure@newlength{\footinsdim}
11965   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11966 \bidi@ensure@newcommand{\@preamfntext}{%
11967   \interlinepenalty\interfootnotelinepenalty
11968   \floatingpenalty \@MM
11969   \splittopskip=\footnotesep
11970   \splitmaxdepth=\dp\strutbox
11971   \@parboxrestore}
11972 \def\bidi@ifmulticol#1#2{\@tempwafalse
11973   \ifnum\col@number>\@ne
11974     \ifnum\count\footins>1999 \@tempwattrue \fi
11975     \fi
11976     \if@tempswa #1\else #2\fi
11977 }
11978 \def\bidi@joinfootnotes#1#2#3{%
11979   \ifvoid#1
11980     \else
11981       \@tempskipa\skip#1%
11982       \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11983       \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11984       \bidi@removexfootskip
11985       \ifvoid\footins
11986         \global\setbox\footins\vbox{#2#3}%
11987       \else
11988         \global\setbox\footins\vbox{%
11989           \unvbox\footins
11990           \bidi@footskip
11991           #2#3%
11992         }%
11993       \fi
11994     \fi
11995 }
11996 \def\bidi@joinmpfootnotes#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\@mpfootins
12004 \global\setbox\@mpfootins\vbox{#2#3}%
12005 \else
12006 \global\setbox\@mpfootins\vbox{%
12007 \unvbox\@mpfootins
12008 \bidi@footskip
12009 #2#3%
12010 }%
12011 \fi
12012 \fi
12013 }
12014 \bidi@ensure@newcommand{\m@mndoextrafeetmini}{\%
12015 \extrafeetminihook}
12016 \bidi@ensure@newcommand{\extrafeetendmini}{\%
12017 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12018 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12019 \extrafeetendminihook}
12020 \bidi@ensure@newcommand{\extrafeetendminihook}{\}
12021 \bidi@ensure@newcommand{\m@mndoextrafeetendmini}{\extrafeetendmini}
12022 \def\endminipage{%
12023 \par
12024 \unskip
12025 \m@mndoextrafeetendmini
12026 \ifvoid\@mpfootins
12027 \else
12028 \vskip\skip\@mpfootins
12029 \normalcolor
12030 \footnoterule
12031 \unvbox\@mpfootins
12032 \fi
12033 \@minipagefalse
12034 \color@endgroup
12035 \egroup
12036 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12037 \bidi@ensure@newcommand{\m@make@footstart}[1]{\%
12038 \@namedef{\footstart#1}{\%
12039 \leftskip=\z@
12040 \rightskip=\z@
12041 \parindent=\z@
12042 }%
12043 }
12044 \newinsert\footinsv@r
12045 \skip\footinsv@r\skip\footins
12046 \count\footinsv@r=1000 % no magnification
12047 \dimen\footinsv@r=\footinsdim
12048 \m@make@footstart{v@r}
12049 \newinsert\footinsv@l
12050 \skip\footinsv@l\skip\footins
12051 \count\footinsv@l=1000 % no magnification
12052 \dimen\footinsv@l=\footinsdim
12053 \m@make@footstart{v@l}
12054 \bidi@ensure@newcommand{\@footgroupv@r}{\}

```



```

12055 \newinsert\@mpfootinsv@r
12056 \skip\@mpfootinsv@r\skip\@mpfootins
12057 \newinsert\@mpfootinsv@l
12058 \skip\@mpfootinsv@l\skip\@mpfootins
12059 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
12060 \newcount\m@m@k \newdimen\m@m@h
12061 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12062 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12063 \valign{##\vfill\cr\m@mdosplits}\endR}}
12064 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12065 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12066 \valign{##\vfill\cr\m@mdosplits}\endL}}
12067 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12068 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12069 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12070 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12071 \setbox2 \vsplit0 to \dimen0
12072 \unvbox2 }
12073 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12074 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12075 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12076 \@bidi@before@Hy@hyperfootnotes
12077 \let\@footnotetext\@twocolfootnotetext
12078 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12079 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12080 \dimen\footinsv@r=2\footinsdim
12081 \count\footinsv@r=500\relax
12082 \m@make@twocol@footgroup{v@r}%
12083 \let\@footgroupv@r\@twocol@footgroupv@r
12084 \dimen\footinsv@l=2\footinsdim
12085 \count\footinsv@l=500\relax
12086 \bidi@make@twocol@LTRfootgroup{v@l}%
12087 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12088 \let\@mpfootnotetext\@mptwocolfootnotetext
12089 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12090 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12091 \@bidi@after@Hy@hyperfootnotes
12092 \m@make@mptwocol@footgroup{v@r}%
12093 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12094 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12095 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12096 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12097 }
12098 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12099 \if@RTL@footnote
12100 \footinsv@r
12101 \else
12102 \footinsv@l
12103 \fi
12104 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12105 \def\baselinestretch{\m@m@footnote@spacing}%
12106 \reset@font\foottextfont
12107 \@preamfntext
12108 \protected@edef\@currentlabel{%

```



```

12109 \csname p@footnote\endcsname\@thefnmark}%
12110 \color@begingroup
12111 \@twocolfootfmt{#1}%
12112 \color@endgroup}%
12113 \m@mmf@prepare}
12114 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12115 \def\baselinestretch{\m@m@footnote@spacing}%
12116 \reset@font\LTRfoottextfont
12117 \@preamfntext
12118 \protected@edef\@currentlabel{%
12119 \csname p@footnote\endcsname\@thefnmark}%
12120 \color@begingroup
12121 \@twocolLTRfootfmt{#1}%
12122 \color@endgroup}%
12123 \m@mmf@prepare}
12124 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12125 \def\baselinestretch{\m@m@footnote@spacing}%
12126 \reset@font\RTLfoottextfont
12127 \@preamfntext
12128 \protected@edef\@currentlabel{%
12129 \csname p@footnote\endcsname\@thefnmark}%
12130 \color@begingroup
12131 \@twocolRTLfootfmt{#1}%
12132 \color@endgroup}%
12133 \m@mmf@prepare}
12134 \bidi@ensure@newcommand{\@preamtwofmt}{%
12135 \hsize .45\hsize
12136 \parindent=\z@
12137 \tolerance=5000\relax
12138 \leavevmode}
12139 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12140 \@preamtwofmt
12141 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12142 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12143 \@preamtwofmt
12144 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12145 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12146 \@preamtwofmt
12147 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12148 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12149 \global\setbox
12150 \if@RTL@footnote
12151 \@mpfootinsv@r
12152 \else
12153 \@mpfootinsv@l
12154 \fi
12155 \vbox{%
12156 \unvbox
12157 \if@RTL@footnote
12158 \@mpfootinsv@r
12159 \else
12160 \@mpfootinsv@l
12161 \fi
12162 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12163 \def\baselinestretch{\m@m@footnote@spacing}%
12164 \reset@font\foottextfont
12165 \hsize\columnwidth \@parboxrestore
12166 \protected@edef\@currentlabel{%
12167 \csname p@mpfootnote\endcsname\@thefnmark}%
12168 \color@begingroup
12169 \@twocolfootfmt{#1}%
12170 \color@endgroup}%
12171 \m@mmf@prepare}
12172 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12173 \global\setbox\@mpfootinsv@l\vbox{%
12174 \unvbox\@mpfootinsv@l
12175 \@RTLfalse
12176 \def\baselinestretch{\m@m@footnote@spacing}%
12177 \reset@font\LTRfoottextfont
12178 \hsize\columnwidth \@parboxrestore
12179 \protected@edef\@currentlabel{%
12180 \csname p@mpfootnote\endcsname\@thefnmark}%
12181 \color@begingroup
12182 \@twocolLTRfootfmt{#1}%
12183 \color@endgroup}%
12184 \m@mmf@prepare}
12185 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12186 \global\setbox\@mpfootinsv@r\vbox{%
12187 \unvbox\@mpfootinsv@r
12188 \@RTLtrue
12189 \def\baselinestretch{\m@m@footnote@spacing}%
12190 \reset@font\RTLfoottextfont
12191 \hsize\columnwidth \@parboxrestore
12192 \protected@edef\@currentlabel{%
12193 \csname p@mpfootnote\endcsname\@thefnmark}%
12194 \color@begingroup
12195 \@twocolRTLfootfmt{#1}%
12196 \color@endgroup}%
12197 \m@mmf@prepare}
12198 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12199 \@namedef{@twocol@footgroup#1}{%
12200 \def\baselinestretch{\m@m@footnote@spacing}%
12201 \hsize\bidi@columnwidth
12202 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12203 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12204 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12205 \@namedef{@twocol@LTRfootgroup#1}{%
12206 \def\baselinestretch{\m@m@footnote@spacing}%
12207 \hsize\bidi@columnwidth
12208 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12209 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12210 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12211 \@namedef{@mptwocol@footgroup#1}{%
12212 \def\baselinestretch{\m@m@footnote@spacing}%
12213 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12214 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12215 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12216 \@namedef{@mptwocol@LTRfootgroup#1}{%

```



```

12217 \def\baselinestretch{\m@m@footnote@spacing}%
12218 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12219 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12220 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12221 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12222 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12223 \@bidi@before@Hy@hyperfootnotes
12224 \let\@footnotetext\@threecolfootnotetext
12225 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12226 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12227 \dimen\footinsv@r=3\footinsdim
12228 \count\footinsv@r=333\relax
12229 \m@make@threecol@footgroup{v@r}%
12230 \let\@footgroupv@r\@threecol@footgroupv@r
12231 \dimen\footinsv@l=3\footinsdim
12232 \count\footinsv@l=333\relax
12233 \bidi@make@threecol@LTRfootgroup{v@l}%
12234 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12235 \let\@mpfootnotetext\@mpthreecolfootnotetext
12236 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12237 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12238 \@bidi@after@Hy@hyperfootnotes
12239 \m@make@mpthreecol@footgroup{v@r}%
12240 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12241 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12242 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12243 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12244 }
12245 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12246 \if@RTL@footnote
12247 \footinsv@r
12248 \else
12249 \footinsv@l
12250 \fi
12251 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12252 \def\baselinestretch{\m@m@footnote@spacing}%
12253 \reset@font\foottextfont
12254 \@preamfntext
12255 \protected@edef\@currentlabel{%
12256 \csname p@footnote\endcsname\@thefnmark}%
12257 \color@begingroup
12258 \@threecolfootfmt{#1}%
12259 \color@endgroup}\m@m@mmf@prepare}
12260 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12261 \def\baselinestretch{\m@m@footnote@spacing}%
12262 \reset@font\LTRfoottextfont
12263 \@preamfntext
12264 \protected@edef\@currentlabel{%
12265 \csname p@footnote\endcsname\@thefnmark}%
12266 \color@begingroup
12267 \@threecolLTRfootfmt{#1}%
12268 \color@endgroup}\m@m@mmf@prepare}
12269 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12270 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12271 \reset@font\RTLfoottextfont
12272 \@preamfntext
12273 \protected@edef\@currentlabel{%
12274   \csname p@footnote\endcsname\@thefnmark}%
12275 \color@begingroup
12276   \@threecolRTLfootfmt{#1}%
12277 \color@endgroup}\m@mmf@prepare}
12278 \bidi@ensure@newcommand{\@preamthreefmt}{%
12279   \hsize .3\hsize
12280   \parindent=\z@
12281   \tolerance=5000\relax
12282   \leavevmode}
12283 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12284   \@preamthreefmt
12285   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12286 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12287   \@preamthreefmt
12288   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12289 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12290   \@preamthreefmt
12291   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12292 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12293   \global\setbox
12294     \if@RTL@footnote
12295     \@mpfootinsv@r
12296   \else
12297     \@mpfootinsv@l
12298   \fi
12299   \vbox{%
12300     \unvbox
12301     \if@RTL@footnote
12302     \@mpfootinsv@r
12303   \else
12304     \@mpfootinsv@l
12305   \fi
12306   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12307   \def\baselinestretch{\m@mm@footnote@spacing}%
12308   \reset@font\foottextfont
12309   \hsize\columnwidth \@parboxrestore
12310   \protected@edef\@currentlabel{%
12311     \csname p@mpfootnote\endcsname\@thefnmark}%
12312   \color@begingroup
12313     \@threecolfootfmt{#1}%
12314   \color@endgroup}\m@mmf@prepare}
12315 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12316   \global\setbox\@mpfootinsv@l\vbox{%
12317     \unvbox\@mpfootinsv@l
12318     \@RTLfalse
12319     \def\baselinestretch{\m@mm@footnote@spacing}%
12320     \reset@font\LTRfoottextfont
12321     \hsize\columnwidth \@parboxrestore
12322     \protected@edef\@currentlabel{%
12323       \csname p@mpfootnote\endcsname\@thefnmark}%
12324     \color@begingroup

```



```

12325 \@threecolLTRfootfmt{#1}%
12326 \color@endgroup}\m@mmf@prepare}
12327 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12328 \global\setbox\@mpfootinsv@r\vbox{%
12329 \unvbox\@mpfootinsv@r
12330 \@RTLtrue
12331 \def\baselinestretch{\m@m@footnote@spacing}%
12332 \reset@font\RTLfoottextfont
12333 \hsize\columnwidth \@parboxrestore
12334 \protected@edef\@currentlabel{%
12335 \csname p@mpfootnote\endcsname\@thefnmark}%
12336 \color@begingroup
12337 \@threecolRTLfootfmt{#1}%
12338 \color@endgroup}\m@mmf@prepare}
12339 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12340 \@namedef{\@threecol@footgroup#1}{%
12341 \def\baselinestretch{\m@m@footnote@spacing}%
12342 \hsize\bidi@columnwidth
12343 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12344 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12345 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12346 \@namedef{\@threecol@LTRfootgroup#1}{%
12347 \def\baselinestretch{\m@m@footnote@spacing}%
12348 \hsize\bidi@columnwidth
12349 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12350 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12351 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12352 \@namedef{\@mpthreecol@footgroup#1}{%
12353 \def\baselinestretch{\m@m@footnote@spacing}%
12354 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12355 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12356 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12357 \@namedef{\@mpthreecol@LTRfootgroup#1}{%
12358 \def\baselinestretch{\m@m@footnote@spacing}%
12359 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12360 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12361 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12362 \@namedef{foottextfontv@r}{\foottextfont}% \quad [RS]
12363 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12364 \@bidi@before@Hy@hyperfootnotes
12365 \let\@footnotetext\@fourcolfootnotetext
12366 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12367 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12368 \dimen\footinsv@r=4\footinsdim
12369 \count\footinsv@r=250\relax
12370 \m@make@fourcol@footgroup{v@r}%
12371 \let\@footgroupv@r\@fourcol@footgroupv@r
12372 \dimen\footinsv@l=4\footinsdim
12373 \count\footinsv@l=250\relax
12374 \bidi@make@fourcol@LTRfootgroup{v@l}%
12375 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12376 \let\@mpfootnotetext\@mpfourcolfootnotetext
12377 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12378 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext

```



```

12379 \@bidi@after@Hy@hyperfootnotes
12380 \m@make@mpfourcol@footgroup{v@r}%
12381 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12382 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12383 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12384 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12385 }
12386 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12387 \if@RTL@footnote
12388 \footinsv@r
12389 \else
12390 \footinsv@l
12391 \fi
12392 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12393 \def\baselinestretch{\m@m@footnote@spacing}%
12394 \reset@font\foottextfont
12395 \@preamfntext
12396 \protected@edef\@currentlabel{%
12397 \csname p@footnote\endcsname\@thefnmark}%
12398 \color@begingroup
12399 \@fourcolfootfmt{#1}%
12400 \color@endgroup}%
12401 \m@mmf@prepare}
12402 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12403 \def\baselinestretch{\m@m@footnote@spacing}%
12404 \reset@font\LTRfoottextfont
12405 \@preamfntext
12406 \protected@edef\@currentlabel{%
12407 \csname p@footnote\endcsname\@thefnmark}%
12408 \color@begingroup
12409 \@fourcolLTRfootfmt{#1}%
12410 \color@endgroup}%
12411 \m@mmf@prepare}
12412 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12413 \def\baselinestretch{\m@m@footnote@spacing}%
12414 \reset@font\RTLfoottextfont
12415 \@preamfntext
12416 \protected@edef\@currentlabel{%
12417 \csname p@footnote\endcsname\@thefnmark}%
12418 \color@begingroup
12419 \@fourcolRTLfootfmt{#1}%
12420 \color@endgroup}%
12421 \m@mmf@prepare}
12422 \bidi@ensure@newcommand{\@preamfourfmt}{%
12423 \hsize .25\hsize
12424 \parindent=\z@
12425 \tolerance=5000\relax
12426 \leavevmode}
12427 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12428 \@preamfourfmt
12429 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12430 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12431 \@preamfourfmt
12432 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}

```




```

12433 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12434   \@preamfourfmt
12435   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12436 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12437   \global\setbox
12438     \if@RTL@footnote
12439     \@mpfootinsv@r
12440   \else
12441     \@mpfootinsv@l
12442   \fi
12443   \vbox{%
12444     \unvbox
12445     \if@RTL@footnote
12446     \@mpfootinsv@r
12447   \else
12448     \@mpfootinsv@l
12449   \fi
12450   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12451   \def\baselinestretch{\m@m@footnote@spacing}%
12452   \reset@font\foottextfont
12453   \hsize\columnwidth \@parboxrestore
12454   \protected@edef\@currentlabel{%
12455     \csname p@mpfootnote\endcsname\@thefnmark}%
12456   \color@begingroup
12457     \@fourcolfootfmt{#1}%
12458   \color@endgroup}%
12459   \m@mmf@prepare}
12460 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12461   \global\setbox\@mpfootinsv@l\vbox{%
12462     \unvbox\@mpfootinsv@l
12463     \@RTLfalse
12464     \def\baselinestretch{\m@m@footnote@spacing}%
12465     \reset@font\LTRfoottextfont
12466     \hsize\columnwidth \@parboxrestore
12467     \protected@edef\@currentlabel{%
12468       \csname p@mpfootnote\endcsname\@thefnmark}%
12469     \color@begingroup
12470       \@fourcolLTRfootfmt{#1}%
12471     \color@endgroup}%
12472     \m@mmf@prepare}
12473 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12474   \global\setbox\@mpfootinsv@r\vbox{%
12475     \unvbox\@mpfootinsv@r
12476     \@RTLtrue
12477     \def\baselinestretch{\m@m@footnote@spacing}%
12478     \reset@font\RTLfoottextfont
12479     \hsize\columnwidth \@parboxrestore
12480     \protected@edef\@currentlabel{%
12481       \csname p@mpfootnote\endcsname\@thefnmark}%
12482     \color@begingroup
12483       \@fourcolRTLfootfmt{#1}%
12484     \color@endgroup}%
12485     \m@mmf@prepare}
12486 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%

```



```

12487 \@namedef{@fourcol@footgroup#1}{%
12488 \def\baselinestretch{\m@m@footnote@spacing}%
12489 \hsize\bi@columnwidth
12490 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12491 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
12492 \newcommand{\bi@make@fourcol@LTRfootgroup}[1]{%
12493 \@namedef{@fourcol@LTRfootgroup#1}{%
12494 \def\baselinestretch{\m@m@footnote@spacing}%
12495 \hsize\bi@columnwidth
12496 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12497 \bi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}
12498 \bi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12499 \@namedef{@mpfourcol@footgroup#1}{%
12500 \def\baselinestretch{\m@m@footnote@spacing}%
12501 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12502 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}
12503 \newcommand{\bi@make@mpfourcol@LTRfootgroup}[1]{%
12504 \@namedef{@mpfourcol@LTRfootgroup#1}{%
12505 \def\baselinestretch{\m@m@footnote@spacing}%
12506 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12507 \bi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}
12508 \bi@ensure@newcommand{\fivecolumnfootnotes}{%
12509 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12510 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12511 \@bidi@before@Hy@hyperfootnotes
12512 \let\@footnotetext\@fivecolfootnotetext
12513 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12514 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12515 \dimen\footinsv@r=5\footinsdim
12516 \count\footinsv@r=200\relax
12517 \m@make@fivecol@footgroup{v@r}%
12518 \let\@footgroupv@r\@fivecol@footgroupv@r
12519 \dimen\footinsv@l=5\footinsdim
12520 \count\footinsv@l=200\relax
12521 \bi@make@fivecol@LTRfootgroup{v@l}%
12522 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12523 \let\@mpfootnotetext\@mpfivecolfootnotetext
12524 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12525 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12526 \@bidi@after@Hy@hyperfootnotes
12527 \m@make@mpfivecol@footgroup{v@r}%
12528 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12529 \bi@make@mpfivecol@LTRfootgroup{v@l}%
12530 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12531 \@ifstar\bi@star@footmarkwidth\bi@normal@footmarkwidth
12532 }
12533 \bi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12534 \if@RTL@footnote
12535 \footinsv@r
12536 \else
12537 \footinsv@l
12538 \fi
12539 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12540 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12541 \reset@font\foottextfont
12542 \@preamfntext
12543 \protected@edef\@currentlabel{%
12544   \csname p@footnote\endcsname\@thefnmark}%
12545 \color@begingroup
12546   \@fivecolfootfmt{#1}%
12547 \color@endgroup}%
12548 \m@mmf@prepare}
12549 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12550   \def\baselinestretch{\m@m@footnote@spacing}%
12551   \reset@font\LTRfoottextfont
12552   \@preamfntext
12553   \protected@edef\@currentlabel{%
12554     \csname p@footnote\endcsname\@thefnmark}%
12555   \color@begingroup
12556     \@fivecolLTRfootfmt{#1}%
12557   \color@endgroup}%
12558   \m@mmf@prepare}
12559 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12560   \def\baselinestretch{\m@m@footnote@spacing}%
12561   \reset@font\RTLfoottextfont
12562   \@preamfntext
12563   \protected@edef\@currentlabel{%
12564     \csname p@footnote\endcsname\@thefnmark}%
12565   \color@begingroup
12566     \@fivecolRTLfootfmt{#1}%
12567   \color@endgroup}%
12568   \m@mmf@prepare}
12569 \bidi@ensure@newcommand{\@preamfivefmt}{%
12570   \hsize .2\hsize
12571   \parindent=\z@
12572   \tolerance=5000\relax
12573   \leavevmode}
12574 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12575   \@preamfivefmt
12576   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12577 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12578   \@preamfivefmt
12579   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12580 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12581   \@preamfivefmt
12582   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12583 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12584   \global\setbox
12585     \if@RTL@footnote
12586     \@mpfootinsv@r
12587   \else
12588     \@mpfootinsv@l
12589   \fi
12590   \vbox{%
12591     \unvbox
12592     \if@RTL@footnote
12593     \@mpfootinsv@r
12594   \else

```



```

12595 \mpfootinsv@l
12596 \fi
12597 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12598 \def\baselinestretch{\m@m@footnote@spacing}%
12599 \reset@font\foottextfont
12600 \hsize\columnwidth \@parboxrestore
12601 \protected@edef\@currentlabel{%
12602 \csname p@mpfootnote\endcsname\@thefnmark}%
12603 \color@begingroup
12604 \@fivecolfootfmt{#1}%
12605 \color@endgroup}%
12606 \m@mmf@prepare}
12607 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12608 \global\setbox\@mpfootinsv@l\vbox{%
12609 \unvbox\@mpfootinsv@l
12610 \@RTLfalse
12611 \def\baselinestretch{\m@m@footnote@spacing}%
12612 \reset@font\LTRfoottextfont
12613 \hsize\columnwidth \@parboxrestore
12614 \protected@edef\@currentlabel{%
12615 \csname p@mpfootnote\endcsname\@thefnmark}%
12616 \color@begingroup
12617 \@fivecolLTRfootfmt{#1}%
12618 \color@endgroup}%
12619 \m@mmf@prepare}
12620 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12621 \global\setbox\@mpfootinsv@r\vbox{%
12622 \unvbox\@mpfootinsv@r
12623 \@RTLtrue
12624 \def\baselinestretch{\m@m@footnote@spacing}%
12625 \reset@font\RTLfoottextfont
12626 \hsize\columnwidth \@parboxrestore
12627 \protected@edef\@currentlabel{%
12628 \csname p@mpfootnote\endcsname\@thefnmark}%
12629 \color@begingroup
12630 \@fivecolRTLfootfmt{#1}%
12631 \color@endgroup}%
12632 \m@mmf@prepare}
12633 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12634 \@namedef{@fivecol@footgroup#1}{%
12635 \def\baselinestretch{\m@m@footnote@spacing}%
12636 \hsize\bidi@columnwidth
12637 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12638 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12639 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12640 \@namedef{@fivecol@LTRfootgroup#1}{%
12641 \def\baselinestretch{\m@m@footnote@spacing}%
12642 \hsize\bidi@columnwidth
12643 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12644 \bidi@LTRigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12645 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12646 \@namedef{@mpfivecol@footgroup#1}{%
12647 \def\baselinestretch{\m@m@footnote@spacing}%
12648 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12649 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12650 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12651 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12652 \def\baselinestretch{\m@m@footnote@spacing}%
12653 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12654 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12655 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12656 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12657 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12658 \@bidi@before@Hy@hyperfootnotes
12659 \let\@footnotetext\@sixcolfootnotetext
12660 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12661 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12662 \dimen\footinsv@r=6\footinsdim
12663 \count\footinsv@r=166\relax
12664 \m@make@sixcol@footgroup{v@r}%
12665 \let\@footgroupv@r\@sixcol@footgroupv@r
12666 \dimen\footinsv@l=6\footinsdim
12667 \count\footinsv@l=166\relax
12668 \bidi@make@sixcol@LTRfootgroup{v@l}%
12669 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12670 \let\@mpfootnotetext\@mpsixcolfootnotetext
12671 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12672 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12673 \@bidi@after@Hy@hyperfootnotes
12674 \m@make@mpsixcol@footgroup{v@r}%
12675 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12676 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12677 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12678 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12679 }
12680 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12681 \if@RTL@footnote
12682 \footinsv@r
12683 \else
12684 \footinsv@l
12685 \fi
12686 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12687 \def\baselinestretch{\m@m@footnote@spacing}%
12688 \reset@font\foottextfont
12689 \@preamfntext
12690 \protected@edef\@currentlabel{%
12691 \csname p@footnote\endcsname\@thefnmark}%
12692 \color@begingroup
12693 \@sixcolfootfmt{#1}%
12694 \color@endgroup}%
12695 \m@m@prepare}
12696 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12697 \def\baselinestretch{\m@m@footnote@spacing}%
12698 \reset@font\LTRfoottextfont
12699 \@preamfntext
12700 \protected@edef\@currentlabel{%
12701 \csname p@footnote\endcsname\@thefnmark}%
12702 \color@begingroup

```



```

12703 \sixcolLTRfootfmt{#1}%
12704 \color@endgroup}%
12705 \m@mmf@prepare}
12706 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12707 \def\baselinestretch{\m@m@footnote@spacing}%
12708 \reset@font\RTLfoottextfont
12709 \@preamfntext
12710 \protected@edef\@currentlabel{%
12711 \csname p@footnote\endcsname\@thefnmark}%
12712 \color@begingroup
12713 \sixcolRTLfootfmt{#1}%
12714 \color@endgroup}%
12715 \m@mmf@prepare}
12716 \bidi@ensure@newcommand{\@preamsixfmt}{%
12717 \hspace{.16\hspace}
12718 \parindent=\z@
12719 \tolerance=5000\relax
12720 \leavevmode}
12721 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12722 \@preamsixfmt
12723 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12724 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12725 \@preamsixfmt
12726 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12727 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12728 \@preamsixfmt
12729 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12730 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12731 \global\setbox
12732 \if@RTL@footnote
12733 \@mpfootinsv@r
12734 \else
12735 \@mpfootinsv@l
12736 \fi
12737 \vbox{%
12738 \unvbox
12739 \if@RTL@footnote
12740 \@mpfootinsv@r
12741 \else
12742 \@mpfootinsv@l
12743 \fi
12744 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \reset@font\foottextfont
12747 \hspace\columnwidth \@parboxrestore
12748 \protected@edef\@currentlabel{%
12749 \csname p@mpfootnote\endcsname\@thefnmark}%
12750 \color@begingroup
12751 \sixcolfootfmt{#1}%
12752 \color@endgroup}%
12753 \m@mmf@prepare}
12754 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12755 \global\setbox\@mpfootinsv@l\vbox{%
12756 \unvbox\@mpfootinsv@l

```



```

12757 \RTLfalse
12758 \def\baselinestretch{\m@m@footnote@spacing}%
12759 \reset@font\LTRfoottextfont
12760 \hsize\columnwidth \@parboxrestore
12761 \protected@edef\@currentlabel{%
12762   \csname p@mpfootnote\endcsname\@thefnmark}%
12763 \color@begingroup
12764 \@sixcolLTRfootfmt{#1}%
12765 \color@endgroup}%
12766 \m@mmf@prepare}
12767 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12768   \global\setbox\@mpfootinsv\@vbox{%
12769     \unvbox\@mpfootinsv@r
12770     \RTLtrue
12771     \def\baselinestretch{\m@m@footnote@spacing}%
12772     \reset@font\RTLfoottextfont
12773     \hsize\columnwidth \@parboxrestore
12774     \protected@edef\@currentlabel{%
12775       \csname p@mpfootnote\endcsname\@thefnmark}%
12776     \color@begingroup
12777     \@sixcolRTLfootfmt{#1}%
12778     \color@endgroup}%
12779     \m@mmf@prepare}
12780 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12781   \@namedef{@sixcol@footgroup#1}{%
12782     \def\baselinestretch{\m@m@footnote@spacing}%
12783     \hsize\bidi@columnwidth
12784     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12785     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12786 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12787   \@namedef{@sixcol@LTRfootgroup#1}{%
12788     \def\baselinestretch{\m@m@footnote@spacing}%
12789     \hsize\bidi@columnwidth
12790     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12791     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12792 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12793   \@namedef{@mpsixcol@footgroup#1}{%
12794     \def\baselinestretch{\m@m@footnote@spacing}%
12795     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12796     \m@mrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12797 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12798   \@namedef{@mpsixcol@LTRfootgroup#1}{%
12799     \def\baselinestretch{\m@m@footnote@spacing}%
12800     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12801     \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12802 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12803   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12804   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12805   \@bidi@before@Hy@hyperfootnotes
12806   \let\@footnotetext\@sevendcolfootnotetext
12807   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12808   \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12809   \dimen\footinsv@r=7\footinsdim
12810   \count\footinsv@r=142\relax

```



```

12811 \m@make@sevenscol@footgroup{v@r}%
12812 \let\@footgroupv@r\@sevenscol@footgroupv@r
12813 \dimen\footinsv@l=7\footinsdim
12814 \count\footinsv@l=142\relax
12815 \bidi@make@sevenscol@LTRfootgroup{v@l}%
12816 \let\@LTRfootgroupv@l\@sevenscol@LTRfootgroupv@l
12817 \let\@mpfootnotetext\@mpsevenscolfootnotetext
12818 \let\@mpLTRfootnotetext\@mpsevenscolLTRfootnotetext
12819 \let\@mpRTLfootnotetext\@mpsevenscolRTLfootnotetext
12820 \@bidi@after@Hy@hyperfootnotes
12821 \m@make@mpsevenscol@footgroup{v@r}%
12822 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
12823 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
12824 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
12825 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12826 }
12827 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
12828 \if@RTL@footnote
12829 \footinsv@r
12830 \else
12831 \footinsv@l
12832 \fi
12833 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12834 \def\baselinestretch{\m@m@footnote@spacing}%
12835 \reset@font\foottextfont
12836 \@preamfntext
12837 \protected@edef\@currentlabel{%
12838 \csname p@footnote\endcsname\@thefnmark}%
12839 \color@begingroup
12840 \@sevenscolfootfmt{#1}%
12841 \color@endgroup}%
12842 \m@mmf@prepare}
12843 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12844 \def\baselinestretch{\m@m@footnote@spacing}%
12845 \reset@font\LTRfoottextfont
12846 \@preamfntext
12847 \protected@edef\@currentlabel{%
12848 \csname p@footnote\endcsname\@thefnmark}%
12849 \color@begingroup
12850 \@sevenscolLTRfootfmt{#1}%
12851 \color@endgroup}%
12852 \m@mmf@prepare}
12853 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12854 \def\baselinestretch{\m@m@footnote@spacing}%
12855 \reset@font\RTLfoottextfont
12856 \@preamfntext
12857 \protected@edef\@currentlabel{%
12858 \csname p@footnote\endcsname\@thefnmark}%
12859 \color@begingroup
12860 \@sevenscolRTLfootfmt{#1}%
12861 \color@endgroup}%
12862 \m@mmf@prepare}
12863 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12864 \hsize .142\hsize

```




```

12865 \parindent=\z@
12866 \tolerance=5000\relax
12867 \leavevmode}
12868 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
12869 \@preamsevenfmt
12870 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12871 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
12872 \@preamsevenfmt
12873 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12874 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
12875 \@preamsevenfmt
12876 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12877 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{%
12878 \global\setbox
12879 \if@RTL@footnote
12880 \@mpfootinsv@r
12881 \else
12882 \@mpfootinsv@l
12883 \fi
12884 \vbox{%
12885 \unvbox
12886 \if@RTL@footnote
12887 \@mpfootinsv@r
12888 \else
12889 \@mpfootinsv@l
12890 \fi
12891 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12892 \def\baselinestretch{\m@m@footnote@spacing}%
12893 \reset@font\foottextfont
12894 \hsize\columnwidth \@parboxrestore
12895 \protected@edef\@currentlabel{%
12896 \csname p@mpfootnote\endcsname\@thefnmark}%
12897 \color@begingroup
12898 \@sevendcolfootfmt{#1}%
12899 \color@endgroup}%
12900 \m@m@mpf@prepare}
12901 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{%
12902 \global\setbox\@mpfootinsv@l\vbox{%
12903 \unvbox\@mpfootinsv@l
12904 \@RTLfalse
12905 \def\baselinestretch{\m@m@footnote@spacing}%
12906 \reset@font\LTRfoottextfont
12907 \hsize\columnwidth \@parboxrestore
12908 \protected@edef\@currentlabel{%
12909 \csname p@mpfootnote\endcsname\@thefnmark}%
12910 \color@begingroup
12911 \@sevendcolLTRfootfmt{#1}%
12912 \color@endgroup}%
12913 \m@m@mpf@prepare}
12914 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{%
12915 \global\setbox\@mpfootinsv@r\vbox{%
12916 \unvbox\@mpfootinsv@r
12917 \@RTLtrue
12918 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12919 \reset@font\RTLfoottextfont
12920 \hsize\columnwidth \@parboxrestore
12921 \protected@edef\@currentlabel{%
12922 \csname p@mpfootnote\endcsname\@thefnmark}%
12923 \color@begingroup
12924 \@sevenscolRTLfootfmt{#1}%
12925 \color@endgroup}%
12926 \m@mmf@prepare}
12927 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12928 \@namedef{sevenscol@footgroup#1}{%
12929 \def\baselinestretch{\m@footnote@spacing}%
12930 \hsize\bidi@columnwidth
12931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12932 \m@mrighdbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12933 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12934 \@namedef{sevenscol@LTRfootgroup#1}{%
12935 \def\baselinestretch{\m@footnote@spacing}%
12936 \hsize\bidi@columnwidth
12937 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12938 \bidi@LTRrighdbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12939 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12940 \@namedef{mpsevenscol@footgroup#1}{%
12941 \def\baselinestretch{\m@footnote@spacing}%
12942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12943 \m@mrighdbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
12944 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12945 \@namedef{mpsevenscol@LTRfootgroup#1}{%
12946 \def\baselinestretch{\m@footnote@spacing}%
12947 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12948 \bidi@LTRrighdbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
12949 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12950 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12951 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12952 \@bidi@before@Hy@hyperfootnotes
12953 \let\@footnotetext\@eightcolfootnotetext
12954 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12955 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12956 \dimen\footinsv@r=8\footinsdim
12957 \count\footinsv@r=125\relax
12958 \m@make@eightcol@footgroup{v@r}%
12959 \let\@footgroupv@r\@eightcol@footgroupv@r
12960 \dimen\footinsv@l=8\footinsdim
12961 \count\footinsv@l=125\relax
12962 \bidi@make@eightcol@LTRfootgroup{v@l}%
12963 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12964 \let\@mpfootnotetext\@mpeightcolfootnotetext
12965 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12966 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12967 \@bidi@after@Hy@hyperfootnotes
12968 \m@make@mpeightcol@footgroup{v@r}%
12969 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12970 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12971 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12972 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

12973 }
12974 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12975   \if@RTL@footnote
12976     \footinsv@r
12977   \else
12978     \footinsv@l
12979   \fi
12980 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12981   \def\baselinestretch{\m@m@footnote@spacing}%
12982   \reset@font\foottextfont
12983   \@preamfntext
12984   \protected@edef\@currentlabel{%
12985     \csname p@footnote\endcsname\@thefnmark}%
12986   \color@begingroup
12987     \@eightcolfootfmt{#1}%
12988   \color@endgroup}%
12989   \m@m@mmf@prepare}
12990 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12991   \def\baselinestretch{\m@m@footnote@spacing}%
12992   \reset@font\LTRfoottextfont
12993   \@preamfntext
12994   \protected@edef\@currentlabel{%
12995     \csname p@footnote\endcsname\@thefnmark}%
12996   \color@begingroup
12997     \@eightcolLTRfootfmt{#1}%
12998   \color@endgroup}%
12999   \m@m@mmf@prepare}
13000 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13001   \def\baselinestretch{\m@m@footnote@spacing}%
13002   \reset@font\RTLfoottextfont
13003   \@preamfntext
13004   \protected@edef\@currentlabel{%
13005     \csname p@footnote\endcsname\@thefnmark}%
13006   \color@begingroup
13007     \@eightcolRTLfootfmt{#1}%
13008   \color@endgroup}%
13009   \m@m@mmf@prepare}
13010 \bidi@ensure@newcommand{\@preameightfmt}{%
13011   \hsize .125\hsize
13012   \parindent=\z@
13013   \tolerance=5000\relax
13014   \leavevmode}
13015 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13016   \@preameightfmt
13017   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13018 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13019   \@preameightfmt
13020   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13021 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13022   \@preameightfmt
13023   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13024 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13025   \global\setbox
13026   \if@RTL@footnote

```



```

13027 \mpfootinsv@r
13028 \else
13029 \mpfootinsv@l
13030 \fi
13031 \vbox{%
13032 \unvbox
13033 \if@RTL@footnote
13034 \mpfootinsv@r
13035 \else
13036 \mpfootinsv@l
13037 \fi
13038 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13039 \def\baselinestretch{\m@{footnote@spacing}}%
13040 \reset@font\foottextfont
13041 \hsize\columnwidth \@parboxrestore
13042 \protected@edef\@currentlabel{%
13043 \csname p@mpfootnote\endcsname\@thefnmark}%
13044 \color@begingroup
13045 \@eightcolfootfmt{#1}%
13046 \color@endgroup}%
13047 \m@m{f@prepare}
13048 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13049 \global\setbox\@mpfootinsv@l\vbox{%
13050 \unvbox\@mpfootinsv@l
13051 \@RTLfalse
13052 \def\baselinestretch{\m@{footnote@spacing}}%
13053 \reset@font\LTRfoottextfont
13054 \hsize\columnwidth \@parboxrestore
13055 \protected@edef\@currentlabel{%
13056 \csname p@mpfootnote\endcsname\@thefnmark}%
13057 \color@begingroup
13058 \@eightcolLTRfootfmt{#1}%
13059 \color@endgroup}%
13060 \m@m{f@prepare}
13061 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
13062 \global\setbox\@mpfootinsv@r\vbox{%
13063 \unvbox\@mpfootinsv@r
13064 \@RTLtrue
13065 \def\baselinestretch{\m@{footnote@spacing}}%
13066 \reset@font\RTLfoottextfont
13067 \hsize\columnwidth \@parboxrestore
13068 \protected@edef\@currentlabel{%
13069 \csname p@mpfootnote\endcsname\@thefnmark}%
13070 \color@begingroup
13071 \@eightcolRTLfootfmt{#1}%
13072 \color@endgroup}%
13073 \m@m{f@prepare}
13074 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13075 \@namedef{@eightcol@footgroup#1}{%
13076 \def\baselinestretch{\m@{footnote@spacing}}%
13077 \hsize\bidi@columnwidth
13078 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13079 \m@{rigidbalance}{\@nameuse{footins#1}}{8}{\splittopskip}}}%
13080 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%

```



```

13081 \@namedef{@eightcol@LTRfootgroup#1}{%
13082 \def\baselinestretch{\m@m@footnote@spacing}%
13083 \hsize\bi@columnwidth
13084 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13085 \bi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
13086 \bi@ensure@newcommand{\m@make@mp@eightcol@footgroup}[1]{%
13087 \@namedef{@mp@eightcol@footgroup#1}{%
13088 \def\baselinestretch{\m@m@footnote@spacing}%
13089 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13090 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}
13091 \newcommand{\bi@make@mp@eightcol@LTRfootgroup}[1]{%
13092 \@namedef{@mp@eightcol@LTRfootgroup#1}{%
13093 \def\baselinestretch{\m@m@footnote@spacing}%
13094 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13095 \bi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}
13096 \bi@ensure@newcommand{\ninecolumnfootnotes}{%
13097 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13098 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13099 \@bi@before@Hy@hyperfootnotes
13100 \let\@footnotetext\@ninecolfootnotetext
13101 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
13102 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
13103 \dimen\footinsv@r=9\footinsdim
13104 \count\footinsv@r=111\relax
13105 \m@make@ninecol@footgroup{v@r}%
13106 \let\@footgroupv@r\@ninecol@footgroupv@r
13107 \dimen\footinsv@l=9\footinsdim
13108 \count\footinsv@l=111\relax
13109 \bi@make@ninecol@LTRfootgroup{v@l}%
13110 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
13111 \let\@mpfootnotetext\@mpninecolfootnotetext
13112 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
13113 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
13114 \@bi@after@Hy@hyperfootnotes
13115 \m@make@mpninecol@footgroup{v@r}%
13116 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
13117 \bi@make@mpninecol@LTRfootgroup{v@l}%
13118 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
13119 \@ifstar\bi@star@footmarkwidth\bi@normal@footmarkwidth
13120 }
13121 \bi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
13122 \if@RTL@footnote
13123 \footinsv@r
13124 \else
13125 \footinsv@l
13126 \fi
13127 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13128 \def\baselinestretch{\m@m@footnote@spacing}%
13129 \reset@font\foottextfont
13130 \@preamfntext
13131 \protected@edef\@currentlabel{%
13132 \csname p@footnote\endcsname\@thefnmark}%
13133 \color@begingroup
13134 \@ninecolfootfmt{#1}%

```



```

13135 \color@endgroup}%
13136 \m@mmf@prepare}
13137 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13138 \def\baselinestretch{\m@m@footnote@spacing}%
13139 \reset@font\LTRfoottextfont
13140 \@preamfntext
13141 \protected@edef\@currentlabel{%
13142 \csname p@footnote\endcsname\@thefnmark}%
13143 \color@begingroup
13144 \@ninecolLTRfootfmt{#1}%
13145 \color@endgroup}%
13146 \m@mmf@prepare}
13147 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13148 \def\baselinestretch{\m@m@footnote@spacing}%
13149 \reset@font\RTLfoottextfont
13150 \@preamfntext
13151 \protected@edef\@currentlabel{%
13152 \csname p@footnote\endcsname\@thefnmark}%
13153 \color@begingroup
13154 \@ninecolRTLfootfmt{#1}%
13155 \color@endgroup}%
13156 \m@mmf@prepare}
13157 \bidi@ensure@newcommand{\@preamninefmt}{%
13158 \hsize .1\hsize
13159 \parindent=\z@
13160 \tolerance=5000\relax
13161 \leavevmode}
13162 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
13163 \@preamninefmt
13164 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13165 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
13166 \@preamninefmt
13167 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13168 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
13169 \@preamninefmt
13170 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13171 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13172 \global\setbox
13173 \if@RTL@footnote
13174 \@mpfootinsv@r
13175 \else
13176 \@mpfootinsv@l
13177 \fi
13178 \vbox{%
13179 \unvbox
13180 \if@RTL@footnote
13181 \@mpfootinsv@r
13182 \else
13183 \@mpfootinsv@l
13184 \fi
13185 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13186 \def\baselinestretch{\m@m@footnote@spacing}%
13187 \reset@font\foottextfont
13188 \hsize\columnwidth \@parboxrestore

```



```

13189 \protected@edef\@currentlabel{%
13190 \csname p@mpfootnote\endcsname\@thefnmark}%
13191 \color@begingroup
13192 \@ninecolfootfmt{#1}%
13193 \color@endgroup}%
13194 \m@mmf@prepare}
13195 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13196 \global\setbox\@mpfootinsv\l\ vbox{%
13197 \unvbox\@mpfootinsv\l
13198 \@RTLfalse
13199 \def\baselinestretch{\m@m@footnote@spacing}%
13200 \reset@font\LTRfoottextfont
13201 \hsize\columnwidth \@parboxrestore
13202 \protected@edef\@currentlabel{%
13203 \csname p@mpfootnote\endcsname\@thefnmark}%
13204 \color@begingroup
13205 \@ninecolLTRfootfmt{#1}%
13206 \color@endgroup}%
13207 \m@mmf@prepare}
13208 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13209 \global\setbox\@mpfootinsv\@r\ vbox{%
13210 \unvbox\@mpfootinsv\@r
13211 \@RTLtrue
13212 \def\baselinestretch{\m@m@footnote@spacing}%
13213 \reset@font\RTLfoottextfont
13214 \hsize\columnwidth \@parboxrestore
13215 \protected@edef\@currentlabel{%
13216 \csname p@mpfootnote\endcsname\@thefnmark}%
13217 \color@begingroup
13218 \@ninecolRTLfootfmt{#1}%
13219 \color@endgroup}%
13220 \m@mmf@prepare}
13221 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13222 \@namedef{@ninecol@footgroup#1}{%
13223 \def\baselinestretch{\m@m@footnote@spacing}%
13224 \hsize\bidi@columnwidth
13225 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13226 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13227 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13228 \@namedef{@ninecol@LTRfootgroup#1}{%
13229 \def\baselinestretch{\m@m@footnote@spacing}%
13230 \hsize\bidi@columnwidth
13231 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13232 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13233 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13234 \@namedef{@mpninecol@footgroup#1}{%
13235 \def\baselinestretch{\m@m@footnote@spacing}%
13236 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13237 \m@mrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%
13238 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13239 \@namedef{@mpninecol@LTRfootgroup#1}{%
13240 \def\baselinestretch{\m@m@footnote@spacing}%
13241 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13242 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%

```




```

13243 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13244   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13245   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13246   \@bidi@before@Hy@hyperfootnotes
13247   \let\@footnotetext\@tencolfootnotetext
13248   \let\@LTRfootnotetext\@tencolLTRfootnotetext
13249   \let\@RTLfootnotetext\@tencolRTLfootnotetext
13250   \dimen\footinsv@r=10\footinsdim
13251   \count\footinsv@r=100\relax
13252   \m@make@tencol@footgroup{v@r}%
13253   \let\@footgroupv@r\@tencol@footgroupv@r
13254   \dimen\footinsv@l=10\footinsdim
13255   \count\footinsv@l=100\relax
13256   \bidi@make@tencol@LTRfootgroup{v@l}%
13257   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13258   \let\@mpfootnotetext\@mptencolfootnotetext
13259   \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13260   \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13261   \@bidi@after@Hy@hyperfootnotes
13262   \m@make@mptencol@footgroup{v@r}%
13263   \let\mp@footgroupv@r\@mptencol@footgroupv@r
13264   \bidi@make@mptencol@LTRfootgroup{v@l}%
13265   \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13266   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13267 }
13268 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13269   \if@RTL@footnote
13270     \footinsv@r
13271   \else
13272     \footinsv@l
13273   \fi
13274 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13275   \def\baselinestretch{\m@m@footnote@spacing}%
13276   \reset@font\foottextfont
13277   \@preamfntext
13278   \protected@edef\@currentlabel{%
13279     \csname p@footnote\endcsname\@thefnmark}%
13280   \color@begingroup
13281     \@tencolfootfmt{#1}%
13282   \color@endgroup}%
13283   \m@mmf@prepare}
13284 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13285   \def\baselinestretch{\m@m@footnote@spacing}%
13286   \reset@font\LTRfoottextfont
13287   \@preamfntext
13288   \protected@edef\@currentlabel{%
13289     \csname p@footnote\endcsname\@thefnmark}%
13290   \color@begingroup
13291     \@tencolLTRfootfmt{#1}%
13292   \color@endgroup}%
13293   \m@mmf@prepare}
13294 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13295   \def\baselinestretch{\m@m@footnote@spacing}%
13296   \reset@font\RTLfoottextfont

```




```

13297 \@preamfntext
13298 \protected@edef\@currentlabel{%
13299     \csname p@footnote\endcsname\@thefnmark}%
13300 \color@begingroup
13301     \@tencolRTLfootfmt{#1}%
13302 \color@endgroup}%
13303 \m@mmf@prepare}
13304 \bidi@ensure@newcommand{\@preamtenfmt}{%
13305     \hsize .1\hsize
13306     \parindent=\z@
13307     \tolerance=5000\relax
13308     \leavevmode}
13309 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13310     \@preamtenfmt
13311     {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13312 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13313     \@preamtenfmt
13314     {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13315 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13316     \@preamtenfmt
13317     {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13318 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13319     \global\setbox
13320         \if@RTL@footnote
13321         \@mpfootinsv@r
13322     \else
13323         \@mpfootinsv@l
13324     \fi
13325     \vbox{%
13326         \unvbox
13327         \if@RTL@footnote
13328         \@mpfootinsv@r
13329     \else
13330         \@mpfootinsv@l
13331     \fi
13332     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13333     \def\baselinestretch{\m@m@footnote@spacing}%
13334     \reset@font\foottextfont
13335     \hsize\columnwidth \@parboxrestore
13336     \protected@edef\@currentlabel{%
13337         \csname p@mpfootnote\endcsname\@thefnmark}%
13338     \color@begingroup
13339         \@tencolfootfmt{#1}%
13340     \color@endgroup}%
13341     \m@mmf@prepare}
13342 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13343     \global\setbox\@mpfootinsv@l\vbox{%
13344         \unvbox\@mpfootinsv@l
13345         \@RTLfalse
13346         \def\baselinestretch{\m@m@footnote@spacing}%
13347         \reset@font\LTRfoottextfont
13348         \hsize\columnwidth \@parboxrestore
13349         \protected@edef\@currentlabel{%
13350             \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

13351 \color@begingroup
13352 \tencolLTRfootfmt{#1}%
13353 \color@endgroup}%
13354 \m@mmf@prepare}
13355 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13356 \global\setbox\@mpfootinsv@r\vbox{%
13357 \unvbox\@mpfootinsv@r
13358 \@RTLtrue
13359 \def\baselinestretch{\m@m@footnote@spacing}%
13360 \reset@font\RTLfoottextfont
13361 \hsize\columnwidth \@parboxrestore
13362 \protected@edef\@currentlabel{%
13363 \csname p@mpfootnote\endcsname\@thefnmark}%
13364 \color@begingroup
13365 \tencolRTLfootfmt{#1}%
13366 \color@endgroup}%
13367 \m@mmf@prepare}
13368 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13369 \@namedef{tencol@footgroup#1}{%
13370 \def\baselinestretch{\m@m@footnote@spacing}%
13371 \hsize\bidi@columnwidth
13372 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13373 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13374 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13375 \@namedef{tencol@LTRfootgroup#1}{%
13376 \def\baselinestretch{\m@m@footnote@spacing}%
13377 \hsize\bidi@columnwidth
13378 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13379 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13380 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13381 \@namedef{mptencol@footgroup#1}{%
13382 \def\baselinestretch{\m@m@footnote@spacing}%
13383 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13384 \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
13385 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13386 \@namedef{mptencol@LTRfootgroup#1}{%
13387 \def\baselinestretch{\m@m@footnote@spacing}%
13388 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13389 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
13390 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13391 \setbox0=\vbox{\unvbox#1%
13392 \global\setbox1=\lastbox}%
13393 \unhbox1
13394 \unskip
13395 \unskip
13396 \unpenalty
13397 \hskip\m@mipn@skip}
13398 \bidi@ensure@newcommand{\m@mungebox}{%
13399 \setbox0=\hbox{\m@munvxh0}%
13400 \dp0=\z@
13401 \ht0=\footfudgefactor\wd0
13402 \box0
13403 \penalty0}
13404 \newskip\m@mipn@skip

```



```

13405 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
13406   {\foottextfont\global\m@mipn@skip=#1\relax}}
13407 \m@minterparanoteglue{1em plus.3em minus.3em}
13408 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13409   \setbox0=\hbox{}}%
13410   \loop
13411     \unpenalty
13412     \setbox2=\lastbox
13413     \ifhbox2
13414       \setbox0=\hbox{\box2\unhbox0}
13415     \repeat}
13416 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13417   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13418 \newcommand*\AddExtraParaSkip[1]{%
13419   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13420 }
13421 \let\bidi@xparaskip\relax
13422 \@onlypreamble\AddExtraParaSkip
13423 \@onlypreamble\bidi@xparaskip
13424 \def\bidi@startparafootskip#1{%
13425   \global\advance\skip#1\bidi@paraskip
13426 }
13427 \@onlypreamble\bidi@startparafootskip
13428 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13429   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13430   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13431   \@bidi@before@Hy@hyperfootnotes
13432   \let\@footnotetext\@parafootnotetext
13433   \let\@LTRfootnotetext\@paraLTRfootnotetext
13434   \let\@RTLfootnotetext\@paraRTLfootnotetext
13435   \dimen\footinsv@r=\footinsdim
13436   \count\footinsv@r=1000\relax
13437   \let\bidi@removexfootskip\bidi@removexparafootskip
13438   \m@make@para@footgroup{v@r}%
13439   \m@make@para@footstart{v@r}%
13440   \let\@footgroupv@r\@para@footgroupv@r
13441   \let\@footstartv@r\@para@footstartv@r
13442   \dimen\footinsv@l=\footinsdim
13443   \count\footinsv@l=1000\relax
13444   \bidi@make@para@LTRfootgroup{v@l}%
13445   \m@make@para@footstart{v@l}%
13446   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13447   \let\@footstartv@l\@para@footstartv@l
13448   \let\@mpfootnotetext\@mpparafootnotetext
13449   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13450   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13451   \@bidi@after@Hy@hyperfootnotes
13452   \m@make@mppara@footgroup{v@r}%
13453   \bidi@make@mppara@LTRfootgroup{v@l}%
13454   \let\mp@footgroupv@r\@mppara@footgroupv@r
13455   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13456   \g@addto@macro\bidi@floathook{%
13457     \begingroup
13458     \foottextfont \@tempdima\normalbaselineskip

```



```

13459     \multiply \@tempdima \@cclvi
13460     \@tempdimb \columnwidth
13461     \divide \@tempdimb \@cclvi
13462     \divide \@tempdima \@tempdimb
13463     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13464 \endgroup
13465 }
13466 \AtBeginDocument{%
13467   \begingroup
13468     \foottextfont
13469     \@tempdima\footnotesep
13470     \advance\@tempdima -\ht\strutbox
13471     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13472     \advance\@tempdima.5\normalbaselineskip
13473     \bidi@xparaskip
13474     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13475   \endgroup
13476   \bidi@startparafootskip\footinsv@r
13477   \bidi@startparafootskip\footinsv@l
13478 }
13479 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13480 }
13481 \newcommand{\normalRTLparaLTRfootnotes}{%
13482   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13483   \@bidi@before@Hy@hyperfootnotes
13484   \if@RTL@footnote
13485     \let\@footnotetext\m@mold@footnotetext
13486   \else
13487     \let\@footnotetext\@parafootnotetext
13488   \fi
13489   \let\@LTRfootnotetext\@paraLTRfootnotetext
13490   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13491   \dimen\footinsv@l=\footinsdim
13492   \count\footinsv@l=1000\relax
13493   \let\bidi@removexfootskip\bidi@removexparafootskip
13494   \bidi@make@para@LTRfootgroup{v@l}%
13495   \m@make@para@footstart{v@l}%
13496   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13497   \let\@footstartv@l\@para@footstartv@l
13498   \if@RTL@footnote
13499     \let\@mpfootnotetext\m@mold@mpfootnotetext
13500   \else
13501     \let\@mpfootnotetext\@mpparafootnotetext
13502   \fi
13503   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13504   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13505   \@bidi@after@Hy@hyperfootnotes
13506   \bidi@make@mppara@LTRfootgroup{v@l}%
13507   \let\@mpLTRfootgroupv@l\@mppara@LTRfootgroupv@l
13508   \g@addto@macro\bidi@floathook{%
13509     \begingroup
13510       \LTRfoottextfont \@tempdima\normalbaselineskip
13511       \multiply \@tempdima \@cclvi
13512       \@tempdimb \columnwidth

```



```

13513     \divide \@tempdimb \@cclvi
13514     \divide \@tempdima \@tempdimb
13515     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13516   \endgroup
13517 }
13518 \AtBeginDocument{%
13519   \begingroup
13520     \LTRfoottextfont
13521     \@tempdima\footnotesep
13522     \advance\@tempdima -\ht\strutbox
13523     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13524     \advance\@tempdima.5\normalbaselineskip
13525     \bidi@xparaskip
13526     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13527   \endgroup
13528   \bidi@startparafootskip\footinsv@l
13529 }
13530 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13531 }
13532 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13533   \if@RTL@footnote
13534     \footinsv@r
13535   \else
13536     \footinsv@l
13537   \fi
13538   {%
13539     \let\bidi@RTL@everypar\@empty%
13540     \def\baselinestretch{\m@m@footnote@spacing}%
13541     \reset@font\foottextfont
13542     \@preamfntext
13543     \protected@edef\@currentlabel{%
13544       \csname p@footnote\endcsname\@thefnmark}%
13545     \setbox0=\vbox{\hsize=\maxdimen
13546       \color@begingroup
13547         \noindent \@parafootfmt{#1}%
13548       \color@endgroup}%
13549     \m@mungebox\m@m@mmf@prepare}
13550 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13551   \let\bidi@RTL@everypar\@empty%
13552   \def\baselinestretch{\m@m@footnote@spacing}%
13553   \reset@font\LTRfoottextfont
13554   \@preamfntext
13555   \protected@edef\@currentlabel{%
13556     \csname p@footnote\endcsname\@thefnmark}%
13557   \setbox0=\vbox{\hsize=\maxdimen
13558     \color@begingroup
13559       \noindent \@paraLTRfootfmt{#1}%
13560     \color@endgroup}%
13561   \m@mungebox\m@m@mmf@prepare}
13562 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13563   \let\bidi@RTL@everypar\@empty%
13564   \def\baselinestretch{\m@m@footnote@spacing}%
13565   \reset@font\RTLfoottextfont
13566   \@preamfntext

```



```

13567 \protected@edef\@currentlabel{%
13568 \csname p@footnote\endcsname\@thefnmark}%
13569 \setbox0=\vbox{\hsize=\maxdimen
13570 \color@begingroup
13571 \noindent \@paraRTLfootfmt{#1}%
13572 \color@endgroup}%
13573 \m@mungebox}\m@mmf@prepare}
13574 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13575 \parindent=\z@
13576 \parfillskip=0pt \@plus 1fil
13577 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13578 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13579 \parindent=\z@
13580 \parfillskip=0pt \@plus 1fil
13581 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13582 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13583 \parindent=\z@
13584 \parfillskip=0pt \@plus 1fil
13585 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13586 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13587 \global\setbox
13588 \if@RTL@footnote
13589 \@mpfootinsv@r
13590 \else
13591 \@mpfootinsv@l
13592 \fi
13593 \vbox{%
13594 \unvbox
13595 \if@RTL@footnote
13596 \@mpfootinsv@r
13597 \else
13598 \@mpfootinsv@l
13599 \fi
13600 \let\bidi@RTL@everypar\@empty
13601 \def\baselinestretch{\m@m@footnote@spacing}%
13602 \reset@font\foottextfont
13603 \hsize\columnwidth \@parboxrestore
13604 \protected@edef\@currentlabel{%
13605 \csname p@mpfootnote\endcsname\@thefnmark}%
13606 \setbox0=\vbox{\hsize=\maxdimen
13607 \color@begingroup
13608 \noindent \@parafootfmt{#1}%
13609 \color@endgroup}%
13610 \m@mungebox}\m@mmf@prepare}
13611 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13612 \global\setbox\@mpfootinsv@l\vbox{%
13613 \unvbox\@mpfootinsv@l
13614 \let\bidi@RTL@everypar\@empty
13615 \def\baselinestretch{\m@m@footnote@spacing}%
13616 \reset@font\LTRfoottextfont
13617 \hsize\columnwidth \@parboxrestore
13618 \protected@edef\@currentlabel{%
13619 \csname p@mpfootnote\endcsname\@thefnmark}%
13620 \setbox0=\vbox{\hsize=\maxdimen

```



```

13621 \color@begingroup
13622 \noindent \@paraLTRfootfmt{#1}%
13623 \color@endgroup}%
13624 \m@mungebox}\m@mmf@prepare}
13625 \bidi@ensure@newcommand{\m@pparaRTLfootnotetext}[1]{%
13626 \global\setbox\@mpfootinsv\@r\@vbox{%
13627 \unvbox\@mpfootinsv\@r
13628 \let\bidi@RTL@everypar\@empty
13629 \def\baselinestretch{\m@m@footnote@spacing}%
13630 \reset@font\RTLfoottextfont
13631 \hsize\columnwidth \@parboxrestore
13632 \protected@edef\@currentlabel{%
13633 \csname p@mpfootnote\endcsname\@thefnmark}%
13634 \setbox0=\vbox{\hsize=\maxdimen
13635 \color@begingroup
13636 \noindent \@paraRTLfootfmt{#1}%
13637 \color@endgroup}%
13638 \m@mungebox}\m@mmf@prepare}
13639 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13640 \@namedef{\@para@footgroup#1}{%
13641 \unvbox\@nameuse{footins#1}
13642 \@RTLtrue
13643 \m@mmakehboxofhboxes
13644 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13645 \hsize\bidi@columnwidth
13646 \@parboxrestore
13647 \def\baselinestretch{\m@m@footnote@spacing}%
13648 \@nameuse{foottextfont#1}%
13649 \noindent\unhbox0\par}}
13650 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13651 \@namedef{\@para@LTRfootgroup#1}{%
13652 \unvbox\@nameuse{footins#1}
13653 \@RTLfalse
13654 \m@mmakehboxofhboxes
13655 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13656 \hsize\bidi@columnwidth
13657 \@parboxrestore
13658 \def\baselinestretch{\m@m@footnote@spacing}%
13659 \@nameuse{foottextfont#1}%
13660 \noindent\unhbox0\par}}
13661 \newcommand{\bidi@removexparafootskip}{%
13662 \advance\@tempskipa -\bidi@paraskip
13663 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13664 }
13665 \let\bidi@removexfootskip\relax
13666 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13667 \@namedef{\m@ppara@footgroup#1}{%
13668 \unvbox\@nameuse{\@mpfootins#1}
13669 \@RTLtrue
13670 \m@mmakehboxofhboxes
13671 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13672 \def\baselinestretch{\m@m@footnote@spacing}%
13673 \@nameuse{foottextfont#1}%
13674 \noindent\unhbox0\par}}

```



```

13675 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13676 \@namedef{@mppara@LTRfootgroup#1}{%
13677   \unvbox\@nameuse{@mpfootins#1}
13678   \@RTLfalse
13679   \m@mmakehboxofhboxes
13680   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13681   \def\baselinestretch{\m@m@footnote@spacing}%
13682   \@nameuse{foottextfont#1}%
13683   \noindent\unhbox0\par}}
13684 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13685 \@namedef{@para@footstart#1}{%
13686   \leftskip=\z@
13687   \rightskip=\z@
13688   \parindent=\z@
13689   }%
13690 }
13691 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13692   \xdef\@freelist{\@freelist\@midlist}%
13693   \global\let\@midlist\@empty
13694   \@combinefloats}
13695 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13696   \ifvbox\@kludgeins
13697     \@makespecialcolbox
13698   \else
13699     \setbox\@outputbox \vbox to\@colht{%
13700       \@texttop
13701       \dimen@ \dp\@outputbox
13702       \unvbox \@outputbox
13703       \vskip -\dimen@
13704       \@textbottom}%
13705   \fi}
13706 \bidi@ensure@newcommand*{\m@m@makecolintro}{%}
13707 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13708   \boxmaxdepth\@maxdepth
13709   \@tempdima\dp\@cclv
13710   \unvbox\@cclv
13711   \vskip-\@tempdima
13712   \bidi@mopfn@bottom
13713   \vskip \skip\footins
13714   \color@begingroup
13715     \normalcolor
13716     \footnoterule
13717     \unvbox \footins
13718   \color@endgroup
13719   }%
13720 }
13721 \newcommand*{\bidi@mopfootnotebf}{%
13722   \setbox\@outputbox \vbox{%
13723     \boxmaxdepth\@maxdepth
13724     \unvbox\@outputbox
13725     \bidi@mopfn@bottom
13726     \vskip\skip\footins
13727     \color@begingroup
13728     \normalcolor

```




```

13729 \footnoterule
13730 \unvbox \footins
13731 \color@endgroup
13732 }%
13733 }
13734 \gdef\mem@makecol{%
13735 \m@m@makecolintro
13736 \m@mdoextrafeet
13737 \ifvoid\footins
13738 \setbox\@outputbox \box\@cclv
13739 \else
13740 \m@mopfootnote
13741 \fi
13742 \m@m@makecolfloats
13743 \m@m@makecoltext
13744 \global \maxdepth \@maxdepth}
13745 \gdef\bidi@makecolbf{%
13746 \m@m@makecolintro
13747 \m@mdoextrafeet
13748 \setbox\@outputbox \box\@cclv
13749 \m@m@makecolfloats
13750 \ifvoid\footins
13751 \else
13752 \bidi@mopfootnotebf
13753 \fi
13754 \m@m@makecoltext
13755 \global \maxdepth \@maxdepth}
13756 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13757 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13758 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13759 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13760 \FeetAboveFloat
13761 \FeetBelowRagged
13762 \def\bidi@reinserts#1{\ifvoid#1\else
13763 \ifnum\count\@currbox>\z@
13764 \advance\@pageht \ht#1%
13765 \advance\@pageht \skip#1%
13766 \advance\@pageht \dp#1%
13767 \fi
13768 \insert#1{\unvbox#1}%
13769 \fi
13770 }
13771 \def\bidi@init@multi@footins#1{%
13772 \multiply\count#1\col@number
13773 \multiply\skip#1\col@number
13774 }
13775 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
13776 \insert#1{}\fi}
13777 \AtBeginDocument{%
13778 \bidi@preto\@doclearpage\m@mdoextrafeet
13779 \g@addto@macro\@reinserts{%
13780 \bidi@reinserts\footinsv@r
13781 \bidi@reinserts\footinsv@l
13782 }

```



```

13783 \bidi@floathook
13784 \g@addto@macro\@floatplacement{%
13785 \bidi@ifmulticol{}\bidi@floathook}%
13786 }%
13787 \if@bidi@csundef{multi@column@out}{%
13788 \@onlypreamble\bidi@init@multi@footins
13789 \let\bidi@ifmulticol\@secondoftwo
13790 }{%
13791 \bidi@preto\multi@column@out\m@mdoextrafeet
13792 \g@addto@macro\init@mult@footins{%
13793 \bidi@init@multi@footins\footinsv@r
13794 \bidi@init@multi@footins\footinsv@l
13795 }%
13796 \g@addto@macro\reinsert@footnotes{%
13797 \bidi@reinsert@footnotes\footinsv@r
13798 \bidi@reinsert@footnotes\footinsv@l
13799 }%
13800 }%
13801 }

```

87 File extreport-xetex-bidi.def

```

13802 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport clas
13803 \renewcommand*\l@part[2]{%
13804 \ifnum \c@tocdepth >-2\relax
13805 \addpenalty{-\@highpenalty}%
13806 \addvspace{2.25em \@plus\p@}%
13807 \begingroup
13808 \setlength\@tempdima{3em}%
13809 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13810 \parfillskip -\@pnumwidth
13811 {\leavevmode
13812 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13813 \nobreak
13814 \global\@nobreaktrue
13815 \everypar{\global\@nobreakfalse\everypar{}}%
13816 \endgroup
13817 \fi}
13818 \renewcommand*\l@chapter[2]{%
13819 \ifnum \c@tocdepth >\m@ne
13820 \addpenalty{-\@highpenalty}%
13821 \vskip 1.0em \@plus\p@
13822 \setlength\@tempdima{1.5em}%
13823 \begingroup
13824 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13825 \parfillskip -\@pnumwidth
13826 \leavevmode \bfseries
13827 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13828 \hskip -\if@RTL\rightskip\else\leftskip\fi
13829 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13830 \penalty\@highpenalty
13831 \endgroup
13832 \fi}
13833 \def\@makechapterhead#1{%

```



```

13834 \vspace*{50\p@}%
13835 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13836 \ifnum \c@secnumdepth >\m@ne
13837 \huge\bfseries \@chapapp\space \thechapter
13838 \par\nobreak
13839 \vskip 20\p@
13840 \fi
13841 \interlinepenalty\@M
13842 \Huge \bfseries #1\par\nobreak
13843 \vskip 40\p@
13844 }}
13845 \def\@makeschapterhead#1{%
13846 \vspace*{50\p@}%
13847 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13848 \normalfont
13849 \interlinepenalty\@M
13850 \Huge \bfseries #1\par\nobreak
13851 \vskip 40\p@
13852 }}
13853 \renewcommand\left@footnoterule{%
13854 \kern-3\p@
13855 \hrule\@width.4\columnwidth
13856 \kern2.6\p@}
13857 \renewcommand\right@footnoterule{%
13858 \kern-3\p@
13859 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13860 \kern2.6\p@}
13861 \renewenvironment{thebibliography}[1]
13862 {\chapter*{\bibname
13863 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13864 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13865 \bidi@thebibliography@font@hook%
13866 \list{\@biblabel{\@arabic\c@enumiv}}%
13867 {\settowidth\labelwidth{\@biblabel{#1}}%
13868 \leftmargin\labelwidth
13869 \advance\leftmargin\labelsep
13870 \@openbib@code
13871 \usecounter{enumiv}%
13872 \let\p@enumiv\@empty
13873 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13874 \sloppy\clubpenalty4000\widowpenalty4000%
13875 \sfcode\.\@m}
13876 {\def\@noitemerr
13877 {\@latex@warning{Empty `thebibliography' environment}}%
13878 \endlist}
13879 \if@titlepage
13880 \renewcommand\maketitle{\begin{titlepage}%
13881 \let\footnotesize\small
13882 \let\right@footnoterule\relax
13883 \let\left@footnoterule\relax
13884 \let\textwidth\footnoterule\relax
13885 \let \footnote \thanks
13886 \null\vfil
13887 \vskip 60\p@

```



```

13888 \begin{center}%
13889 {\LARGE \@title \par}%
13890 \vskip 3em%
13891 {\large
13892 \lineskip .75em%
13893 \begin{tabular}[t]{c}%
13894 \author
13895 \end{tabular}\par}%
13896 \vskip 1.5em%
13897 {\large \@date \par}% % Set date in \large size.
13898 \end{center}\par
13899 \@thanks
13900 \vfil\null
13901 \end{titlepage}%
13902 \setcounter{footnote}{0}%
13903 \global\let\thanks\relax
13904 \global\let\maketitle\relax
13905 \global\let\@thanks\@empty
13906 \global\let\@author\@empty
13907 \global\let\@date\@empty
13908 \global\let\@title\@empty
13909 \global\let\title\relax
13910 \global\let\author\relax
13911 \global\let\date\relax
13912 \global\let\and\relax
13913 }
13914 \else
13915 \renewcommand\maketitle{\par
13916 \begingroup
13917 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13918 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13919 \long\def\@makefntext##1{\parindent 1em\noindent
13920 \hb@xt@1.8em{%
13921 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13922 \if@twocolumn
13923 \ifnum \col@number=\@one
13924 \@maketitle
13925 \else
13926 \twocolumn[\@maketitle]%
13927 \fi
13928 \else
13929 \newpage
13930 \global\@topnum\z@ % Prevents figures from going at top of page.
13931 \@maketitle
13932 \fi
13933 \thispagestyle{plain}\@thanks
13934 \endgroup
13935 \setcounter{footnote}{0}%
13936 \global\let\thanks\relax
13937 \global\let\maketitle\relax
13938 \global\let\@maketitle\relax
13939 \global\let\@thanks\@empty
13940 \global\let\@author\@empty
13941 \global\let\@date\@empty

```



```

13942 \global\let\@title\@empty
13943 \global\let\title\relax
13944 \global\let\author\relax
13945 \global\let\date\relax
13946 \global\let\and\relax
13947 }
13948 \def\@maketitle{%
13949 \newpage
13950 \null
13951 \vskip 2em%
13952 \begin{center}%
13953 \let \footnote \thanks
13954 {\LARGE \@title \par}%
13955 \vskip 1.5em%
13956 {\large
13957 \lineskip .5em%
13958 \begin{tabular}[t]{c}%
13959 \@author
13960 \end{tabular}\par}%
13961 \vskip 1em%
13962 {\large \@date}%
13963 \end{center}%
13964 \par
13965 \vskip 1.5em}
13966 \fi
13967 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13968 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\csubsection}
13969 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
13970 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\cparagraph}
13971 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}
13972 \renewcommand\theequation{%
13973 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13974 \renewcommand\thefigure{%
13975 \ifnum \c@chapter>z@\thechapter\@SepMark\fi \@arabic\c@figure}
13976 \renewcommand\thetable{%
13977 \ifnum \c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

13978 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13979 \def\fancy@oval#1#2#3{%
13980 \boxmaxdepth \maxdimen
13981 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13982 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13983 \@ovxx#1\relax
13984 \advance\@ovxx-\@wholewidth
13985 \@ovyy#2\relax
13986 \advance\@ovyy-\@wholewidth
13987 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
13988 \advance\@tempdimb-2\p@
13989 \ifdim\@tempdimb>\the@cornersize\relax
13990 \@tempdimb=\the@cornersize
13991 \fi
13992 \@getcirc\@tempdimb

```



```

13993 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13994 \@ovdx\@ovxx \advance\ovdx-\@tempdima \divide\ovdx \tw@
13995 \@ovdy\@ovyy \advance\ovdy-\@tempdima \divide\ovdy \tw@
13996 \@circlefnt
13997 \setbox\@tempboxa\hbox{\beginL%
13998   \if@ovr \ovvert32\kern -\@tempdima \fi
13999   \if@ovl \kern \ovxx \ovvert01\kern -\@tempdima \kern -\ovxx \fi
14000   \if@ovt \ovhorz \kern -\ovxx \fi
14001   \if@ovb \raise \ovyy \ovhorz \fi\endL}%
14002 \advance\ovdx\ovro
14003 \advance\ovdy\ovro
14004 \advance\ovxx\@wholewidth
14005 \wd\@tempboxa=\ovxx
14006 \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

14007 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14008
14009 \let\f@nch@everypar\everypar
14010
14011 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14012 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14013

```

90 File fix2col-xetex-bidi.def

```

14014 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
14015 \def\RTL\outputdblcol{%
14016   \if@firstcolumn
14017     \global\@firstcolumnfalse
14018     \global\setbox\@leftcolumn\copy\@outputbox
14019     \splitmaxdepth\maxdimen
14020     \vbadness\maxdimen
14021     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14022     \toks@{\expandafter\topmark}%
14023     \xdef\@firstcoltopmark{\the\toks@}%
14024     \toks@{\expandafter\splitfirstmark}%
14025     \xdef\@firstcolfirstmark{\the\toks@}%
14026     \ifx\@firstcolfirstmark\@empty
14027       \global\let\@setmarks\relax
14028     \else
14029       \gdef\@setmarks{%
14030         \let\firstmark\@firstcolfirstmark
14031         \let\topmark\@firstcoltopmark}%
14032     \fi
14033   \else \global\@firstcolumntrue
14034     \setbox\@outputbox \vbox {\hbox to\textwidth {%
14035       \hskip \columnwidth
14036       \hfil \vrule width\columnseprule \hfil
14037       \hbox to\columnwidth {%
14038         \bidi@firstcolumn@status@write%
14039         \box\@leftcolumn \hss}%
14040       \hskip -\textwidth

```



```

14041 \hbox to\columnwidth{%
14042 \bidi@lastcolumn@status@write%
14043 \box\@outputbox \hss}%
14044 \hskip \columnsep
14045 \hskip \columnwidth }}%
14046 \@combinedblfloats \@setmarks \@outputpage
14047 \begingroup \@dblfloatplacement \@startdblcolumn
14048 \@whiles\if@fcolmade \fi
14049 {\@outputpage \@startdblcolumn }\endgroup
14050 \fi}
14051 \def\LTR@outputdblcol{%
14052   \if@firstcolumn
14053     \global\@firstcolumnfalse
14054     \global\setbox\@leftcolumn\copy\@outputbox
14055     \splitmaxdepth\maxdimen
14056     \vbadness\maxdimen
14057     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14058     \toks@\expandafter{\topmark}%
14059     \xdef\@firstcoltopmark{\the\toks@}%
14060     \toks@\expandafter{\splitfirstmark}%
14061     \xdef\@firstcolfirstmark{\the\toks@}%
14062     \ifx\@firstcolfirstmark\@empty
14063       \global\let\@setmarks\relax
14064     \else
14065       \gdef\@setmarks{%
14066         \let\firstmark\@firstcolfirstmark
14067         \let\topmark\@firstcoltopmark}%
14068     \fi
14069   \else
14070     \global\@firstcolumntrue
14071     \setbox\@outputbox\vbox{%
14072       \hb@xt@\textwidth{%
14073         \hb@xt@\columnwidth{%
14074           \bidi@firstcolumn@status@write%
14075           \box\@leftcolumn \hss}%
14076         \hfil
14077         \vrule \@width\columnseprule
14078         \hfil
14079         \hb@xt@\columnwidth{%
14080           \bidi@lastcolumn@status@write%
14081           \box\@outputbox \hss}}}%
14082   \@combinedblfloats
14083   \@setmarks
14084   \@outputpage
14085   \begingroup
14086   \@dblfloatplacement
14087   \@startdblcolumn
14088   \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
14089   \endgroup
14090   \fi}

```

91 File fleqn-xetex-bidi.def

```

14091 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]

```



```

14092 \DeclareRobustCommand\[{ \relax
14093         \ifmmode \@badmath
14094         \else
14095             \begin{trivlist}%
14096                 \@beginparpenalty\predisplaypenalty
14097                 \@endparpenalty\postdisplaypenalty
14098                 \item[] \leavevmode
14099                 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14100                 \hskip\mathindent\bgroup
14101             \fi}
14102 \DeclareRobustCommand\]{ \relax
14103         \ifmmode
14104             \egroup $\hfil% $
14105             \endL\egroup
14106             \end{trivlist}%
14107         \else \@badmath
14108         \fi}
14109 \renewenvironment{equation}%
14110     { \@beginparpenalty\predisplaypenalty
14111       \@endparpenalty\postdisplaypenalty
14112       \refstepcounter{equation}%
14113       \trivlist \item[] \leavevmode
14114       \hb@xt@\linewidth\bgroup \beginL $\m@th% $
14115       \displaystyle
14116       \hskip\mathindent}%
14117     { $\hfil % $
14118       \displaywidth\linewidth\hbox{\@eqnnum}%
14119       \endL\egroup
14120     \endtrivlist}

```

92 File float-xetex-bidi.def

```

14121 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for
14122 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
14123 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
14124 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14125 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
14126     \expandafter\edef\csname the#1\endcsname{%
14127         \expandafter\noexpand\csname
14128             the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
14129     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

93 File floatrow-xetex-bidi.def

```

14130 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow packag
14131 \RequirePackage{color}
14132 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
14133     \expandafter\edef\csname the\FB@captype\endcsname{%
14134         \expandafter\noexpand\csname
14135             the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}%

```

94 File flowfram-xetex-bidi.def

```

14136 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram packag

```




```

14137 \def\@outputdblcol{%
14138 \c@nextcol=\c@thisframe
14139 \c@curpg=\c@page
14140 \g@tnextcol{\c@nextcol}%
14141 \if@ff@nwpg % next flow frame starts on new page
14142 \global\@firstcolumntrue
14143 \setcolbox\c@thisframe
14144 \if@specialpage
14145 \global\@specialpagefalse
14146 \nameuse{ps@\@specialstyle}\relax
14147 \fi
14148 \if@twoside
14149 \ifodd\count\z@
14150 \let\@thehead\@oddhead
14151 \let\@thefoot\@oddfoot
14152 \else
14153 \let\@thehead\@evenhead
14154 \let\@thefoot\@evenfoot
14155 \fi
14156 \else
14157 \let\@thehead\@oddhead
14158 \let\@thefoot\@oddfoot
14159 \fi
14160 \@beginndvi
14161 \dodynamicthehead\@dynamicthefoot
14162 \vbadness=\@M
14163 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14164 \@combinedblfloats
14165 \@outputpage
14166 \advance\c@curpg by -\c@page\relax
14167 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14168 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14169 \@outputpage}
14170 \beginngroup
14171 \dblfloatplacement
14172 \startdblcolumn
14173 \@whilesw \if@colmade \fi
14174 {\@outputpage \startdblcolumn }\endgroup
14175 \resetst@tics
14176 \resetdyn@tics
14177 \else % still on same page, save contents of box255
14178 \global\@firstcolumnfalse
14179 \setcolbox\c@thisframe
14180 \fi
14181 \global\c@thisframe=\c@nextcol
14182 \setcol{\c@thisframe}\relax
14183 \global\colht\vsiz
14184 }
14185 \def\@outputpage{%
14186 \beginngroup
14187 \let\protect\noexpand
14188 \resetactivechars
14189 \global\let\@if@newlist\if@newlist
14190 \global\@newlistfalse\@parboxrestore

```



```

14191 \global\let\bidibeforeoutputpageshipout\@firstofone
14192 \bidibeforeoutputpageshipouthook
14193 \shipout\vbox{\set@typeset@protect
14194 \aftergroup
14195 \endgroup
14196 \aftergroup
14197 \set@typeset@protect
14198 \reset@font\normalsize
14199 \bidifont@@outputpage
14200 \normalsfcodes
14201 \let\label@gobble
14202 \let\index@gobble
14203 \let\glossary@gobble
14204 \baselineskip\z@skip
14205 \lineskip\z@skip
14206 \lineskiplimit\z@
14207 \vskip\topmargin\moveright\@themargin
14208 \vbox{%
14209 \global\let\bidibeforeheader\@firstofone
14210 \bidibeforeheaderhook
14211 \vskip\headheight
14212 \vskip\headsep
14213 \global\let\bidibeforeoutputboxoutputpage\@firstofone
14214 \bidibeforeoutputboxoutputpagehook
14215 \box\@outputbox
14216 \global\let\bidiafteroutputboxoutputpage\@firstofone
14217 \bidiafteroutputboxoutputpagehook
14218 }%
14219 \global\let\bidiafteroutputpageshipout\@firstofone
14220 \bidiafteroutputpageshipouthook
14221 \global\let\ifnewlist\@ifnewlist
14222 \stepcounter{page}%
14223 \setcounter{displayedframe}{0}%
14224 \let\firstmark\botmark
14225 \global\let\bidiatendoutputpage\@firstofone
14226 \bidiatendoutputpagehook
14227 }
14228
14229
14230 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
14231 \expandafter\bidicolor\ff@txtcol}}
14232
14233 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
14234 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
14235
14236
14237 \renewcommand*\@docolbox}[1]{%
14238 \edef\ff@frametype{%
14239 \csname @ff@frametype@\romannumeral#1\endcsname}%
14240 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
14241 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
14242 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
14243 \@ff@setoffset{#1}%
14244 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%

```



```

14245 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
14246 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14247 {\csname colheight\romannumeral#1\endcsname}{%
14248 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14249 \csname ff@frametype\endcsname}%
14250 }{%
14251 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14252 {\csname colheight\romannumeral#1\endcsname}{%
14253 \expandafter\box\csname column\romannumeral#1\endcsname}%
14254 }}}
14255 \IfClassLoadedT{book}{%
14256 \renewcommand\theequation
14257 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14258 \renewcommand \thefigure
14259 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14260 \renewcommand \thetable
14261 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14262 \renewcommand \thechapter {\@arabic\c@chapter}
14263 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14264 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14265 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14266 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14267 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14268 \IfClassLoadedT{report}{%
14269 \renewcommand\theequation
14270 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14271 \renewcommand \thefigure
14272 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14273 \renewcommand \thetable
14274 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14275 \renewcommand \thechapter {\@arabic\c@chapter}
14276 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14277 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14278 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14279 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14280 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14281 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
14282 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14283 \else
14284 #2\relax
14285 \fi}

```

95 File fnpct-xetex-bidi.def

```

14286 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for
14287 \ExplSyntaxOn
14288 \ifclassloaded{beamer}
14289 {
14290 \AdaptNote \footnote{d< >o+m} [\beamer@mpfn]
14291 {
14292 \IfNoValueTF{#1}
14293 {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE{#2}{#3}}}
14294 {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14295 }

```



```

14296 \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
14297 {
14298     \IfNoValueTF{#1}
14299     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14300     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14301 }
14302 \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
14303 {
14304     \IfNoValueTF{#1}
14305     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14306     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14307 }
14308 }
14309 {
14310     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
14311     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14312     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
14313     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14314 }
14315 \ExplSyntaxOff

```

96 File footnote-xetex-bidi.def

```

14316 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/26 v1.5 bidi footnote macros for XeTeX engine]
14317 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14318 \newif\ifbidi@autofootnoterule
14319 \def\bidi@mpfootnoterule{\footnoterule}
14320 \newcounter{footdir@label}
14321 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14322 \newcommand*{\footdir@write}{%
14323     \stepcounter{footdir@label}%
14324     \zref@labelbyprops{\thefootdir@label}{abspage}%
14325 }
14326 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14327 \newtoks\footdir@toks
14328 \newcommand*{\footdir@debug}[1]{%
14329     \iffootdir@debug
14330     \typeout{[footdir] #1}%
14331     \fi
14332 }
14333 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14334 % \newcommand*{\footdir@LeftRightElse}{%
14335 % \ltx@ifundefined{footdir@the\value{zabspage}}{%
14336 % \footdir@debug{abspage \the\value{zabspage}: else}%
14337 % \ltx@thirdofthree
14338 % }{%
14339 % \if\csname footdir@the\value{zabspage}\endcsname L%
14340 % \footdir@debug{abspage \the\value{zabspage}: left}%
14341 % \expandafter\ltx@firstofthree
14342 % \else
14343 % \footdir@debug{abspage \the\value{zabspage}: right}%
14344 % \expandafter\ltx@secondofthree
14345 % \fi
14346 % }%

```



```

14347 % }%
14348 %}{%
14349 \providecommand*{\c@zabspage}{\c@abspage}%
14350 \newcommand*{\footdir@LeftRightElse}{%
14351   \footdir@write
14352   \zifrefundefined{\thefootdir@label}{%
14353     \footdir@debug{abspage ??: else}%
14354     \ltx@thirdofthree
14355   }{%
14356     \edef\footdir@abspage{%
14357       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14358     }%
14359     \ltx@ifundefined{footdir@\footdir@abspage}{%
14360       \footdir@debug{\footdir@abspage: else}%
14361       \ltx@thirdofthree
14362     }{%
14363       \if\csname footdir@\footdir@abspage\endcsname L%
14364         \footdir@debug{\footdir@abspage: left}%
14365         \expandafter\ltx@firstofthree
14366       \else
14367         \footdir@debug{\footdir@abspage: right}%
14368         \expandafter\ltx@secondofthree
14369       \fi
14370     }%
14371   }%
14372 }%
14373 %}
14374 \newcommand*{\footdir@fntext}[1]{%
14375   \zifrefundefined{\thefootdir@label}{%
14376   }{%
14377     \edef\footdir@name{%
14378       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14379     }%
14380     \@ifundefined{\footdir@name}{%
14381       \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14382     }{}%
14383   }%
14384 }
14385
14386 \newcommand*{\footdir@temp}[3]{%
14387   \@ifdefinable{#1}{%
14388     \let#1#2%
14389     \renewcommand{#2}[1]{%
14390       \footdir@write
14391       \footdir@fntext{#3}%
14392       \stepcounter{footdir@label}%
14393       \footdir@fntext{#3}%
14394       \footdir@toks{##1}%
14395       \footdir@toks\expandafter{%
14396         \the\expandafter\footdir@toks
14397       \expandafter
14398       \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
14399     }%
14400     \expandafter#1\expandafter{\the\footdir@toks}%

```



```

14401     }%
14402   }%
14403 }
14404
14405 \def\right@footnoterule{%
14406   \kern-3\p@
14407   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14408   \kern2.6\p@}
14409 \def\right@mpfootnoterule{%
14410   \kern-3\p@
14411   \nointerlineskip
14412   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14413   \kern2.6\p@}
14414 \def\left@footnoterule{\kern-3\p@
14415   \hrule \@width .4\columnwidth \kern 2.6\p@}
14416 \def\textwidth@footnoterule{\kern-3\p@
14417   \hrule \@width \columnwidth \kern 2.6\p@}
14418 \def\leftfootnoterule{%
14419   \bidi@autofootnoterulefalse%
14420   \def\footnoterule{\left@footnoterule}%
14421   \def\bidi@mpfootnoterule{\left@footnoterule}%
14422 }
14423 \let\LRfootnoterule=\leftfootnoterule
14424 \def\rightfootnoterule{%
14425   \bidi@autofootnoterulefalse%
14426   \def\footnoterule{\right@footnoterule}%
14427   \def\bidi@mpfootnoterule{\right@mpfootnoterule}%
14428 }
14429 \def\textwidthfootnoterule{%
14430   \bidi@autofootnoterulefalse%
14431   \def\footnoterule{\textwidth@footnoterule}%
14432   \def\bidi@mpfootnoterule{\textwidth@footnoterule}%
14433 }
14434
14435
14436
14437 \def\auto@footnoterule{%
14438   \footdir@LeftRightElse%
14439   \left@footnoterule%
14440   \right@footnoterule%
14441   \left@footnoterule%
14442 }
14443
14444
14445
14446 \def\autofootnoterule{%
14447   \bidi@autofootnoteruletrue%
14448   \def\footnoterule{\auto@footnoterule}%
14449 }
14450
14451 \newcommand*{\SplitFootnoteRule}{%
14452   \gdef\split@prev{0}
14453   \let\pagefootnoterule\footnoterule
14454   \let\mpfootnoterule\footnoterule

```



```

14455 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14456 \def\footnoterule{\relax
14457   \ifx \@listdepth\@mplistdepth
14458     \mpfootnoterule
14459   \else
14460     \ifnum\split@prev=\z@
14461       \pagefootnoterule
14462     \else
14463       \splitfootnoterule
14464     \fi
14465     \xdef\split@prev{\the\insertpenalties}%
14466   \fi
14467 }%
14468 }
14469
14470
14471
14472
14473 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14474   \protected@xdef\@thefnmark{\thempfn}%
14475   \@footnotemark\@RTLfootnotetext}}
14476 \def\@xRTLfootnote[#1]{%
14477   \begingroup
14478     \csname c@\@mpfn\endcsname #1\relax
14479     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14480   \endgroup
14481   \@footnotemark\@RTLfootnotetext}
14482 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14483   \protected@xdef\@thefnmark{\thempfn}%
14484   \@footnotemark\@LTRfootnotetext}}
14485 \def\@xLTRfootnote[#1]{%
14486   \begingroup
14487     \csname c@\@mpfn\endcsname #1\relax
14488     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14489   \endgroup
14490   \@footnotemark\@LTRfootnotetext}
14491
14492
14493 \def\setfootnoteRL{\@RTL@footnotetrue}
14494 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14495 \def\setfootnoteLR{\unsetfootnoteRL}
14496
14497 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14498 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14499 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14500
14501 \long\def\@footnotetext#1{\insert\footins{%
14502   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14503   \reset@font%
14504   \bidi@footnotetext@font% \reset@font\footnotesize
14505   \interlinepenalty\interfootnotelinepenalty
14506   \splittopskip\footnotesep
14507   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14508   \hsize\columnwidth \@parboxrestore

```



```

14509 \protected@edef\@currentlabel{%
14510 \csname p@footnote\endcsname\@thefnmark
14511 }%
14512 \color@begingroup
14513 \makefnintext{%
14514 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14515 \color@endgroup}}%
14516
14517
14518 \long\def\@RTLfootnotetext#1{\insert\footins{%
14519 \RTLtrue%
14520 \reset@font%
14521 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14522 \interlinepenalty\interfootnotelinepenalty
14523 \splittopskip\footnotesep
14524 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14525 \hsize\columnwidth \@parboxrestore
14526 \protected@edef\@currentlabel{%
14527 \csname p@footnote\endcsname\@thefnmark
14528 }%
14529 \color@begingroup
14530 \makefnintext{%
14531 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14532 \color@endgroup}}%
14533
14534 \long\def\@LTRfootnotetext#1{\insert\footins{%
14535 \RTLfalse%
14536 \reset@font%
14537 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14538 \interlinepenalty\interfootnotelinepenalty
14539 \splittopskip\footnotesep
14540 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14541 \hsize\columnwidth \@parboxrestore
14542 \protected@edef\@currentlabel{%
14543 \csname p@footnote\endcsname\@thefnmark
14544 }%
14545 \color@begingroup
14546 \makefnintext{%
14547 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14548 \color@endgroup}}%
14549
14550 \AtBeginDocument{%
14551 \if@RTL@footnote
14552 \newcommand*{\bidi@footdir@footnote}{R}
14553 \else
14554 \newcommand*{\bidi@footdir@footnote}{L}
14555 \fi%
14556 }
14557
14558 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14559 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14560 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14561
14562 \long\def\@mpRTLfootnotetext#1{%

```




```

14563 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@mpf
14564 \global\setbox\@mpfootins\vbox{%
14565 \unvbox\@mpfootins
14566 \@RTLtrue
14567 \reset@font%
14568 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14569 \hsize\columnwidth
14570 \@parboxrestore
14571 \protected@edef\@currentlabel
14572 {\csname p@mpfootnote\endcsname\@thefnmark}%
14573 \color@begingroup
14574 \makefntext{%
14575 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14576 \color@endgroup}}
14577 \long\def\@mpLTRfootnotetext#1{%
14578 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footn
14579 \global\setbox\@mpfootins\vbox{%
14580 \unvbox\@mpfootins
14581 \@RTLfalse
14582 \reset@font%
14583 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14584 \hsize\columnwidth
14585 \@parboxrestore
14586 \protected@edef\@currentlabel
14587 {\csname p@mpfootnote\endcsname\@thefnmark}%
14588 \color@begingroup
14589 \makefntext{%
14590 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14591 \color@endgroup}}
14592 \long\def\@mpfootnotetext#1{%
14593 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnot
14594 \global\setbox\@mpfootins\vbox{%
14595 \unvbox\@mpfootins
14596 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14597 \reset@font%
14598 \bidi@footnotetext@font% \reset@font\footnotesize
14599 \hsize\columnwidth
14600 \@parboxrestore
14601 \protected@edef\@currentlabel
14602 {\csname p@mpfootnote\endcsname\@thefnmark}%
14603 \color@begingroup
14604 \makefntext{%
14605 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14606 \color@endgroup}}
14607 \def\@iiiminipage#1#2[#3]#4{%
14608 \leavevmode
14609 \@pboxswfalse
14610 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14611 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14612 \setlength\@tempdima{#4}%
14613 \def\@mpargs{{#1}{#2}[#3]{#4}}%
14614 \setbox\@tempboxa\vbox\bgroup
14615 \color@begingroup
14616 \hsize\@tempdima

```



```

14617      \textwidth\hsize \columnwidth\hsize
14618      \@parboxrestore
14619      \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14620      \let\@footnotetext\@mpfootnotetext
14621      \let\@LTRfootnotetext\@mpLTRfootnotetext
14622      \let\@RTLfootnotetext\@mpRTLfootnotetext
14623      \let\@listdepth\@mplistdepth \@mplistdepth\z@
14624      \@minipagerestore
14625      \@setminipage}
14626 \def\endminipage{%
14627   \par
14628   \unskip
14629   \ifvoid\@mpfootins\else
14630     \vskip\skip\@mpfootins
14631     \normalcolor
14632     \bidi@mpfootnoterule
14633     \unvbox\@mpfootins
14634   \fi
14635   \@minipagefalse   %% added 24 May 89
14636   \color@endgroup
14637   \egroup
14638   \expandafter\@iiparbox\@mpargs{\unvbox\@tempboxa}}
14639 \def\LTRthanks#1{\footnotemark
14640   \protected@xdef\@thanks{\@thanks
14641     \protect\LTRfootnotetext[\the\c@footnote]{#1}}}%
14642 }
14643 \def\LTRfootnotetext{%
14644   \@ifnextchar [\@xLTRfootnotenext
14645     {\protected@xdef\@thefnmark{\thempfn}%
14646     \@LTRfootnotetext}}
14647 \def\@xLTRfootnotenext[#1]{%
14648   \begingroup
14649     \csname c@\@mpfn\endcsname #1\relax
14650     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14651   \endgroup
14652   \@LTRfootnotetext}
14653 \def\RTLthanks#1{\footnotemark
14654   \protected@xdef\@thanks{\@thanks
14655     \protect\RTLfootnotetext[\the\c@footnote]{#1}}}%
14656 }
14657 \let\@thanks\@empty
14658 \def\RTLfootnotetext{%
14659   \@ifnextchar [\@xRTLfootnotenext
14660     {\protected@xdef\@thefnmark{\thempfn}%
14661     \@RTLfootnotetext}}
14662 \def\@xRTLfootnotenext[#1]{%
14663   \begingroup
14664     \csname c@\@mpfn\endcsname #1\relax
14665     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14666   \endgroup
14667   \@RTLfootnotetext}
14668 \leftfootnoterule

```



97 File footnotebackref-xetex-bidi.def

```

14669 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14670 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14671 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14672
14673 \renewcommand*\LTRfootnote{%
14674     \refstepcounter{BackrefHyperFootnoteCounter}%
14675     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14676     \label{\BackrefFootnoteTag}%
14677     \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14678
14679 \renewcommand*\RTLfootnote{%
14680     \refstepcounter{BackrefHyperFootnoteCounter}%
14681     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14682     \label{\BackrefFootnoteTag}%
14683     \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14684 \newcommand\Backref@HyperLTRFootnote[1]{%
14685     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14686
14687 \newcommand\Backref@HyperRTLFootnote[1]{%
14688     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14689
14690 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14691     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14692
14693 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14694     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14695
14696 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14697 \ifFootnoteBackref@numberlinked
14698 \renewcommand{\footfootmark}{%
14699     \ifdim\footmarkwidth < \z@
14700         \llap{\hb@xt@ -\footmarkwidth{%
14701             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14702             \hspace*{-\footmarkwidth}}}%
14703     \else
14704         \ifdim\footmarkwidth = \z@
14705             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14706         \else
14707             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14708         \fi
14709     \fi}
14710 \renewcommand{\LTRfootfootmark}{%
14711     \ifdim\footmarkwidth < \z@
14712         \llap{\hb@xt@ -\footmarkwidth{%
14713             \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14714             \hspace*{-\footmarkwidth}}}%
14715     \else
14716         \ifdim\footmarkwidth = \z@
14717             {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14718         \else
14719             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14720         \fi

```



```

14721 \fi}
14722 \renewcommand{\RTLfootfootmark}{%
14723 \ifdim\footmarkwidth < \z@
14724 \llap{\hb@xt@ -\footmarkwidth{%
14725 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14726 \hspace*{-\footmarkwidth}}}%
14727 \else
14728 \ifdim\footmarkwidth = \z@
14729 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14730 \else
14731 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14732 \fi
14733 \fi}
14734 \fi
14735 }

```

98 File framed-xetex-bidi.def

```

14736 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for XeTeX]
14737 \renewcommand\TitleBarFrame[3][\begingroup
14738 \ifx\delimiter#1\delimiter
14739 \let\TF@conlab\@empty
14740 \else
14741 \def\TF@conlab{% continuation label
14742 \nointerlineskip
14743 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
14744 \fi
14745 %\let\TF@savecolor\current@color
14746 \textcolor{TFFrameColor}{%
14747 \CustomFBox
14748 {\TF@Title{#2}}{\TF@conlab}%
14749 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
14750 %{\let\current@color\TF@savecolor\set@color #3}%
14751 {\normalcolor #3}%
14752 }\endgroup
14753 }
14754 \renewenvironment{titled-frame}[1]{%
14755 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
14756 \TitleBarFrame{\textbf{#1}}}%
14757 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
14758 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
14759 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
14760 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (cont)}}%
14761 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
14762 \TitleBarFrame{\textbf{#1} (cont)}}%
14763 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14764 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14765 % could interfere with the width measurement.
14766 {\endMakeFramed}
14767 \chardef\FrameRestore=\catcode`\| % for debug
14768 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14769 \def\fb@put@frame#1#2{\relax
14770 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
14771 | \message{===== Entering putframe =====}~J

```



```

14772 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
14773 \ifinner
14774 \fb@putboxa#1%
14775 \fb@afterframe
14776 \else
14777 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
14778 \ifdim\dimen@<2\baselineskip % Too little room on page
14779 | \message{Page has only \the\dimen@\space room left; eject. }%
14780 \eject \fb@adjheight \fb@put@frame#1#2%
14781 \else % there's appreciable room left on the page
14782 \fb@sizeofframe#1%
14783 | \message{\string\pagetotal=\the\pagetotal,
14784 | \string\pagegoal=\the\pagegoal,
14785 | \string\pagestretch=\the\pagestretch,
14786 | \string\pageshrink=\the\pageshrink,
14787 | \string\fb@frh=\the\fb@frh. \space}
14788 | \message{^^JBox of size \the\ht@tempboxa\space}%
14789 \begingroup % temporarily set \dimen@ to be...
14790 \advance\dimen@.8\pageshrink % maximum space available on page
14791 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14792 %% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14793 \expandafter\endgroup
14794 % expand \ifdim, then restore \dimen@ to real room left on page
14795 \ifdim\dimen@>\ht@tempboxa % whole box does fit
14796 | \message{fits in \the\dimen@. }%
14797 % ToDo: Change this to use vsplit anyway to capture the marks
14798 % MERGE THIS WITH THE else CLAUSE!!!
14799 \fb@putboxa#1%
14800 \fb@afterframe
14801 \else % box must be split
14802 | \message{must be split to fit in \the\dimen@. }%
14803 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14804 \fb@sizeofframe#2%
14805 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14806 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14807 \kern137sp\kern-137sp\penalty-30
14808 \unvbox\@tempboxa}%
14809 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14810 \splittopskip\the\splittopskip}%
14811 \boxmaxdepth\z@ \splittopskip\z@
14812 | \message{^^JPadded box of size \the\ht@tempboxa\space split to \the\dimen@}%
14813 % Split box here
14814 \setbox\@tw@vsplit\@tempboxa to\dimen@
14815 | \toks99\expandafter{\splitfirstmark}%
14816 | \toks98\expandafter{\splitbotmark}%
14817 | \message{Marks are: \the\toks99, \the\toks98. }%
14818 \setbox\@tw@\vbox{\unvbox\@tw@}% natural-sized
14819 | \message{Natural height of split box is \the\ht\@tw@, leaving
14820 | \the\ht@tempboxa\space remainder. }%
14821 % If the split-to size > (\vsize-\topskip), then set box to full size.
14822 \begingroup
14823 \advance\dimen@\topskip
14824 \expandafter\endgroup
14825 \ifdim\dimen@>\pagegoal

```



```

14826 |         \message{Frame is big -- Use up the full column. }%
14827         \dimen@ii\pagegoal
14828         \advance\dimen@ii -\topskip
14829         \advance\dimen@ii \FrameHeightAdjust\relax
14830     \else % suspect this is implemented incorrectly:
14831         % If the split-to size > feasible room_on_page, rebox it smaller.
14832         \advance\dimen@.8\pageshrink
14833         \ifdim\ht\tw@>\dimen@
14834 |             \message{Box too tall; rebox it to \the\dimen@. }%
14835             \dimen@ii\dimen@
14836         \else % use natural size
14837             \dimen@ii\ht\tw@
14838         \fi
14839     \fi
14840     % Re-box contents to desired size \dimen@ii
14841     \advance\dimen@ii -\fb@frh
14842     \setbox\tw@\vbox to\dimen@ii \bgroup
14843     % remove simulated frame and page flexibility:
14844     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14845     \unvbox\tw@ \unpenalty\unpenalty
14846     \ifdim\lastkern=-137sp % whole box went to next page
14847 |         \message{box split at beginning! }%
14848         % need work here???
14849         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14850         \fb@adjheight
14851         \fb@put@frame#1#2% INSERTED ???
14852     \else % Got material split off at the head
14853         \egroup \fb@resto@set
14854         \ifvoid\@tempboxa % it all fit after all
14855 |             \message{box split at end! }%
14856             \setbox\@tempboxa\box\tw@
14857             \fb@putboxa#1%
14858             \fb@afterframe
14859         \else % it really did split
14860 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14861             \ifdim\wd\tw@>\z@
14862                 \wd\tw@\wd\@tempboxa
14863                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14864             \else
14865 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
14866                 \box\tw@
14867             \fi
14868             \hrule \@height\z@ \@width\hsize
14869             \eject
14870             \fb@adjheight
14871             \fb@put@frame\LastFrameCommand\MidFrameCommand
14872         \fi\fi\fi\fi\fi
14873 }
14874 \def\fb@putboxa#1{%
14875     \ifvoid\@tempboxa
14876         \PackageWarning{framed}{Boxa is void -- discard it. }%
14877     \else
14878 |         \message{Frame and place boxa. }%
14879 |         %{\showoutput\showbox\@tempboxa}%

```



```

14880 \centerline{#1{\hboxL{\box\@tempboxa}}}%
14881 \fi
14882 }
14883 \catcode`\|=\FrameRestore
14884 \def\FrameRestore{%
14885 \let\if@nobreak\iffalse
14886 \let\if@noskipsec\iffalse
14887 \let\-\@dischyph
14888 \let'\@acci\let\` \@accii\let\= \@acciii
14889 % \message{FrameRestore:
14890 % \totalleftmargin=\the \totalleftmargin,
14891 % \rightmargin=\the\rightmargin,
14892 % \listdepth=\the\listdepth. }%
14893 % Test if we are in a list (or list-like paragraph)
14894 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
14895 \ifdim\rightmargin>\z@ 1\fi
14896 \ifnum\listdepth>\z@ 1\fi 0>\z@
14897 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
14898 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14899 % \labelwidth=\the\labelwidth. }%
14900 \@setminipage % snug fit around the item
14901 % Now try to propagate changes of width from \hsize to list parameters.
14902 % This is deficient, but a more advanced way to indicate modification to text
14903 % dimensions is not (yet) provided; in particular, no separate left/right
14904 % adjustment.
14905 \advance\linewidth-\columnwidth \advance\linewidth\hsize
14906 \parshape\@ne \totalleftmargin \linewidth
14907 \else % Not in list
14908 \linewidth=\hsize
14909 %\message{No list, set \string\linewidth=\the\hsize. }%
14910 \fi
14911 \sloppy
14912 }

```

99 File ftnright-xetex-bidi.def

```

14913 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14914
14915 \def\prepare@bidi@copyins{%
14916 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
14917 \global\skip\@bidi@copyins@\z@
14918 \global\count\@bidi@copyins@\z@
14919 \global\dimen\@bidi@copyins@\textheight}
14920
14921 \newskip\bidi@rcol@copyinsskip
14922
14923 \def\LTR@outputdblcol{%
14924 \if@firstcolumn
14925 \global\@firstcolumnfalse
14926 \global\setbox\@leftcolumn\copy\@outputbox
14927 \global\count\footins\@m
14928 \global\skip\footins\rcol@footinsskip
14929 \global\count\@bidi@copyins@\@m
14930 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

14931 \splitmaxdepth\maxdimen
14932 \vbadness\maxdimen
14933 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14934 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14935 \toks@\expandafter{\topmark}%
14936 \xdef\@firstcoltopmark{\the\toks@}%
14937 \toks@\expandafter{\splitfirstmark}%
14938 \xdef\@firstcolfirstmark{\the\toks@}%
14939 \ifx\@firstcolfirstmark\@empty
14940 \global\let\@setmarks\relax
14941 \else
14942 \gdef\@setmarks{%
14943 \let\firstmark\@firstcolfirstmark
14944 \let\topmark\@firstcoltopmark}%
14945 \fi
14946 \else
14947 \preparefootins
14948 \prepare@bidi@copyins
14949 \global\@firstcolumntrue
14950 \setbox\@outputbox\vbox{%
14951 \hb@xt@\textwidth{%
14952 \hb@xt@\columnwidth{%
14953 \bidi@firstcolumn@status@write%
14954 \box\@leftcolumn \hss}%
14955 \hfil
14956 {\normalcolor\vrule \@width\columnseprule}%
14957 \hfil
14958 \hb@xt@\columnwidth{%
14959 \bidi@lastcolumn@status@write%
14960 \box\@outputbox \hss}}}%
14961 \@combinedblfloats
14962 \@setmarks
14963 \@outputpage
14964 \begingroup
14965 \@dblfloatplacement
14966 \@startdblcolumn
14967 \@whilesw\if@fcolmade \fi{\@outputpage
14968 \@startdblcolumn}%
14969 \endgroup
14970 \fi}%
14971
14972 \def\RTL@outputdblcol{%
14973 \if@firstcolumn
14974 \global\@firstcolumnfalse
14975 \global\setbox\@leftcolumn\copy\@outputbox
14976 \global\count\footins\@m
14977 \global\skip\footins\rcol@footinsskip
14978 \global\count\@bidi@copyins\@m
14979 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14980 \splitmaxdepth\maxdimen
14981 \vbadness\maxdimen
14982 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14983 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14984 \toks@\expandafter{\topmark}%

```




```

14985 \xdef\@firstcoltopmark{\the\toks@}%
14986 \toks@\expandafter{\splitfirstmark}%
14987 \xdef\@firstcolfirstmark{\the\toks@}%
14988 \ifx\@firstcolfirstmark\@empty
14989 \global\let\@setmarks\relax
14990 \else
14991 \gdef\@setmarks{%
14992 \let\firstmark\@firstcolfirstmark
14993 \let\topmark\@firstcoltopmark}%
14994 \fi
14995 \else
14996 \preparefootins
14997 \prepare@bidi@copyins
14998 \global\@firstcolumntrue
14999 \setbox\@outputbox\vbox{%
15000 \hb@xt@\textwidth{%
15001 \hskip \columnwidth
15002 \hfil
15003 {\normalcolor\vrule \@width\columnseprule}%
15004 \hfil
15005 \hb@xt@\columnwidth{%
15006 \bidi@firstcolumn@status@write%
15007 \box\@leftcolumn \hss}%
15008 \hskip -\textwidth
15009 \hb@xt@\columnwidth{%
15010 \bidi@lastcolumn@status@write%
15011 \box\@outputbox \hss}%
15012 \hskip \columnsep
15013 \hskip \columnwidth }}%
15014 \@combinedblfloats
15015 \@setmarks
15016 \@outputpage
15017 \begin@group
15018 \@dblfloatplacement
15019 \@startdblcolumn
15020 \@whiles\if@colmade \fi{\@outputpage
15021 \@startdblcolumn}%
15022 \end@group
15023 \fi}%
15024
15025 \def\@startcolumn{%
15026 \ifx\@deferlist\@empty
15027 \global\@fcolmadefalse
15028 \global\@colroom\@colht
15029 \else
15030 \ifvoid\footins\else
15031 \ftn@amount\ht\footins
15032 \advance\ftn@amount\dp\footins
15033 \advance\ftn@amount\skip\footins
15034 \fi
15035 \ifvoid\@bidi@copyins\else
15036 \bidi@copyins@amount\ht\@bidi@copyins@
15037 \advance\bidi@copyins@amount\dp\@bidi@copyins@
15038 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

15039 \fi
15040 \global\advance\@colht-\ftn@amount
15041 \global\advance\@colht-\bidi@copyins@amount
15042 \global\@colroom\@colht
15043 \xstartcol
15044 \global\advance\@colht\ftn@amount
15045 \global\advance\@colroom\ftn@amount
15046 \global\advance\@colht\bidi@copyins@amount
15047 \global\advance\@colroom\bidi@copyins@amount
15048 \fi
15049 \if@fcolmade
15050 \setbox\@cclv\box\@outputbox
15051 \@makecol
15052 \else
15053 \ifvoid\footins\else
15054 \insert\footins{\unvbox\footins}\fi
15055 \ifvoid\@bidi@copyins@\else
15056 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
15057 \fi}
15058
15059 \newdimen\bidi@copyins@amount
15060
15061 \def\@makecol{\if@firstcolumn
15062 \setbox\@outputbox\box\@cclv
15063 \if@twocolumn \else
15064 \ifvoid\footins \else
15065 \latexerr{ftnright package
15066 used in one-column mode}%
15067 {The ftnright package was designed to
15068 work with LaTeX's standard^^Jtwocolumn
15069 option. It does *not* work with the
15070 multicol package.^^JSo please specify
15071 `twocolumn' in the
15072 \noexpand\documentclass command.}%
15073 \shipout\box\footins \fi
15074 \ifvoid\@bidi@copyins@ \else
15075 \latexerr{ftnright package
15076 used in one-column mode}%
15077 {The ftnright package was designed to
15078 work with LaTeX's standard^^Jtwocolumn
15079 option. It does *not* work with the
15080 multicol package.^^JSo please specify
15081 `twocolumn' in the
15082 \noexpand\documentclass command.}%
15083 \shipout\box\@bidi@copyins@ \fi\fi
15084 \ifnum\insertpenalties>\z@
15085 \latexerr{ftnright package
15086 scrambled footnotes}%
15087 {There is too much footnote material in
15088 the first column and ftnright^^Jis
15089 unable to cope with this.^^JYou need
15090 to reduce the amount to get a properly
15091 formatted page.}%
15092 \fi

```



```

15093 \else
15094 \ifvoid\footins
15095 \ifvoid\@bidi@copyins@
15096 \setbox\@outputbox\box\@cclv
15097 \else
15098 \setbox\@outputbox\vbox
15099 {\ifvoid\@cclv \else
15100 \unvbox\@cclv
15101 \vskip \skip\@bidi@copyins@
15102 \fi
15103 \color@begingroup
15104 \normalcolor
15105 \unvbox \@bidi@copyins@
15106 \color@endgroup}%
15107 \fi
15108 \else
15109 \setbox\@outputbox\vbox
15110 {\ifvoid\@cclv \else
15111 \unvbox\@cclv
15112 \vskip\skip\footins\fi
15113 \color@begingroup
15114 \normalcolor
15115 \footnoterule\unvbox\footins
15116 \color@endgroup
15117 \ifvoid\@bidi@copyins@
15118 \else
15119 \vskip \skip\@bidi@copyins@
15120 \color@begingroup
15121 \normalcolor
15122 \unvbox \@bidi@copyins@
15123 \color@endgroup
15124 \fi
15125 }%
15126 \fi
15127 \fi
15128 \xdef\@freelist{\@freelist\@midlist}%
15129 \global \let \@midlist \@empty
15130 \@combinefloats
15131 \ifvbox\@kludgeins
15132 \@makespecialcolbox
15133 \else
15134 \setbox\@outputbox\vbox to\@colht
15135 {\boxmaxdepth\maxdepth
15136 \@texttop
15137 \@tempdima\dp\@outputbox
15138 \unvbox\@outputbox
15139 \vskip-\@tempdima
15140 \@textbottom}%
15141 \fi
15142 \global\maxdepth\@maxdepth}
15143
15144 \let\leftfootnoterule\@empty
15145 \let\rightfootnoterule\@empty
15146 \let\textwidthfootnoterule\@empty

```



```

15147 \let\autofootnoterule\@empty
15148 \let\footnoterule\@empty
15149 \long\def\@makefntext#1{\parindent 1em
15150   \noindent\hbox to 2em{}}%
15151   \llap{\@thefnmark\hbox{.}\,\,\,}#1}
15152
15153 \setlength{\skip\@bidi@copyins}{
15154   {10pt plus 5pt minus 3pt}}
15155 \AtBeginDocument{\prepare\@bidi@copyins}

```

100 File graphicx-xetex-bidi.def

```

15156 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.15 bidi adaptations for graphicx package]
15157 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
15158   \Grot@setangle{#1}%
15159   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
15160   \Grot@x\z@
15161   \Grot@y\z@
15162   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
15163 \long\def\Grot@box@kv{#1}#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15164   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15165   \Grot@x\width \divide\Grot@x\tw@
15166   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15167   \setkeys{Grot}{#1}%
15168   \setbox\z@\box\@tempboxa
15169   \Grot@setangle{#2}%
15170   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15171   \@end@tempboxa}
15172 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15173   \leavevmode
15174   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15175   \setbox\z@\hbox{{#3}}%
15176   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15177   \ifdim#2<\p@<\z@
15178     \ht\tw@-#2\dp\z@
15179     \dp\tw@-#2\ht\z@
15180   \else
15181     \ht\tw@#2\ht\z@
15182     \dp\tw@#2\dp\z@
15183   \fi
15184   \ifdim#1<\p@<\z@
15185     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15186   \else
15187     \wd\tw@#1\wd\z@
15188     \box\tw@
15189   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15190 \def\Gin@iii[#1,#2][#3,#4]#5{%
15191   \begingroup
15192   \ifmmode\else\if@RTL\beginL\fi\fi
15193   \Gin@bboxtrue
15194   \Gin@defaultbp\Gin@llx{#1}%
15195   \Gin@defaultbp\Gin@lly{#2}%
15196   \Gin@defaultbp\Gin@urx{#3}%
15197   \Gin@defaultbp\Gin@ury{#4}%

```



```

15198 \Ginclud@graphics{#5}%
15199 \ifmmode\else\if@RTL\endL\fi\fi
15200 \endgroup}
15201 \def\Gin@ii[#1]#2{%
15202   \def\@tempa{[]}\def\@tempb{#2}%
15203   \ifx\@tempa\@tempb
15204     \def\@tempa{\Gin@iii[#1] []}%
15205     \expandafter\@tempa
15206   \else
15207     \begingroup
15208       \ifmmode\else\if@RTL\beginL\fi\fi
15209       \@tempswafalse
15210       \toks@{\Ginclud@graphics{#2}}%
15211       \setkeys{Gin}{#1}%
15212       \Gin@esetsize
15213       \the\toks@
15214       \ifmmode\else\if@RTL\endL\fi\fi
15215     \endgroup
15216   \fi}
15217 \def\reflectbox{\bidiGscale@box-1[1]}
15218 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15219   \leavevmode
15220   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15221   \setbox\z@ \hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15222   \setbox\tw@ \hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15223   \ifdim#2\p@<\z@
15224     \ht\tw@-#2\dp\z@
15225     \dp\tw@-#2\ht\z@
15226   \else
15227     \ht\tw@#2\ht\z@
15228     \dp\tw@#2\dp\z@
15229   \fi
15230   \ifdim#1\p@<\z@
15231     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15232   \else
15233     \wd\tw@#1\wd\z@
15234     \box\tw@
15235   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15236 \def\scalebox#1{%
15237   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
15238 \def\resizebox{%
15239   \leavevmode
15240   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15241 \def\bidiGscale@@box#1#2#3{%
15242   \let\@tempa\Gin@exclamation
15243   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15244   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15245   \ifx\@tempb\@tempa
15246     \ifx\@tempc\@tempa
15247       \toks@{\mbox}%
15248     \else
15249       \toks@{\bidiGscale@box@dd{#3}#1}%
15250     \fi
15251   \else

```



```

15252 \ifx\@tempc\@tempa
15253 \toks@{\bidiGscale@box@dd{#2}\width}%
15254 \else
15255 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
15256 \fi
15257 \fi
15258 \the\toks@}
15259 \long\def\bidiGscale@box@dd#1#2#3{%
15260 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi}%
15261 \setlength\@tempdima{#1}%
15262 \setlength\@tempdimb{#2}%
15263 \Gscale@div\@tempa\@tempdima\@tempdimb
15264 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15265 \end@tempboxa}
15266 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
15267 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}%
15268 \setlength\@tempdima{#1}%
15269 \setlength\@tempdimb{#2}%
15270 \Gscale@div\@tempa\@tempdima\@tempdimb
15271 \setlength\@tempdima{#3}%
15272 \setlength\@tempdimb{#4}%
15273 \Gscale@div\@tempb\@tempdima\@tempdimb
15274 \ifGin@iso
15275 \ifdim\@tempa\p@>\@tempb\p@
15276 \let\@tempa\@tempb
15277 \else
15278 \let\@tempb\@tempa
15279 \fi
15280 \fi
15281 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15282 \end@tempboxa}

```

101 File geometry-xetex-bidi.def

```

15283 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15284 \renewcommand*{\Gm@vrules@mpi}{%
15285 \if@RTLmain%
15286 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15287 \llap{\Gm@vrule}\ignorespaces
15288 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15289 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15290 \else%
15291 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15292 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15293 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15294 \renewcommand*{\Gm@vrules@mpii}{%
15295 \if@RTLmain%
15296 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15297 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15298 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15299 \else%
15300 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15301 \llap{\Gm@vrule}\ignorespaces
15302 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

15303 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15304 \bidi@patchcmd{\Gm@pageframes}{%
15305 \ifodd\count\z@
15306 \let\@themargin\oddsidemargin
15307 \else
15308 \let\@themargin\evensidemargin
15309 \fi
15310 }{%
15311 \ifodd\count\z@
15312 \if@RTLmain
15313 \let\@themargin\evensidemargin
15314 \else
15315 \let\@themargin\oddsidemargin
15316 \fi
15317 \else
15318 \if@RTLmain
15319 \let\@themargin\oddsidemargin
15320 \else
15321 \let\@themargin\evensidemargin
15322 \fi
15323 \fi
15324 }{}{}

```

102 File hgeneric-testphase-xetex-bidi.def

```

15325 \ProvidesFile{hgeneric-testphase-xetex-bidi.def}[2025/09/26 v0.3 bidi adaptations for gener
15326 \ExplSyntaxOn
15327 \bidi@undef\hyper@linkstart
15328 \bidi@undef\hyper@linkend
15329 \cs_new_protected:Npn \hyper@linkstart #1 #2 %#1 context, #2=destination name
15330 {
15331 \bool_if:NT \l__hyp_annot_GoTo_bool
15332 {
15333 \int_gincr:N\g__hyp_linknestlevel_int
15334 \__hyp_check_link_nesting:TF
15335 {
15336 \Hy@VerboseLinkStart{#1}{#2}% only for debug
15337 \group_begin:
15338 \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15339 \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{ }
15340 \hook_use:n {hyp/link/#1}
15341 \ifmmode\else\beginL\fi
15342 \__hyp_link_goto_begin:nw {#2}
15343 }
15344 {
15345 \group_begin:
15346 }
15347 }
15348 }
15349
15350 \cs_new_protected:Npn \hyper@linkend
15351 {
15352 \bool_if:NT \l__hyp_annot_GoTo_bool
15353 {

```



```

15354     \_hyp_check_link_nesting:TF
15355     {
15356         \_hyp_link_goto_end:
15357         \ifmmode\else\endL\fi
15358         \group_end:
15359         \Hy@VerboseLinkStop
15360     }
15361     {
15362         \group_end:
15363     }
15364     \int_gdecr:N\g__hyp_linknestlevel_int
15365 }
15366 }
15367 \AtBeginDocument{%
15368 \bidi@undef\hyper@link
15369 \bidi@undef\hyper@linkfile
15370 \bidi@undef\hyper@linkurl
15371 \bidi@undef\hyper@linknamed
15372 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15373 {
15374     \bool_if:NTF \l__hyp_annot_GoTo_bool
15375     {
15376         \int_gincr:N\g__hyp_linknestlevel_int
15377         \_hyp_check_link_nesting:TF
15378         {
15379             \Hy@VerboseLinkStart{#1}{#2}
15380             \group_begin:
15381             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15382             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15383             \hook_use:n {hyp/link/#1}
15384             \ifmmode\else\beginL\fi
15385             \_hyp_link_goto_begin:nw {#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\fi
15386             \_hyp_link_goto_end:
15387             \ifmmode\else\endL\fi
15388             \group_end:
15389             \Hy@VerboseLinkStop
15390         }
15391         {
15392             \group_begin: #3\group_end:
15393         }
15394         \int_gdecr:N\g__hyp_linknestlevel_int
15395     }
15396     {{\let\protect\relax#3}}
15397 }
15398 \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname
15399 {
15400     \bool_if:NTF \l__hyp_annot_GoToR_bool
15401     {
15402         \int_gincr:N\g__hyp_linknestlevel_int
15403         \_hyp_check_link_nesting:TF
15404         {
15405             \group_begin:
15406             \tl_set:Nn \l__hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15407             \exp_args:Nn

```




```

15408 \pdf_object_if_exist:nF { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15409 {
15410 \pdfdict_put:nne { l_pdffile/Filespec}{Subtype}{\pdf_name_from_unicode_e:
15411 \pdffile_embed_file:noe
15412 {}
15413 {\l__hyp_filename_tmpa_tl }
15414 {__hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15415 }
15416 \pdfdict_put:nne
15417 {l_hyp/annot/A/GoToR}
15418 {F}
15419 {\pdf_object_ref:e {__hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl}}
15420 \__hyp_text_pdfstring:nnN
15421 { #3 }
15422 { \l__hyp_text_enc_dest_print_tl }
15423 \l__hyp_dest_name_tmpa_tl
15424 \socket_use:nn{hyp/link/GoToR/Contents}{#2}
15425 \tl_if_blank:eTF {#3}
15426 {
15427 \pdfdict_put:nne {l_hyp/annot/A/GoToR}{D}
15428 {
15429 [
15430 \int_eval:n
15431 { \int_max:nn {0}{ 0\l__hyp_href_pdf_page_tl - 1 }}
15432 /\l__hyp_dest_pdfremotestartview_tl
15433 ]
15434 }
15435 }
15436 {
15437 \pdfdict_put:nno {l_hyp/annot/A/GoToR}{D}{\l__hyp_dest_name_tmpa_tl}
15438 }
15439 \mode_leave_vertical:
15440 \pdf_object_unnamed_write:ne{dict}{\pdfdict_use:n {l_hyp/annot/A/GoToR}}
15441 \pdfannot_dict_put:nne {link/GoToR}{A}{\pdf_object_ref_last:}
15442 \ifmmode\else\beginL\fi
15443 \pdfannot_link:nnn %expansion??
15444 { GoToR }
15445 {
15446 }
15447 {
15448 \let\protect\relax
15449 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace
15450 \Hy@VerboseLinkStop %where is the start??
15451 }
15452 \ifmmode\else\endL\fi
15453 \group_end:
15454 }
15455 {
15456 \group_begin: #1 \group_end:
15457 }
15458 \int_gdecr:N\g__hyp_linknestlevel_int
15459 }
15460 {{\let\protect\relax#1}}
15461 }

```



```

15462 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15463 {
15464   \bool_if:NTF \l__hyp_annot_URI_bool
15465   {
15466     \int_gincr:N\g__hyp_linknestlevel_int
15467     \__hyp_check_link_nesting:TF
15468     {
15469       \group_begin:
15470       \__hyp_text_pdfstring:eoN
15471       { #2}
15472       { \l__hyp_text_enc_uri_print_tl }
15473       \l__hyp_uri_tmpa_tl
15474       \pdfdict_put:nno{l_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15475       \bool_if:NT \l__hyp_href_url_ismap_bool
15476       {
15477         \pdfdict_put:nnn{l_hyp/annot/A/URI}{IsMap}{true}
15478       }
15479       \socket_use:nn{hyp/link/URI/Contents}{#2}
15480       \cs_set_eq:NN \# \c_hash_str
15481       \cs_set_eq:NN \% \c_percent_str
15482       \Hy@safe@activestrue
15483       \mode_leave_vertical:
15484       \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {l_hyp/annot/A/URI}>>}
15485       \ifmmode\else\beginL\fi
15486       \pdfannot_link:nen { URI }
15487       {
15488       }
15489       {
15490         \let\protect\relax
15491         \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi
15492         \Hy@xspace@end
15493         \Hy@VerboseLinkStop %where is the start??
15494       }
15495       \ifmmode\else\endL\fi
15496       \group_end:
15497     }
15498     {
15499       \group_begin: #1 \group_end:
15500     }
15501     \int_gdecr:N\g__hyp_linknestlevel_int
15502   }
15503   {{\let\protect\relax#1}}
15504 }
15505 \RenewDocumentCommand \Acrobatmenu { m m }
15506 {
15507   \hyper@linknamed {#1} {#2}
15508 }
15509 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15510 {
15511   \bool_if:NTF \l__hyp_annot_Named_bool
15512   {
15513     \int_gincr:N\g__hyp_linknestlevel_int
15514     \__hyp_check_link_nesting:TF
15515     {

```



```

15516         \group_begin:
15517         \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15518         {
15519             \mode_leave_vertical:
15520             \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15521             {\pdf_name_from_unicode_e:n{#1}}
15522             \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Name
15523             \ifmode\else\beginL\fi
15524             \pdfannot_link:nnn { Named }
15525             {
15526                 %           /A
15527                 %           <<
15528                 %           \pdfdict_use:n { l_hyp/annot/A/Named }
15529                 %           >>
15530             }
15531             {
15532                 \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi
15533                 \Hy@xspace@end
15534                 \Hy@VerboseLinkStop
15535             }
15536             \ifmode\else\endL\fi
15537         }
15538         {
15539             \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15540             #2
15541         }
15542         \group_end:
15543     }
15544     { \group_begin: #2 \group_end: }
15545     \int_gdecr:N\g__hyp_linknestlevel_int
15546 }
15547 {{\let\protect\relax#2}}
15548 }
15549 }
15550 \bidi@patchcmd\@TextField{%
15551     \pdfannot_box:nnnn
15552 }{%
15553     \if@RTL
15554         \hskip\Fld@width
15555     \fi
15556     \pdfannot_box:nnnn
15557 }{}{}
15558 \bidi@patchcmd\@TextField{%
15559     \MakeTextField{\Fld@width}{\Fld@height}
15560 }{%
15561     \if@RTL
15562         \hskip-\Fld@width
15563     \fi
15564     \MakeTextField{\Fld@width}{\Fld@height}
15565 }{}{}
15566 \ExplSyntaxOff

```

103 File hvfloat-xetex-bidi.def



```

15567 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package
15568 \def\do@hvFloat[#1]#2#3{%
15569   \def\hv@shortCap{#1}
15570   \def\hv@longCap{#2}
15571   \def\hv@label{#3}
15572   %\newcommand*{\hvFloat}[5][]{%
15573   % [#1]: keyvalues
15574   % #2: type figure | table | ...
15575   % #3: float contents
15576   % [#4]: short caption
15577   % #5: caption
15578   % #6: label
15579   % \setDefaults%
15580   % \def\@tempa{#1}%
15581   % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15582   \def\@tempa{90}%
15583   \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15584   \else \setlength{\hvMaxCapWidth}{\linewidth}
15585   \fi
15586   %
15587   % First we save the object in \hvObjectBox
15588   %
15589   \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15590     \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15591   \else
15592     \savebox{\hvObjectBox}{%
15593       \rotatebox{\hvSet@objectAngle}{%
15594         \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15595   \fi
15596   \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15597   %
15598   % Now we save the caption with its defined \hvCapWidth
15599   %
15600   \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15601   \else
15602     \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15603   \else
15604     \setlength{\hvCapWidth}{\hvObjectWidth}
15605     \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15606     \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15607     \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15608     \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15609     \else
15610     \setlength{\hvCapWidth}{\hvMaxCapWidth}
15611     \fi
15612   \fi
15613   \fi
15614   %
15615   % now we have the object and the caption with the right
15616   % rotated angles saved in boxes
15617   %
15618   \def\fps@figure{\hvSet@floatPos}
15619   \ifhv@nonFloat\begin{group}% Start the nonfloat part
15620   \else \begin{\hv@floatType}% Start the floating environment

```



```

15621 \fi%
15622 \saveCaptionSkip% we put this space ourselve
15623 \ifx\hvSet@capAngle\hv@Width % need rotation?
15624 \sbox{\hvCaptionBox}{%
15625     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15626     \ifhv@nonFloat%
15627     \ifhv@onlyText#2%
15628     \else%
15629     \ifx\hv@floatType\hv@figure
15630     \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15631     \else
15632     \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15633     \fi
15634     \fi
15635 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15636 \fi%
15637 \label{#3}%
15638 \end{minipage}%
15639 }%
15640 \else%
15641 \sbox{\hvCaptionBox}{%
15642     \rotatebox{\hvSet@capAngle}{%
15643     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15644 \ifhv@nonFloat%
15645     \ifhv@onlyText#2%
15646     \else%
15647     \ifx\hv@floatType\hv@figure
15648     \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15649     \else
15650     \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15651     \fi
15652     \fi
15653 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15654     \fi%
15655     \label{#3}%
15656     \end{minipage}%
15657     }%
15658     }%
15659 \fi%
15660 %%
15661 \restoreCaptionSkip% save old values
15662 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
15663 \else%
15664 \ifx\hvSet@objectPos\hv@Center
15665     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15666 \fi%
15667 \fi%
15668 %
15669 % to rotate object and caption together, we save all in another box
15670 % the caption comes first, if its on the left or the top
15671 %
15672 \savebox{\@tempboxa}{%
15673 \ifx\hvSet@capPos\hv@Left % caption on left side
15674 \if@RTL%

```



```

15675 \ifx\hvSet@capVPos\hv@Center%
15676     \ifhv@fbox
15677         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15678     \else
15679         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15680     \fi%
15681     \hspace{\hvSet@floatCapSep pt}%
15682     \ifhv@fbox
15683         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15684     \else
15685         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15686     \fi%
15687 \else%
15688 \ifx\hvSet@capVPos\hv@Top
15689     \ifhv@fbox
15690         \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15691     \else
15692         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15693     \fi%
15694     \hspace{\hvSet@floatCapSep pt}%
15695     \ifhv@fbox
15696         \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15697     \else
15698         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15699     \fi
15700 \else
15701     \ifhv@fbox
15702         \fbox{\usebox{\hvObjectBox}}%
15703     \else
15704         \usebox{\hvObjectBox}%
15705     \fi
15706     \hspace{\hvSet@floatCapSep pt}%
15707     \ifhv@fbox
15708         \fbox{\usebox{\hvCaptionBox}}%
15709     \else
15710         \usebox{\hvCaptionBox}%
15711     \fi%
15712 \fi%
15713 \fi%
15714 \else% not RTL
15715     \ifx\hvSet@capVPos\hv@Center%
15716         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15717     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15718     \fi%
15719     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15720     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15721 \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15722 \fi%
15723 \else%
15724 \ifx\hvSet@capVPos\hv@Top % caption at top
15725     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15726 \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15727 \fi
15728     \hspace{\hvSet@floatCapSep pt}% capfloatsep

```



```

15729 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15730 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15731 \fi%
15732 \else% caption on bottom
15733 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15734 \else\usebox{\hvCaptionBox}
15735 \fi%
15736 \hspace{\hvSet@floatCapSep pt}%
15737 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15738 \else \usebox{\hvObjectBox}
15739 \fi%
15740 \fi%
15741 \fi% end of RTL
15742 \fi%
15743 \else
15744 \ifx\hvSet@capPos\hv@Top
15745 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15746 \begin{minipage}{\wd\hvCaptionBox}
15747 \else
15748 \begin{minipage}{\wd\hvObjectBox}
15749 \fi
15750 \centering
15751 \ifhv@fbox
15752 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15753 \fbbox{\usebox{\hvObjectBox}}
15754 \else
15755 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15756 \usebox{\hvObjectBox}
15757 \fi%
15758 \end{minipage}
15759 \else
15760 \ifx\hvSet@capPos\hv@Bottom
15761 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15762 \begin{minipage}{\wd\hvCaptionBox}
15763 \else
15764 \begin{minipage}{\wd\hvObjectBox}
15765 \fi
15766 \centering
15767 \ifhv@fbox
15768 \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15769 \fbbox{\usebox{\hvCaptionBox}}
15770 \else
15771 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15772 \usebox{\hvCaptionBox}
15773 \fi%
15774 \end{minipage}
15775 \else% the last option: put the caption on the right
15776 \if@RTL%
15777 \ifx\hvSet@capVPos\hv@Center%
15778 \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15779 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15780 \fi%
15781 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15782 \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}

```



```

15783 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15784 \fi%
15785 \else%
15786 \ifx\hvSet@capVPos\hv@Top % caption at top
15787 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15788 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15789 \fi
15790 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15791 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15792 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15793 \fi%
15794 \else% caption on bottom
15795 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15796 \else\usebox{\hvCaptionBox}
15797 \fi%
15798 \hspace{\hvSet@floatCapSep pt}%
15799 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15800 \else \usebox{\hvObjectBox}
15801 \fi%
15802 \fi%
15803 \fi%
15804 \else% not RTL
15805 \ifx\hvSet@capVPos\hv@Center%
15806 \ifhv@fbox
15807 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15808 \else
15809 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15810 \fi%
15811 \hspace{\hvSet@floatCapSep pt}%
15812 \ifhv@fbox
15813 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15814 \else
15815 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15816 \fi%
15817 \else%
15818 \ifx\hvSet@capVPos\hv@Top
15819 \ifhv@fbox
15820 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15821 \else
15822 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15823 \fi%
15824 \hspace{\hvSet@floatCapSep pt}%
15825 \ifhv@fbox
15826 \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15827 \else
15828 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15829 \fi
15830 \else
15831 \ifhv@fbox
15832 \fbbox{\usebox{\hvObjectBox}}%
15833 \else
15834 \usebox{\hvObjectBox}%
15835 \fi
15836 \hspace{\hvSet@floatCapSep pt}%

```




```

15837         \ifhv@fbox
15838         \fbox{\usebox{\hvCaptionBox}}%
15839         \else
15840         \usebox{\hvCaptionBox}%
15841         \fi%
15842     \fi%
15843 \fi
15844 \fi% end of RTL
15845 \fi
15846 \fi
15847 \fi
15848 }% End savebox Object and caption
15849 %
15850 % now we rotate the object and caption, if needed
15851 %
15852 \ifx\hvSet@rotAngle\hv@Zero
15853 \usebox{\@tempboxa}
15854 \else
15855 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15856 \fi
15857 \ifhv@nonFloat
15858 \ifx\hvSet@objectPos\hv@Center
15859 \ifhv@nonFloat
15860 \hspace{\fill}
15861 \fi
15862 \fi
15863 \endgroup% End the nonfloat part
15864 \else
15865 \end{\hv@floatType}% End the floating environment
15866 \fi
15867 }

```

104 File hyperref-xetex-bidi.def

```

15868 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref packag
15869 \AtBeginDocument{%
15870 \def\contentsline#1#2#3#4{%
15871     \ifx\#4\%
15872     \csname l@#1\endcsname{#2}{#3}%
15873     \else
15874     \ifcase\Hy@linktoc % none
15875     \csname l@#1\endcsname{#2}{#3}%
15876     \or % section
15877     \csname l@#1\endcsname{%
15878     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15879     }{#3}%
15880     \or % page
15881     \csname l@#1\endcsname{{#2}}{%
15882     \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15883     }%
15884     \else % all
15885     \csname l@#1\endcsname{%
15886     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15887     }{%

```



```

15888         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15889     }%
15890     \fi
15891 \fi
15892 }
15893 \ifHy@hyperfootnotes
15894     \let\H@@footnotetext\@footnotetext
15895     \let\HRTL@RTLfootnotetext\RTLfootnotetext
15896     \let\HLTR@LTRfootnotetext\LTRfootnotetext
15897     \def\xfootnotenext[#1]{%
15898         \begingroup
15899             \csname c@\@mpfn\endcsname #1\relax
15900             \unrestored@protected@xdef\@thefnmark{\thempfn}%
15901         \endgroup
15902         \ifx\@footnotetext\@mpfootnotetext
15903             \expandafter\H@@mpfootnotetext
15904         \else
15905             \expandafter\H@@footnotetext
15906         \fi
15907     }%
15908     \def\xRTLfootnotenext[#1]{%
15909         \begingroup
15910             \csname c@\@mpfn\endcsname #1\relax
15911             \unrestored@protected@xdef\@thefnmark{\thempfn}%
15912         \endgroup
15913         \ifx\RTLfootnotetext\@mpRTLfootnotetext
15914             \expandafter\HRTL@mpRTLfootnotetext
15915         \else
15916             \expandafter\HRTL@RTLfootnotetext
15917         \fi
15918     }%
15919     \def\xLTRfootnotenext[#1]{%
15920         \begingroup
15921             \csname c@\@mpfn\endcsname #1\relax
15922             \unrestored@protected@xdef\@thefnmark{\thempfn}%
15923         \endgroup
15924         \ifx\LTRfootnotetext\@mpLTRfootnotetext
15925             \expandafter\HLTR@mpLTRfootnotetext
15926         \else
15927             \expandafter\HLTR@LTRfootnotetext
15928         \fi
15929     }%
15930     \def\xfootnotemark[#1]{%
15931         \begingroup
15932             \c@footnote #1\relax
15933             \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15934         \endgroup
15935         \H@@footnotemark
15936     }%
15937     \let\H@@mpfootnotetext\@mpfootnotetext
15938     \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
15939     \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
15940     \long\def\@mpfootnotetext#1{%
15941         \H@@mpfootnotetext{%

```



```

15942     \ifHy@nesting
15943       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15944     \else
15945       \Hy@raisedlink{%
15946         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15947       }#1%
15948     \fi
15949   }%
15950 }%
15951 \long\def\@mpRTLfootnotetext#1{%
15952   \HRTL@mpRTLfootnotetext{%
15953     \ifHy@nesting
15954       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15955     \else
15956       \Hy@raisedlink{%
15957         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15958       }#1%
15959     \fi
15960   }%
15961 }%
15962 \long\def\@mpLTRfootnotetext#1{%
15963   \HLTR@mpLTRfootnotetext{%
15964     \ifHy@nesting
15965       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15966     \else
15967       \Hy@raisedlink{%
15968         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15969       }#1%
15970     \fi
15971   }%
15972 }%
15973 \long\def\@footnotetext#1{%
15974   \H@footnotetext{%
15975     \ifHy@nesting
15976       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15977     \else
15978       \Hy@raisedlink{%
15979         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15980       }%
15981       \let\@currentHlabel\Hy@footnote@currentHlabel
15982       \let\@currentHref\Hy@footnote@currentHref
15983       \let\@currentlabelname\@empty
15984       #1%
15985     \fi
15986   }%
15987 }%
15988 \long\def\@RTLfootnotetext#1{%
15989   \HRTL@RTLfootnotetext{%
15990     \ifHy@nesting
15991       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15992     \else
15993       \Hy@raisedlink{%
15994         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15995       }%

```



```

15996         \let\@currentHlabel\Hy@footnote@currentHlabel
15997         \let\@currentHref\Hy@footnote@currentHref
15998         \let\@currentlabelname\@empty
15999         #1%
16000     \fi
16001 }%
16002 }%
16003 \long\def\@LTRfootnotetext#1{%
16004 \HLTR@@LTRfootnotetext{%
16005     \ifHy@nesting
16006         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16007     \else
16008         \Hy@raisedlink{%
16009             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16010         }%
16011         \let\@currentHlabel\Hy@footnote@currentHlabel
16012         \let\@currentHref\Hy@footnote@currentHref
16013         \let\@currentlabelname\@empty
16014         #1%
16015     \fi
16016 }%
16017 }%
16018 \ApplyPatchCodeToPackage{tabularx}{%
16019 \let\HyOrg@TX@endtabularx\TX@endtabularx
16020 \def\Hy@tabularx@hook{%
16021     \let\@footnotetext\H@@footnotetext
16022     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16023     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16024     \let\@footnotemark\H@@footnotemark
16025     \let\@mpfootnotetext\H@@mpfootnotetext
16026     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
16027     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
16028 }%
16029 \begingroup
16030     \toks@ \expandafter{\TX@endtabularx}%
16031     \xdef\Hy@gtemp{%
16032         \noexpand\Hy@tabularx@hook
16033         \the\toks@
16034     }%
16035 \endgroup
16036 \let\TX@endtabularx\Hy@gtemp
16037 }%
16038 \ApplyPatchCodeToPackage{longtable}{%
16039 \CheckCommand{\LT@p@LTRftntext}[1]{%
16040     \edef\@tempa{%
16041         \the\LT@p@ftn
16042         \noexpand\LTRfootnotetext[\the\c@footnote]%
16043     }%
16044     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16045 }%
16046 \long\def\LT@p@LTRftntext#1{%
16047     \edef\@tempa{%
16048         \the\LT@p@ftn
16049         \begingroup

```



```

16050         \noexpand\c@footnote=\the\c@footnote\relax
16051         \noexpand\protected@xdef\noexpand\@thefnmark{%
16052             \noexpand\thempfn
16053         }%
16054         \noexpand\Hy@LT@LTRfootnotetext{%
16055             \Hy@footnote@currentHref
16056         }%
16057     }%
16058     \global\LT@p@ftn\expandafter{%
16059         \@tempa{#1}%
16060     \endgroup
16061 }%
16062 }%
16063 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16064     \HLTR@@LTRfootnotetext{%
16065         \ifHy@nesting
16066             \hyper@@anchor{#1}{#2}%
16067         \else
16068             \Hy@raisedlink{%
16069                 \hyper@@anchor{#1}{\relax}%
16070             }%
16071             \def\@currentHref{#1}%
16072             \let\@currentlabelname\@empty
16073             #2%
16074         \fi
16075     }%
16076 }%
16077 \CheckCommand{\LT@p@RTLftntext}[1]{%
16078     \edef\@tempa{%
16079         \the\LT@p@ftn
16080         \noexpand\RTLfootnotetext[\the\c@footnote]%
16081     }%
16082     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16083 }%
16084 \long\def\LT@p@RTLftntext#1{%
16085     \edef\@tempa{%
16086         \the\LT@p@ftn
16087     \begingroup
16088         \noexpand\c@footnote=\the\c@footnote\relax
16089         \noexpand\protected@xdef\noexpand\@thefnmark{%
16090             \noexpand\thempfn
16091         }%
16092         \noexpand\Hy@LT@RTLfootnotetext{%
16093             \Hy@footnote@currentHref
16094         }%
16095     }%
16096     \global\LT@p@ftn\expandafter{%
16097         \@tempa{#1}%
16098     \endgroup
16099 }%
16100 }%
16101 \long\def\Hy@LT@RTLfootnotetext#1#2{%
16102     \HRTL@@RTLfootnotetext{%
16103         \ifHy@nesting

```



```

16104         \hyper@@anchor{#1}{#2}%
16105     \else
16106         \Hy@raisedlink{%
16107             \hyper@@anchor{#1}{\relax}%
16108         }%
16109         \def\@currentHref{#1}%
16110         \let\@currentlabelname\@empty
16111         #2%
16112     \fi
16113 }%
16114 }%
16115 }%
16116 \ApplyPatchCodeToPackage{bidipoem}{%
16117 \long\def\bidipoem@p@ftntext#1{%
16118     \edef\@temp#1{%
16119         \the\bidipoem@p@ftn
16120         \begingroup
16121             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16122             \noexpand\protected@xdef\noexpand\@thefnmark{%
16123                 \noexpand\thempfn
16124             }%
16125             \noexpand\Hy@bidipoem@footnotetext{%
16126                 \Hy@footnote@currentHref
16127             }%
16128         }%
16129         \global\bidipoem@p@ftn\expandafter{%
16130             \@temp#1}%
16131         \endgroup
16132     }%
16133 }%
16134 \long\def\Hy@bidipoem@footnotetext#1#2{%
16135     \H@@footnotetext{%
16136         \ifHy@nesting
16137             \hyper@@anchor{#1}{#2}%
16138         \else
16139             \Hy@raisedlink{%
16140                 \hyper@@anchor{#1}{\relax}%
16141             }%
16142             \def\@currentHref{#1}%
16143             \let\@currentlabelname\@empty
16144             #2%
16145         \fi
16146     }%
16147 }%
16148 \long\def\bidipoem@p@LTRftntext#1{%
16149 \edef\@tempxi{%
16150     \the\bidipoem@p@ftn
16151     \begingroup
16152         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16153         \noexpand\protected@xdef\noexpand\@thefnmark{%
16154             \noexpand\thempfn
16155         }%
16156         \noexpand\Hy@bidipoem@LTRfootnotetext{%
16157             \Hy@footnote@currentHref

```



```

16158     }%
16159   }%
16160   \global\bidipoem@p@ftn\expandafter{%
16161     \@tempxi{#1}%
16162   \endgroup
16163   }%
16164 }%
16165 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16166   \HLTR@@LTRfootnotetext{%
16167     \ifHy@nesting
16168       \hyper@@anchor{#1}{#2}%
16169     \else
16170       \Hy@raisedlink{%
16171         \hyper@@anchor{#1}{\relax}%
16172       }%
16173       \def\@currentHref{#1}%
16174       \let\@currentlabelname\@empty
16175       #2%
16176     \fi
16177   }%
16178 }%
16179   \long\def\bidipoem@p@RTLftntext#1{%
16180   \edef\@tempxi{%
16181     \the\bidipoem@p@ftn
16182   \begingroup
16183     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16184     \noexpand\protected@xdef\@tempxi{\noexpand\@thefnmark{%
16185       \noexpand\thempfn
16186     }%
16187     \noexpand\Hy@bidipoem@RTLfootnotetext{%
16188       \Hy@footnote@currentHref
16189     }%
16190   }%
16191   \global\bidipoem@p@ftn\expandafter{%
16192     \@tempxi{#1}%
16193   \endgroup
16194   }%
16195 }%
16196 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16197   \HRTL@@RTLfootnotetext{%
16198     \ifHy@nesting
16199       \hyper@@anchor{#1}{#2}%
16200     \else
16201       \Hy@raisedlink{%
16202         \hyper@@anchor{#1}{\relax}%
16203       }%
16204       \def\@currentHref{#1}%
16205       \let\@currentlabelname\@empty
16206       #2%
16207     \fi
16208   }%
16209 }%
16210 }%
16211 \let\HyOrg@maketitle\maketitle

```



```

16212 \def\maketitle{%
16213   \let\Hy@saved@footnotemark\@footnotemark
16214   \let\Hy@saved@footnotetext\@footnotetext
16215   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16216   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16217   \let\@footnotemark\H@@footnotemark
16218   \let\@footnotetext\H@@footnotetext
16219   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16220   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16221   \ifnextchar[\Hy@maketitle@optarg{% ]
16222     \HyOrg@maketitle
16223     \Hy@maketitle@end
16224   }%
16225 }%
16226 \def\Hy@maketitle@optarg[#1]{%
16227   \HyOrg@maketitle[#{#1}]%
16228   \Hy@maketitle@end
16229 }%
16230 \def\Hy@maketitle@end{%
16231   \ifx\@footnotemark\H@@footnotemark
16232     \let\@footnotemark\Hy@saved@footnotemark
16233   \fi
16234   \ifx\@footnotetext\H@@footnotetext
16235     \let\@footnotetext\Hy@saved@footnotetext
16236   \fi
16237   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
16238     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16239   \fi
16240   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
16241     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16242   \fi
16243 }%
16244 \def\realfootnote{%
16245   \ifnextchar[\@xfootnote{%
16246     \stepcounter{\@mpfn}%
16247     \protected@xdef\@thefnmark{\thempfn}%
16248     \H@@footnotemark\H@@footnotetext
16249   }%
16250 }%
16251 \fi
16252 \def\Hy@BeginAnnot#1{%
16253   \ifmmode\else\beginL\fi%
16254   \global\advance\c@Hy@AnnotLevel\@ne
16255   \ifnum\c@Hy@AnnotLevel=\@ne
16256     #1%
16257   \fi
16258 }
16259 \def\Hy@EndAnnot{%
16260   \ifnum\c@Hy@AnnotLevel=\@ne
16261     \Hy@endcolorlink
16262     \@pdfm@mark{eann}%
16263   \fi
16264   \global\advance\c@Hy@AnnotLevel\m@ne
16265   \ifmmode\else\endL\fi%

```




```

16266 }
16267 \def\hyper@link#1#2#3{%
16268   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
16269 }
16270 \def\hyper@linkfile#1#2#3{%
16271   \leavevmode
16272   \Hy@BeginAnnot{%
16273     \def\Hy@pstringF{#2}%
16274     \Hy@CleanupFile\Hy@pstringF
16275     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
16276     \Hy@pstringdef\Hy@pstringD{#3}%
16277     \Hy@MakeRemoteAction
16278     \@pdfm@mark{%
16279       bann<<%
16280         /Type/Annot%
16281         /Subtype/Link%
16282         \ifHy@pdfa /F 4\fi
16283         \Hy@setpdfborder
16284         \ifx\@filebordercolor\relax
16285           \else
16286             /C[\@filebordercolor]%
16287           \fi
16288         /A<<%
16289         /S/GoToR%
16290         /F(\Hy@pstringF)%
16291         /D%
16292         \ifx\#3\%
16293           [\Hy@href@page\@pdfremotestartview]%
16294         \else
16295           (\Hy@pstringD)%
16296         \fi
16297         \Hy@SetNewWindow
16298         \Hy@href@nextactionraw
16299       >>%
16300     >>%
16301   }%
16302   \Hy@colorlink\@filecolor
16303 }%
16304 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16305 \Hy@EndAnnot
16306 }
16307 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
16308   \leavevmode
16309   \Hy@BeginAnnot{%
16310     \Hy@pstringdef\Hy@pstringF{#1}%
16311     \Hy@pstringdef\Hy@pstringP{#3}%
16312     \@pdfm@mark{%
16313       bann<<%
16314         /Type/Annot%
16315         /Subtype/Link%
16316         \ifHy@pdfa /F 4\fi
16317         \Hy@setpdfborder
16318         \ifx\@runbordercolor\relax
16319           \else

```



```

16320         /C[\@runbordercolor]%
16321     \fi
16322     /A<<%
16323         /F(\Hy@pstringF)%
16324         /S/Launch%
16325         \Hy@SetNewWindow
16326         \ifx\#3\%
16327         \else
16328             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16329         \fi
16330         \Hy@href@nextactionraw
16331     >>%
16332 >>%
16333 }%
16334 \Hy@colorlink\@runcolor
16335 }%
16336 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16337 \Hy@endAnnot
16338 }
16339 \def\hyper@linkurl#1#2{%
16340     \leavevmode
16341     \Hy@BeginAnnot{%
16342         \Hy@pstringdef\Hy@pstringURI{#2}%
16343         \@pdfm@mark{%
16344             bann<<%
16345                 /Type/Annot%
16346                 /Subtype/Link%
16347                 \ifHy@pdfa /F 4\fi
16348                 \Hy@setpdfborder
16349                 \ifx\@urlbordercolor\relax
16350                 \else
16351                     /C[\@urlbordercolor]%
16352                 \fi
16353                 /A<<%
16354                 /S/URI%
16355                 /URI(\Hy@pstringURI)%
16356                 \ifHy@href@ismap
16357                     /IsMap true%
16358                 \fi
16359                 \Hy@href@nextactionraw
16360             >>%
16361             >>%
16362         }%
16363         \Hy@colorlink\@urlcolor
16364     }%
16365     \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16366     \Hy@endAnnot
16367 }
16368 \def\Acrobatmenu#1#2{%
16369     \Hy@Acrobatmenu{#1}{#2}{%
16370         \Hy@BeginAnnot{%
16371             \EdefEscapeName\Hy@temp@menu{#1}%
16372             \@pdfm@mark{%
16373                 bann<<%

```



```

16374      /Type/Annot%
16375      /Subtype/Link%
16376      \ifHy@pdfa /F 4\fi
16377      \Hy@setpdfborder
16378      \ifx\@menubordercolor\relax
16379      \else
16380      /C[\@menubordercolor]%
16381      \fi
16382      /A<<%
16383      /S/Named%
16384      /N/\Hy@temp@menu
16385      \Hy@href@nextactionraw
16386      >>%
16387      >>%
16388      }%
16389      \Hy@colorlink\@menucolor
16390      }%
16391      \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16392      \Hy@endAnnot
16393      }%
16394      }
16395      \def\hyper@natlinkstart#1{%
16396      \Hy@backout{#1}%
16397      \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16398      \def\hyper@nat@current{#1}%
16399      }
16400      \def\hyper@natlinkend{%
16401      \if@RTL\endR\fi\hyper@linkend
16402      }
16403      \def\hyper@natlinkbreak#1#2{%
16404      \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16405      }%
16406      }
16407      \pdfstringdefDisableCommands{%
16408      \let\LRE\@firstofone
16409      \let\LR\@firstofone
16410      \let\RLE\@firstofone
16411      \let\RL\@firstofone
16412      \def\XeTeX{Xe\TeX}%
16413      \def\XeLaTeX{Xe\LaTeX}%
16414      }
16415      \bidi@patchcmd\@TextField{%
16416      \@pdfm@mark
16417      }{%
16418      \if@RTL
16419      \hskip\Fld@width
16420      \fi
16421      \@pdfm@mark
16422      }{}{}
16423      \bidi@patchcmd\@TextField{%
16424      \unhbox
16425      }{%
16426      \if@RTL
16427      \hskip-\Fld@width

```



```

16428 \fi
16429 \unhbox
16430 }{}{}
16431 \bidi@patchcmd\@@Radio{%
16432 \@pdfm@mark
16433 }{%
16434 \if@RTL
16435 \hskip\Fld@width
16436 \fi
16437 \@pdfm@mark
16438 }{}{}
16439 \bidi@patchcmd\@@Radio{%
16440 \unhcopy
16441 }{%
16442 \if@RTL
16443 \hskip-\Fld@width
16444 \fi
16445 \unhcopy
16446 }{}{}
16447 \bidi@patchcmd\@Submit{%
16448 \@pdfm@mark
16449 }{%
16450 \if@RTL
16451 \null
16452 \hskip\wd\pdfm@box
16453 \fi
16454 \@pdfm@mark
16455 }{}{}
16456 \bidi@patchcmd\@Submit{%
16457 \unhbox
16458 }{%
16459 \if@RTL
16460 \hskip-\wd\pdfm@box
16461 \fi
16462 \unhbox
16463 }{}{}
16464 \bidi@patchcmd\@Reset{%
16465 \@pdfm@mark
16466 }{%
16467 \if@RTL
16468 \null
16469 \hskip\wd\pdfm@box
16470 \fi
16471 \@pdfm@mark
16472 }{}{}
16473 \bidi@patchcmd\@Reset{%
16474 \unhbox
16475 }{%
16476 \if@RTL
16477 \hskip-\wd\pdfm@box
16478 \fi
16479 \unhbox
16480 }{}{}

```



105 File imspdoc-xetex-bidi.def

```

16481 \ProvidesFile{imspdoc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspdoc class fo
16482 \newenvironment{thebibliography}[1]{%
16483   \@bibtitlestyle
16484   \normalfont\bibliofont\labelsep .5em\relax
16485   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
16486   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16487   \bidi@thebibliography@font@hook
16488   \list{\@biblabel{\theenumiv}}{\settoheight\labelwidth{\@biblabel{#1}}%
16489     \leftmargin\labelwidth \advance\leftmargin\labelsep
16490     \usecounter{enumiv}}}%
16491   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16492   \sfcode\.\=\@m
16493 }{%
16494   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16495   \endlist
16496 }
16497
16498 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16499   \columnseprule\z@ \columnsep 35\p@
16500   \@indextitlestyle
16501   \thispagestyle{plain}%
16502   \let\item\@idxitem
16503   \parindent\z@ \parskip\z@\@plus.3\p@\relax
16504   \if@RTL\raggedleft\else\raggedright\fi
16505   \hyphenpenalty\@M
16506   \footnotesize}
16507 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16508 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16509 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16510
16511 \def\right@footnoterule{%
16512   \kern-.4\p@
16513   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16514   \kern11\p@\kern-\footnotesep}
16515 \def\left@footnoterule{\kern-.4\p@
16516   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16517 \def\@makefnmark{%
16518   \leavevmode
16519   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
16520 }
16521
16522 \def\part{\@startsection{part}{0}%
16523   \z@\{\linespacing\@plus\linespacing\}{.5\linespacing}%
16524   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16525 \def\@tocline#1#2#3#4#5#6#7{\relax
16526   \ifnum #1>\c@tocdepth % then omit
16527   \else
16528     \par \addpenalty\@secpenalty\addvspace{#2}%
16529     \begingroup \hyphenpenalty\@M
16530     \@ifempty{#4}{%
16531       \tempdima\c@tocindent\number#1\endcsname\relax
16532     }{%

```



```

16533     \@tempdima#4\relax
16534 }%
16535 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
16536 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16537 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16538 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16539 \nobreak
16540 \endgroup
16541 \fi}
16542 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16543 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16544 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16545 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16546 \def\maketitle{\par
16547 \@topnum\z@ % this prevents figures from falling at the top of page 1
16548 \@setcopyright
16549 \thispagestyle{firstpage}% this sets first page specifications
16550 \uppercase\nonmath\shorttitle
16551 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16552 \else \andify\shortauthors
16553 \fi
16554 \@maketitle@hook
16555 \begingroup
16556 \@maketitle
16557 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
16558 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
16559 \edef\@tempa{%
16560     \@nx\markboth{\the\toks4
16561     \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16562 \@tempa
16563 \endgroup
16564 \c@footnote\z@
16565 \@cleartopmattertags
16566 }

```

106 File leqno-xetex-bidi.def

```

16567 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16568 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
16569 \rlap{\hskip -\displaywidth
16570 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR

```

107 File letter-xetex-bidi.def

```

16571 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter c
16572 \renewcommand*\@opening{[1]{\ifx\@empty\fromaddress
16573 \thispagestyle{firstpage}%
16574 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}}%
16575 \else % home address
16576 \thispagestyle{empty}%
16577 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}
16578 \fromaddress \*[2\parskip]%
16579 \@date \end{tabular}\par}%
16580 \fi

```



```

16581 \vspace{2\parskip}%
16582 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
16583 \vspace{2\parskip}%
16584 #1\par\nobreak}
16585 \renewcommand\left@footnoterule{%
16586 \kern-\p@
16587 \hrule \@width .4\columnwidth
16588 \kern .6\p@}
16589 \renewcommand\right@footnoterule{%
16590 \kern-\p@
16591 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16592 \kern .6\p@}

```

108 File lettrine-xetex-bidi.def

```

16593 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
16594 \RemoveFromHook{begindocument}[lettrine]
16595 \AtBeginDocument[lettrine]{%
16596 \if\DefaultOptionsFile\relax
16597 \else
16598 \InputIfFileExists{\DefaultOptionsFile}%
16599 {}%
16600 {\PackageWarning{lettrine.sty}%
16601 {File \DefaultOptionsFile\space not found}%
16602 }%
16603 \fi
16604 \let\ifL@RTL\if@RTL
16605 }

```

109 File lineno-xetex-bidi.def

```

16606 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package]
16607 \bidi@patchcmd{\MakeLineNo}{%
16608 \hb@xt@\z@{\makeLineNumber}%
16609 }{%
16610 \hboxL to \z@{\makeLineNumber}%
16611 }{-}{-}
16612
16613 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16614 \if@RTL
16615 \hb@xt@\linenumberwidth{\LineNumber\hss}%
16616 \else
16617 \LineNumber
16618 \fi
16619 }{-}{-}
16620
16621 \bidi@patchcmd{\makeLineNumberRight}{%
16622 \hb@xt@\linenumberwidth{\hss\LineNumber}%
16623 }{-}{-}
16624 \if@RTL
16625 \LineNumber
16626 \else
16627 \hb@xt@\linenumberwidth{\hss\LineNumber}%
16628 \fi

```



```

16629 }{}{}
16630
16631 \bidi@AfterPreamble{%
16632   \if@RTLmain
16633     \rightlinenumbers*
16634   \else
16635     \leftlinenumbers*
16636   \fi
16637   \@ifpackagewith{lineno}{left}{%
16638     \leftlinenumbers*
16639   }{}
16640   \@ifpackagewith{lineno}{right}{%
16641     \rightlinenumbers*
16642   }{}
16643   \@ifpackagewith{lineno}{switch}{%
16644     \if@RTLmain
16645       \switchlinenumbers*%
16646     \else
16647       \switchlinenumbers
16648     \fi
16649   }{}
16650   \@ifpackagewith{lineno}{switch*}{%
16651     \if@RTLmain
16652       \switchlinenumbers
16653     \else
16654       \switchlinenumbers*%
16655     \fi
16656   }{}
16657 }
16658

```

110 File listings-xetex-bidi.def

```

16659 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
16660 \lst@Key{captiondirection}{texdirection}{%
16661   \lstKV@SwitchCases{#1}%
16662   {texdirection:\\%
16663     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16664     LTR:\chardef\bidi@lst@caption@direction\z@%
16665   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16666
16667 \lst@Key{captionscript}{textscript}{%
16668   \lstKV@SwitchCases{#1}%
16669   {textscript:\\%
16670     latin:\chardef\bidi@lst@caption@script\@ne\\%
16671     nonlatin:\chardef\bidi@lst@caption@script\z@%
16672   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16673
16674 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16675   \@ifundefined{bidi@lst@caption@direction}{}{%
16676     \ifnum\bidi@lst@caption@direction=\z@%
16677       #1%
16678     \else%
16679       \ifnum\bidi@lst@caption@direction=\@ne%

```




```

16680             #2%
16681         \fi%
16682     \fi%
16683 }}
16684
16685 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
16686     \@ifundefined{bidi@lst@caption@script}{}{%
16687         \ifnum\bidi@lst@caption@script=z@%
16688             #1%
16689         \else%
16690             \ifnum\bidi@lst@caption@script=@ne%
16691                 #2%
16692             \fi%
16693         \fi%
16694 }}
16695
16696 \long\def\bidi@lst@makecaption#1#2{%
16697     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16698     \vskip\abovecaptionskip
16699     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16700     \sbox\@tempboxa{%
16701         \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16702         #1: #2%
16703         \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16704     }%
16705     \ifdim \wd\@tempboxa >\hsize
16706         #1: #2\par
16707     \else
16708         \global \@minipagefalse
16709         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16710     \fi
16711     \vskip\belowcaptionskip}%
16712 \def\lst@makecaption{\@bidi@lst@makecaption}
16713 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16714 \bidi@AtEndPreamble{%
16715 \bidi@patchcmd{\lst@MakeCaption}{%
16716     \ifx #1t%
16717         \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else
16718             \expandafter\refstepcounter
16719         \fi {lstlisting}}%
16720 }{%
16721     \ifx #1t%
16722         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16723         \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else
16724             \expandafter\refstepcounter
16725         \fi {lstlisting}}%
16726         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16727     }-}%
16728 \bidi@patchcmd{\lst@MakeCaption}{%
16729     \addcontentsline{lol}{lstlisting}%
16730     {\protect\numberline{\thelstlisting}\lst@caption}%
16731 }{%
16732 \begingroup%
16733     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%

```



```

16734             \addcontentsline{lol}{lstlisting}%
16735             {\protect\numberline{\thelstlisting}\lst@caption}%
16736 \endgroup%
16737 }-{}-%
16738 }
16739 \ApplyPatchIfPackageLoaded{caption}{%
16740   \AtBeginCaption{%
16741     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16742     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16743   }
16744   \let\@bidi@lst@makecaption\caption@makecaption%
16745   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16746   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16747 }-%
16748 \AtBeginDocument{%
16749   \ifundefined{captionlabelfalse}{}-%
16750   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16751   \ifundefined{captionstartrue}{}-%
16752   \def\lst@maketitle{\captionstartrue\@bidi@lst@makecaption\@empty}}%
16753 }-%
16754 }
16755 \AtBeginDocument{
16756   \ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16757   \lst@ifnumberbychapter
16758     \gdef\thelstlisting%
16759     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16760   \else
16761     \gdef\thelstlisting{\@arabic\c@lstlisting}
16762   \fi}

```

111 File longtable-xetex-bidi.def

```

16763 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable pack
16764 \ExplSyntaxOn
16765 \def\LT@array[#1]#2{%
16766   \UseTaggingSocket{tbl/init}
16767   \tl_if_empty:eTF { \LTcapttype }
16768     {
16769       \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16770     }
16771     {
16772       \@kernel@refstepcounter{\LTcapttype}\stepcounter{LT@tables}
16773       \tl_gset:Ne \@currentHref {\LTcapttype.\cs_if_exist_use:c {theH\LTcapttype}}
16774     }
16775   \tbl_gzero_row_count:
16776   \UseTaggingSocket{tbl/longtable/init}
16777   \if l#1%
16778     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16779   \else\if r#1%
16780     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16781   \else\if c#1%
16782     \LTleft\fill \LTright\fill
16783   \fi\fi\fi
16784   \let\LT@mcol\multicolumn

```



```

16785 \let\LT@tabarray\@tabarray
16786 \let\LT@hl\hline
16787 \def\@tabarray{%
16788   \let\hline\LT@hl
16789   \LT@tabarray}%
16790 \let\\LT@tabularcr
16791 \let\tabularnewline\\%
16792 \def\newpage{\noalign{\break}}%
16793 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16794 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
16795 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16796 \@tempdima\ht\strutbox
16797 \let\@endpbox\LT@endpbox
16798 \ifx\extrarowheight\@undefined
16799   \let\@acol\@tabacol
16800   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16801   \def\@startpbox{\vtop\LT@startpbox}%
16802   \let\@@startpbox\@startpbox
16803   \let\@@endpbox\@endpbox
16804   \let\LT@LL@FM@cr\@tabularcr
16805 \else
16806   \advance\@tempdima\extrarowheight
16807   \col@sep\tabcolsep
16808   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16809 \fi
16810 \setbox\@arstrutbox\hbox{\vrule
16811   \@height \arraystretch \@tempdima
16812   \@depth \arraystretch \dp \strutbox
16813   \@width \z@}%
16814 \let\@sharp##\let\protect\relax
16815 \begingroup
16816 \mkpream{#2}%
16817 \tbl_count_table_cols:
16818 \xdef\LT@bchunk{%
16819   \tbl_inbetween_rows:
16820   \global\advance\c@LT@chunks\@ne
16821   \global\LT@rows\z@\setbox\z@\vbox\bgroup
16822   \LT@setprevdepth
16823   \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16824   \tabskip\z@ \@arstrut
16825   \UseTaggingSocket{tbl/row/begin}%
16826   \tbl_init_cell_data_for_row:
16827   \@preamble \tabskip\LTRight \cr}%
16828 \endgroup
16829 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16830 \LT@make@row
16831 \m@th\let\par\@empty
16832 \everycr{%
16833   \noalign{%
16834     \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
16835       row:~ \the\g__tbl_row_int \space
16836       column:~ \the\g__tbl_col_int
16837     }
16838     \tbl_if_row_was_started:T

```



```

16839         {
16840             \UseTaggingSocket{tbl/row/end}
16841             \tbl_inbetween_rows:
16842         }
16843         \int_compare:nNt \LT@rows < \LTchunksize
16844         { \tbl_gincr_row_count: } % next is row about to start
16845     }%
16846 }%
16847 \lineskip\z@\baselineskip\z@
16848 \LT@bchunk}
16849 \ExplSyntaxOff
16850 \def\LT@makecaption#1#2#3{%
16851     \LT@mc@col\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16852         \reset@font
16853         \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16854         \ifdim\wd\@tempboxa>\hsize
16855             #1{#2: }#3%
16856         \else
16857             \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16858         \fi
16859         \endgraf\vskip\baselineskip}%
16860     \hss}}
16861 \ApplyPatchCodeToPackage{caption}{%
16862     \renewcommand\LT@makecaption[3]{%
16863         \caption@LT@make{%
16864             \caption@LT@settype\LTcaptype
16865             \caption@LT@setup
16866             \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16867             \caption@startrue#1\caption@starfalse
16868             \caption@prepare@stepcounter\LTcaptype
16869             \caption@begin\LTcaptype
16870             \caption@normalsize
16871             \vskip-\ht\strutbox
16872             \caption@ifdefined\FBifcapttop{%
16873                 \let\caption@belowskip\@empty}{}%
16874             \caption@make@above
16875             \caption@make{#2}{#3}\endgraf
16876             \caption@make@below
16877             \caption@end}}%
16878 }
16879 \def\LT@startpbox#1{%
16880     \bgroup
16881     \color@begingroup
16882     \let\@footnotetext\LT@p@ftntext
16883     \let\@LTRfootnotetext\LT@p@LTRftntext
16884     \let\@RTLfootnotetext\LT@p@RTLftntext
16885     \setlength\hsize{#1}%
16886     \@arrayparboxrestore
16887     \everypar{%
16888         \vrule \@height \ht\@arstrutbox \@width \z@
16889     }%
16890 }
16891 \long\def\LT@p@LTRftntext#1{%
16892     \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%

```



```

16893 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16894 \long\def\LT@p@RTLftntext#1{%
16895 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
16896 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16897 \def\LT@output{%
16898 \ifnum\outputpenalty <-\@Mi
16899 \ifnum\outputpenalty > -\LT@end@pen
16900 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16901 \else
16902 \setbox\z@\vbox{\unvbox\@cclv}%
16903 \ifdim \ht\LT@lastfoot>\ht\LT@foot
16904 \dimen@pagegoal
16905 \advance\dimen@\ht\LT@foot
16906 \advance\dimen@-\ht\LT@lastfoot
16907 \ifdim\dimen@<\ht\z@
16908 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16909 \@makecol
16910 \@outputpage
16911 \global\size\@colroom
16912 \setbox\z@\vbox{\box\LT@head}%
16913 \fi
16914 \fi
16915 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16916 \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16917 \UseTaggingSocket{tbl/longtable/foot}
16918 \if@RTLtab\egroup\endR\egroup\fi
16919 \fi
16920 \else
16921 \setbox\@cclv\vbox{%
16922 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16923 \unvbox\@cclv\copy\LT@foot\vss
16924 \if@RTLtab\egroup\endR\egroup\fi
16925 }%
16926 \UseTaggingSocket{tbl/longtable/foot}
16927 \@makecol
16928 \@outputpage
16929 \global\size\@colroom
16930 \copy\LT@head\nobreak
16931 \fi}

```

112 File lscape-xetex-bidi.def

```

16932 \ProvidesFile{lscape-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package fo
16933 \RequirePackage{graphicx}
16934 \bidi@patchcmd{\LS@rot}{\rotatebox{90}}{\box\@outputbox}}{%
16935 \if@RTL
16936 \rotatebox[origin=br]{-90}}{\box\@outputbox}%
16937 \else
16938 \rotatebox{90}}{\box\@outputbox}%
16939 \fi
16940 }{}{}
16941
16942 \g@addto@macro{\landscape}{%
16943 \if@bidi@csdef{bidi@columnwidth}{%

```



```

16944 \bidi@columnwidth\columnwidth
16945 }{}%
16946 \let\bidi@left@footnoterule\left@footnoterule
16947 \let\bidi@right@footnoterule\right@footnoterule
16948 \def\left@footnoterule{%
16949 \if@RTL
16950 \bidi@right@footnoterule
16951 \else
16952 \bidi@left@footnoterule
16953 \fi
16954 }%
16955 \def\right@footnoterule{%
16956 \if@RTL
16957 \bidi@left@footnoterule
16958 \else
16959 \bidi@right@footnoterule
16960 \fi
16961 }%
16962 }

```

113 File mathtools-xetex-bidi.def

```

16963 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packag
16964 \RequirePackage{graphicx}
16965 \MHInternalSyntaxOn
16966 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16967 \@namedef{MT_tagform_#1:n}##1
16968 {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
16969 }
16970 \renewtagform{default}{({})}
16971 \MHInternalSyntaxOff

```

114 File mdframed-xetex-bidi.def

```

16972 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed packag
16973 \newif\if@bidi@mdf@RTL
16974 \def\mdf@lrbox#1{%
16975 \mdf@patchamsthm\patch amsthm
16976 \if@RTL\@bidi@mdf@RTLtrue\fi%
16977 \@RTLfalse%
16978 \setbox#1\vbox\bgroup%
16979 \color@begingroup%
16980 \if@bidi@mdf@RTL\@RTLtrue\fi%
16981 \mdf@horizontalmargin@equation%
16982 \columnwidth=\hsize%
16983 \textwidth=\hsize%
16984 \let\if@nobreak\iffalse%
16985 \let\if@noskipsec\iffalse%
16986 \let\par\@par%
16987 \let\-\@dischph%
16988 \let'\@acci\let'\@accii\let\=\@acciii%
16989 \parindent\z@ \parskip\z@skip%
16990 \linewidth\hsize%
16991 \@totalleftmargin\z@%

```



```

16992 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16993 \parfillskip\@flushglue \lineskip\normallineskip%
16994 \baselineskip\normalbaselineskip%
16995 %% \sloppy%
16996 \let\\\@normalcr%
16997 \mdf@par@local%New feature to restore parskip/parindent local in save box
16998 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16999 \@afterindentfalse%
17000 %\@afterheading%
17001 }
17002 \renewrobustcmd\mdfframedtitleenv[1]{%
17003 \mdf@lrbox{\mdf@frametitlebox}%
17004 \mdf@frametitlealignment%
17005 \leavevmode{\color{\mdf@frametitlefontcolor}%
17006 \normalfont\mdf@frametitlefont{#1}
17007 \ifbool{mdf@ignorelastdescenders}%
17008 {%
17009 \par\strut\par
17010 \unskip\unskip\setbox0=\lastbox
17011 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
17012 }{}}%
17013 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
17014 \endmdf@lrbox\relax%
17015 \mdf@ignorevbadness%
17016 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
17017 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
17018 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
17019 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
17020 \mdfframetitleboxtotalheight=\dimexpr
17021 \ht\mdf@frametitlebox
17022 +\dp\mdf@frametitlebox%
17023 +\mdf@frametitleaboveskip@length
17024 +\mdf@frametitlebelowskip@length
17025 \relax%
17026 }
17027
17028 \renewrobustcmd*\mdf@footnoteoutput{%
17029 \ifvoid\@mpfootins\else%
17030 \nobreak%
17031 \vskip\mdf@footnotedistance@length%
17032 \normalcolor%
17033 \bidi@mpfootnoterule%
17034 \unvbox\@mpfootins%
17035 \fi%
17036 }
17037
17038
17039 \renewrobustcmd*\mdf@footnoteinput{%
17040 \def\@mpfn{mpfootnote}%
17041 \def\thempfn{\thempfootnote}%
17042 \c@mpfootnote\z@%
17043 \let\@footnotetext\@mpfootnotetext%
17044 \let\@LTRfootnotetext\@mpLTRfootnotetext%
17045 \let\@RTLfootnotetext\@mpRTLfootnotetext%

```



17046 }

115 File media9-xetex-bidi.def

17047 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
17048 \RequirePackage{bidi-media9}

116 File bidi-media9.sty

17049 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
17050 {bidi fixes for media9 package for the XeTeX engine}
17051
17052 \keys_define:nn{media9/mbtn}{
17053 draft .code:n = {},
17054 final .code:n = {},
17055
17056 tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
17057 tooltip .value_required:n = {true},
17058
17059 overface .code:n = {
17060 \sbox\l_mix_poster_box{
17061 \bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17062 \mix_pdfxform:n{\l_mix_poster_box}
17063 \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17064 },
17065 overface .value_required:n = {true},
17066
17067 downface .code:n = {
17068 \sbox\l_mix_poster_box{
17069 \bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17070 \mix_pdfxform:n{\l_mix_poster_box}
17071 \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17072 },
17073 downface .value_required:n = {true},
17074
17075 3Dgotoview .code:n = {
17076 \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17077 \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl
17078 \tl_trim_spaces:N\l_tmpa_tl
17079 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17080 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17081 \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17082 \regex_replace_once:nnN{[~:]+:??}{\1}\l_tmpb_tl
17083 \tl_trim_spaces:N\l_tmpb_tl
17084 \tl_if_blank:VF\l_tmpb_tl{
17085 \regex_match:nVTF{^[DFLNP]\$}\l_tmpb_tl{
17086 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl}
17087 }{
17088 \regex_match:nVTF{^~\d+\$}\l_tmpb_tl{
17089 \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl}
17090 }{
17091 \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
17092 \regex_replace_once:nnN{(\s*)\$}{\1}\l_tmpb_tl
17093 \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}




```

17094         }
17095     }
17096 }
17097 \mix_pdfobj:nnn{}{dict}{
17098     /S/JavaScript/JS~(
17099         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17100         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17101             annotRM['\l_tmpa_tl']=
17102                 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17103         }
17104         annotRM['\l_tmpa_tl'].activated=true;
17105     )
17106     \tl_if_blank:VF\l_tmpb_tl{
17107         /Next~<<
17108         /S/GoTo3DView
17109         /TA~\tl_use:c{ann@\l_tmpa_tl}
17110         /V\l_mix_vidx_tl
17111         >>
17112     }
17113 }
17114 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17115 }
17116 }{
17117     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17118     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17119         \tl_new:N\g_mix_refundefwarned_tl
17120         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17121     }
17122 }
17123 },
17124 3Dgotoview .value_required:n = {true},
17125
17126 mediacommand .code:n = {
17127     \tl_set:Nx\l_tmpa_tl{#1}
17128     \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl %extract ref
17129     \tl_trim_spaces:N\l_tmpa_tl
17130     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17131         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17132             \tl_set:Nx\l_tmpb_tl{#1}
17133             \regex_replace_once:nnN{[~:~]+\~:~}{\1}\l_tmpb_tl
17134             \tl_trim_spaces:N\l_tmpb_tl
17135             \regex_replace_all:nnN{^{\1}\$}{\1}\l_tmpb_tl
17136             \tl_set:Nx\l_mix_cmd_tl{
17137                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17138             \tl_trim_spaces:N\l_mix_cmd_tl
17139             \tl_set:Nx\l_mix_arg_tl{
17140                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17141             \tl_trim_spaces:N\l_mix_arg_tl
17142             \mix_pdfobj:nnn{}{dict}{
17143                 /S/JavaScript/JS~(
17144                     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17145                     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17146                         annotRM['\l_tmpa_tl']=
17147                             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');

```



```

17148     }
17149     annotRM['\l_tmpa_tl'].activated=true;
17150 )
17151 \tl_if_blank:VF\l_mix_cmd_tl{
17152     /Next~<<
17153     /S/RichMediaExecute
17154     /TA~\tl_use:c{ann@\l_tmpa_tl}
17155     /TI~\tl_use:c{main@\l_tmpa_tl}
17156     /CMD~<<
17157     /C~(\l_mix_cmd_tl)
17158     \tl_if_blank:VF\l_mix_arg_tl{
17159         /A~[\l_mix_arg_tl]
17160     }
17161     >>
17162 >>
17163 }
17164 }
17165 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17166 }
17167 }{
17168     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17169     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17170         \tl_new:N\g_mix_refundefwarned_tl
17171         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17172     }
17173 }
17174 },
17175 mediacommand .value_required:n = {true},
17176
17177 jsaction .code:n = {
17178     \tl_set:Nx\l_tmpa_tl{#1}
17179     \regex_match:nVTF{^[^\:]+\:.*$}\l_tmpa_tl{
17180         \regex_replace_once:nnN{([^\:]+\:)?.*$}\l_tmpa_tl %extract ref
17181         \tl_trim_spaces:N\l_tmpa_tl
17182     }{\tl_clear:N\l_tmpa_tl}
17183     \tl_set:Nx\l_tmpb_tl{#1}
17184     \tl_if_blank:VF\l_tmpa_tl{
17185         \tl_if_exist:cF{ann@\l_tmpa_tl}{
17186             \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17187             \cs_if_exist:NF\g_mix_refundefwarned_tl{
17188                 \tl_new:N\g_mix_refundefwarned_tl
17189                 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17190             }
17191         }
17192         \regex_replace_once:nnN{[^\:]+\:.*$}\l_tmpb_tl
17193     }
17194     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17195     \tl_trim_spaces:N\l_tmpb_tl
17196     \tl_if_blank:VF\l_tmpb_tl{
17197         \mix_pdfobj:nnn{}{dict}{
17198             /S/JavaScript/JS~(
17199                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
17200     \bool_lazy_and:nnT{
17201         \tl_if_exist_p:c{ann@\l_tmpa_tl}

```



```

17202   }{
17203     !\str_if_eq_p:ee{\tl_use:c{ann@l_tmpa_tl}}{draft}
17204   }{
17205     \mix_pdfobj:nnn{}{dict}{
17206       /S/JavaScript/JS~(
17207         if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17208         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17209           annotRM['\l_tmpa_tl']=
17210             this.getAnnotRichMedia(\tl_use:c{page@l_tmpa_tl},'\l_tmpa_tl');
17211         }
17212         annotRM['\l_tmpa_tl'].activated=true;
17213       )
17214       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17215     }
17216   }
17217   \bool_if:nT{
17218     \bool_lazy_and_p:nn{
17219       \tl_if_exist_p:c{ann@l_tmpa_tl}
17220     }{
17221       !\str_if_eq_p:ee{\tl_use:c{ann@l_tmpa_tl}}{draft}
17222     }
17223     || !\tl_if_blank_p:V\l_tmpb_tl
17224   }{
17225     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17226   }
17227 },
17228 jsaction .value_required:n = {true},
17229
17230 unknown .code:n = {
17231   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17232 }
17233 }
17234
17235 \RenewDocumentCommand\includemedia{0{}mm}{%#1 options, #2 text/image #3 media file
17236   \mix_urienid:
17237   \group_begin:
17238   \mix_beginLTR:
17239   \mode_leave_vertical:
17240   %empty stream as appearance dummy
17241   \cs_if_exist:NF\g_mix_appearance_tl{
17242     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17243     \mix_pdfxform:n{\l_mix_poster_box}
17244     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17245   }
17246   \mix_reset:
17247   \mix_uribegin: %treat URI characters correctly
17248   \keys_set:nn{media9/user}{#1}
17249   \mix_urienid:
17250   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17251   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17252   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17253   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17254   \tl_gtrim_spaces:N\g_mix_flashvars_tl
17255

```



```

17256 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17257
17258 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17259 %\hbox_set:Nn\l_mix_poster_box{#2}
17260 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17261 \mix_scale:n{\l_mix_poster_box}
17262 \bool_if:nT{
17263   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17264   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17265 }{
17266   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17267 }
17268 \bool_if:NTF\g_mix_usrdraft_bool{
17269   \tl_if_empty:NF\g_mix_usrlabel_tl{
17270     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17271   }
17272   \tl_if_blank:oTF{#2}{
17273     \mix_uribegin: %treat URI characters correctly
17274     \mix_draftbox:n{\tl_to_str:n{#3}}
17275     \mix_uriend:
17276   }{
17277     \hbox_to_wd:nn{\g_mix_wd_tl}{
17278       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17279       \box_use:N\l_mix_poster_box\hss
17280     }
17281   }
17282 }{
17283   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17284     %attach script that switches off play button overlay upon activation
17285     \mix_pdfobj:nnn{}{stream}{
17286       {}{
17287         var~ocgs=host.getOCGs(host.pageNum);
17288         for(var~i=0;i<ocgs.length;i++){
17289           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17290             ocgs[i].state=false;
17291           }
17292         }
17293       }
17294     }
17295     \mix_pdfobj:nnn{}{dict}{
17296       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17297     }
17298     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17299     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17300     %enforce plain playbutton overlay for XeTeX
17301     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17302   }
17303   %embed main asset
17304   \mix_uribegin:
17305   \mix_embedasset:n{#3}
17306   \bool_if:nTF{
17307     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17308   }{
17309     \bool_gset_true:N\g_mix_iiid_bool

```



```

17310     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17311   }{
17312     \str_case_e:nnF{\l_mix_base_tl}{
17313       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17314       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17315       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17316       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17317       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17318     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17319   }
17320   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17321   \mix_uriend:
17322   %secondary assets (added by addresource)
17323   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17324   \seq_map_inline:Nn\g_mix_script_seq{
17325     \mix_embedasset:n{##1}
17326     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17327   }
17328   %attach 3D calculation script
17329   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17330     \mix_embedasset:n{3Dmenu.js}
17331     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17332   }
17333   %create 3D views from file (option 3Dviews)
17334   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17335     \tl_set:Nn\l_mix_level_tl{-1}
17336     \int_zero:N\l_mix_viewcnt_int
17337     \int_zero:N\l_mix_lineno_int
17338
17339     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17340     \ior_map_inline:Nn\l_mix_vfile_stream{
17341       \int_incr:N\l_mix_lineno_int
17342       \keys_set:nn{media9/views}{##1} %process input line
17343     }
17344     \ior_close:N\l_mix_vfile_stream
17345   }
17346   \bool_if:nT{ %create default 3D view if required
17347     \g_mix_iiid_bool &&
17348     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17349   }{
17350     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17351     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17352     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17353     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17354     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17355     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17356     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17357
17358     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17359     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17360     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17361     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17362
17363     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool

```



```

17364 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17365 \tl_clear:N\l_mix_naarray_tl
17366
17367 \bool_if:NF\l_mix_ciiw_bool{
17368   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17369   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17370 }
17371
17372 \tl_clear:N\l_mix_naarray_tl
17373 \tl_clear:N\l_mix_saarray_tl
17374 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17375
17376 \mix_view:n{Default}
17377 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17378
17379 }
17380 \mix_pdfobj:nnn{}{dict}{
17381   /Type/RichMediaInstance
17382   /Subtype/\g_mix_mainassetsub_tl
17383   /Asset~\g_mix_mainasset_tl
17384   \bool_if:NF\g_mix_iiid_bool{
17385     /Params~<<
17386     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17387       /Foreground
17388     }{
17389       /Background
17390     }
17391     \tl_if_blank:VF\g_mix_flashvars_tl{
17392       /FlashVars~(\g_mix_flashvars_tl)
17393     }
17394     >>
17395   }
17396 }
17397 \tl_if_empty:NF\g_mix_usrlabel_tl{
17398   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17399 }
17400 \mix_pdfobj:nnn{}{dict}{
17401   /Type/RichMediaConfiguration
17402   /Subtype/\g_mix_mainassetsub_tl
17403   /Instances~[\mix_pdflastobj:]
17404 }
17405 \mix_pdfobj:nnn{}{dict}{
17406   /Type/RichMediaContent
17407   /Assets~<</Names~[\g_mix_assets_tl]>>
17408   /Configurations~[\mix_pdflastobj:]
17409   \bool_if:nT{
17410     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17411   }{
17412     /Views~[\l_mix_iiidviewarray_tl]
17413   }
17414 }
17415 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17416 \bool_if:nT{
17417   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}

```



```

17418 }{
17419   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17420 }
17421 %determine floating window size
17422 \bool_if:NT\g_mix_opt_windowed_bool{
17423   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17424 }
17425 \mix_pdfobj:nnn{}{dict}{
17426   /Activation~<<
17427   /Condition\g_mix_act_tl
17428   \bool_if:nT{
17429     \g_mix_iiid_bool &&
17430     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17431   }{%seems to work only with 3D content
17432     /Animation~<<
17433     /Subtype\g_mix_playtpe_tl
17434     /PlayCount~\g_mix_playcnt_tl
17435     /Speed~\g_mix_playspd_tl
17436     >>
17437   }
17438   \bool_if:nT{
17439     \g_mix_iiid_bool && (
17440       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17441     )
17442   }{/View~\l_mix_dfltview_tl}
17443   /Presentation~<<
17444   /Transparent~\g_mix_transp_tl
17445   \bool_if:NTF\g_mix_opt_windowed_bool{
17446     /Style/Windowed
17447     /Window~<<
17448     /Width~<</Default~\tl_mix_fltd>>
17449     /Height~<</Default~\tl_mix_fltht>>
17450     /Position~<<
17451     /HOffset~0/VOffset~0
17452     \str_case_e:nnF{\g_mix_winpos_tl}{
17453       {tl}{/VAlign/Near/HAlign/Near}
17454       {cl}{/VAlign/Center/HAlign/Near}
17455       {bl}{/VAlign/Far/HAlign/Near}
17456       {bc}{/VAlign/Far/HAlign/Center}
17457       {br}{/VAlign/Far/HAlign/Far}
17458       {cr}{/VAlign/Center/HAlign/Far}
17459       {tr}{/VAlign/Near/HAlign/Far}
17460       {tc}{/VAlign/Near/HAlign/Center}
17461     }{/HAlign/Center/VAlign/Center}
17462     >>
17463   }
17464   }{
17465     /Style/Embedded
17466   }
17467   \bool_if:NTF\g_mix_iiid_bool{
17468     /Toolbar~\g_mix_tools_tl
17469     /NavigationPane~\g_mix_nav_tl
17470   }{
17471     /PassContextClick~\g_mix_contextclick_tl

```



```

17472     }
17473     >>
17474     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17475     >>
17476     /Deactivation~<</Condition\g_mix_deact_tl>>
17477   }
17478   \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17479   \tl_if_empty:NF\g_mix_usrlabel_tl{
17480     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17481   }
17482   % #1:width, #2:height, #3:depth, #4:content (key-value)
17483   \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17484     /Subtype/RichMedia
17485     /F~4
17486     /BS~<</W~0/S/S>>
17487     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17488     /NM~(\g_mix_label_tl)
17489     /AP~<</N~\g_mix_appearance_tl>>
17490     /RichMediaSettings~\l_mix_settings_tl
17491     /RichMediaContent~\l_mix_content_tl
17492   }
17493   \tl_if_empty:NF\g_mix_usrlabel_tl{
17494     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17495     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17496       \noexpand\the\g_mix@page@int}
17497   }
17498   \mix_pdfobj:nnn{}{dict}{
17499     /S/JavaScript/JS~(
17500     try{
17501       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17502       if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17503         annotRM['\g_mix_label_tl']=
17504           this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17505       }
17506       \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17507         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17508           var~ocgs=this.getOCGs(this.pageNum);
17509           for(var~i=0;i<ocgs.length;i++){
17510             if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
17511               var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17512             }
17513           }
17514         }
17515         if(
17516           !annotRM['\g_mix_label_tl'].activated&&(
17517             app.viewerType=='Reader' ||
17518             app.viewerType=='Exchange' ||
17519             app.viewerType=='Exchange-Pro'
17520           )&&app.viewerVersion>=9
17521         ){
17522           ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17523         }
17524       }
17525     }catch(e){}

```




```

17526         this.dirty=false;
17527     )
17528 }
17529 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17530 /Subtype/Widget
17531 /FT/Btn/Ff-65537/F~2
17532 /BS~<</W~0>>
17533 /T~(fd@{g_mix_label_tl}
17534 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17535 }
17536 \mix_appendtofields:n{\mix_pdflastann:}
17537 \hbox_overlap_right:n{\box_use:N{l_mix_poster_box}
17538 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17539 \hbox_to_wd:nn{\g_mix_wd_tl}{
17540 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17541 }
17542 }{%insert play button overlay
17543 \mix_insert_btnocg: %create OCG
17544 \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17545 \group_begin:
17546 \cs_if_exist:NT\textdir{\textdir TLT}
17547 \sbox{l_mix_pbtn_box}{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17548 \box_move_down:nn{\g_mix_dp_tl}{
17549 \hbox_to_wd:nn{\g_mix_wd_tl}{
17550 \vbox_to_ht:nn{\g_mix_tt_tl}{
17551 \vss
17552 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17553 \box_use:N{l_mix_pbtn_box}
17554 \ocgbase_oc_emc:
17555 }
17556 }
17557 }
17558 \group_end:
17559 }
17560 \int_gincr:N\g_mix_rmcnt_int
17561 }
17562 \mix_endLTR:
17563 \group_end:
17564 }
17565 \tl_set_eq:NN{l_mix_includemedia_tl}\includemedia
17566 \tl_set:Nn\includemedia{\mix_uribegin:l_mix_includemedia_tl}
17567
17568 \RenewDocumentCommand\mediabutton{O{m}}{%#1 options, #2 normal button text
17569 \mix_uribegin:
17570 \group_begin:
17571 \mix_beginLTR:
17572 \mode_leave_vertical:
17573 %reset various variables
17574 \tl_gclear:N\g_mix_overbtn_tl
17575 \tl_gclear:N\g_mix_downbtn_tl
17576 \tl_gclear:N\g_mix_btnactions_tl
17577 \tl_gclear:N\g_mix_tooltip_tl
17578 %process options
17579 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool

```



```

17580 \mix_urbegin: %treat URI characters correctly
17581 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17582 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17583 \mix_urieend:
17584 %normal button appearance
17585 %\hbox_set:Nn\l_mix_poster_box{#2}
17586 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17587 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17588 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17589 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17590 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17591   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17592     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17593   \mix_pdfxform:n{\l_mix_poster_box}
17594   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17595   %insert widget annotation
17596   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17597     /Subtype/Widget
17598     /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17599     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17600     /FT/Btn/Ff~65536
17601     \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17602     /AP~<<
17603       /N~\g_mix_normalbtn_tl
17604       \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17605       \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17606     >>
17607     /MK~<<
17608       /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17609       /I~\g_mix_normalbtn_tl
17610       \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17611       \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17612     >>
17613     /A~<<
17614       /S/JavaScript/JS~(app.focusRect=false;)
17615       %sequence of actions to perform
17616       \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17617     >>
17618   }
17619   \mix_appendtofields:n{\mix_pdflastann:}
17620   \hbox_to_wd:nn{\width}{
17621     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17622   }
17623   \int_gincr:N\g_mix_mbtncnt_int
17624 }
17625 \mix_endLTR:
17626 \group_end:
17627 }
17628 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17629 \tl_set:Nn\mediabutton{\mix_urbegin:\l_mix_mediabutton_tl}
17630

```

117 File memoir-xetex-bidi.def



```

17631 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for
17632 \renewcommand{\keepthetitle}{%
17633   \@bsmtitleempty
17634   \global\let\thanks\relax
17635   \global\let\LTRthanks\relax
17636   \global\let\RTLthanks\relax
17637   \global\let\and\relax
17638   \global\let\andnext\relax
17639   \global\let\@thanks\@empty
17640   \global\let\@title\@empty
17641   \global\let\@author\@empty
17642   \global\let\@date\@empty}
17643 \renewcommand{\maketitle}{\par
17644   \beginingroup
17645     \@bsmarkseries
17646     \def\@makefnmark{\@textsuperscript{%
17647       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
17648     \long\def\@makefntext##1{\makethanksmark ##1}
17649     \if@twocolumn
17650       \ifnum \col@number=\@ne
17651         \@maketitle
17652       \else
17653         \twocolumn[\@maketitle]%
17654       \fi
17655     \else
17656       \ifdim\pagetotal>\z@
17657         \newpage
17658       \fi
17659       \global\@topnum\z@
17660       \@maketitle
17661     \fi
17662     \thispagestyle{title}\@thanks
17663   \endgroup
17664   \@bscontmark % \setcounter{footnote}{0}%
17665 }
17666 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17667 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17668 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
17669 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
17670 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17671 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17672 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17673 \renewcommand*{\thesubsection}{%
17674   \thesection\@SepMark\@arabic\c@subsection}
17675 \renewcommand*{\thesubsubsection}{%
17676   \thesubsection\@SepMark\@arabic\c@subsubsection}
17677 \renewcommand*{\theparagraph}{%
17678   \thesubsubsection\@SepMark\@arabic\c@paragraph}
17679 \renewcommand*{\thesubparagraph}{%
17680   \theparagraph\@SepMark\@arabic\c@subparagraph}
17681 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17682 \renewcommand{\theequation}{%
17683   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17684 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}

```



```

17685 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17686 \ifartopt
17687   \chapterstyle{article}
17688   \counterwithout{figure}{chapter}
17689   \counterwithout{table}{chapter}
17690   \counterwithout{footnote}{chapter}
17691   \counterwithout{equation}{chapter}
17692   \renewcommand{\chaptername}{}
17693   \renewcommand{\maketitlehookb}{%
17694     \vskip -1.5\topsep\vskip -1.5\partopsep}
17695   \renewcommand{\maketitlehookc}{%
17696     \vskip -1.5\topsep\vskip -1.5\partopsep}
17697 \fi
17698 \long\def\@makecaption#1#2{\let\@memtempa\relax
17699   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17700   \else \def\@memtempa{\vbox to\topskip{}}\fi
17701   \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
17702   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
17703   \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17704   \let\footnote\@contfnote
17705   \let\footnotemark\@contfmark
17706   \ifdim\wd\@tempboxa<\linewidth \centering \fi
17707   \if@contcw
17708     \centering
17709     \parbox{\@contcwidth}{%
17710       \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17711     } \fi
17712   \ifdim\wd\@tempboxa<\linewidth
17713     \@contpre
17714     {\@contnfont #1\@contdelim}\@memtempa
17715     {\@contcshortstyle \@conttfont #2\@contfinal\par}
17716   \else
17717     \if@conthang
17718       \sbox\@tempboxa{\@contnfont #1\@contdelim}
17719       \@contpre%
17720       {\@contcstyle\hangindent=\wd\@tempboxa
17721         \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17722     \else
17723       \if@contindent
17724         \@contpre%
17725         {\@contnfont #1\@contdelim}\@memtempa
17726         {\@contcstyle\hangindent=\@contindw
17727           \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
17728       \else
17729         \@contpre%
17730         {\@contnfont #1\@contdelim}\@memtempa
17731         {\@contcstyle \@conttfont #2\@contfinal\par}
17732       \fi
17733     \fi
17734   \fi
17735   \@contpost
17736   \if@contcw
17737     \par
17738   } % end of the \parbox

```



```

17739 \fi
17740 \vskip\belowcaptionskip}
17741 \ApplyPatchCodeToPackage{caption}{%
17742 \AtBeginPackage{caption}{
17743 \ClassWarningNoLine{memoir}{%
17744 You are using the caption package with the memoir \MessageBreak
17745 class. This may cause unexpected or inconsistent \MessageBreak
17746 results if you use any of memoir's captioning facilities}
17747
17748 \long\def\@makecaption##1##2{%
17749 \vskip\abovecaptionskip
17750 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17751 \ifdim \wd\@tempboxa >\hsize
17752 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17753 \else
17754 \global \@minipagefalse
17755 \hbext@\hsize{\hfil\box\@tempboxa\hfil}%
17756 \fi
17757 \vskip\belowcaptionskip}
17758
17759 \def\caption{%
17760 \ifx\@capttype\@undefined
17761 \latexerror{\noexpand\caption outside float}\@ehd
17762 \expandafter\@gobble
17763 \else
17764 \refstepcounter\@capttype
17765 \expandafter\@firstofone
17766 \fi
17767 {\@dblarg{\@caption\@capttype}}%
17768 }
17769
17770 \long\def\@caption##1[##2]##3{%
17771 \par
17772 \addcontentsline{\csname ext##1\endcsname}{##1}%
17773 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17774 \begingroup
17775 \@parboxrestore
17776 \if@minipage
17777 \setminipage
17778 \fi
17779 \normalsize
17780 \@makecaption{\csname fnum##1\endcsname}{\ignorespaces ##3}\par
17781 \endgroup}
17782 }}
17783 \renewenvironment{thebibliography}[1]{%
17784 \bibsection
17785 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17786 \bidi@thebibliography@font@hook%
17787 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

118 File midfloat-xetex-bidi.def

```

17788 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17789 \def\RTL@outputdblcol{%

```



```

17790 \if@firstcolumn
17791 \global \@firstcolumnfalse
17792 \global\setbox\@leftcolumn\copy\@outputbox
17793 \splitmaxdepth\maxdimen
17794 \vbadness\maxdimen
17795 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17796 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17797 \toks@\expandafter{\topmark}%
17798 \xdef\@firstcoltopmark{\the\toks@}%
17799 \toks@\expandafter{\splitfirstmark}%
17800 \xdef\@firstcolfirstmark{\the\toks@}%
17801 \ifx\@firstcolfirstmark\@empty
17802 \global\let\@setmarks\relax
17803 \else
17804 \gdef\@setmarks{%
17805 \let\firstmark\@firstcolfirstmark
17806 \let\topmark\@firstcoltopmark}%
17807 \fi
17808 \global\c@colht\@colht\global\c@addvipersep\z@
17809 \ifnum\jua@sk>0
17810 \remove@strip\jua@sar
17811 \global\@colht\the\jua@pr
17812 \ifdim\right@cor>\z@
17813 \global\advance\@colht by\right@cor
17814 \fi
17815 \global\advance\@colht by\cor@height
17816 \global\cor@height=0pt
17817 \fi
17818 \global \setbox\@rightcolumn \vbox{}}%
17819 \else
17820 \ifdim\c@colht>\@colht
17821 \@tempdima\@colht
17822 \ifdim\@colht>\z@
17823 \global\setbox\@rightcolumn \vbox{%
17824 \unvbox\@rightcolumn
17825 \vbox to\@tempdima{%
17826 \vskip\c@addvipersep\unvbox\@outputbox}%
17827 \vskip\stripsep
17828 \vrule height\the\jua@ht width 0pt depth 0pt
17829 \vskip\stripsep
17830 }%
17831 \global\c@addvipersep\m@addvipersep
17832 \else
17833 \global\setbox\@rightcolumn \vbox{%
17834 \unvbox\@rightcolumn
17835 \vrule height\the\jua@ht width 0pt depth 0pt
17836 \vskip\stripsep
17837 }%
17838 \fi
17839 \ifnum\jua@sk>0
17840 \remove@strip\jua@sar
17841 \global\@colht\the\jua@pr
17842 \global\advance\@colht by -\ht\@rightcolumn
17843 \global\advance\@colht by\cor@height

```



```

17844         \global\cor@height=0pt
17845     \else
17846         \global\advance\c@colht by-\ht\@rightcolumn
17847         \global\@colht\c@colht
17848     \fi
17849 \else
17850 \global\@firstcolumntrue
17851 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17852     \unvbox\@rightcolumn
17853     \vskip\c@addvipersep
17854     \unvbox\@outputbox
17855 }%
17856 \setbox\@outputbox \vbox {%
17857     \hb@xt@\textwidth {%
17858         \hskip \columnwidth
17859         \hfil
17860         \vrule \@width\columnseprule
17861         \hfil
17862         \hb@xt@\columnwidth {%
17863             \bidi@firstcolumn@status@write%
17864             \box\@leftcolumn \hss}%
17865         \hskip-\textwidth
17866         \hb@xt@\columnwidth {%
17867             \bidi@lastcolumn@status@write%
17868             \box\@outputbox \hss}%
17869         \hskip\columnwidth
17870         \hskip\columnsep}%
17871     }%
17872 \@combinedblfloats
17873 \@setmarks
17874 \@outputpage
17875 \begingroup
17876     \@dblfloatplacement
17877     \@startdblcolumn
17878     \@whiles\if@fcolmade \fi
17879     {\@outputpage
17880      \@startdblcolumn}%
17881 \endgroup
17882 \global\jua@sk=0\global\jua@sar={}%
17883 \global\cor@height\z@\global\c@addvipersep\z@
17884 \fi
17885 \fi
17886 }
17887
17888
17889 \def\LTR@outputdblcol{%
17890     \if@firstcolumn
17891         \global \@firstcolumnfalse
17892         \global\setbox\@leftcolumn\copy\@outputbox
17893         \splitmaxdepth\maxdimen
17894         \vbadness\maxdimen
17895         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17896         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17897         \toks@\expandafter{\topmark}%

```



```

17898 \xdef\@firstcoltopmark{\the\toks@}%
17899 \toks@\expandafter{\splitfirstmark}%
17900 \xdef\@firstcolfirstmark{\the\toks@}%
17901 \ifx\@firstcolfirstmark\@empty
17902   \global\let\@setmarks\relax
17903 \else
17904   \gdef\@setmarks{%
17905     \let\firstmark\@firstcolfirstmark
17906     \let\topmark\@firstcoltopmark}%
17907 \fi
17908 \global\c@colht\@colht\global\c@advipersep\z@
17909 \ifnum\jua@sk>0
17910   \remove@strip\jua@sar
17911   \global\@colht\the\jua@pr
17912   \ifdim\right@cor>\z@
17913     \global\advance\@colht by\right@cor
17914   \fi
17915   \global\advance\@colht by\cor@height
17916   \global\cor@height=0pt
17917 \fi
17918 \global\setbox\@rightcolumn\vbox{}%
17919 \else
17920   \ifdim\c@colht>\@colht
17921     \@tempdima\@colht
17922     \ifdim\@colht>\z@
17923       \global\setbox\@rightcolumn\vbox{%
17924         \unvbox\@rightcolumn
17925         \vbox to\@tempdima{%
17926           \vskip\c@advipersep\unvbox\@outputbox}%
17927         \vskip\stripsep
17928         \vrule height\the\jua@ht width 0pt depth 0pt
17929         \vskip\stripsep
17930       }%
17931       \global\c@advipersep\m@advipersep
17932     \else
17933       \global\setbox\@rightcolumn\vbox{%
17934         \unvbox\@rightcolumn
17935         \vrule height\the\jua@ht width 0pt depth 0pt
17936         \vskip\stripsep
17937       }%
17938     \fi
17939   \ifnum\jua@sk>0
17940     \remove@strip\jua@sar
17941     \global\@colht\the\jua@pr
17942     \global\advance\@colht by-\ht\@rightcolumn
17943     \global\advance\@colht by\cor@height
17944     \global\cor@height=0pt
17945   \else
17946     \global\advance\c@colht by-\ht\@rightcolumn
17947     \global\@colht\c@colht
17948   \fi
17949 \else
17950   \global\@firstcolumntrue
17951   \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%

```




```

17952             \unvbox\@rightcolumn
17953             \vskip\c@addvipersep
17954             \unvbox\@outputbox
17955             }%
17956 \setbox\@outputbox \vbox {%
17957     \hb@xt@\textwidth {%
17958         \hb@xt@\columnwidth {%
17959             \bidi@firstcolumn@status@write%
17960             \box\@leftcolumn \hss}%
17961         \hfil
17962         \vrule \@width\columnseprule
17963         \hfil
17964         \hb@xt@\columnwidth {%
17965             \bidi@lastcolumn@status@write%
17966             \box\@outputbox \hss}%
17967         }%
17968     }%
17969 \@combinedblfloats
17970 \@setmarks
17971 \@outputpage
17972 \begingroup
17973     \@dblfloatplacement
17974     \@startdblcolumn
17975     \@whiles\if@fcolmade \fi
17976     {\@outputpage
17977      \@startdblcolumn}%
17978 \endgroup
17979 \global\jua@sk=0\global\jua@sar={}%
17980 \global\cor@height\z@\global\c@addvipersep\z@
17981 \fi
17982 \fi
17983 }
17984
17985
17986 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17987     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\f
17988         \hsize\textwidth
17989         \@parboxrestore
17990         \col@number \@ne
17991         \vrule height\topskip width0pt depth0pt
17992 }
17993
17994 \def\endstrip{%
17995     \egroup\egroup
17996     \if@firstcolumn
17997         \ifdim\pagetotal>\z@
17998             \vskip\stripsep
17999             \global\ht@strip\pagegoal
18000             \global\advance\ht@strip by-\pagetotal
18001             \global\advance\ht@strip by-\stripsep
18002             \global\advance\ht@strip by-\ht\@viper
18003             \global\advance\ht@strip by-\stripsep
18004             \global\jua@ht=\ht\@viper
18005         \else

```



```

18006             \global\ht@strip\z@
18007         \fi
18008     \ifdim\ht@strip>\z@
18009         \unvbox\@viper
18010         \vskip\stripsep
18011         \add@strip{\the\pagetotal}{\the\juo@ht}{\the\@tempdima}{\the\@tempdimb}%
18012         \global\advance\juo@sk by1
18013     \else
18014         \@latex@error{Strip needs more place!}\@ehc
18015         \if@vihproof
18016             \framebox[\columnwidth]{??? Strip ???}%
18017         \fi
18018     \fi
18019 \else
18020     \@latex@error{Strip is used only on left column!}\@ehc
18021     \if@vihproof
18022         \framebox[\columnwidth]{??? Strip ???}%
18023     \fi
18024 \fi
18025 }

```

119 File minitoc-xetex-bidi.def

```

18026 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package]
18027 \def\@undottedtocline#1#2#3#4#5{%
18028     \ifnum #1>\c@tocdepth\relax \else
18029         \vskip \z@ plus.2\p@
18030     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
18031         \parindent #2\relax\@afterindenttrue
18032         \interlinepenalty\@M
18033         \leavevmode
18034         \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
18035         \hskip -\if@RTL\righskip\else\leftskip\fi
18036         #4\nobreak\hfill \nobreak
18037         \null\par}%
18038     \fi}
18039 \def\@Undottedtocline#1#2#3#4#5{%
18040     \ifnum #1>\c@tocdepth\relax \else
18041         \vskip \z@ \@plus.2\p@
18042     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
18043         \parindent #2\relax\@afterindenttrue
18044         \interlinepenalty\@M
18045         \leavevmode
18046         \@tempdima #3\relax
18047         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righskip\else\leftskip\fi
18048         {\coffee font #4}\nobreak \nobreak\null
18049         \par}%
18050     \fi}
18051 \def\@Undottedtocline#1#2#3#4#5{%
18052     \ifnum #1>\c@tocdepth\relax \else
18053         \vskip \z@ \@plus.2\p@
18054     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
18055         \parindent #2\relax\@afterindenttrue
18056         \interlinepenalty\@M

```



```

18057 \leavevmode
18058 \@tempdima #3\relax
18059 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
18060 {#4}\nobreak \hfill \nobreak\null
18061 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
18062 \par}%
18063 \fi}

```

120 File multicol-xetex-bidi.def

```

18064 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
18065 \def\page@sofar{%
18066 \process@cols\mult@rightbox
18067 {\ifvoid\count@
18068 \setbox\count@\hbox to\hsize{}%
18069 \else
18070 \wd\count@\hsize
18071 \fi}%
18072 \count@\col@number \advance\count@\m@ne
18073 \mult@info\z@
18074 {Column spec: \the\full@width\space = indent
18075 + columns + sep =\MessageBreak
18076 \the\multicol@leftmargin\space
18077 + \the\col@number\space
18078 x \the\hsize\space
18079 + \the\count@\space
18080 x \the\columnsep
18081 }%
18082 \ifvmode\else\errmessage{Multicol Error}\fi
18083 \nointerlineskip
18084 \setbox\z@\hbox{p}\global\dimen\tw@dp\z@
18085 \moveright\multicol@leftmargin
18086 \hbox to\full@width{%
18087 \bidi@multicol@align@columns
18088 \rlap{\phantom p}%
18089 }%
18090 \prevdepth\z@
18091 \kern-\dimen\tw@
18092 \ifdim\dimen\tw@ > \mc@gridwarn
18093 \PackageWarning{multicol}%
18094 {Very deep columns!\MessageBreak
18095 Grid alignment might be broken}%
18096 \fi
18097 }
18098 \def\LTR@column@boxes{%
18099 \process@cols\mult@firstbox{%
18100 \ifdim\dp\count@>\dimen\tw@
18101 \global\dimen\tw@dp\count@ \fi
18102 \mc@col@status@write
18103 \box\count@
18104 \hss{\columnseprulecolor\vrule
18105 \@width\columnseprule}\hss}%
18106 \ifdim\dp\mult@rightbox>\dimen\tw@
18107 \global\dimen\tw@dp\mult@rightbox \fi

```



```

18108 \mc@lastcol@status@write
18109 \box\mult@rightbox
18110 }
18111
18112 \def\RTL@column@boxes{%
18113 \process@cols\mult@firstbox{%
18114 \hskip\hsize
18115 \hss{\columnseprulecolor\vrule
18116 \@width\columnseprule}\hss
18117 }%
18118 \hskip\hsize
18119 \process@cols\mult@firstbox{%
18120 \ifdim\dp\count@>\dimen\tw@
18121 \global\dimen\tw@\dp\count@ \fi
18122 \hskip-\hsize
18123 \mc@col@status@write
18124 \box\count@
18125 \hskip-\hsize
18126 \hskip-\columnsep
18127 }%
18128 \ifdim\dp\mult@rightbox>\dimen\tw@
18129 \global\dimen\tw@\dp\mult@rightbox \fi
18130 \hskip-\hsize
18131 \mc@lastcol@status@write
18132 \box\mult@rightbox
18133 \hskip-\hsize
18134 \hskip\full@width
18135 }
18136
18137 \newcommand\RTLmulticolcolumns
18138 {\let\ bidi@multicol@align@columns
18139 \RTL@column@boxes}
18140 \newcommand\LTRmulticolcolumns
18141 {\let\ bidi@multicol@align@columns
18142 \LTR@column@boxes}
18143 \newcommand\bidi@multicol@align@columns
18144 {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18145 \bidi@AtEndPreamble{%
18146 \if@bidi@csdef{footinsv@1}{%
18147 \def\footnoterule{\kern-3\p@
18148 \hrule \@width \textwidth \kern 2.6\p@}%
18149 }{}%
18150 }
18151 \def\multicols#1{\col@number#1\relax
18152 \ifnum\col@number<\tw@
18153 \PackageWarning{multicol}%
18154 {Using ``\number\col@number'
18155 columns doesn't seem a good idea.^^J
18156 I therefore use two columns instead}%
18157 \col@number\tw@ \fi
18158 \ifnum\col@number>20
18159 \PackageError{multicol}%
18160 {Too many columns}%
18161 {Current implementation doesn't

```



```

18162      support more than 20 columns.%
18163      \MessageBreak
18164      I therefore use 20 columns instead}%
18165      \col@number20 \fi
18166      \ifx\@footnotetext\mult@footnotetext
18167      \else
18168        \let\orig@footnotetext\@footnotetext
18169        \let\@footnotetext\mult@footnotetext
18170      \fi
18171      \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18172      \else
18173        \let\orig@LTRfootnotetext\@LTRfootnotetext
18174        \let\@LTRfootnotetext\mult@LTRfootnotetext
18175      \fi
18176      \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18177      \else
18178        \let\orig@RTLfootnotetext\@RTLfootnotetext
18179        \let\@RTLfootnotetext\mult@RTLfootnotetext
18180      \fi
18181      \@ifnextchar[\mult@cols{\mult@cols[]}]
18182      \long\def\mult@footnotetext#1{\begingroup
18183        \hsize\textwidth
18184        \columnwidth\textwidth
18185        \orig@footnotetext{#1}\endgroup}
18186      \long\def\mult@LTRfootnotetext#1{\begingroup
18187        \hsize\textwidth
18188        \columnwidth\textwidth
18189        \orig@LTRfootnotetext{#1}\endgroup}
18190      \long\def\mult@RTLfootnotetext#1{\begingroup
18191        \hsize\textwidth
18192        \columnwidth\textwidth
18193        \orig@RTLfootnotetext{#1}\endgroup}
18194      \def\right@footnoterule{%
18195        \kern-3\p@
18196        \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18197        \kern2.6\p@}
18198      \def\textwidth@footnoterule{\kern-3\p@
18199        \hrule \@width \textwidth \kern 2.6\p@}
18200      \def\@bidi@leave@mult@copyins{%
18201        \advance\dimen@-\skip\@bidi@copyins@
18202        \advance\dimen@-\ht\@bidi@copyins@
18203      }
18204
18205      \bidi@AtEndPreamble{%
18206        \if@bidi@csundef{footinsv@1}{%
18207          \bidi@patchcmd{\multi@column@out}{%
18208            \ifvbox \@kludgeins
18209          }{%
18210            \ifvoid\@bidi@copyins@ \else
18211              \bidi@leave@mult@copyins
18212            \fi
18213            \ifvbox \@kludgeins
18214          }{}{}%
18215        }{}%

```



18216 }
 18217
 18218

121 File multienum-xetex-bidi.def

```

18219 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum pack
18220 \renewcommand{\itemx}[1]{\parbox[t]{%
18221 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18222 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18223 \renewcommand{\itemxx}[2]{\parbox[t]{%
18224 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18225 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18226 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18227 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18228 \renewcommand{\itemxxx}[3]{\parbox[t]{%
18229 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18230 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18231 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18232 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18233 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18234 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18235 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
18236 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18237 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18238 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18239 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18240 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18241 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18242 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18243 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18244 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
18245 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18246 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
18247 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18248 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
18249 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18250 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
18251 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18252 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
18253 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18254 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
18255 \renewcommand{\itemxox}[2]{\parbox[t]{%
18256 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18257 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18258 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18259 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18260 \renewcommand{\itemxox}[2]{\parbox[t]{%
18261 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18262 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18263 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18264 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18265 \renewcommand{\itemxox}[3]{\parbox[t]{%
18266 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18267 \parbox[t]{\remainxxx}{\bidi@raggedright #1}\hfill%
18268 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18269 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18270 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18271 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18272 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18273 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18274 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18275 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18276 \parbox[t]{\remainxxx}{\bidi@raggedright #2}\hfill%
18277 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18278 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18279 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18280 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18281 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18282 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18283 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18284 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18285 \parbox[t]{\remainxxx}{\bidi@raggedright #3}\smallskip}

```

122 File natbib-xetex-bidi.def

```

18286 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package fo
18287 \renewenvironment{thebibliography}[1]{%
18288 \bibsection
18289 \parindent\z@
18290 \bibpreamble
18291 \bibfont
18292 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
18293 \bidi@thebibliography@font@hook%
18294 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18295 \ifNAT@openbib
18296 \renewcommand\newblock{\par}%
18297 \else
18298 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18299 \fi
18300 \sloppy\clubpenalty4000\widowpenalty4000
18301 \sfcode`\.\@m
18302 \let\NAT@bibitem@first@sw\@firstoftwo
18303 \let\citeN\cite \let\shortcite\cite
18304 \let\citeasnoun\cite
18305 }{%
18306 \bibitem@fin
18307 \bibpostamble
18308 \def\@noitemerr{%
18309 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18310 }%
18311 \endlist
18312 \bibcleanup
18313 }%

```

123 File newfloat-xetex-bidi.def

```

18314 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat packag

```



```

18315 \renewcommand*\newfloat@setwithin[2]{%
18316   \ifcsname c@chapter\endcsname
18317     \@removefromreset{#1}{chapter}%
18318   \fi
18319   \@removefromreset{#1}{section}%
18320   \edef\@tempa{#2}%
18321   \ifx\@tempa\@empty
18322     \def\@tempa{none}%
18323   \fi
18324   \def\@tempb{none}%
18325   \ifx\@tempa\@tempb
18326     \ifcsname c@chapter\endcsname
18327       \@chapterlistsgap@off{#1}%
18328     \fi
18329     \newfloat@@setwithin{#1}{-}{-}%
18330   \else
18331     \def\@tempb{chapter}%
18332     \ifx\@tempa\@tempb
18333       \@addtoreset{#1}{chapter}%
18334       \@chapterlistsgap@on{#1}%
18335       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@}
18336     \else
18337       \def\@tempb{section}%
18338       \ifx\@tempa\@tempb
18339         \@addtoreset{#1}{section}%
18340         \ifcsname c@chapter\endcsname
18341           \@addtoreset{#1}{chapter}%
18342           \@chapterlistsgap@on{#1}%
18343           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18344         \else
18345           \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@}
18346         \fi
18347       \else
18348         \newfloat@Error{Invalid value `#2' for option `within'}%
18349       \fi
18350     \fi
18351   \fi}

```

124 File `nicematrix-xetex-bidi.def`

```

18352 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pa
18353 \ExplSyntaxOn
18354 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
18355   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18356   \@tabarray
18357 }{}{}
18358 \ExplSyntaxOff
18359

```

125 File `ntheorem-xetex-bidi.def`

```

18360 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem packag
18361 \gdef\@thm#1#2#3{%
18362   \if@thmmarks

```




```

18363     \stepcounter{end\InTheoType ctr}%
18364   \fi
18365   \renewcommand{\InTheoType}{#1}%
18366   \if@thmmarks
18367     \stepcounter{curr#1ctr}%
18368     \setcounter{end#1ctr}{0}%
18369   \fi
18370   \refstepcounter{#2}%
18371   \theorem@prework
18372   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18373   \ifvmode \advance\thm@topsepadd\partopsep\fi
18374   \trivlist
18375   \@topsep \theorem@preskipamount
18376   \@topsepadd \thm@topsepadd % used by \@endparenv
18377   \advance\linewidth -\theorem@indent
18378   \advance\@totalleftmargin \theorem@indent
18379   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18380   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

126 File ntheorem-hyper-xetex-bidi.def

```

18381 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-
18382 \gdef\@thm#1#2#3{%
18383   \if@thmmarks
18384     \stepcounter{end\InTheoType ctr}%
18385   \fi
18386   \renewcommand{\InTheoType}{#1}%
18387   \if@thmmarks
18388     \stepcounter{curr#1ctr}%
18389     \setcounter{end#1ctr}{0}%
18390   \fi
18391   \refstepcounter{#2}%
18392   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18393   \ifvmode \advance\thm@topsepadd\partopsep\fi
18394   \trivlist
18395   \@topsep \theorem@preskipamount
18396   \@topsepadd \thm@topsepadd % used by \@endparenv
18397   \advance\linewidth -\theorem@indent
18398   \advance\@totalleftmargin \theorem@indent
18399   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18400   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

127 File overpic-xetex-bidi.def

```

18401 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package
18402 \renewenvironment{overpic}[2] [] {%
18403   \sbox{\z@}{\includegraphics[#1]{#2}}%
18404   \settodepth{\@tempcnta}{\usebox{\z@}}%
18405   \settoheight{\@tempcntb}{\usebox{\z@}}%
18406   \advance\@tempcntb\@tempcnta%
18407   \settowidth{\@tempcnta}{\usebox{\z@}}%
18408   \setlength{\@tempdima}{\unitlength}%
18409   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18410 %

```



```

18411 \OVP@calc%
18412 %
18413 \begin{picture}(\@tempcnta,\@tempcntb)%
18414 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
18415 \ifGin@grid%
18416 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18417 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18418 \fi\fi%
18419 % reset the graphics parameter
18420 \let\Gin@outer@scalex\relax
18421 \let\Gin@outer@scaley\relax
18422 \let\Gin@angle\relax
18423 \let\Gin@ewidth\Gin@exclamation
18424 \let\Gin@eheight\Gin@ewidth
18425 \def\Gin@scalex{1}
18426 \let\Gin@scaley\Gin@exclamation
18427 }{%
18428 \if@RTL\ifGin@grid%
18429 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18430 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18431 \fi%
18432 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
18433 \end{picture}%
18434 }%

```

128 File pdfbase-xetex-bidi.def

```

18435 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package]
18436 \ExplSyntaxOn
18437 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18438 \cs_set_nopar:Npn\@outputpage{
18439 \int_gincr:N\g_pbs_page_int
18440 \box_if_vertical:cTF{\outputbox}{
18441 \bool_set_true:N\l_pbs_is_vertical_bool
18442 }{
18443 \bool_set_false:N\l_pbs_is_vertical_bool
18444 }
18445 \hbox_set:Nn\@outputbox{
18446 %begin of page
18447 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18448 \box_use_drop:N\@outputbox
18449 %end of page
18450 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18451 }
18452 \bool_if:NT\l_pbs_is_vertical_bool{
18453 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18454 }
18455 \pbs_outputpage_orig:
18456 }
18457 \ExplSyntaxOff

```

129 File pdfscape-xetex-bidi.def

```

18458 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape pack

```



```

18459 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18460   \if@RTL
18461     \PLS@Rotate{-90}%
18462   \else
18463     \PLS@Rotate{90}%
18464   \fi
18465 }{}{}

```

130 File pgfcorescopes.code-xetex-bidi.def

```

18466 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf p
18467 \def\pgfpicture{%
18468   \begingroup%
18469   \ifmmode\else\@RTLfalse\beginL\fi%
18470   \pgfpicturetrue%
18471   \global\advance\pgf@picture@serial@count by1\relax%
18472   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18473   \let\pgf@nodecallback=\pgfutil@gobble%
18474   \pgf@picmaxx=-16000pt\relax%
18475   \pgf@picminx=16000pt\relax%
18476   \pgf@picmaxy=-16000pt\relax%
18477   \pgf@picminy=16000pt\relax%
18478   \pgf@relevantforpicturesizetrue%
18479   \pgf@resetpathsizes%
18480   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18481 \def\endpgfpicture{%
18482   \ifpgfrememberpicturepositiononpage%
18483     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18484     \fi%
18485     % ok, now let's position the box
18486     \ifdim\pgf@picmaxx=-16000pt\relax%
18487       % empty picture. make size 0.
18488       \global\pgf@picmaxx=0pt\relax%
18489       \global\pgf@picminx=0pt\relax%
18490       \global\pgf@picmaxy=0pt\relax%
18491       \global\pgf@picminy=0pt\relax%
18492     \fi%
18493     % Shift baseline outside:
18494     \pgf@relevantforpicturesizefalse%
18495     \pgf@process{\pgf@baseline}%
18496     \xdef\pgf@shift@baseline{\the\pgf@y}%
18497     %
18498     \pgf@process{\pgf@trimleft}%
18499     \global\advance\pgf@x by-\pgf@picminx
18500     % prepare \hskip\pgf@trimleft@final.
18501     % note that \pgf@trimleft@final is also queried
18502     % by the pgf image externalization.
18503     \xdef\pgf@trimleft@final{-\the\pgf@x}%
18504     %
18505     \pgf@process{\pgf@trimright}%
18506     \global\advance\pgf@x by-\pgf@picmaxx
18507     % prepare \hskip\pgf@trimright@final.
18508     % note that \pgf@trimright@final is also queried
18509     % by the pgf image externalization.

```



```

18510         \xdef\pgf@trimright@final{\the\pgf@x}%
18511     %
18512     \pgf@remember@layerlist@globally
18513     \endgroup%
18514     \hss%
18515     \egroup%
18516     \pgf@restore@layerlist@from@global
18517     \pgf@insertlayers%
18518     \endgroup%
18519     \pgfsys@discardpath%
18520     \endgroup%
18521     \pgfsys@endscope%
18522     \pgfsys@endpicture%
18523     \endgroup%
18524     \hss
18525 \egroup%
18526 \pgfsys@typesetpicturebox\pgfpic%
18527 \ifmmode\else\endL\fi%
18528 \endgroup%
18529 }

```

131 File pgfsys-xetex-bidi.def

```

18530 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package fo
18531 \def\pgfsys@shadingoutsidepgfpicture#1{%
18532     \beginL#1\endL%
18533 }
18534
18535

```

132 File picinpar-xetex-bidi.def

```

18536 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar packag
18537 \long\def\@makewincaption#1#2{%
18538     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18539     \ifdim\wd\@tempboxa>\picwd
18540         {\footnotesize{\bf #1:\enspace}{#2\par}}
18541     \else
18542         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18543     \fi}
18544 \def\endwindow{%
18545     \global\tcd=\tcdsav
18546     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18547     \vbadness=10000
18548     \splittopskip=0pt
18549 %
18550 % Typeset the lines above the window
18551 %
18552 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18553 \tcn=\tcd
18554 \loop\advance\tcn -1
18555 \setbox\fslice=\vsplit\holder to\baselineskip
18556 \prune\fslice\linewidth
18557 \topheight=0pt

```



```

18558 \ifnum\dp\fslice>\dp\wstrutbox
18559         \advance\topheight-\dp\fslice
18560         \advance\topheight\dp\wstrutbox
18561         \advance\topheight\ilg\fi
18562 \hbox to\linewidth{\box\fslice}
18563 \vskip-\topheight
18564 \ifdim\ht\holder>0pt\repeat
18565 \fi
18566 %
18567 % Now we build the boxes beside the window
18568 %
18569 \global\topheight=\tcl\baselineskip
18570 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18571         \global\topheight=\vpic
18572 \fi
18573 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18574 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18575 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18576 \tcn=\tcl \na=0 \nb=0
18577 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18578 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18579 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18580 \ifnum\na=0\ifnum\nb=0
18581         \setbox\waslice=\vbox to\vpic{\vss}
18582         \setbox\wbslice=\vbox to\vpic{\vss}
18583         \bl=1\br=1
18584         \vskip\ilg
18585 \fi\fi
18586 %
18587 % both sides
18588 %
18589 \ifnum\na>0 \ifnum\nb>0
18590 \loop\advance\nb -1
18591 \advance\na -1
18592 \if@RTL%
18593 \setbox\bslice=\vsplit\holder to\baselineskip
18594 \prune\bslice\rtside
18595 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18596 to\rtside{\box\bslice\hfil}}
18597 \setbox\aslice=\vsplit\holder to\baselineskip
18598 \prune\aslice\lftside
18599 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18600 to\lftside{\box\aslice\hfil}}
18601 \else%
18602 \setbox\aslice=\vsplit\holder to\baselineskip
18603 \prune\aslice\lftside
18604 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18605 to\lftside{\box\aslice\hfil}}
18606 \setbox\bslice=\vsplit\holder to\baselineskip
18607 \prune\bslice\rtside
18608 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18609 to\rtside{\box\bslice\hfil}}
18610 \fi%
18611 \ifnum\nb>0\repeat

```



```

18612 \fi\fi
18613 %
18614 % only text on the left side
18615 %
18616 \ifnum\na>0
18617   \loop\advance\na -1
18618   \setbox\aslice=\vsplit\holder to\baselineskip
18619   \prune\aslice\lftside
18620   \setbox\waslice=\vbox{\unvbox\waslice\hbox
18621     to\lftside{\box\aslice\hfil}}
18622   \ifdim\ht\holder>0pt\repeat
18623 \fi
18624 %
18625 % only text on the right side
18626 %
18627 \ifnum\nb>0
18628   \loop\advance\nb -1
18629   \setbox\bslice=\vsplit\holder to\baselineskip
18630   \prune\bslice\rtside
18631   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18632     to\rtside{\box\bslice\hfil}}
18633   \ifdim\ht\holder>0pt\repeat
18634 \fi
18635 %
18636 % fixing the dimensions of the window part
18637 %
18638 \ifnum\bl=0\topheight=\ht\wbslice
18639 \else\ifnum\br=0\topheight=\ht\waslice
18640   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18641     \else\topheight=\ht\wbslice\fi\fi\fi
18642 %
18643 % ship out the window material to the main vertical list
18644 %
18645 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18646 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18647 \fi\fi\fi
18648 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18649 \ifnum\bl>0\box\waslice\hfill\fi%
18650 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18651 \vfill\unvbox\picbox%
18652 \ifnum\picwd>0\vfill\fi%
18653 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18654 \unvbox>windowbox%
18655 \loop
18656 \setbox\bslice=\vsplit\rawtext to\baselineskip
18657 \prune\bslice\linewidth
18658 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18659 \unvbox\wbslice
18660 \ifdim\ht\rawtext>0pt
18661 \repeat
18662 }% FINITO

```

133 File plain-xetex-bidi.def



```

18663 \def\TeXXeTOn{\TeXXeTstate=1 }
18664 \def\TeXXeTOff{\TeXXeTstate=0 }
18665 \TeXXeTOn
18666 \def\usebox#1{\leavevmode\copy #1\relax}
18667 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
18668   \let\ bidi@o@everypar=\everypar
18669   \newtoks\ bidi@n@everypar
18670   \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
18671   \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
18672   \let\everypar=\ bidi@n@everypar
18673 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18674 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18675 \protected\def\hboxR{\hbox\bgroup
18676   \everyhbox{%
18677     \aftergroup\egroup
18678     \everyhbox{}%
18679     \beginR
18680     \@hboxRconstructtrue
18681     \bgroup
18682     \aftergroup\endR
18683     \aftergroup\egroup
18684   }\hbox}
18685 \protected\def\hboxL{\hbox\bgroup
18686   \everyhbox{%
18687     \aftergroup\egroup
18688     \everyhbox{}%
18689     \beginL
18690     \@hboxRconstructfalse
18691     \bgroup
18692     \aftergroup\endL
18693     \aftergroup\egroup
18694   }\hbox}
18695 \protected\def\vboxR{\vbox\bgroup
18696   \everyvbox{%
18697     \aftergroup\egroup
18698     \everyvbox{}%
18699     \@RTLtrue
18700     \bgroup
18701     \aftergroup\egroup
18702   }\vbox}
18703 \protected\def\vboxL{\vbox\bgroup
18704   \everyvbox{%
18705     \aftergroup\egroup
18706     \everyvbox{}%
18707     \@RTLfalse
18708     \bgroup
18709     \aftergroup\egroup
18710   }\vbox}
18711 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18712 \def\endLTR{\par}
18713 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18714 \def\endRTL{\par}
18715 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18716 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}

```



```

18717 \let\unsetRTL=\setLTR
18718 \let\unsetLTR=\setRTL
18719 \let\LR=\LRE
18720 \let\RL=\RLE
18721 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18722 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18723 \let\@ensure@RL=\@ensure@RTL
18724 \let\@ensure@LR=\@ensure@LTR
18725 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18726 \let\@ensure@maindir=\@ensure@dir
18727 \def\@RTL{RTL}
18728 \def\@LTR{LTR}
18729 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18730 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18731 \let\@TeX\TeX
18732 \def\TeX{\@ensure@LTR{\@TeX}}
18733 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi}
18734 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
18735 \ifvoid\footins\else % footnote info is present
18736 \vskip\skip\footins
18737 \footnoterule
18738 \unvbox\footins\fi
18739 \if@eggedbottom \kern-\dimen@ \vfil \fi
18740 \ifvoid\@bidi@copyins@
18741 \else
18742 \vskip\skip\@bidi@copyins@
18743 \unvbox\@bidi@copyins@
18744 \fi
18745 }
18746 \long\def\bidi@reflect@box#1{%
18747 \leavevmode
18748 \setbox\z@\hbox{#1}%
18749 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18750 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18751 }
18752 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
18753 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
18754 \let\setRL=\setRTL
18755 \let\setLR=\setLTR
18756 \let\unsetRL=\setLTR
18757 \let\bidi@samed@eqno=\eqno
18758 \let\bidi@samed@leqno=\leqno
18759 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@samed@leqno \else \bidi@samed@eqno \fi}
18760 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@samed@eqno \else \bidi@samed@leqno \fi}
18761 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18762 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18763 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

134 File pstricks-xetex-bidi.def

```

18764 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
18765 \bidi@patchcmd\pspicture\beginRgroup{%
18766 \beginRgroup
18767 \ifmmode

```




```

18768 \else
18769 \RTLfalse
18770 \beginL
18771 \fi
18772 }{\bidi@warningnoline{Oops! patching '\string\pspicture' failed}}
18773
18774 \bidi@patchcmd\endpspicture{%
18775 \endgroup
18776 \psset[pstricks]{shift=0}% reset value
18777 }{%
18778 \ifmmode
18779 \else
18780 \endL
18781 \fi
18782 \endgroup
18783 \psset[pstricks]{shift=0}% reset value
18784 }{\bidi@warningnoline{Oops! patching '\string\endpspicture' failed}}
18785
18786 \bidi@patchcmd\@@scalebox{%
18787 \special{x: bscale \pst@tempc \pst@tempd}%
18788 \hbox to \z@\box\pst@hbox\hss}%
18789 \special{x: escale}%
18790 }{%
18791 \ifRTL
18792 \special{x: escale}%
18793 \else
18794 \special{x: bscale \pst@tempc \pst@tempd}%
18795 \fi
18796 \hbox to \z@\box\pst@hbox\hss}%
18797 \ifRTL
18798 \special{x: bscale \pst@tempc \pst@tempd}%
18799 \else
18800 \special{x: escale}%
18801 \fi
18802 }{\bidi@warningnoline{Oops! patching '\string\@@scalebox' failed}}
18803 \let\ps@@scalebox\@@scalebox
18804

```

135 File quotchap-xetex-bidi.def

```

18805 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18806 \renewcommand{\qauthor}[1]{%
18807 \par\smallskip
18808 {\ifRTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
18809 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18810 {\size@chapter{\sectfont\ifRTL\raggedright\else\raggedleft\fi
18811 {\chapnumfont
18812 \ifnum \c@secnumdepth >\m@ne%
18813 \if@mainmatter\thechapter%
18814 \fi\fi
18815 \par\nobreak}%
18816 {\ifRTL\raggedright\else\raggedleft\fi\advance\ifRTL\rightmargin\else\leftmargin\fi
18817 \nobreak\chapterheadendvskip}}
18818 \renewcommand*{\@iprintcites}{%

```



```

18819 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18820 \global\let\@printcites\relax}

```

136 File ragged2e-xetex-bidi.def

```

18821 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e packag
18822 \renewcommand{\Centering}{%
18823   \ifx\\@raggedtwoe@savedcr
18824     \let\\@centercr
18825   \fi
18826   \let\@gnewline\@raggedtwoe@gnewline
18827   \if@RTL\righskip\else\leftskip\fi\CenteringLeftskip
18828   \@rightskip\CenteringRightskip
18829   \if@RTL\leftskip\else\righskip\fi\@rightskip
18830   \parfillskip\CenteringParfillskip
18831   \parindent\CenteringParindent
18832   \@raggedtwoe@spaceskiptrue
18833   \@raggedtwoe@everyselectfont
18834 }
18835 \renewcommand{\RaggedLeft}{%
18836   \ifx\\@raggedtwoe@savedcr
18837     \let\\@centercr
18838   \fi
18839   \let\@gnewline\@raggedtwoe@gnewline
18840   \if@RTL\righskip\else\leftskip\fi\RaggedLeftLeftskip
18841   \@rightskip\RaggedLeftRightskip
18842   \if@RTL\leftskip\else\righskip\fi\@rightskip
18843   \parfillskip\RaggedLeftParfillskip
18844   \parindent\RaggedLeftParindent
18845   \@raggedtwoe@spaceskiptrue
18846   \@raggedtwoe@everyselectfont
18847 }
18848 \renewcommand{\RaggedRight}{%
18849   \ifx\\@raggedtwoe@savedcr
18850     \let\\@centercr
18851   \fi
18852   \let\@gnewline\@raggedtwoe@gnewline
18853   \if@RTL\righskip\else\leftskip\fi\RaggedRightLeftskip
18854   \@rightskip\RaggedRightRightskip
18855   \if@RTL\leftskip\else\righskip\fi\@rightskip
18856   \parfillskip\RaggedRightParfillskip
18857   \parindent\RaggedRightParindent
18858   \@raggedtwoe@spaceskiptrue
18859   \@raggedtwoe@everyselectfont
18860 }
18861 \renewcommand{\justifying}{%
18862   \let\\@raggedtwoe@savedcr
18863   \let\@gnewline\@raggedtwoe@saved@gnewline
18864   \if@RTL\righskip\else\leftskip\fi\z@
18865   \@rightskip\z@
18866   \if@RTL\leftskip\else\righskip\fi\@rightskip
18867   \parfillskip\JustifyingParfillskip
18868   \parindent\JustifyingParindent
18869   \@raggedtwoe@spaceskipfalse

```



```

18870 \@raggedtwoe@everyselectfont
18871 }
18872 \def\@raggedtwoe@raggedrightboxes@opt{%
18873 \renewcommand{\@arrayparboxrestore}{%
18874 \let\if@nobreak\iffalse
18875 \let\if@noskipsec\iffalse
18876 \let\par\@par
18877 \let\-\@dischyph
18878 \let'\@acci\let'\@accii\let\=\@acciii
18879 \parskip\z@skip
18880 \everypar{}%
18881 \linewidth\hsize
18882 \@totalleftmargin\z@
18883 \if@RTL
18884 \RaggedLeft
18885 \else
18886 \RaggedRight
18887 \fi
18888 \lineskip\normallineskip
18889 \baselineskip\normalbaselineskip
18890 \sloppy}%
18891 \let\@raggedtwoe@raggedrightboxes@opt\relax
18892 }
18893 \def\@raggedtwoe@document@opt{%
18894 \AtBeginDocument{\@raggedtwoe@abdhook}%
18895 \@raggedtwoe@raggedrightboxes@opt
18896 \@raggedtwoe@footmisctrue
18897 \let\@raggedtwoe@document@opt\relax
18898 }
18899 \def\@raggedtwoe@abdhook{%
18900 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18901 right to left documents and '\string\RaggedRight' for left
18902 to right documents}%
18903 \if@RTL
18904 \RaggedLeft
18905 \else
18906 \RaggedRight
18907 \fi
18908 \@ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18909 \let\@raggedtwoe@abdhook\relax
18910 }
18911 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18912 \@raggedtwoe@raggedrightboxes@opt
18913 }{}
18914 \@ifpackagewith{ragged2e}{document}{%
18915 \@raggedtwoe@document@opt
18916 }{}
18917 \let\origin@RaggedLeft=\RaggedLeft
18918 \let\origin@RaggedRight=\RaggedRight
18919 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18920 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

137 File rapport1-xetex-bidi.def



```

18921 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class
18922 \renewenvironment{theindex}{%
18923   \if@twocolumn
18924     \@restonecolfalse
18925   \else
18926     \@restonecoltrue
18927   \fi
18928   \columnseprule \z@
18929   \columnsep 35\p@
18930   \twocolumn[\@makeschapterhead{\indexname}]{%
18931     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18932     \thispagestyle{plain}\parindent\z@
18933     \parskip\z@ \@plus .3\p@\relax
18934     \let\item\@idxitem
18935   }{%
18936     \if@restonecol\onecolumn\else\clearpage\fi}
18937 \renewcommand*{\head@style}{%
18938   \interlinepenalty \@M
18939   \hyphenpenalty=\@M \exhyphenpenalty=\@M
18940   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18941 \if@titlepage
18942   \renewenvironment{abstract}{%
18943     \titlepage
18944     \null\vfil
18945     \section*{\SectFont\abstractname}%
18946     \noindent\ignorespaces
18947     {\par\vfil\null\endtitlepage}
18948 \else
18949   \renewenvironment{abstract}{%
18950     \if@twocolumn
18951       \section*{\abstractname}%
18952     \else
18953       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18954       \section*{\small\SectFont\abstractname}%
18955       \noindent\ignorespaces
18956     \fi}
18957     {\if@twocolumn\else\par\egroup\fi}
18958 \fi
18959 \renewcommand*{\@regtocline}[3]{%
18960   \ifnum #1>\c@tocdepth
18961   \else
18962     \vskip\z@ \@plus .2\p@
18963     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18964     \if@RTL\rightskip\else\leftskip\fi\unitindent
18965     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18966     \parfillskip\z@
18967     \@tempdima\unitindent
18968     \parindent\z@
18969     \leavevmode
18970     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18971     \hskip 1em \nobreak{\slshape #3}\par
18972   }%
18973   \fi}
18974 \if@oldtoc

```



```

18975 \renewcommand*\l@part[2]{%
18976   \ifnum \c@tocdepth >-2\relax
18977     \addpenalty{-\@highpenalty}%
18978     \addvspace{2.25em \@plus\p@}%
18979     \begingroup
18980       \setlength\@tempdima{3em}%
18981       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18982       \parfillskip -\@pnumwidth
18983       {\leavevmode
18984         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18985         \nobreak
18986         \global\@nobreaktrue
18987         \everypar{\global\@nobreakfalse\everypar{}}%
18988       \endgroup
18989   \fi}
18990 \else
18991   \renewcommand*\l@part{%
18992     \ifnum \c@tocdepth >-2\relax
18993       \addpenalty{-\@highpenalty}%
18994       \addvspace{2.25em \@plus \p@}%
18995       \@regtocline{0}%
18996     \fi}
18997 \fi
18998 \if@oldtoc
18999 \renewcommand*\l@chapter[2]{%
19000   \addpenalty{-\@highpenalty}%
19001   \vskip 1.0em \@plus\p@
19002   \setlength\@tempdima{1.5em}%
19003   \begingroup
19004     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19005     \parfillskip -\@pnumwidth
19006     \leavevmode \bfseries
19007     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19008     \hskip -\if@RTL\rightskip\else\leftskip\fi
19009     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19010     \penalty\@highpenalty
19011   \endgroup}
19012 \else
19013   \renewcommand*\l@chapter{\@regtocline{0}}
19014 \fi
19015 \renewcommand*\left@footnoterule{%
19016   \kern-3\p@
19017   \kern.5\baselineskip
19018   \hrule\@width\unitindent
19019   \kern.4\baselineskip
19020 }
19021 \renewcommand*\right@footnoterule{%
19022   \kern-3\p@
19023   \kern.5\baselineskip
19024   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19025   \kern.4\baselineskip}
19026 \renewenvironment{thebibliography}[1]
19027   {\chapter*{\bibname}%
19028     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%

```



```

19029 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19030 \bidi@thebibliography@font@hook%
19031 \list{\@biblabel{\@arabic\c@enumiv}}%
19032 {\settowidth\labelwidth{\@biblabel{#1}}%
19033 \leftmargin\labelwidth
19034 \advance\leftmargin\labelsep
19035 \@openbib@code
19036 \usecounter{enumiv}%
19037 \let\p@enumiv\@empty
19038 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19039 \sloppy\clubpenalty4000\widowpenalty4000%
19040 \sfcode`. \m}
19041 {\def\@noitemerr
19042 {\@latex@warning{Empty `thebibliography' environment}}%
19043 \endlist}
19044 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19045 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
19046 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
19047 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
19048 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
19049 \renewcommand*\theequation{%
19050 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19051 \renewcommand*\thefigure{%
19052 \ifnum\c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19053 \renewcommand*\thetable{%
19054 \ifnum\c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@table}
19055 \if@titlepage
19056 \renewcommand*\TitleFont{\rmfamily}
19057 \renewcommand*\maketitle{%
19058 \begin{titlepage}%
19059 \let\footnotesize\small
19060 \let\right@footnoterule\relax
19061 \let\left@footnoterule\relax
19062 \let\textwidth\footnoterule\relax
19063 \let \footnote \thanks
19064 \long\def\@makefnmark##1{\parindent\z@
19065 \def\labelitemi{\textendash}\@revlabeltrue
19066 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19067 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19068 \if@compatibility\setcounter{page}{0}\fi
19069 \null\vfil
19070 \vskip 60\p@
19071 \begin{center}%
19072 \TitleFont
19073 {\LARGE \def\\{\penalty -\@M}
19074 \if@allcaps
19075 \expandafter\uc@nothanks\@title\thanks\relax
19076 \else
19077 \@title
19078 \fi\par}%
19079 \vskip 3em%
19080 {\large
19081 \lineskip .75em \parindent\z@
19082 \begin{tabular}[t]{c}%

```



```

19083         \if@allcaps
19084             \expandafter\uc@authornothanks\@author\and\relax
19085         \else
19086             \@author
19087         \fi
19088     \end{tabular}\par}%
19089 \vskip 1.5em%
19090 {\large
19091     \if@allcaps
19092         \uppercase\expandafter{\@date}%
19093     \else
19094         \@date
19095     \fi\par}%
19096 \end{center}\par
19097 \@thanks
19098 \vfil\null
19099 \end{titlepage}%
19100 \setcounter{footnote}{0}%
19101 \global\let\thanks\relax
19102 \global\let\maketitle\relax
19103 \global\let\@thanks\@empty
19104 \global\let\@author\@empty
19105 \global\let\@title\@empty
19106 \global\let\@date\@empty
19107 \global\let\title\relax
19108 \global\let\author\relax
19109 \global\let\date\relax
19110 \global\let\and\relax
19111 }
19112 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19113 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19114     \futurelet\@tempa\uc@ax}
19115 \def\uc@ax{%
19116     \ifx\@tempa\relax
19117     \else
19118         \\\andname \\\expandafter\uc@authornothanks
19119     \fi}
19120 \def\uc@tx{\ifx\@tempa\relax
19121     \else \expandafter\uc@ty \fi}
19122 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19123 \else
19124 \renewcommand*\maketitle{\par
19125     \begin{group}
19126         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19127         \def\@makefnmark{\rlap{%
19128             \@textsuperscript{\normalfont\@thefnmark}}}%
19129         \long\def\@makefntext{\@xmakefntext{%
19130             \@textsuperscript{\normalfont\@thefnmark}}}%
19131         \if@twocolumn
19132             \ifnum \col@number=\@ne
19133                 \@maketitle
19134             \else
19135                 \twocolumn[\@maketitle]%
19136             \fi

```



```

19137 \else
19138 \newpage
19139 \global\@topnum\z@
19140 \@maketitle
19141 \fi
19142 \thispagestyle{plain}\@thanks
19143 \endgroup
19144 \setcounter{footnote}{0}%
19145 \global\let\thanks\relax
19146 \global\let\maketitle\relax
19147 \global\let\@maketitle\relax
19148 \global\let\@thanks\@empty
19149 \global\let\@author\@empty
19150 \global\let\@title\@empty
19151 \global\let\@date\@empty
19152 \global\let\title\relax
19153 \global\let\author\relax
19154 \global\let\date\relax
19155 \global\let\and\relax
19156 }
19157 \def\@maketitle{%
19158 \newpage
19159 \null
19160 \vskip 2em%
19161 \begin{center}%
19162 \let \footnote \thanks
19163 {\LARGE \TitleFont \@title \par}%
19164 \vskip 1.5em%
19165 {\large \TitleFont
19166 \lineskip .5em%
19167 \begin{tabular}[t]{c}%
19168 \@author
19169 \end{tabular}\par}%
19170 \vskip 1em%
19171 {\large \TitleFont \@date}%
19172 \end{center}%
19173 \par
19174 \vskip 1.5em}
19175 \fi

```

138 File rapport3-xetex-bidi.def

```

19176 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class]
19177 \renewenvironment{theindex}{%
19178 \if@twocolumn
19179 \@restonecolfalse
19180 \else
19181 \@restonecoltrue
19182 \fi
19183 \columnseprule \z@
19184 \columnsep 35\p@
19185 \twocolumn[\@makeschapterhead{\indexname}]{%
19186 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
19187 \thispagestyle{plain}\parindent\z@

```




```

19188 \parskip\z@ \@plus .3\p@\relax
19189 \let\item\@idxitem
19190 }{%
19191 \if@restonecol\onecolumn\else\clearpage\fi}
19192 \if@titlepage
19193 \renewcommand*\TitleFont{\rmfamily}
19194 \renewcommand*\maketitle{%
19195 \begin{titlepage}%
19196 \let\footnotesize\small
19197 \let\right@footnoterule\relax
19198 \let\left@footnoterule\relax
19199 \let\textwidth\footnoterule\relax
19200 \let \footnote \thanks
19201 \let \LTRfootnote \LTRthanks
19202 \let \RTLfootnote \RTLthanks
19203 \long\def\@makefnmark##1{\parindent\z@
19204 \def\labelitemi{\textendash}\@revlabeltrue
19205 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19206 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19207 \if@compatibility\setcounter{page}{0}\fi
19208 \null\vfil
19209 \vskip 60\p@
19210 \begin{center}%
19211 \TitleFont
19212 {\LARGE \def\\{\penalty -\@M}
19213 \if@allcaps
19214 \expandafter\uc@nothanks\@title\thanks\relax
19215 \else
19216 \@title
19217 \fi\par}%
19218 \vskip 3em%
19219 {\large
19220 \lineskip .75em \parindent\z@
19221 \begin{tabular}[t]{c}%
19222 \if@allcaps
19223 \expandafter\uc@authornothanks\@author\and\relax
19224 \else
19225 \@author
19226 \fi
19227 \end{tabular}\par}%
19228 \vskip 1.5em%
19229 {\large
19230 \if@allcaps
19231 \uppercase\expandafter{\@date}%
19232 \else
19233 \@date
19234 \fi\par}%
19235 \end{center}\par
19236 \@thanks
19237 \vfil\null
19238 \end{titlepage}%
19239 \setcounter{footnote}{0}%
19240 \global\let\thanks\relax
19241 \global\let\LTRthanks\relax

```



```

19242 \global\let\RTLthanks\relax
19243 \global\let\maketitle\relax
19244 \global\let\@thanks\@empty
19245 \global\let\@author\@empty
19246 \global\let\@title\@empty
19247 \global\let\@date\@empty
19248 \global\let\title\relax
19249 \global\let\author\relax
19250 \global\let\date\relax
19251 \global\let\and\relax
19252 }
19253 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19254 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19255 \futurelet\@tempa\uc@ax}
19256 \def\uc@ax{%
19257 \ifx\@tempa\relax
19258 \else
19259 \\\andname \\\expandafter\uc@authornothanks
19260 \fi}
19261 \def\uc@tx{\ifx\@tempa\relax
19262 \else \expandafter\uc@ty \fi}
19263 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19264 \else
19265 \renewcommand*\maketitle{\par
19266 \begingroup
19267 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19268 \def\@makefnmark{\rlap{%
19269 \@textsuperscript{\normalfont\@thefnmark}}}%
19270 \long\def\@makefntext{\@xmakefntext{%
19271 \@textsuperscript{\normalfont\@thefnmark}}}%
19272 \if@twocolumn
19273 \ifnum \col@number=\@one
19274 \@maketitle
19275 \else
19276 \twocolumn[\@maketitle]%
19277 \fi
19278 \else
19279 \newpage
19280 \global\@topnum\z@
19281 \@maketitle
19282 \fi
19283 \thispagestyle{plain}\@thanks
19284 \endgroup
19285 \setcounter{footnote}{0}%
19286 \global\let\thanks\relax
19287 \global\let\LTRthanks\relax
19288 \global\let\RTLthanks\relax
19289 \global\let\maketitle\relax
19290 \global\let\@maketitle\relax
19291 \global\let\@thanks\@empty
19292 \global\let\@author\@empty
19293 \global\let\@title\@empty
19294 \global\let\@date\@empty
19295 \global\let\title\relax

```



```

19296 \global\let\author\relax
19297 \global\let\date\relax
19298 \global\let\and\relax
19299 }
19300 \def\@maketitle{%
19301 \newpage
19302 \null
19303 \vskip 2em%
19304 \if@titlecentered
19305 \begin{center}%
19306 \let \footnote \thanks
19307 \let \LTRfootnote \LTRthanks
19308 \let \RTLfootnote \RTLthanks
19309 {\LARGE \TitleFont \@title \par}%
19310 \vskip 1.5em%
19311 {\large \TitleFont
19312 \lineskip .5em%
19313 \begin{tabular}[t]{c}%
19314 \@author
19315 \end{tabular}\par}%
19316 \vskip 1em%
19317 {\large \TitleFont \@date}%
19318 \end{center}%
19319 \else
19320 {\LARGE \TitleFont \headstyle \@title \par} \vskip 1.5em
19321 {\large \TitleFont \lineskip .5em \tabcolsep\z@
19322 \def\and{%% \begin{tabular} has already started
19323 \end{tabular}\hskip 1em plus .17fil
19324 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
19325 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
19326 \vskip 1em {\large \TitleFont \@date}
19327 \fi
19328 \par
19329 \vskip 1.5em}
19330 \fi
19331 \renewcommand*\@regtocline[3]{%
19332 \ifnum #1>\c@tocdepth
19333 \else
19334 \vskip\z@\@plus.2\p@
19335 {\hangindent\z@ \@afterindenttrue \interlinepenalty\M
19336 \if@RTL\righskip\else\leftskip\fi\unitindent
19337 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19338 \parfillskip\z@
19339 \@tempdima\unitindent
19340 \parindent\z@
19341 \leavevmode
19342 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
19343 \hskip 1em \nobreak{\slshape #3}\par
19344 }%
19345 \fi}
19346 \if@oldtoc
19347 \renewcommand*\l@part[2]{%
19348 \ifnum \c@tocdepth >-2\relax
19349 \addpenalty{-\@highpenalty}%

```



```

19350 \addvspace{2.25em \@plus\p@}%
19351 \begingroup
19352 \setlength\@tempdima{3em}%
19353 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19354 \parfillskip -\@pnumwidth
19355 {\leavevmode
19356 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19357 \nobreak
19358 \global\@nobreaktrue
19359 \everypar{\global\@nobreakfalse\everypar{}}%
19360 \endgroup
19361 \fi}
19362 \else
19363 \renewcommand*\l@part{%
19364 \ifnum \c@tocdepth >-2\relax
19365 \addpenalty{-\@highpenalty}%
19366 \addvspace{2.25em \@plus \p@}%
19367 \@regtocline{0}%
19368 \fi}
19369 \fi
19370 \if@oldtoc
19371 \renewcommand*\l@chapter[2]{%
19372 \addpenalty{-\@highpenalty}%
19373 \vskip 1.0em \@plus\p@
19374 \setlength\@tempdima{1.5em}%
19375 \begingroup
19376 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19377 \parfillskip -\@pnumwidth
19378 \leavevmode \bfseries
19379 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19380 \hskip -\if@RTL\rightskip\else\leftskip\fi
19381 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19382 \penalty\@highpenalty
19383 \endgroup}
19384 \else
19385 \renewcommand*\l@chapter{\@regtocline{0}}
19386 \fi
19387 \renewcommand*\head@style{%
19388 \interlinepenalty \@M
19389 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19390 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19391 \if@titlepage
19392 \renewenvironment{abstract}{%
19393 \titlepage
19394 \null\vfil
19395 \section*\SectFont\abstractname}%
19396 \noindent\ignorespaces
19397 {\par\vfil\null\endtitlepage}
19398 \else
19399 \renewenvironment{abstract}{%
19400 \if@twocolumn
19401 \section*\abstractname}%
19402 \else
19403 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent

```



```

19404 \section*{\small\SectFont\abstractname}%
19405 \noindent\ignorespaces
19406 \fi}
19407 {\if@twocolumn\else\par\egroup\fi}
19408 \fi
19409 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19410 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19411 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19412 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19413 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19414 \renewcommand*\thefigure{%
19415 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19416 \renewcommand*\thetable{%
19417 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19418 \renewcommand*\theequation{%
19419 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19420 \renewenvironment{thebibliography}[1]
19421 {\chapter*{\bibname}%
19422 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19423 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19424 \bidi@thebibliography@font@hook%
19425 \list{\@biblabel{\@arabic\c@enumiv}}%
19426 {\settowidth\labelwidth{\@biblabel{#1}}%
19427 \leftmargin\labelwidth
19428 \advance\leftmargin\labelsep
19429 \openbib@code
19430 \usecounter{enumiv}%
19431 \let\p@enumiv\empty
19432 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19433 \sloppy\clubpenalty4000\widowpenalty4000%
19434 \sfcode\.\@m}
19435 {\def\@noitemerr
19436 {\@latex@warning{Empty `thebibliography' environment}}%
19437 \endlist}
19438 \renewcommand*\left@footnoterule{%
19439 \kern-3\p@
19440 \kern.5\baselineskip
19441 \hrule\@width\unitindent
19442 \kern.4\baselineskip
19443 }
19444 \renewcommand*\right@footnoterule{%
19445 \kern-3\p@
19446 \kern.5\baselineskip
19447 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19448 \kern.4\baselineskip}
19449 \renewcommand*\head@style{%
19450 \interlinepenalty \@M
19451 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19452 \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

139 File refrep-xetex-bidi.def

```

19453 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for
19454 \if@titlepage

```



```

19455 \renewcommand\maketitle{\begin{titlepage}%
19456 \let\footnotesize\small
19457 \let\right@footnoterule\relax
19458 \let\left@footnoterule\relax
19459 \let\textwidth@footnoterule\relax
19460 \let\footnote\thanks
19461 \let\LTRfootnote\LTRthanks
19462 \let\RTLfootnote\RTLthanks
19463 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19464 \def\@makefnmark%
19465     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19466 \long\def\@makefnmark##1{%
19467     \setpar{\@par
19468         \@tempdima = \hsize
19469         \advance\@tempdima -1em
19470         \parshape \@ne 1em \@tempdima}%
19471     \par\parindent 1em \noindent
19472     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19473 \null\vfil
19474 \vskip 60\p@
19475 \begin{center}%
19476     {\LARGE \@title \par}%
19477     \vskip 3em%
19478     {\large
19479         \lineskip .75em%
19480         \begin{tabular}[t]{c}%
19481             \@author
19482         \end{tabular}\par}%
19483     \vskip 1.5em%
19484     {\large \@date \par}%           % Set date in \large size.
19485 \end{center}\par
19486 \@thanks
19487 \vfil\null
19488 \end{titlepage}%
19489 \setcounter{footnote}{0}%
19490 \global\let\thanks\relax
19491 \global\let\LTRthanks\relax
19492 \global\let\RTLthanks\relax
19493 \global\let\maketitle\relax
19494 \global\let\@thanks\@empty
19495 \global\let\@author\@empty
19496 \global\let\@date\@empty
19497 \global\let\@title\@empty
19498 \global\let\title\relax
19499 \global\let\author\relax
19500 \global\let\date\relax
19501 \global\let\and\relax
19502 }
19503 \else
19504 \renewcommand\maketitle{\par
19505     \begingroup
19506         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19507         \def\@makefnmark%
19508             {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

19509 \long\def\@makefntext##1{%
19510 \setpar{\@par
19511 \@tempdima = \hspace
19512 \advance\@tempdima -1em
19513 \parshape \@ne 1em \@tempdima}%
19514 \par\parindent 1em \noindent
19515 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19516 \if@twocolumn
19517 \ifnum \col@number=\@ne
19518 \maketitle
19519 \else
19520 \twocolumn[\maketitle]%
19521 \fi
19522 \else
19523 \newpage
19524 \global\@topnum\z@ % Prevents figures from going at top of page.
19525 \maketitle
19526 \fi
19527 \thispagestyle{empty}\@thanks
19528 \endgroup
19529 \setcounter{footnote}{0}%
19530 \global\let\thanks\relax
19531 \global\let\LTRthanks\relax
19532 \global\let\RTLthanks\relax
19533 \global\let\maketitle\relax
19534 \global\let\@maketitle\relax
19535 \global\let\@thanks\empty
19536 \global\let\@author\empty
19537 \global\let\@date\empty
19538 \global\let\@title\empty
19539 \global\let\title\relax
19540 \global\let\author\relax
19541 \global\let\date\relax
19542 \global\let\and\relax
19543 }
19544 \def\@maketitle{%
19545 \newpage
19546 \null
19547 \longthickrule\vskip1.5em%
19548 \let \footnote \thanks
19549 \let \LTRfootnote \LTRthanks
19550 \let \RTLfootnote \RTLthanks
19551 {\secshape \parskip\z@ \parindent\z@
19552 \Large\bfseries \@title \par}%
19553 \vskip1.5em\longthickrule\vskip1.5em%
19554 {\normalsize
19555 \lineskip .5em%
19556 \begin{flushright}%
19557 {\slshape\@author\par}
19558 \vskip 1em%
19559 {\@date}%
19560 \end{flushright}\par}%
19561 \vskip 1.5em}
19562 \fi

```



```

19563 \renewcommand*\l@part[2]{%
19564   \ifnum \c@tocdepth >-2\relax
19565     \addpenalty{-\@highpenalty}%
19566     \addvspace{2.25em \@plus\p@}%
19567     \begingroup
19568       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19569       \parfillskip -\@pnumwidth
19570       {\leavevmode
19571         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19572         \nobreak
19573         \global\@nobreaktrue
19574         \everypar{\global\@nobreakfalse\everypar{}}%
19575       \endgroup
19576   \fi}
19577 \renewcommand*\l@chapter[2]{%
19578   \ifnum \c@tocdepth >\m@ne
19579     \addpenalty{-\@highpenalty}%
19580     \vskip 1.0em \@plus\p@
19581     \setlength\@tempdima{1.5em}%
19582     \begingroup
19583       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19584       \parfillskip -\@pnumwidth
19585       \leavevmode \bfseries
19586       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19587       \hskip -\if@RTL\rightskip\else\leftskip\fi
19588       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19589       \penalty\@highpenalty
19590     \endgroup
19591   \fi}
19592 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19593   \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19594   \hyphenpenalty=2000}
19595 \renewcommand\left@footnoterule{%
19596   \kern-3\p@
19597   \hrule\@width.4\columnwidth
19598   \kern 2.6\p@}
19599 \renewcommand\right@footnoterule{%
19600   \kern-3\p@
19601   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19602   \kern2.6\p@}
19603 \renewcommand\theequation
19604 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19605 \renewcommand\thefigure
19606 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19607 \renewcommand\thetable%
19608 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19609 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19610 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19611 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19612 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19613 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19614 \renewenvironment{thebibliography}[1]
19615 {\chapter*{\bibname
19616   \@mkboth{\bibname}{\bibname}}}%

```




```

19617 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19618 \bidi@thebibliography@font@hook%
19619 \list{\@biblabel{\@arabic\c@enumiv}}%
19620 {\settowidth\labelwidth{\@biblabel{#1}}%
19621 \leftmargin\labelwidth
19622 \advance\leftmargin\labelsep
19623 \@openbib@code
19624 \usecounter{enumiv}%
19625 \let\p@enumiv\@empty
19626 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19627 \sloppy
19628 \clubpenalty4000
19629 \@clubpenalty \clubpenalty
19630 \widowpenalty4000%
19631 \sfcode\.\@m}
19632 {\def\@noitemerr
19633 {\@latex@warning{Empty `thebibliography' environment}}%
19634 \endlist}

```

140 File report-xetex-bidi.def

```

19635 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report c
19636 \renewenvironment{theindex}
19637 {\if@twocolumn
19638 \@restonecolfalse
19639 \else
19640 \@restonecoltrue
19641 \fi
19642 \columnseprule \z@
19643 \columnsep 35\p@
19644 \twocolumn[\@makeschapterhead{\indexname}]}%
19645 \@mkboth{\MakeUppercase\indexname}%
19646 {\MakeUppercase\indexname}%
19647 \thispagestyle{plain}\parindent\z@
19648 \parskip\z@ \@plus .3\p@\relax
19649 \let\item\@idxitem}
19650 {\if@restonecol\onecolumn\else\clearpage\fi}
19651 \if@titlepage
19652 \renewcommand\maketitle{\begin{titlepage}%
19653 \let\footnotesize\small
19654 \let\right@footnoterule\relax
19655 \let\left@footnoterule\relax
19656 \let\textwidth\footnoterule\relax
19657 \let \footnote \thanks
19658 \let \LTRfootnote \LTRthanks
19659 \let \RTLfootnote \RTLthanks
19660 \null\vfil
19661 \vskip 60\p@
19662 \begin{center}%
19663 {\LARGE \@title \par}%
19664 \vskip 3em%
19665 {\large
19666 \lineskip .75em%
19667 \begin{tabular}[t]{c}%

```



```

19668         \@author
19669         \end{tabular}\par}%
19670         \vskip 1.5em%
19671         {\large \@date \par}%           % Set date in \large size.
19672     \end{center}\par
19673     \@thanks
19674     \vfil\null
19675     \end{titlepage}%
19676     \setcounter{footnote}{0}%
19677     \global\let\thanks\relax
19678     \global\let\LTRthanks\relax
19679     \global\let\RTLthanks\relax
19680     \global\let\maketitle\relax
19681     \global\let\@thanks\@empty
19682     \global\let\@author\@empty
19683     \global\let\@date\@empty
19684     \global\let\@title\@empty
19685     \global\let\title\relax
19686     \global\let\author\relax
19687     \global\let\date\relax
19688     \global\let\and\relax
19689 }
19690 \else
19691 \renewcommand\maketitle{\par
19692     \begingroup
19693         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19694         \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19695         \long\def\@makefntext##1{\parindent 1em\noindent
19696             \hb@xt@1.8em{%
19697                 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19698         \if@twocolumn
19699             \ifnum \col@number=\@one
19700                 \@maketitle
19701             \else
19702                 \twocolumn[\@maketitle]%
19703             \fi
19704         \else
19705             \newpage
19706             \global\@topnum\z@    % Prevents figures from going at top of page.
19707             \@maketitle
19708         \fi
19709         \thispagestyle{plain}\@thanks
19710     \endgroup
19711     \setcounter{footnote}{0}%
19712     \global\let\thanks\relax
19713     \global\let\LTRthanks\relax
19714     \global\let\RTLthanks\relax
19715     \global\let\maketitle\relax
19716     \global\let\@maketitle\relax
19717     \global\let\@thanks\@empty
19718     \global\let\@author\@empty
19719     \global\let\@date\@empty
19720     \global\let\@title\@empty
19721     \global\let\title\relax

```



```

19722 \global\let\author\relax
19723 \global\let\date\relax
19724 \global\let\and\relax
19725 }
19726 \def\@maketitle{%
19727 \newpage
19728 \null
19729 \vskip 2em%
19730 \begin{center}%
19731 \let \footnote \thanks
19732 \let \LTRfootnote \LTRthanks
19733 \let \RTLfootnote \RTLthanks
19734 {\LARGE \@title \par}%
19735 \vskip 1.5em%
19736 {\large
19737 \lineskip .5em%
19738 \begin{tabular}[t]{c}%
19739 \@author
19740 \end{tabular}\par}%
19741 \vskip 1em%
19742 {\large \@date}%
19743 \end{center}%
19744 \par
19745 \vskip 1.5em}
19746 \fi
19747 \IfPackageLoadedF{tocloft}{%
19748 \renewcommand*\l@part[2]{%
19749 \ifnum \c@tocdepth >-2\relax
19750 \addpenalty{-\@highpenalty}%
19751 \addvspace{2.25em \@plus\p@}%
19752 \setlength\@tempdima{3em}%
19753 \begingroup
19754 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19755 \parfillskip -\@pnumwidth
19756 {\leavevmode
19757 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19758 \nobreak
19759 \global\@nobreaktrue
19760 \everypar{\global\@nobreakfalse\everypar{}}%
19761 \endgroup
19762 \fi}
19763 \renewcommand*\l@chapter[2]{%
19764 \ifnum \c@tocdepth >\m@ne
19765 \addpenalty{-\@highpenalty}%
19766 \vskip 1.0em \@plus\p@
19767 \setlength\@tempdima{1.5em}%
19768 \begingroup
19769 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19770 \parfillskip -\@pnumwidth
19771 \leavevmode \bfseries
19772 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
19773 \hskip -\if@RTL\rightskip\else\leftskip\fi
19774 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19775 \penalty\@highpenalty

```



```

19776 \endgroup
19777 \fi}
19778 }
19779 \renewcommand\left@footnoterule{%
19780 \kern-3\p@
19781 \hrule\@width.4\columnwidth
19782 \kern2.6\p@}
19783 \renewcommand\right@footnoterule{%
19784 \kern-3\p@
19785 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19786 \kern2.6\p@}
19787 \renewcommand\theequation
19788 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19789 \renewcommand \thefigure
19790 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19791 \renewcommand \thetable
19792 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19793 \renewcommand \thechapter {\@arabic\c@chapter}
19794 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19795 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19796 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
19797 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19798 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19799 \def\@makechapterhead#1{%
19800 \vspace*{50\p@}%
19801 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19802 \ifnum \c@secnumdepth >\m@ne
19803 \huge\bfseries \@chapapp\space \thechapter
19804 \par\nobreak
19805 \vskip 20\p@
19806 \fi
19807 \interlinepenalty\@M
19808 \Huge \bfseries #1\par\nobreak
19809 \vskip 40\p@
19810 }}
19811 \def\@makeschapterhead#1{%
19812 \vspace*{50\p@}%
19813 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19814 \normalfont
19815 \interlinepenalty\@M
19816 \Huge \bfseries #1\par\nobreak
19817 \vskip 40\p@
19818 }}
19819 \IfPackageLoadedF{natbib}{%
19820 \renewenvironment{thebibliography}[1]
19821 {\chapter*{\bibname}%
19822 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19823 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19824 \bidi@thebibliography@font@hook%
19825 \list{\@biblabel{\@arabic\c@enumiv}}%
19826 {\settowidth\labelwidth{\@biblabel{#1}}%
19827 \leftmargin\labelwidth
19828 \advance\leftmargin\labelsep
19829 \@openbib@code

```



```

19830         \usecounter{enumiv}%
19831         \let\p@enumiv\@empty
19832         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
19833     \sloppy
19834     \clubpenalty4000
19835     \@clubpenalty \clubpenalty
19836     \widowpenalty4000%
19837     \sfcode`. \.\@m}
19838     {\def\@noitemerr
19839      {\@latex@warning{Empty `thebibliography' environment}}}%
19840     \endlist}
19841 }

```

141 File rotating-xetex-bidi.def

```

19842 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating packag
19843 \def\end@rotfloat{%
19844     \end{minipage}\end{lrbox}%
19845     \stepcounter{r@tfl@t}%
19846     \rot@label{RF\ther@tfl@t}%
19847     \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19848     \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19849     \rot@mess@toks\expandafter{\@tempa}
19850     \wd\rot@float@box\z@
19851     \ht\rot@float@box\z@
19852     \dp\rot@float@box\z@
19853     \vboxL to \textheight{%
19854         \setkeys{Grot}{units=360}%
19855         \if@rot@twoside
19856         \else
19857             \let\R@@page\rot@LR
19858         \fi
19859         \ifthenelse{\isodd{\R@@page}}{%
19860             \if@rot@twoside
19861                 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19862             \fi
19863             \vfill
19864             \@@line{%
19865                 \hskip\rotFPtop
19866                 \rotatebox{90}{\box\rot@float@box}%
19867                 \hskip\rotFPbot
19868             }%
19869         }{%
19870             \if@rot@twoside
19871                 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19872             \fi
19873             \@@line{%
19874                 \hskip\rotFPbot
19875                 \rotatebox{-90}{\box\rot@float@box}%
19876                 \hskip\rotFPtop
19877             }%
19878             \vfill
19879         }%
19880         \rot@message{\the\rot@mess@toks}

```



```

19881 }%
19882 \end@float
19883 }
19884 \let\endsidewaysfigure\end@rotfloat
19885 \let\endsidewaystable\end@rotfloat
19886 \def\end@rotdblfloat{%
19887   \end{minipage}\end{lrbox}%
19888   \stepcounter{r@tfl@t}%
19889   \rot@label{RF\ther@tfl@t}%
19890   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19891   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19892   \rot@mess@toks\expandafter{\@tempa}
19893   \@tempdima\ht\rot@float@box
19894   \advance\@tempdima by \dp\rot@float@box
19895   \wd\rot@float@box\z@
19896   \ht\rot@float@box\z@
19897   \dp\rot@float@box\z@
19898   \vboxL to \textheight{%
19899     \setkeys{Grot}{units=360}%
19900     \if@rot@twoside
19901     \else
19902       \let\R@@page\rot@LR
19903     \fi
19904     \ifthenelse{\isodd{\R@@page}}{%
19905       \ifrot@messages
19906         \if@rot@twoside
19907         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19908       \fi
19909       \fi
19910       \vfill
19911       \@@line{%
19912         \hskip\rotFPtop
19913         \rotatebox{90}{\box\rot@float@box}%
19914         \hskip\rotFPbot
19915       }%
19916     }{%
19917       \ifrot@messages
19918         \if@rot@twoside
19919         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19920       \fi
19921       \fi%
19922       \@@line{%
19923         \hskip\rotFPbot
19924         \rotatebox{-90}{\box\rot@float@box}%
19925         \hskip\rotFPtop
19926       }%
19927       \vfill
19928     }%
19929     \rot@message{\the\rot@mess@toks}%
19930   }%
19931   \end@dblfloat
19932 }
19933 \def\turn#1{%
19934   \Grot@setangle{#1}%

```



```

19935 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19936 \def\endturn{%
19937 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19938 \unskip\color@endbox
19939 \Grot@x\z@
19940 \Grot@y\z@
19941 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19942 }
19943 \def\rotate#1{%
19944 \Grot@setangle{#1}%
19945 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19946 \def\endrotate{%
19947 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19948 \unskip\color@endbox
19949 \Grot@x\z@
19950 \Grot@y\z@
19951 \wd0\z@\dp0\z@\ht0\z@
19952 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19953 }
19954 \def\turnbox#1#2{%
19955 \Grot@setangle{#1}%
19956 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19957 \Grot@x\z@\Grot@y\z@
19958 \wd0\z@\dp0\z@\ht0\z@
19959 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19960 }
19961 \def\sideways{%
19962 \Grot@setangle{90}%
19963 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19964 \def\endsideways{%
19965 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19966 \unskip\color@endbox
19967 \Grot@x\z@
19968 \Grot@y\z@
19969 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19970 }

```

142 File `scrartcl-xetex-bidi.def`

```

19971 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrartcl class]
19972 \newcommand{\scr@saved@LTRfootnotetext}{}
19973 \newcommand{\scr@saved@RTLfootnotetext}{}
19974 \let\scr@saved@footnotetext\@footnotetext
19975 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19976 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19977 \renewcommand{\@footnotetext}[1]{%
19978 \scr@saved@footnotetext{#1}%
19979 \csname FN@mf@prepare\endcsname
19980 }
19981 \renewcommand{\@LTRfootnotetext}[1]{%
19982 \scr@saved@LTRfootnotetext{#1}%
19983 \csname FN@mf@prepare\endcsname
19984 }
19985 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

19986 \scr@samed@RTLfootnotetext{#1}%
19987 \csname FN@mf@prepare\endcsname
19988 }
19989 \renewcommand\deffootnote[4][{}]{%
19990 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19991 \long\def\@makefntext##1{%
19992 \ExecuteDoHook{footnote/text/begin}%
19993 \raggedfootnote
19994 \if@RTL
19995 \rightskip
19996 \else
19997 \leftskip
19998 \fi
19999 #2
20000 \l@addto@macro\@trivlist{%
20001 \ifnum\@listdepth=\@ne
20002 \if@RTL
20003 \advance\rightmargin #2\relax
20004 \else
20005 \advance\leftmargin #2\relax
20006 \fi
20007 \fi
20008 }%
20009 \parindent #3\noindent
20010 \IfArgIsEmpty{#1}{-}{%
20011 \hskip \dimexpr #1-#2\relax
20012 }%
20013 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20014 \ExecuteDoHook{footnote/text/end}%
20015 }%
20016 \else
20017 \ClassInfo{\KOMAClassName}{%
20018 Using old \string\@makefntext\space due to compatibility
20019 level\MessageBreak
20020 less than 3.22}%
20021 \long\def\@makefntext##1{%
20022 \setlength{\@tempdimc}{#3}%
20023 \def\@tempa{#1}\ifx\@tempa\@empty
20024 \setpar{\@par
20025 \@tempdima = \hsize
20026 \addtolength{\@tempdima}{-#2}%
20027 \if@RTL
20028 \parshape \@ne \z@ \@tempdima
20029 \else
20030 \parshape \@ne #2 \@tempdima
20031 \fi}%
20032 \else
20033 \addtolength{\@tempdimc}{#2}%
20034 \addtolength{\@tempdimc}{-#1}%
20035 \setpar{\@par
20036 \@tempdima = \hsize
20037 \addtolength{\@tempdima}{-#1}%
20038 \@tempdimb = \hsize
20039 \addtolength{\@tempdimb}{-#2}%

```




```

20040         \ifRTL
20041             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20042         \else
20043             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20044         \fi
20045     }%
20046 \fi
20047 \par
20048 \parindent\@tempdimc\noindent
20049 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20050 }%
20051 \fi
20052 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20053 }
20054 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20055 \renewcommand*\left@footnoterule{%
20056     \normalsize\ftn@rule@test@values
20057     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20058     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20059     {\usekomafont{footnoterule}{%
20060         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20061     \kern 2.6\p@}
20062 \renewcommand*\right@footnoterule{%
20063     \normalsize\ftn@rule@test@values
20064     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20065     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20066     {\usekomafont{footnoterule}{%
20067         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\kern 2.6\p@}
20068     }}
20069 \renewcommand*\maketitle[1][1]{%
20070     \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
20071     \else
20072         \def\and{%
20073             \end{tabular}%
20074             \hskip 1em \@plus.17fil%
20075             \begin{tabular}[t]{c}%
20076         }%
20077     \fi
20078     \if@titlepage
20079         \begin{titlepage}
20080             \setcounter{page}{%
20081                 #1%
20082             }%
20083             \if@titlepageiscoverpage
20084                 \edef\titlename@restore{%
20085                     \noexpand\endgroup
20086                     \noexpand\global\noexpand\@colht\the\@colht
20087                     \noexpand\global\noexpand\@colroom\the\@colroom
20088                     \noexpand\global\vsizet\the\vsizet
20089                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
20090                     \noexpand\let\noexpand\titlename@restore\noexpand\relax
20091                 }%
20092                 \begingroup
20093                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax

```



```

20094 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20095 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20096 \textwidth=\dimexpr
20097 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20098 \textheight=\dimexpr
20099 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20100 \headheight=0pt
20101 \headsep=0pt
20102 \footskip=\baselineskip
20103 \@colht=\textheight
20104 \@colroom=\textheight
20105 \vsize=\textheight
20106 \columnwidth=\textwidth
20107 \hsize=\columnwidth
20108 \linewidth=\hsize
20109 \else
20110 \let\titlepage@restore\relax
20111 \fi
20112 \let\footnotesize\small
20113 \let\right@footnoterule\relax
20114 \let\left@footnoterule\relax
20115 \let\textwidth@footnoterule\relax
20116 \let\footnote\thanks
20117 \let\LTRfootnote\LTRthanks
20118 \let\RTLfootnote\RTLthanks
20119 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20120 \let\@oldmakefnmark\@makefnmark
20121 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
20122 \ifx\@extratitle\@empty
20123 \ifx\@frontispiece\@empty
20124 \else
20125 \if@twoside\mbox{}\next@tpage\fi
20126 \noindent\@frontispiece\next@tdpage
20127 \fi
20128 \else
20129 \noindent\@extratitle
20130 \ifx\@frontispiece\@empty
20131 \else
20132 \next@tpage
20133 \noindent\@frontispiece
20134 \fi
20135 \next@tdpage
20136 \fi
20137 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20138 \ifx\@titlehead\@empty \else
20139 \begin{minipage}[t]{\textwidth}%
20140 \usekomafont{titlehead}{\@titlehead\par}%
20141 \end{minipage}\par
20142 \fi
20143 \null\vfill
20144 \begin{center}
20145 \ifx\@subject\@empty \else
20146 {\usekomafont{subject}{\@subject\par}}%
20147 \vskip 3em

```



```

20148 \fi
20149 {\usekomafont{title}{\huge \@title\par}}%
20150 \vskip 1em
20151 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20152 \vskip 2em
20153 {%
20154 \usekomafont{author}{%
20155 \lineskip 0.75em
20156 \begin{tabular}[t]{c}
20157 \@author
20158 \end{tabular}\par
20159 }%
20160 }%
20161 \vskip 1.5em
20162 {\usekomafont{date}{\@date \par}}%
20163 \vskip \z@ \@plus3fill
20164 {\usekomafont{publishers}{\@publishers \par}}%
20165 \vskip 3em
20166 \end{center}\par
20167 \@thanks\global\let\@thanks\@empty
20168 \vfill\null
20169 \if@twoside
20170 \@tempwattrue
20171 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20172 \else
20173 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20174 \@tempwafalse
20175 \fi\fi
20176 \fi
20177 \if@tempswa
20178 \next@tpage
20179 \begin{minipage}[t]{\textwidth}
20180 \@uppertitleback
20181 \end{minipage}\par
20182 \vfill
20183 \begin{minipage}[b]{\textwidth}
20184 \@lowertitleback
20185 \end{minipage}\par
20186 \@thanks\global\let\@thanks\@empty
20187 \fi
20188 \else
20189 \ifx\@uppertitleback\@empty\else
20190 \ClassWarning{\KOMAClassName}{%
20191 non empty \string\uppertitleback\space ignored
20192 by \string\maketitle\MessageBreak
20193 in `twoside=false' mode%
20194 }%
20195 \fi
20196 \ifx\@lowertitleback\@empty\else
20197 \ClassWarning{\KOMAClassName}{%
20198 non empty \string\lowertitleback\space ignored
20199 by \string\maketitle\MessageBreak
20200 in `twoside=false' mode%
20201 }%

```



```

20202         \fi
20203     \fi
20204     \ifx\@dedication\@empty
20205     \else
20206         \next@tdpage\null\vfill
20207         {\centering\usekomafont{dedication}{\@dedication \par}}%
20208         \vskip \z@ \@plus3fill
20209         \@thanks\global\let\@thanks\@empty
20210         \cleardoubleemptypage
20211     \fi
20212     \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20213 \end{titlepage}
20214 \else
20215     \par
20216     \@tempcnta=%
20217     #1%
20218     \relax\ifnum\@tempcnta=1\else
20219         \ClassWarning{\KOMAClassName}{%
20220             Optional argument of \string\maketitle\space ignored\MessageBreak
20221             in `titlepage=false' mode%
20222         }%
20223     \fi
20224     \ifx\@uppertitleback\@empty\else
20225         \ClassWarning{\KOMAClassName}{%
20226             non empty \string\uppertitleback\space ignored
20227             by \string\maketitle\MessageBreak
20228             in `titlepage=false' mode%
20229         }%
20230     \fi
20231     \ifx\@lowertitleback\@empty\else
20232         \ClassWarning{\KOMAClassName}{%
20233             non empty \string\lowertitleback\space ignored
20234             by \string\maketitle\MessageBreak
20235             in `titlepage=false' mode%
20236         }%
20237     \fi
20238     \begingroup
20239         \let\titlepage@restore\relax
20240         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20241         \let\@oldmakefnmark\@makefnmark
20242         \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20243         \next@tdpage
20244         \if@twocolumn
20245             \ifnum \col@number=\@ne
20246                 \ifx\@extratitle\@empty
20247                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20248                 \else
20249                     \@makeextratitle
20250                 \fi
20251                 \ifx\@frontispiece\@empty
20252                     \ifx\@extratitle\@empty\else\next@tdpage\fi
20253             \else
20254                 \next@tpage
20255                 \@makefrontispiece

```



```

20256         \next@tdpage
20257     \fi
20258     \@maketitle
20259 \else
20260     \ifx\@extratitle\@empty
20261         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20262     \else
20263         \twocolumn[\@makeextratitle]%
20264     \fi
20265     \ifx\@frontispiece\@empty
20266         \ifx\@extratitle\@empty\else\next@tdpage\fi
20267     \else
20268         \next@tpage
20269         \twocolumn[\@makefrontispiece]%
20270         \next@tdpage
20271     \fi
20272     \twocolumn[\@maketitle]%
20273 \fi
20274 \else
20275     \ifx\@extratitle\@empty
20276         \ifx\@frontispiece\@empty\else \mbox{}\fi
20277     \else
20278         \@makeextratitle
20279     \fi
20280     \ifx\@frontispiece\@empty
20281         \ifx\@extratitle\@empty\else\next@tdpage\fi
20282     \else
20283         \next@tpage
20284         \@makefrontispiece
20285         \next@tdpage
20286     \fi
20287     \@maketitle
20288 \fi
20289     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20290     \@thanks\global\let\@thanks\@empty
20291 \endgroup
20292 \fi
20293 \setcounter{footnote}{0}%
20294 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20295     \let\thanks\relax
20296     \let\LTRthanks\relax
20297     \let\RTLthanks\relax
20298     \let\maketitle\relax
20299     \let\@maketitle\relax
20300     \global\let\@thanks\@empty
20301     \global\let\@author\@empty
20302     \global\let\@date\@empty
20303     \global\let\@title\@empty
20304     \global\let\@subtitle\@empty
20305     \global\let\@extratitle\@empty
20306     \global\let\@frontispiece\@empty
20307     \global\let\@titlehead\@empty
20308     \global\let\@subject\@empty
20309     \global\let\@publishers\@empty

```



```

20310 \global\let\uppertitleback\@empty
20311 \global\let\lowertitleback\@empty
20312 \global\let\@dedication\@empty
20313 \global\let\author\relax
20314 \global\let\title\relax
20315 \global\let\extratitle\relax
20316 \global\let\titlehead\relax
20317 \global\let\subject\relax
20318 \global\let\publishers\relax
20319 \global\let\uppertitleback\relax
20320 \global\let\lowertitleback\relax
20321 \global\let\dedication\relax
20322 \global\let\date\relax
20323 \fi
20324 \global\let\and\relax
20325 }%
20326 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20327 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20328 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20329 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
20330 \renewcommand*\thesubsubsection{%%
20331 \thesubsection\@SepMark\@arabic\c@subsubsection
20332 }
20333 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20334 \renewcommand*\thesubparagraph{%%
20335 \theparagraph\@SepMark\@arabic\c@subparagraph
20336 }
20337 \renewenvironment{thebibliography}[1]{%
20338 \if@bib@break@
20339 \bib@beginhook
20340 \else
20341 \bib@heading
20342 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20343 \noindent\bibpreamble\par\nobreak
20344 \fi\fi
20345 \bib@beginhook
20346 \bib@before@hook
20347 \fi
20348 \renewcommand{\BreakBibliography}[1]{%
20349 \@bib@break
20350 \end{thebibliography}%
20351 \begingroup ##1\endgroup
20352 \begin{thebibliography}{#1}
20353 }%
20354 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20355 \bidi@thebibliography@font@hook%
20356 \list{%
20357 \@biblabel{\@arabic\c@enumiv}%
20358 }{%
20359 \settowidth\labelwidth{\@biblabel{#1}}%
20360 \leftmargin\labelwidth
20361 \advance\leftmargin\labelsep
20362 \@openbib@code
20363 \if@bib@break@

```



```

20364     \edef\@tempa{%
20365         \noexpand\usecounter{enumiv}%
20366         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20367     }\@tempa
20368     \no@bib@break
20369 \else
20370     \usecounter{enumiv}%
20371 \fi
20372 \let\p@enumiv\@empty
20373 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20374 }%
20375 \sloppy\clubpenalty4000 \widowpenalty4000
20376 \sfcode`\.\@m
20377 }{%
20378 \if@bib@break@
20379 \def\@noitemerr{%
20380     \@latex@warning{%
20381         \string\BreakBibliography\space at begin of `thebibliography'
20382         environment\MessageBreak
20383         or following \string\BreakBibliography}%
20384 }%
20385 \else
20386 \def\@noitemerr{%
20387     \@latex@warning{%
20388         Empty `thebibliography' environment or
20389         \string\BreakBibliography\MessageBreak
20390         before end of `thebibliography' environment}%
20391 }%
20392 \fi
20393 \endlist
20394 \if@bib@break@
20395 \else
20396     \bib@after@hook
20397     \let\bib@before@hook\@empty
20398     \let\bib@after@hook\@empty
20399 \fi
20400 \bib@endhook
20401 }
20402 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
20403 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
20404 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
20405 \renewcommand\marginline[1]{%
20406     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
20407 }
20408 \renewcommand{\@makecaption}[3]{%
20409     \cap@margin
20410     \begingroup
20411         \ifonelinecaptions
20412             \def\stepcounter##1{\advance\value{##1}\@ne}%
20413             \let\refstepcounter\stepcounter
20414             \let\label\@gobble
20415             \let\@footnotetext=\@gobble
20416             \let\@LTRfootnotetext=\@gobble
20417             \let\@RTLfootnotetext=\@gobble

```



```

20418 \let\hypertarget\@gobbletwo
20419 \edef\@xnewline{%
20420   \unexpanded{\ClassInfo{\KOMAClassName}{%
20421     Workaround for not recommended usage of \string\\ or\MessageBreak
20422     \string\newline in caption text
20423   }}%
20424   \hspace*{\linewidth}\hspace{1sp}%
20425   }%
20426   \unexpanded\expandafter{\@xnewline}%
20427 }%
20428 \edef\@xcentercr{%
20429   \unexpanded{\ClassInfo{\KOMAClassName}{%
20430     Workaround for not recommended usage of \string\\ or\MessageBreak
20431     \string\newline in caption text
20432   }}%
20433   \hspace*{\linewidth}\hspace{1sp}%
20434   }%
20435   \unexpanded\expandafter{\@xcentercr}%
20436 }%
20437 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20438 \ifdim\@tempdima>\cap@width
20439   \aftergroup\scr@makemultilinecaption
20440 \else
20441   \aftergroup\scr@makesinglelinecaption
20442 \fi
20443 \else
20444   \aftergroup\scr@makemultilinecaption
20445 \fi
20446 \endgroup
20447 {#1}{#2}{#3}%
20448 }
20449 \renewcommand{\scr@makesinglelinecaption}[3]{%
20450   {%
20451     \usefontofkomafont{caption}{%
20452       \hb@xt@{\hsize}{%
20453         \cap@left
20454         \if@RTL
20455           \beginR
20456           \fi
20457         \scr@makesinglelinecaption{#1}{#2}{#3}%
20458         \if@RTL
20459           \endR
20460         \fi
20461         \cap@right
20462       }\par\kern\dp\strutbox%
20463     }%
20464   }\kern-\dp\strutbox
20465 }
20466 \renewcommand{\@makecaption}[2]{%
20467   \if@captionabove
20468     \vskip\belowcaptionskip
20469   \else
20470     \vskip\abovecaptionskip
20471   \fi

```




```

20472 \@makecaption\@firstofone{#1}{#2}%
20473 \ifcaptionabove
20474     \vskip\abovecaptionskip
20475 \else
20476     \vskip\belowcaptionskip
20477 \fi
20478 }
20479
20480 \renewcommand{\scr@makesinglelinecaption}[3]{%
20481     {\usekomafont{caption}{\strut\ignorespaces
20482         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20483     \ignorespaces #3\unskip}}%
20484 }
20485
20486 \renewcommand{\scr@makemultilinecaption}[3]{%
20487     {%
20488         \usefontofkomafont{caption}{%
20489             \hb@xt@{\hsize}{%
20490                 \cap@left
20491                 \vbox{\hsize\cap@width\linewidth\hsize
20492                     \scr@ifundefinedorrelax{@capttype}{%
20493                         \ClassWarning{\KOMAClassName}{%
20494                             `\'string\caption' outside float.\MessageBreak
20495                             Seems you are using `\'string\caption' outside a
20496                             float.\MessageBreak
20497                             Maybe you are using a package that uses
20498                             `\'string\@makecaption'\MessageBreak
20499                             without setting `\'string\@capttype' before.\MessageBreak
20500                             Because I cannot detect the caption type, I'm using\MessageBreak
20501                             the empty one.%
20502                         }%
20503                         \let\@capttype\@empty
20504                     }{}%
20505                     \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
20506                         \@nameuse{ragged\@capttype caption}%
20507                     }%
20508                     \ifdofullc@p
20509                         \@hangfrom{%
20510                             \strut
20511                             \scr@smashdp{%
20512                                 #1{%
20513                                     \usekomafont{caption}{%
20514                                         \usekomafont{captionlabel}{#2\captionformat}%
20515                                     }%
20516                                 }%
20517                             }%
20518                         }%
20519                         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20520                     \else
20521                         \ifdim\cap@indent<\z@
20522                             \strut
20523                             #1{%
20524                                 {\usekomafont{caption}{%
20525                                     \usekomafont{captionlabel}{#2\captionformat}%

```



```

20526         }%
20527     }\par}%
20528     \noindent{\usekomafont{caption}{%
20529         \hspace*{-\cap@indent}#3\scr@endstrut
20530     }}\par}%
20531 \else
20532     \if@capbreak
20533         \strut
20534         #1{%
20535             {\usekomafont{caption}{%
20536                 \usekomafont{captionlabel}{#2\captionformat}%
20537             }}%
20538         }\par}%
20539     \noindent\@hangfrom{\hspace*{\cap@indent}}%
20540     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20541 \else
20542     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20543     {%
20544         \hspace*{-\cap@indent}%
20545         \scr@smashdp{%
20546             #1{\usekomafont{caption}{%
20547                 \usekomafont{captionlabel}{#2\captionformat}%
20548             }}%
20549         }%
20550     }%
20551     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20552 }%
20553 \fi
20554 \fi
20555 \fi
20556 }%
20557 \cap@right
20558 }\par\kern\dp\strutbox
20559 }%
20560 }\kern-\dp\strutbox
20561 }
20562
20563 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20564     \if@komalongtable
20565         \renewcommand{\LT@makecaption}[3]{%
20566             \LT@mcol\LT@cols c{%
20567                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20568                     \if@captionabove\else\vskip\belowcaptionskip\fi
20569                     \@makecaption{#1}{#2}{#3}%
20570                     \endgraf
20571                     \if@captionabove\vskip\abovecaptionskip\fi
20572                 }}%
20573                 \hss
20574             }%
20575         }%
20576     }%
20577     \renewcommand*{\scr@LT@array}{}%
20578     \let\scr@LT@array=\LT@array
20579     \renewcommand*{\LT@array}{%

```



```

20580 \def\@capttype{table}%
20581 \@ifundefined{LTcapttype}{\let\@capttype\LTcapttype}%
20582 \Ifstr{\LTcapttype}{\let\@capttype\LTcapttype}%
20583 }%
20584 \csname tocbasic_if_caption_above:TF\endcsname
20585 {\@captionabovetrue}{\@captionabovefalse}%
20586 \def\captionabove{\noalign{\global\@captionabovetrue}%
20587 \LT@caption}%
20588 \def\captionbelow{\noalign{\global\@captionabovefalse}%
20589 \LT@caption}%
20590 \scr@LT@array
20591 }%
20592 \ClassInfo{\KOMAClassName}{%
20593 longtable captions redefined%
20594 }%
20595 \fi
20596 }
20597
20598 \CloneTOCEntryStyle{tocline}{part}
20599 \TOCEntryStyleStartInitCode{part}{%
20600 \expandafter\renewcommand%
20601 \csname scr@tso@#1@linefill\endcsname{\hfill}%
20602 \expandafter\renewcommand%
20603 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20604 \expandafter\renewcommand%
20605 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20606 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20607 \expandafter\renewcommand\expandafter*%
20608 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
20609 }
20610
20611 \CloneTOCEntryStyle{tocline}{section}
20612 \TOCEntryStyleStartInitCode{section}{%
20613 \expandafter\renewcommand%
20614 \csname scr@tso@#1@linefill\endcsname{%
20615 \if@sectionentrywithdots
20616 {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20617 \else
20618 \hfill
20619 \fi
20620 }%
20621 \expandafter\renewcommand%
20622 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20623 \expandafter\renewcommand%
20624 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont
20625 \expandafter\renewcommand\expandafter*%
20626 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
20627 }
20628
20629 \CloneTOCEntryStyle{tocline}{subsection}
20630 \TOCEntryStyleStartInitCode{subsection}{%
20631 \expandafter\renewcommand%
20632 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20633 \expandafter\renewcommand%

```



```

20634      \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20635          {\normalfont\normalcolor ##1}}%
20636 }
20637
20638 \CloneTOCEntryStyle{subsection}{default}
20639
20640 \DeclareSectionCommand[%
20641     style=section,%
20642     level=1,%
20643     indent=\z@,%
20644     beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20645     afterskip=2.3ex \@plus .2ex,%
20646     tocstyle=section,%
20647     tocindent=0pt,%
20648     tocnumwidth=1.5em%
20649 ]{section}
20650 \DeclareSectionCommand[%
20651     style=part,%
20652     level=\z@,%
20653     tocstyle=part,%
20654     toclevel=\m@ne,%
20655     tocindent=\z@,%
20656     tocnumwidth=2em%
20657 ]{part}
20658 \DeclareSectionCommand[%
20659     style=section,%
20660     level=2,%
20661     indent=\z@,%
20662     beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20663     afterskip=1.5ex \@plus .2ex,%
20664     tocstyle=subsection,%
20665     tocindent=1.5em,%
20666     tocnumwidth=2.3em%
20667 ]{subsection}
20668 \DeclareSectionCommand[%
20669     style=section,%
20670     level=3,%
20671     indent=\z@,%
20672     beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20673     afterskip=1.5ex \@plus .2ex,%
20674     tocstyle=subsection,%
20675     tocindent=3.8em,%
20676     tocnumwidth=3.2em%
20677 ]{subsubsection}
20678 \DeclareSectionCommand[%
20679     style=section,%
20680     level=4,%
20681     indent=\z@,%
20682     beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20683     afterskip=-1em,%
20684     tocstyle=subsection,%
20685     tocindentfollows=subsubsection,%
20686     tocindent=7.0em,%
20687     tocnumwidth=4.1em%

```



```

20688 ]{paragraph}
20689 \DeclareSectionCommand[%
20690   style=section,%
20691   level=5,%
20692   indent=\scr@parindent,%
20693   beforekip=3.25ex \@plus1ex \@minus .2ex,%
20694   afterskip=-1em,%
20695   tocstyle=subsection,%
20696   tocindent=10em,%
20697   tocnumwidth=5em%
20698 ]{subparagraph}

```

143 File scrbook-xetex-bidi.def

```

20699 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrbook class fo
20700 \newcommand{\scr@saved@LTRfootnotetext}{}
20701 \newcommand{\scr@saved@RTLfootnotetext}{}
20702 \let\scr@saved@footnotetext\@footnotetext
20703 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20704 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20705 \renewcommand{\@footnotetext}[1]{%
20706   \scr@saved@footnotetext{#1}%
20707   \csname FN@mf@prepare\endcsname
20708 }
20709 \renewcommand{\@LTRfootnotetext}[1]{%
20710   \scr@saved@LTRfootnotetext{#1}%
20711   \csname FN@mf@prepare\endcsname
20712 }
20713 \renewcommand{\@RTLfootnotetext}[1]{%
20714   \scr@saved@RTLfootnotetext{#1}%
20715   \csname FN@mf@prepare\endcsname
20716 }
20717 \renewcommand\deffootnote[4][1]{%
20718   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20719     \long\def\@makefn#1{%
20720       \ExecuteDoHook{footnote/text/begin}%
20721       \raggedfootnote
20722       \if@RTL
20723         \rightskip
20724       \else
20725         \leftskip
20726       \fi
20727       #2
20728       \l@addto@macro\@trivlist{%
20729         \ifnum\@listdepth=\@ne\advance
20730           \if@RTL
20731             \rightmargin #2\relax
20732           \else
20733             \leftmargin #2\relax
20734           \fi
20735         \fi
20736       }%
20737       \parindent #3\noindent
20738       \IfArgIsEmpty{#1}{-}{%

```



```

20739      \hskip \dimexpr #1-#2\relax
20740    }%
20741    \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20742    \ExecuteDoHook{footnote/text/end}%
20743  }%
20744  \else
20745    \ClassInfo{\KOMAClassName}{%
20746      Using old \string\@makefnmark\space due to compatibility
20747      level\MessageBreak
20748      less than 3.22}%
20749    \long\def\@makefnmark##1{%
20750      \setlength{\@tempdimc}{#3}%
20751      \def\@tempa{#1}\ifx\@tempa\@empty
20752        \setpar{\@par
20753          \@tempdima = \hsize
20754          \addtolength{\@tempdima}{-#2}%
20755          \ifRTL
20756            \parshape \@ne \z@ \@tempdima
20757          \else
20758            \parshape \@ne #2 \@tempdima
20759          \fi
20760        }%
20761      \else
20762        \addtolength{\@tempdimc}{#2}%
20763        \addtolength{\@tempdimc}{-#1}%
20764        \setpar{\@par
20765          \@tempdima = \hsize
20766          \addtolength{\@tempdima}{-#1}%
20767          \@tempdimb = \hsize
20768          \addtolength{\@tempdimb}{-#2}%
20769          \ifRTL
20770            \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20771          \else
20772            \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20773          \fi
20774        }%
20775      \fi
20776      \par
20777      \parindent\@tempdimc\noindent
20778      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20779    }%
20780  \fi
20781  \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20782 }
20783 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20784 \renewcommand*\left@footnoterule{%
20785   \normalsize\ftn@rule@test@values
20786   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20787   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20788   {\usekomafont{footnoterule}{%
20789     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20790   \kern 2.6\p@}
20791 \renewcommand*\right@footnoterule{%
20792   \normalsize\ftn@rule@test@values

```



```

20793 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20794 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20795 {\usekomafont{footnoterule}{%
20796     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20797     \kern 2.6\p@}
20798 \renewcommand*\maketitle[1][1]{%
20799     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20800     \else
20801         \def\and{%
20802             \end{tabular}%
20803             \hskip 1em \@plus.17fil%
20804             \begin{tabular}[t]{c}%
20805             }%
20806         \fi
20807         \if@titlepage
20808             \begin{titlepage}
20809                 \setcounter{page}{%
20810                     #1%
20811                 }%
20812                 \if@titlepageiscoverpage
20813                     \edef\tITLEPAGE@restore{%
20814                         \noexpand\endgroup
20815                         \noexpand\global\noexpand\@colht\the\@colht
20816                         \noexpand\global\noexpand\@colroom\the\@colroom
20817                         \noexpand\global\vsizethe\vsizethe
20818                         \noexpand\global\noexpand\@titlepageiscoverpagefalse
20819                         \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20820                     }%
20821                     \begingroup
20822                     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20823                     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20824                     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20825                     \textwidth=\dimexpr
20826                     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20827                     \textheight=\dimexpr
20828                     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20829                     \headheight=0pt
20830                     \headsep=0pt
20831                     \footskip=\baselineskip
20832                     \@colht=\textheight
20833                     \@colroom=\textheight
20834                     \vsizethe\textheight
20835                     \columnwidth=\textwidth
20836                     \hsizethe\columnwidth
20837                     \linewidth=\hsizethe
20838                 \else
20839                     \let\tITLEPAGE@restore\relax
20840                 \fi
20841                 \let\footnotesize\small
20842                 \let\right@footnoterule\relax
20843                 \let\left@footnoterule\relax
20844                 \let\textwidth@footnoterule\relax
20845                 \let\footnote\thanks
20846                 \let\LTRfootnote\LTRthanks

```



```

20847 \let\RTLfootnote\RTLthanks
20848 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20849 \let\oldmakefnmark\makefnmark
20850 \renewcommand*{\@makefnmark}{\rlap\oldmakefnmark}%
20851 \ifx\@extratitle\@empty
20852   \ifx\@frontispiece\@empty
20853     \else
20854       \if@twoside\mbox{}\next@tpage\fi
20855       \noindent\@frontispiece\next@tdpage
20856     \fi
20857   \else
20858     \noindent\@extratitle
20859     \ifx\@frontispiece\@empty
20860       \else
20861         \next@tpage
20862         \noindent\@frontispiece
20863       \fi
20864     \next@tdpage
20865   \fi
20866 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20867 \ifx\@titlehead\@empty \else
20868   \begin{minipage}[t]{\textwidth}%
20869     \usekomafont{titlehead}{\@titlehead\par}%
20870   \end{minipage}\par
20871 \fi
20872 \null\vfill
20873 \begin{center}
20874   \ifx\@subject\@empty \else
20875     {\usekomafont{subject}{\@subject\par}}%
20876     \vskip 3em
20877   \fi
20878   {\usekomafont{title}{\huge \@title\par}}%
20879   \vskip 1em
20880   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20881   \vskip 2em
20882   {%
20883     \usekomafont{author}{%
20884       \lineskip 0.75em
20885       \begin{tabular}[t]{c}
20886         \@author
20887       \end{tabular}\par
20888     }%
20889   }%
20890   \vskip 1.5em
20891   {\usekomafont{date}{\@date \par}}%
20892   \vskip \z@ \@plus3fill
20893   {\usekomafont{publishers}{\@publishers \par}}%
20894   \vskip 3em
20895 \end{center}\par
20896 \@thanks\global\let\@thanks\@empty
20897 \vfill\null
20898 \if@twoside
20899   \@tempswatrue
20900   \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax

```




```

20901         \else
20902             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20903                 \@tempwafalse
20904             \fi\fi
20905         \fi
20906         \if@tempswa
20907             \next@tpage
20908             \begin{minipage}[t]{\textwidth}
20909                 \@uppertitleback
20910             \end{minipage}\par
20911             \vfill
20912             \begin{minipage}[b]{\textwidth}
20913                 \@lowertitleback
20914             \end{minipage}\par
20915             \@thanks\global\let\@thanks\@empty
20916         \fi
20917     \else
20918         \ifx\@uppertitleback\@empty\else
20919             \ClassWarning{\KOMAClassName}{%
20920                 non empty \string\uppertitleback\space ignored
20921                 by \string\maketitle\MessageBreak
20922                 in `twoside=false' mode%
20923             }%
20924         \fi
20925         \ifx\@lowertitleback\@empty\else
20926             \ClassWarning{\KOMAClassName}{%
20927                 non empty \string\lowertitleback\space ignored
20928                 by \string\maketitle\MessageBreak
20929                 in `twoside=false' mode%
20930             }%
20931         \fi
20932     \fi
20933     \ifx\@dedication\@empty
20934     \else
20935         \next@tdpage\null\vfill
20936         {\centering\usekomafont{dedication}{\@dedication \par}}%
20937         \vskip \z@ \@plus3fill
20938         \@thanks\global\let\@thanks\@empty
20939         \cleardoubleemptypage
20940     \fi
20941     \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20942 \end{titlepage}
20943 \else
20944     \par
20945     \@tempcnta=%
20946     #1%
20947     \relax\ifnum\@tempcnta=1\else
20948         \ClassWarning{\KOMAClassName}{%
20949             Optional argument of \string\maketitle\space ignored\MessageBreak
20950             in `titlepage=false' mode%
20951         }%
20952     \fi
20953     \ifx\@uppertitleback\@empty\else
20954         \ClassWarning{\KOMAClassName}{%

```



```

20955         non empty \string\uppertitleback\space ignored
20956         by \string\maketitle\MessageBreak
20957         in `titlepage=false' mode%
20958     }%
20959 \fi
20960 \ifx\@lowertitleback\@empty\else
20961     \ClassWarning{\KOMAClassName}{%
20962         non empty \string\lowertitleback\space ignored
20963         by \string\maketitle\MessageBreak
20964         in `titlepage=false' mode%
20965     }%
20966 \fi
20967 \begingroup
20968     \let\titlepage@restore\relax
20969     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20970     \let\@oldmakefnmark\@makefnmark
20971     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20972     \next@tdpage
20973     \if@twocolumn
20974         \ifnum \col@number=\@ne
20975             \ifx\@extratitle\@empty
20976                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20977             \else
20978                 \@makeextratitle
20979             \fi
20980             \ifx\@frontispiece\@empty
20981                 \ifx\@extratitle\@empty\else\next@tdpage\fi
20982             \else
20983                 \next@tpage
20984                 \@makefrontispiece
20985                 \next@tdpage
20986             \fi
20987             \@maketitle
20988         \else
20989             \ifx\@extratitle\@empty
20990                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20991             \else
20992                 \twocolumn[\@makeextratitle]%
20993             \fi
20994             \ifx\@frontispiece\@empty
20995                 \ifx\@extratitle\@empty\else\next@tdpage\fi
20996             \else
20997                 \next@tpage
20998                 \twocolumn[\@makefrontispiece]%
20999                 \next@tdpage
21000             \fi
21001             \twocolumn[\@maketitle]%
21002         \fi
21003     \else
21004         \ifx\@extratitle\@empty
21005             \ifx\@frontispiece\@empty\else \mbox{}\fi
21006         \else
21007             \@makeextratitle
21008         \fi

```



```

21009 \ifx\@frontispiece\@empty
21010 \ifx\@extratitle\@empty\else\next@tdpage\fi
21011 \else
21012 \next@tdpage
21013 \@makefrontispiece
21014 \next@tdpage
21015 \fi
21016 \@maketitle
21017 \fi
21018 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21019 \@thanks\global\let\@thanks\@empty
21020 \endgroup
21021 \fi
21022 \setcounter{footnote}{0}%
21023 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21024 \let\thanks\relax
21025 \let\LTRthanks\relax
21026 \let\RTLthanks\relax
21027 \let\maketitle\relax
21028 \let\@maketitle\relax
21029 \global\let\@thanks\@empty
21030 \global\let\@author\@empty
21031 \global\let\@date\@empty
21032 \global\let\@title\@empty
21033 \global\let\@subtitle\@empty
21034 \global\let\@extratitle\@empty
21035 \global\let\@frontispiece\@empty
21036 \global\let\@titlehead\@empty
21037 \global\let\@subject\@empty
21038 \global\let\@publishers\@empty
21039 \global\let\@uppertitleback\@empty
21040 \global\let\@lowertitleback\@empty
21041 \global\let\@dedication\@empty
21042 \global\let\author\relax
21043 \global\let\title\relax
21044 \global\let\extratitle\relax
21045 \global\let\titlehead\relax
21046 \global\let\subject\relax
21047 \global\let\publishers\relax
21048 \global\let\uppertitleback\relax
21049 \global\let\lowertitleback\relax
21050 \global\let\dedication\relax
21051 \global\let\date\relax
21052 \fi
21053 \global\let\and\relax
21054 }%
21055 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21056 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21057 \renewcommand*\thesection{%
21058 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21059 \if@mainmatter\thechapter\@SepMark\fi
21060 \else
21061 \thechapter\@SepMark%
21062 \fi

```



```

21063 \@arabic\c@section
21064 }
21065 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21066 \renewcommand*{\thesubsubsection}{%
21067 \thesubsection\@SepMark\@arabic\c@subsubsection
21068 }
21069 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21070 \renewcommand*{\thesubparagraph}{%
21071 \theparagraph\@SepMark\@arabic\c@subparagraph
21072 }
21073 \expandafter\ifnum\scr@v@is@le{2.97d}%
21074 \renewcommand*{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
21075 \fi
21076 \expandafter\ifnum\scr@v@is@le{2.97d}%
21077 \renewcommand*{\thetable}{\thechapter\@SepMark\@arabic\c@table}
21078 \fi
21079 \renewcommand*{\theequation}{%
21080 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21081 \if@mainmatter\thechapter\@SepMark\fi
21082 \else
21083 \thechapter\@SepMark%
21084 \fi
21085 \@arabic\c@equation
21086 }
21087 \renewenvironment{thebibliography}[1]{%
21088 \if@bib@break@
21089 \bib@beginhook
21090 \else
21091 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21092 \setchapterpreamble{\bibpreamble}%
21093 \fi\fi
21094 \bib@heading
21095 \bib@beginhook
21096 \bib@before@hook
21097 \fi
21098 \renewcommand{\BreakBibliography}[1]{%
21099 \@bib@break
21100 \end{thebibliography}%
21101 \begingroup ##1\endgroup
21102 \begin{thebibliography}{#1}
21103 }%
21104 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21105 \bidi@thebibliography@font@hook%
21106 \list{%
21107 \@biblabel{\@arabic\c@enumiv}%
21108 }{%
21109 \settowidth\labelwidth{\@biblabel{#1}}%
21110 \leftmargin\labelwidth
21111 \advance\leftmargin\labelsep
21112 \@openbib@code
21113 \if@bib@break@
21114 \edef\@tempa{%
21115 \noexpand\usecounter{enumiv}%
21116 \noexpand\setcounter{enumiv}{\the\c@enumiv}%

```



```

21117     }\@tempa
21118     \no@bib@break
21119   \else
21120     \usecounter{enumiv}%
21121   \fi
21122   \let\p@enumiv\@empty
21123   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21124 }%
21125 \sloppy\clubpenalty4000 \widowpenalty4000
21126 \sfcode`\.=\@m
21127 }{%
21128   \if@bib@break@
21129     \def\@noitemerr{%
21130       \@latex@warning{%
21131         \string\BreakBibliography\space at begin of `thebibliography'
21132         environment\MessageBreak
21133         or following \string\BreakBibliography}%
21134     }%
21135   \else
21136     \def\@noitemerr{%
21137       \@latex@warning{%
21138         Empty `thebibliography' environment or
21139         \string\BreakBibliography\MessageBreak
21140         before end of `thebibliography' environment}%
21141     }%
21142   \fi
21143   \endlist
21144   \if@bib@break@
21145   \else
21146     \bib@after@hook
21147     \let\bib@before@hook\@empty
21148     \let\bib@after@hook\@empty
21149   \fi
21150   \bib@endhook
21151 }
21152 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21153 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21154 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21155 \renewcommand\marginline[1]{%
21156   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21157 }
21158 \renewcommand{\@makecaption}[3]{%
21159   \cap@margin
21160   \begingroup
21161     \ifonelinecaptions
21162       \def\stepcounter##1{\advance\value{##1}\@ne}%
21163       \let\refstepcounter\stepcounter
21164       \let\label\@gobble
21165       \let\@footnotetext=\@gobble
21166       \let\@LTRfootnotetext=\@gobble
21167       \let\@RTLfootnotetext=\@gobble
21168       \let\hypertarget\@gobbletwo
21169       \edef\xnewline{%
21170         \unexpanded{\ClassInfo{\KOMAClassName}}%

```



```

21171         Workaround for not recommended usage of \string\\ or\MessageBreak
21172         \string\newline in caption text
21173     }%
21174     \hspace*{\linewidth}\hspace{1sp}%
21175 }%
21176 \unexpanded\expandafter{\@xnewline}%
21177 }%
21178 \edef\@xcentercr{%
21179     \unexpanded{\ClassInfo{\KOMAClassName}{%
21180         Workaround for not recommended usage of \string\\ or\MessageBreak
21181         \string\newline in caption text
21182     }%
21183     \hspace*{\linewidth}\hspace{1sp}%
21184     }%
21185     \unexpanded\expandafter{\@xcentercr}%
21186 }%
21187 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21188 \ifdim\@tempdima>\cap@width
21189     \aftergroup\scr@makemultilinecaption
21190 \else
21191     \aftergroup\scr@makesinglelinecaption
21192 \fi
21193 \else
21194     \aftergroup\scr@makemultilinecaption
21195 \fi
21196 \endgroup
21197 {#1}{#2}{#3}%
21198 }
21199 \renewcommand{\scr@makesinglelinecaption}[3]{%
21200     {%
21201         \usefontofkomafont{caption}{%
21202             \hb@xt@{\hsize{%
21203                 \cap@left
21204                 \if@RTL
21205                     \beginR
21206                 \fi
21207                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21208                 \if@RTL
21209                     \endR
21210                 \fi
21211                 \cap@right
21212             }\par\kern\dp\strutbox%
21213         }%
21214     }\kern-\dp\strutbox
21215 }
21216 \renewcommand{\@makecaption}[2]{%
21217     \if@captionabove
21218         \vskip\belowcaptionskip
21219     \else
21220         \vskip\abovecaptionskip
21221     \fi
21222     \@makecaption\@firstofone{#1}{#2}%
21223     \if@captionabove
21224         \vskip\abovecaptionskip

```



```

21225 \else
21226 \vskip\belowcaptionskip
21227 \fi
21228 }
21229
21230 \renewcommand{\scr@makesinglelinecaption}[3]{%
21231   {\usekomafont{caption}{\strut\ignorespaces
21232     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21233     \ignorespaces #3\unskip}}%
21234 }
21235
21236 \renewcommand{\scr@makemultilinecaption}[3]{%
21237   {%
21238     \usefontofkomafont{caption}{%
21239       \hb@xt@{\hsize{%
21240         \cap@left
21241         \vbox{\hsize\cap@width\linewidth\hsize
21242           \scr@ifundefinedorrelax{@capttype}{%
21243             \ClassWarning{KOMAClassName}{%
21244               `\'string\caption' outside float.\MessageBreak
21245               Seems you are using `\'string\caption' outside a
21246               float.\MessageBreak
21247               Maybe you are using a package that uses
21248               `\'string\@makecaption'\MessageBreak
21249               without setting `\'string\@capttype' before.\MessageBreak
21250               Because I cannot detect the caption type, I'm using\MessageBreak
21251               the empty one.%
21252             }%
21253             \let\@capttype\@empty
21254           }{}%
21255           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21256             \@nameuse{ragged\@capttype caption}%
21257           }%
21258           \ifdofullc@p
21259             \@hangfrom{%
21260               \strut
21261               \scr@smashdp{%
21262                 #1{%
21263                   \usekomafont{caption}{%
21264                     \usekomafont{captionlabel}{#2\captionformat}%
21265                   }%
21266                 }%
21267               }%
21268             }%
21269             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21270           \else
21271             \ifdim\cap@indent<\z@
21272               \strut
21273               #1{%
21274                 \usekomafont{caption}{%
21275                   \usekomafont{captionlabel}{#2\captionformat}%
21276                 }%
21277               }\par}%
21278             \noindent{\usekomafont{caption}{%

```



```

21279         \hspace*{-\cap@indent}\#3\scr@endstrut
21280     }}\par}%
21281 \else
21282     \if@capbreak
21283         \strut
21284         #1{%
21285             {\usekomafont{caption}}{%
21286                 \usekomafont{captionlabel}\#2\captionformat}%
21287             }
21288         }\par}%
21289         \noindent\@hangfrom{\hspace*{\cap@indent}}%
21290         {\usekomafont{caption}\#3\scr@endstrut}}\par}%
21291 \else
21292     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21293     {%
21294         \hspace{-\cap@indent}%
21295         \scr@smashdp{%
21296             #1{\usekomafont{caption}}{%
21297                 \usekomafont{captionlabel}\#2\captionformat}%
21298             }%
21299         }%
21300     }%
21301     {\usekomafont{caption}\#3\scr@endstrut}}\par}%
21302 }%
21303 \fi
21304 \fi
21305 \fi
21306 }%
21307 \cap@right
21308 }\par\kern\dp\strutbox
21309 }%
21310 }\kern-\dp\strutbox
21311 }
21312
21313
21314 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21315     \if@komalongtable
21316         \renewcommand{\LT@makecaption}[3]{%
21317             \LT@mcol\LT@cols c{%
21318                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21319                     \if@captionabove\else\vskip\belowcaptionskip\fi
21320                     \@makecaption{#1}\#2}\#3}%
21321                 \endgraf
21322                 \if@captionabove\vskip\abovecaptionskip\fi
21323             }%
21324             \hss
21325         }%
21326     }%
21327 }%
21328 \renewcommand*{\scr@LT@array}{}%
21329 \let\scr@LT@array=\LT@array
21330 \renewcommand*{\LT@array}{}%
21331 \def\@captive{table}%
21332 \ifundefined{LTcaptive}{\fi}

```




```

21333 \Ifstr{\LTcapttype}{\let\@capttype\LTcapttype}%
21334 }%
21335 \csname tocbasic_if_caption_above:TF\endcsname
21336 {\@captionabovetrue}{\@captionabovefalse}%
21337 \def\captionabove{\noalign{\global\@captionabovetrue}%
21338 \LT@caption}%
21339 \def\captionbelow{\noalign{\global\@captionabovefalse}%
21340 \LT@caption}%
21341 \scr@LT@array
21342 }%
21343 \ClassInfo{\KOMAClassName}{%
21344 longtable captions redefined%
21345 }%
21346 \fi
21347 }
21348
21349 \CloneTOCEntryStyle{tocline}{part}
21350 \TOCEntryStyleStartInitCode{part}{%
21351 \expandafter\renewcommand%
21352 \csname scr@tso@#1@linefill\endcsname{\hfill}%
21353 \expandafter\renewcommand%
21354 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21355 \expandafter\renewcommand%
21356 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21357 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21358 \expandafter\renewcommand\expandafter*%
21359 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
21360 }
21361
21362 \CloneTOCEntryStyle{tocline}{chapter}
21363 \TOCEntryStyleStartInitCode{chapter}{%
21364 \expandafter\renewcommand%
21365 \csname scr@tso@#1@linefill\endcsname{%
21366 \if@chapterentrywithdots
21367 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21368 \else
21369 \hfill
21370 \fi
21371 }%
21372 \expandafter\renewcommand%
21373 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21374 \expandafter\renewcommand%
21375 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21376 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21377 \expandafter\renewcommand\expandafter*%
21378 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
21379 }
21380
21381 \CloneTOCEntryStyle{tocline}{section}
21382 \TOCEntryStyleStartInitCode{section}{%
21383 \expandafter\renewcommand%
21384 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21385 \expandafter\renewcommand%
21386 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%

```



```

21387         {\normalfont\normalcolor ##1}}%
21388 }
21389
21390 \CloneTOCEntryStyle{section}{default}
21391
21392 \DeclareSectionCommand[%
21393   style=chapter,%
21394   level=\z@,%
21395   pagestyle=plain,%
21396   tocstyle=chapter,%
21397   tocindent=\z@,%
21398   tocnumwidth=1.5em%
21399 ]{chapter}
21400 \DeclareSectionCommand[%
21401   style=section,%
21402   level=1,%
21403   indent=\z@,%
21404   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
21405   afterskip=2.3ex \@plus .2ex,%
21406   tocstyle=section,%
21407   tocindentfollows=chapter,%
21408   tocindent=1.5em,%
21409   tocnumwidth=2.3em%
21410 ]{section}
21411 \DeclareSectionCommand[%
21412   style=part,%
21413   level=\m@ne,%
21414   pagestyle=plain,%
21415   tocstyle=part,%
21416   toclevel=\m@ne,%
21417   tocindent=\z@,%
21418   tocnumwidth=2em%
21419 ]{part}
21420 \DeclareSectionCommand[%
21421   style=section,%
21422   level=2,%
21423   indent=\z@,%
21424   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21425   afterskip=1.5ex \@plus .2ex,%
21426   tocstyle=section,%
21427   tocindent=3.8em,%
21428   tocnumwidth=3.2em%
21429 ]{subsection}
21430 \DeclareSectionCommand[%
21431   style=section,%
21432   level=3,%
21433   indent=\z@,%
21434   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21435   afterskip=1.5ex \@plus .2ex,%
21436   tocstyle=section,%
21437   tocindent=7.0em,%
21438   tocnumwidth=4.1em%
21439 ]{subsubsection}
21440 \DeclareSectionCommand[%

```



```

21441 style=section,%
21442 level=4,%
21443 indent=\z@,%
21444 beforekip=3.25ex \@plus1ex \@minus.2ex,%
21445 afterskip=-1em,%
21446 tocindentfollows=subsubsection,%
21447 tocstyle=section,%
21448 tocindent=10em,%
21449 tocnumwidth=5em%
21450 ]{paragraph}
21451 \DeclareSectionCommand[%
21452 style=section,%
21453 level=5,%
21454 indent=\scr@parindent,%
21455 beforekip=3.25ex \@plus1ex \@minus.2ex,%
21456 afterskip=-1em,%
21457 tocstyle=section,%
21458 tocindent=12em,%
21459 tocnumwidth=6em%
21460 ]{subparagraph}

```

144 File `scrreprt-xetex-bidi.def`

```

21461 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrreprt class]
21462 \newcommand{\scr@saved@LTRfootnotetext}{}
21463 \newcommand{\scr@saved@RTLfootnotetext}{}
21464 \let\scr@saved@footnotetext\@footnotetext
21465 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21466 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21467 \renewcommand{\@footnotetext}[1]{%
21468   \scr@saved@footnotetext{#1}%
21469   \csname FN@mf@prepare\endcsname
21470 }
21471 \renewcommand{\@LTRfootnotetext}[1]{%
21472   \scr@saved@LTRfootnotetext{#1}%
21473   \csname FN@mf@prepare\endcsname
21474 }
21475 \renewcommand{\@RTLfootnotetext}[1]{%
21476   \scr@saved@RTLfootnotetext{#1}%
21477   \csname FN@mf@prepare\endcsname
21478 }
21479 \renewcommand\deffootnote[4][1]{%
21480   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21481     \long\def\@makefntext##1{%
21482       \ExecuteDoHook{footnote/text/begin}%
21483       \raggedfootnote
21484       \if@RTL
21485         \rightskip
21486       \else
21487         \leftskip
21488       \fi
21489       #2
21490       \l@addto@macro\@trivlist{%
21491         \ifnum\@listdepth=\@ne

```



```

21492         \if@RTL
21493             \advance\rightmargin #2\relax
21494         \else
21495             \advance\leftmargin #2\relax
21496         \fi
21497     \fi
21498 }%
21499 \parindent #3\noindent
21500 \IfArgIsEmpty{#1}{-}{%
21501     \hskip \dimexpr #1-#2\relax
21502 }%
21503 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21504 \ExecuteDoHook{footnote/text/end}%
21505 }%
21506 \else
21507     \ClassInfo{\KOMAClassName}{%
21508         Using old \string\@makefnmark\space due to compatibility
21509         level\MessageBreak
21510         less than 3.22}%
21511     \long\def\@makefnmark##1{%
21512         \setlength{\@tempdimc}{#3}%
21513         \def\@tempa{#1}\ifx\@tempa\@empty
21514             \setpar{\@par
21515                 \@tempdima = \hsize
21516                 \addtolength{\@tempdima}{-#2}%
21517                 \if@RTL
21518                     \parshape \@ne \z@ \@tempdima
21519                 \else
21520                     \parshape \@ne #2 \@tempdima
21521                 \fi
21522             }%
21523         \else
21524             \addtolength{\@tempdimc}{#2}%
21525             \addtolength{\@tempdimc}{-#1}%
21526             \setpar{\@par
21527                 \@tempdima = \hsize
21528                 \addtolength{\@tempdima}{-#1}%
21529                 \@tempdimb = \hsize
21530                 \addtolength{\@tempdimb}{-#2}%
21531                 \if@RTL
21532                     \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21533                 \else
21534                     \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21535                 \fi
21536             }%
21537         \fi
21538     \par
21539     \parindent\@tempdimc\noindent
21540     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21541 }%
21542 \fi
21543 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21544 }
21545 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}

```



```

21546 \renewcommand*\left@footnoterule{%
21547 \normalsize\ftn@rule@test@values
21548 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21549 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21550 {\usekomafont{footnoterule}{%
21551 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}}%
21552 \kern 2.6\p@}
21553 \renewcommand*\right@footnoterule{%
21554 \normalsize\ftn@rule@test@values
21555 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21556 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21557 {\usekomafont{footnoterule}{%
21558 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21559 \kern 2.6\p@}
21560 \renewcommand*\maketitle[1][1]{%
21561 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21562 \else
21563 \def\and{%
21564 \end{tabular}}%
21565 \hskip 1em \@plus.17fil%
21566 \begin{tabular}[t]{c}%
21567 }%
21568 \fi
21569 \if@titlepage
21570 \begin{titlepage}
21571 \setcounter{page}{%
21572 #1%
21573 }%
21574 \if@titlepageiscoverpage
21575 \edef\tITLEPAGE@restore{%
21576 \noexpand\endgroup
21577 \noexpand\global\noexpand\@colht\the\@colht
21578 \noexpand\global\noexpand\@colroom\the\@colroom
21579 \noexpand\global\vsizethe\vsizethe
21580 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21581 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
21582 }%
21583 \begingroup
21584 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21585 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21586 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21587 \textwidth=\dimexpr
21588 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21589 \textheight=\dimexpr
21590 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21591 \headheight=0pt
21592 \headsep=0pt
21593 \footskip=\baselineskip
21594 \@colht=\textheight
21595 \@colroom=\textheight
21596 \vsizethe\textheight
21597 \columnwidth=\textwidth
21598 \hsizethe\columnwidth
21599 \linewidth=\hsizethe

```



```

21600 \else
21601 \let\titlepage@restore\relax
21602 \fi
21603 \let\footnotesize\small
21604 \let\right@footnoterule\relax
21605 \let\left@footnoterule\relax
21606 \let\textwidth@footnoterule\relax
21607 \let\footnote\thanks
21608 \let\LTRfootnote\LTRthanks
21609 \let\RTLfootnote\RTLthanks
21610 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21611 \let\@oldmakefnmark\@makefnmark
21612 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21613 \ifx\@extratitle\@empty
21614 \ifx\@frontispiece\@empty
21615 \else
21616 \if@twoside\mbox{}\next@tpage\fi
21617 \noindent\@frontispiece\next@tdpage
21618 \fi
21619 \else
21620 \noindent\@extratitle
21621 \ifx\@frontispiece\@empty
21622 \else
21623 \next@tpage
21624 \noindent\@frontispiece
21625 \fi
21626 \next@tdpage
21627 \fi
21628 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
21629 \ifx\@titlehead\@empty \else
21630 \begin{minipage}[t]{\textwidth}%
21631 \usekomafont{titlehead}{\@titlehead\par}%
21632 \end{minipage}\par
21633 \fi
21634 \null\vfill
21635 \begin{center}
21636 \ifx\@subject\@empty \else
21637 {\usekomafont{subject}{\@subject\par}}%
21638 \vskip 3em
21639 \fi
21640 {\usekomafont{title}{\huge \@title\par}}%
21641 \vskip 1em
21642 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21643 \vskip 2em
21644 {%
21645 \usekomafont{author}{%
21646 \lineskip 0.75em
21647 \begin{tabular}[t]{c}
21648 \@author
21649 \end{tabular}\par
21650 }%
21651 }%
21652 \vskip 1.5em
21653 {\usekomafont{date}{\@date \par}}%

```



```

21654      \vskip \z@ \@plus3fill
21655      {\usekomafont{publishers}{\@publishers \par}}%
21656      \vskip 3em
21657 \end{center}\par
21658 \@thanks\global\let\@thanks\@empty
21659 \vfill\null
21660 \if@twoside
21661   \@tempswatrue
21662   \expandafter\ifnum \@nameuse{scr@v3.12}>\scr@compatibility\relax
21663   \else
21664     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21665       \@tempswafalse
21666     \fi\fi
21667   \fi
21668   \if@tempswa
21669     \next@tpage
21670     \begin{minipage}[t]{\textwidth}
21671       \@uppertitleback
21672     \end{minipage}\par
21673     \vfill
21674     \begin{minipage}[b]{\textwidth}
21675       \@lowertitleback
21676     \end{minipage}\par
21677     \@thanks\global\let\@thanks\@empty
21678   \fi
21679 \else
21680   \ifx\@uppertitleback\@empty\else
21681     \ClassWarning{\KOMAClassName}{%
21682       non empty \string\uppertitleback\space ignored
21683       by \string\maketitle\MessageBreak
21684       in `twoside=false' mode%
21685     }%
21686   \fi
21687   \ifx\@lowertitleback\@empty\else
21688     \ClassWarning{\KOMAClassName}{%
21689       non empty \string\lowertitleback\space ignored
21690       by \string\maketitle\MessageBreak
21691       in `twoside=false' mode%
21692     }%
21693   \fi
21694 \fi
21695 \ifx\@dedication\@empty
21696 \else
21697   \next@tdpage\null\vfill
21698   {\centering\usekomafont{dedication}{\@dedication \par}}%
21699   \vskip \z@ \@plus3fill
21700   \@thanks\global\let\@thanks\@empty
21701   \cleardoubleemptypage
21702 \fi
21703 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21704 \end{titlepage}
21705 \else
21706   \par
21707   \@tempcnta=%

```



```

21708 #1%
21709 \relax\ifnum \@tempcnta=1\else
21710   \ClassWarning{\KOMAClassName}{%
21711     Optional argument of \string\maketitle\space ignored\MessageBreak
21712     in `titlepage=false' mode%
21713   }%
21714 \fi
21715 \ifx \@uppertitleback \@empty\else
21716   \ClassWarning{\KOMAClassName}{%
21717     non empty \string\uppertitleback\space ignored
21718     by \string\maketitle\MessageBreak
21719     in `titlepage=false' mode%
21720   }%
21721 \fi
21722 \ifx \@lowertitleback \@empty\else
21723   \ClassWarning{\KOMAClassName}{%
21724     non empty \string\lowertitleback\space ignored
21725     by \string\maketitle\MessageBreak
21726     in `titlepage=false' mode%
21727   }%
21728 \fi
21729 \begingroup
21730   \let\titlepage@restore\relax
21731   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21732   \let\oldmakefnmark\makefnmark
21733   \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
21734   \next@tdpage
21735   \if@twocolumn
21736     \ifnum \col@number=\@ne
21737       \ifx \@extratitle \@empty
21738         \ifx \@frontispiece \@empty\else\if@twoside\mbox{}\fi\fi
21739       \else
21740         \@makeextratitle
21741       \fi
21742       \ifx \@frontispiece \@empty
21743         \ifx \@extratitle \@empty\else\next@tdpage\fi
21744       \else
21745         \next@tpage
21746         \@makefrontispiece
21747         \next@tdpage
21748       \fi
21749       \@maketitle
21750     \else
21751       \ifx \@extratitle \@empty
21752         \ifx \@frontispiece \@empty\else\if@twoside\mbox{}\fi\fi
21753       \else
21754         \twocolumn[\@makeextratitle]%
21755       \fi
21756       \ifx \@frontispiece \@empty
21757         \ifx \@extratitle \@empty\else\next@tdpage\fi
21758       \else
21759         \next@tpage
21760         \twocolumn[\@makefrontispiece]%
21761       \fi

```




```

21762         \fi
21763         \twocolumn[\@maketitle]%
21764     \fi
21765 \else
21766     \ifx\@extratitle\@empty
21767         \ifx\@frontispiece\@empty\else \mbox{}\fi
21768     \else
21769         \@makeextratitle
21770     \fi
21771     \ifx\@frontispiece\@empty
21772         \ifx\@extratitle\@empty\else\next@tdpage\fi
21773     \else
21774         \next@tpage
21775         \@makefrontispiece
21776         \next@tdpage
21777     \fi
21778     \@maketitle
21779 \fi
21780 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21781 \@thanks\global\let\@thanks\@empty
21782 \endgroup
21783 \fi
21784 \setcounter{footnote}{0}%
21785 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21786     \let\thanks\relax
21787     \let\LTRthanks\relax
21788     \let\RTLthanks\relax
21789     \let\maketitle\relax
21790     \let\@maketitle\relax
21791     \global\let\@thanks\@empty
21792     \global\let\@author\@empty
21793     \global\let\@date\@empty
21794     \global\let\@title\@empty
21795     \global\let\@subtitle\@empty
21796     \global\let\@extratitle\@empty
21797     \global\let\@frontispiece\@empty
21798     \global\let\@titlehead\@empty
21799     \global\let\@subject\@empty
21800     \global\let\@publishers\@empty
21801     \global\let\@uppertitleback\@empty
21802     \global\let\@lowertitleback\@empty
21803     \global\let\@dedication\@empty
21804     \global\let\author\relax
21805     \global\let\title\relax
21806     \global\let\extratitle\relax
21807     \global\let\titlehead\relax
21808     \global\let\subject\relax
21809     \global\let\publishers\relax
21810     \global\let\uppertitleback\relax
21811     \global\let\lowertitleback\relax
21812     \global\let\dedication\relax
21813     \global\let\date\relax
21814 \fi
21815 \global\let\and\relax

```



```

21816 }%
21817 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21818 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21819 \renewcommand*\thesection{%
21820   \thechapter\@SepMark%
21821   \@arabic\c@section
21822 }
21823 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21824 \renewcommand*\thesubsubsection{%
21825   \thesubsection\@SepMark\@arabic\c@subsubsection
21826 }
21827 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21828 \renewcommand*\thesubparagraph{%
21829   \theparagraph\@SepMark\@arabic\c@subparagraph
21830 }
21831 \expandafter\ifnum\scr@v@is@le{2.97d}%
21832   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21833 \fi
21834 \expandafter\ifnum\scr@v@is@le{2.97d}%
21835   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21836 \fi
21837 \renewcommand*\theequation{%
21838   \thechapter\@SepMark%
21839   \@arabic\c@equation
21840 }
21841 \renewenvironment{thebibliography}[1]{%
21842   \if@bib@break@
21843     \bib@beginhook
21844   \else
21845     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21846       \setchapterpreamble{\bibpreamble}%
21847     \fi\fi
21848     \bib@heading
21849     \bib@beginhook
21850     \bib@before@hook
21851   \fi
21852   \renewcommand{\BreakBibliography}[1]{%
21853     \@bib@break
21854     \end{thebibliography}%
21855     \begingroup ##1\endgroup
21856     \begin{thebibliography}{#1}
21857   }%
21858   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21859   \bidi@thebibliography@font@hook%
21860   \list{%
21861     \@biblabel{\@arabic\c@enumiv}%
21862   }{%
21863     \settowidth\labelwidth{\@biblabel{#1}}%
21864     \leftmargin\labelwidth
21865     \advance\leftmargin\labelsep
21866     \@openbib@code
21867     \if@bib@break@
21868       \edef\@tempa{%
21869         \noexpand\usecounter{enumiv}%

```



```

21870         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21871     }\@tempa
21872     \no@bib@break
21873 \else
21874     \usecounter{enumiv}%
21875 \fi
21876 \let\p@enumiv\@empty
21877 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21878 }%
21879 \sloppy\clubpenalty4000 \widowpenalty4000
21880 \sfcode`\.=\@m
21881 }{%
21882 \if@bib@break@
21883     \def\@noitemerr{%
21884         \@latex@warning{%
21885             \string\BreakBibliography\space at begin of `thebibliography'
21886             environment\MessageBreak
21887             or following \string\BreakBibliography}%
21888     }%
21889 \else
21890     \def\@noitemerr{%
21891         \@latex@warning{%
21892             Empty `thebibliography' environment or
21893             \string\BreakBibliography\MessageBreak
21894             before end of `thebibliography' environment}%
21895     }%
21896 \fi
21897 \endlist
21898 \if@bib@break@
21899 \else
21900     \bib@after@hook
21901     \let\bib@before@hook\@empty
21902     \let\bib@after@hook\@empty
21903 \fi
21904 \bib@endhook
21905 }
21906 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21907 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21908 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21909 \renewcommand\marginline[1]{%
21910     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21911 }
21912 \renewcommand{\@makecaption}[3]{%
21913     \cap@margin
21914     \begingroup
21915         \ifonelinecaptions
21916             \def\stepcounter##1{\advance\value{##1}\@ne}%
21917             \let\refstepcounter\stepcounter
21918             \let\label\@gobble
21919             \let\@footnotetext=\@gobble
21920             \let\@LTRfootnotetext=\@gobble
21921             \let\@RTLfootnotetext=\@gobble
21922             \let\hypertarget\@gobbletwo
21923             \edef\xnewline{%

```



```

21924 \unexpanded{\ClassInfo{\KOMAClassName}{%
21925     Workaround for not recommended usage of \string\\ or\MessageBreak
21926     \string\newline in caption text
21927 }%
21928 \hspace*{\linewidth}\hspace{1sp}%
21929 }%
21930 \unexpanded\expandafter{\@xnewline}%
21931 }%
21932 \edef\@xcentercr{%
21933 \unexpanded{\ClassInfo{\KOMAClassName}{%
21934     Workaround for not recommended usage of \string\\ or\MessageBreak
21935     \string\newline in caption text
21936 }%
21937 \hspace*{\linewidth}\hspace{1sp}%
21938 }%
21939 \unexpanded\expandafter{\@xcentercr}%
21940 }%
21941 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21942 \ifdim\@tempdima>\cap@width
21943 \aftergroup\scr@makemultilinecaption
21944 \else
21945 \aftergroup\scr@makesinglelinecaption
21946 \fi
21947 \else
21948 \aftergroup\scr@makemultilinecaption
21949 \fi
21950 \endgroup
21951 {#1}{#2}{#3}%
21952 }
21953 \renewcommand{\scr@makesinglelinecaption}[3]{%
21954 {%
21955 \usefontofkomafont{caption}{%
21956 \hb@xt@{\hsize{%
21957 \cap@left
21958 \if@RTL
21959 \beginR
21960 \fi
21961 \scr@makesinglelinecaption{#1}{#2}{#3}%
21962 \if@RTL
21963 \endR
21964 \fi
21965 \cap@right
21966 }\par\kern\dp\strutbox%
21967 }%
21968 }\kern-\dp\strutbox
21969 }
21970 \renewcommand{\@makecaption}[2]{%
21971 \if@captionabove
21972 \vskip\belowcaptionskip
21973 \else
21974 \vskip\abovecaptionskip
21975 \fi
21976 \@makecaption\@firstofone{#1}{#2}%
21977 \if@captionabove

```



```

21978 \vskip\abovecaptionskip
21979 \else
21980 \vskip\belowcaptionskip
21981 \fi
21982 }
21983
21984 \renewcommand{\scr@makesinglelinecaption}[3]{%
21985 {\usekomafont{caption}{\strut\ignorespaces
21986 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21987 \ignorespaces #3\unskip}}%
21988 }
21989
21990 \renewcommand{\scr@makemultilinecaption}[3]{%
21991 {%
21992 \usefontofkomafont{caption}{%
21993 \hb@xt@{hsize}{%
21994 \cap@left
21995 \vbox{hsize\cap@width\linewidthhsize
21996 \scr@ifundefinedorrelax{@capttype}{%
21997 \ClassWarning{KOMAClassName}{%
21998 `string\caption' outside float.\MessageBreak
21999 Seems you are using `string\caption' outside a
22000 float.\MessageBreak
22001 Maybe you are using a package that uses
22002 `string\makecaption'\MessageBreak
22003 without setting `string@captive' before.\MessageBreak
22004 Because I cannot detect the caption type, I'm using\MessageBreak
22005 the empty one.%
22006 }%
22007 \let@captive@empty
22008 }-}%
22009 \scr@ifundefinedorrelax{ragged@captive caption}{\raggedcaption}{%
22010 \@nameuse{ragged@captive caption}%
22011 }%
22012 \ifdofullc@p
22013 \@hangfrom{%
22014 \strut
22015 \scr@smashdp{%
22016 #1{%
22017 \usekomafont{caption}{%
22018 \usekomafont{captionlabel}{#2\captionformat}%
22019 }%
22020 }%
22021 }%
22022 }%
22023 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22024 \else
22025 \ifdim\cap@indent<\z@
22026 \strut
22027 #1{%
22028 {\usekomafont{caption}{%
22029 \usekomafont{captionlabel}{#2\captionformat}%
22030 }%
22031 }\par}%

```



```

22032         \noindent{{\usekomafont{caption}{%
22033             \hspace*{-\cap@indent}#3\scr@endstrut
22034         }}\par}%
22035     \else
22036         \if@capbreak
22037             \strut
22038             #1{%
22039                 {\usekomafont{caption}{%
22040                     \usekomafont{captionlabel}{#2\captionformat}%
22041                 }}%
22042             }\par}%
22043         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22044         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22045     \else
22046         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22047         {%
22048             \hspace{-\cap@indent}%
22049             \scr@smashdp{%
22050                 #1{\usekomafont{caption}{%
22051                     \usekomafont{captionlabel}{#2\captionformat}%
22052                 }}%
22053             }%
22054         }%
22055         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22056     }%
22057 \fi
22058 \fi
22059 \fi
22060 }%
22061 \cap@right
22062 }\par\kern\dp\strutbox
22063 }%
22064 }\kern-\dp\strutbox
22065 }
22066
22067
22068 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22069     \if@komalongtable
22070         \renewcommand{\LT@makecaption}[3]{%
22071             \LT@mcol\LT@cols c{%
22072                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22073                     \if@captionabove\else\vskip\belowcaptionskip\fi
22074                     \@makecaption{#1}{#2}{#3}%
22075                     \endgraf
22076                     \if@captionabove\vskip\abovecaptionskip\fi
22077                 }}%
22078                 \hss
22079             }%
22080         }%
22081     }%
22082     \renewcommand*{\scr@LT@array}{}%
22083     \let\scr@LT@array=\LT@array
22084     \renewcommand*{\LT@array}{}%
22085     \def\@captive{table}%

```



```

22086 \ifundefined{LTcapttype}{\{
22087 \Ifstr{LTcapttype}{\}{\let\@capttype\LTcapttype}%
22088 }%
22089 \csname tocbasic_if_caption_above:TF\endcsname
22090 {\@captionabovetrue}{\@captionabovefalse}%
22091 \def\captionabove{\noalign{\global\@captionabovetrue}%
22092 \LT@caption}%
22093 \def\captionbelow{\noalign{\global\@captionabovefalse}%
22094 \LT@caption}%
22095 \scr@LT@array
22096 }%
22097 \ClassInfo{\KOMAClassName}{%
22098 longtable captions redefined%
22099 }%
22100 \fi
22101 }
22102
22103 \CloneTOCEntryStyle{tocline}{part}
22104 \TOCEntryStyleStartInitCode{part}{%
22105 \expandafter\renewcommand%
22106 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22107 \expandafter\renewcommand%
22108 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22109 \expandafter\renewcommand%
22110 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22111 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22112 \expandafter\renewcommand\expandafter*%
22113 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22114 }
22115
22116 \CloneTOCEntryStyle{tocline}{chapter}
22117 \TOCEntryStyleStartInitCode{chapter}{%
22118 \expandafter\renewcommand%
22119 \csname scr@tso@#1@linefill\endcsname{%
22120 \if@chapterentrywithdots
22121 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22122 \else
22123 \hfill
22124 \fi
22125 }%
22126 \expandafter\renewcommand%
22127 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22128 \expandafter\renewcommand%
22129 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22130 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22131 \expandafter\renewcommand\expandafter*%
22132 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22133 }
22134
22135 \CloneTOCEntryStyle{tocline}{section}
22136 \TOCEntryStyleStartInitCode{section}{%
22137 \expandafter\renewcommand%
22138 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22139 \expandafter\renewcommand%

```



```

22140      \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22141          {\normalfont\normalcolor ##1}}%
22142 }
22143
22144 \CloneTOCEntryStyle{section}{default}
22145
22146 \DeclareSectionCommand[%
22147     style=chapter,%
22148     level=\z@,%
22149     pagestyle=plain,%
22150     tocstyle=chapter,%
22151     tocindent=\z@,%
22152     tocnumwidth=1.5em%
22153 ]{chapter}
22154 \DeclareSectionCommand[%
22155     style=section,%
22156     level=1,%
22157     indent=\z@,%
22158     beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22159     afterskip=2.3ex \@plus .2ex,%
22160     tocstyle=section,%
22161     tocindentfollows=chapter,%
22162     tocindent=1.5em,%
22163     tocnumwidth=2.3em%
22164 ]{section}
22165 \DeclareSectionCommand[%
22166     style=part,%
22167     level=\m@ne,%
22168     pagestyle=plain,%
22169     tocstyle=part,%
22170     toclevel=\m@ne,%
22171     tocindent=\z@,%
22172     tocnumwidth=2em%
22173 ]{part}
22174 \DeclareSectionCommand[%
22175     style=section,%
22176     level=2,%
22177     indent=\z@,%
22178     beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22179     afterskip=1.5ex \@plus .2ex,%
22180     tocstyle=section,%
22181     tocindent=3.8em,%
22182     tocnumwidth=3.2em%
22183 ]{subsection}
22184 \DeclareSectionCommand[%
22185     style=section,%
22186     level=3,%
22187     indent=\z@,%
22188     beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22189     afterskip=1.5ex \@plus .2ex,%
22190     tocstyle=section,%
22191     tocindent=7.0em,%
22192     tocnumwidth=4.1em%
22193 ]{subsubsection}

```




```

22194 \DeclareSectionCommand[%
22195   style=section,%
22196   level=4,%
22197   indent=\z@,%
22198   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22199   afterskip=-1em,%
22200   tocindentfollows=subsubsection,%
22201   tocstyle=section,%
22202   tocindent=10em,%
22203   tocnumwidth=5em%
22204 ]{paragraph}
22205 \DeclareSectionCommand[%
22206   style=section,%
22207   level=5,%
22208   indent=\scr@parindent,%
22209   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22210   afterskip=-1em,%
22211   tocstyle=section,%
22212   tocindent=12em,%
22213   tocnumwidth=6em%
22214 ]{subparagraph}

```

145 File sidecap-xetex-bidi.def

```

22215 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package]
22216 \RequirePackage{ragged2e}
22217 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22218   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}}\else%
22219   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}}\fi
22220   \renewcommand*{\SC@justify@caption}{\if@RTL%
22221     \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22222     \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22223
22224 \ifpackagewith{sidecap}{innercaption}{%
22225   \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22226     \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}}
22227     \renewcommand*{\SC@justify@caption}{%
22228       \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
22229     \renewcommand*{\SC@FLOAT}[2]{%
22230       \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}}
22231     \renewcommand*{\SC@justify@caption}{%
22232       \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
22233 }{}
22234
22235 \ifpackagewith{sidecap}{rightcaption}{%
22236   \if@RTL \renewcommand*{\SC@FLOAT}[2]{\#1}\hspace{\sidecaptionsep}{#2}}
22237   \def\SC@justify@caption{\RaggedLeft}\else%
22238   \renewcommand*{\SC@FLOAT}[2]{\#2}\hspace{\sidecaptionsep}{#1}}
22239   \def\SC@justify@caption{\RaggedRight}\fi%
22240 }{}
22241
22242 \ifpackagewith{sidecap}{leftcaption}{%
22243   \if@RTL \renewcommand*{\SC@FLOAT}[2]{\#2}\hspace{\sidecaptionsep}{#1}}
22244   \def\SC@justify@caption{\RaggedRight}\else%

```



```

22245 \renewcommand*{\SC@FLOAT}[2][{\#1}\hspace{\sidecaptionsep}{\#2}}
22246 \def\SC@justify@caption{\RaggedLeft}\fi%
22247 }{}

```

146 File soul-xetex-bidi.def

```

22248 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for Xe
22249 \long\def\SOUL@start#1{%
22250 \let\bidi@RTL@everypar\@empty
22251 \let\<\SOUL@lowerthan
22252 \let\>\empty
22253 \def\soulomit{\noexpand\soulomit}%
22254 \gdef\SOUL@eventuallyexhyphen##1{%
22255 \let\SOUL@soeventuallyskip\relax
22256 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
22257 \@minus\fontdimen4\font
22258 \SOUL@ignorespacesfalse
22259 \leavevmode
22260 \SOUL@preamble
22261 \SOUL@lasttoken={}
22262 \SOUL@word={}
22263 \SOUL@minus\z@
22264 \SOUL@comma\z@
22265 \SOUL@apo\z@
22266 \SOUL@grave\z@
22267 \SOUL@do{\#1}%
22268 \SOUL@postamble
22269 }}
22270 \def\SOUL@ulunderline#1{%
22271 \setbox\z@\hbox{\#1}%
22272 \dimen@=\wd\z@
22273 \dimen@i=\SOUL@uloverlap
22274 \advance\dimen@2\dimen@i
22275 \if@RTL
22276 \unhcopy\z@
22277 \llap{%
22278 \null
22279 \kern-\dimen@i
22280 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22281 }%
22282 \else
22283 \rlap{%
22284 \null
22285 \kern-\dimen@i
22286 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22287 }%
22288 \unhcopy\z@
22289 \fi
22290 }}
22291 \def\bidi@SOUL@ulleaders{%
22292 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\
22293 }
22294 \def\SOUL@uleveryspace#1{%
22295 \if@RTL

```



```

22296      #1%
22297      \bidi@SOUL@ulleaders
22298      \hskip\spaceskip
22299      \else
22300      \SOUL@ulcolor{%
22301      #1%
22302      \SOUL@ulleaders
22303      \hskip\spaceskip
22304      }%
22305      \fi
22306      \null
22307 }

```

147 File stabular-xetex-bidi.def

```

22308 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular packag
22309 \def\@stabular{%
22310   \leavevmode \bgroup \if@RTLtab\beginR \fi
22311   \let\@acol\@tabacol
22312   \let\@classz\@tabclassz
22313   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22314 \def\endstabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
22315   \egroup \if@RTLtab\endR\fi\egroup}
22316 \expandafter \let \csname endstabular*\endcsname = \endstabular
22317 \def\@sarray[#1]#2{%
22318   \bgroup
22319   \setbox\@arstrutbox\hbox{%
22320     \vrule \@height\arraystretch\ht\strutbox
22321     \@depth\arraystretch \dp\strutbox
22322     \@width\z@}%
22323   \@mkpream{#2}%
22324   \edef\@preamble{%
22325     \ialign \noexpand\@halignto
22326       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22327   \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
22328   \let\@tabularnewline\\
22329   \let\@sharp##%
22330   \set@typeset@protect
22331   \lineskip\z@skip\baselineskip\z@skip
22332   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
22333   \@preamble}

```

148 File subfigure-xetex-bidi.def

```

22334 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure pack
22335 \AtBeginDocument{%
22336   \let\p@subfigure=\thefigure
22337   \let\p@subtable=\thetable%
22338 }

```

149 File tabs-xetex-bidi.def

```

22339 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for
22340 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}

```



```

22341
22342 \expandafter\let\csname endtabular*\endcsname=\endtabular
22343
22344 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
22345   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22346   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22347
22348 \def\@array[#1]#2{% remember global variables to allow recursion:
22349   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22350     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22351   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22352   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22353   \else \let\@tarlinesep\tablinesep \fi
22354   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22355   \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22356   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22357   \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22358     \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
22359     \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22360   \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22361     \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22362   \let\protect\noexpand
22363   \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22364     \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22365   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22366   \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
22367   \bgroup \let\par\@empty
22368   \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22369   \advance\extrarulesep.5\arrayrulewidth
22370   \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22371   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
22372   \@preamble}

```

150 File tabularx-xetex-bidi.def

```

22373 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx packag
22374 \def\TX@endtabularx{%
22375   \expandafter\expandafter\expandafter
22376     \TX@find@endtabularxa\csname end\TX@\endcsname
22377     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22378   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22379   \let\verb\TX@verb
22380   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22381   \edef\TX@ckpt{\cl@ckpt}%
22382   \let\@elt\relax
22383   \TX@old@table\maxdimen
22384   \TX@col@width\TX@target
22385   \global\TX@cols\@ne
22386   \TX@typeout@
22387     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22388   \TX@trial{\def\NC@rewrite@X{%
22389     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22390   \loop
22391     \TX@arith

```



```

22392 \ifTX@
22393 \TX@trial{}%
22394 \repeat
22395 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22396 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22397 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22398 \csname tabular*\expandafter\endcsname\expandafter\TX@target
22399 \the\toks@
22400 \csname endtabular*\endcsname}%
22401 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22402 \ifnum0=`{\fi}%
22403 \expandafter\expandafter\expandafter
22404 \TX@find@endtabularxbb
22405 \expandafter\end\expandafter{\TX@}%
22406 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22407 }
22408
22409 \def\TX@trial#1{%
22410 \setbox\@tempboxa\hbox{%
22411 #1\relax
22412 \let\@footnotetext\TX@trial@ftn
22413 \let\@LTRfootnotetext\TX@trial@ftn
22414 \let\@RTLfootnotetext\TX@trial@ftn
22415 \let\TX@vwarn\@empty
22416 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22417 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22418 \def\write{\begingroup
22419 \def\let{\afterassignment\endgroup\toks@}%
22420 \afterassignment\let\count@}%
22421 \hbadness\@M
22422 \hfuzz\maxdimen
22423 \let\hbadness\@tempcnta
22424 \let\hfuzz\@tempdima
22425 \expandafter\tabular\the\toks@
22426 \endtabular}%
22427 \TX@ckpt
22428 \TX@typeout@{\@spaces
22429 \expandafter\TX@align
22430 \the\wd\@tempboxa\space\space\space\space\space\@@
22431 \expandafter\TX@align
22432 \the\TX@col@width\space\space\space\space\space\@@
22433 \@spaces\the\TX@cols}}
22434
22435 \long\def\TX@LTRftntext#1{%
22436 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22437 [\the\csname c@\@mpfn\endcsname]}}%
22438 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22439 \long\def\TX@xLTRftntext[#1]#2{%
22440 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22441
22442 \long\def\TX@RTLftntext#1{%
22443 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22444 [\the\csname c@\@mpfn\endcsname]}}%
22445 \global\TX@ftn\expandafter{\@tempa{#1}}}%

```




```

22494         \special{pdf:econtent }\endL%
22495     }%
22496 }

```

153 File tcolorbox-xetex-bidi.def

```

22497 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox pack
22498 \let\endtcblrbox=\endminipage
22499 \let\endtcbsavebox=\endtcblrbox
22500
22501 \bidi@patchcmd{\tcb@vbox}{%
22502   \let\@footnotetext\@mpfootnotetext%
22503 }{%
22504   \let\@footnotetext\@mpfootnotetext%
22505   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22506   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22507 }{}{}
22508
22509 \bidi@patchcmd{\endtcblrbox}{%
22510   \footnoterule%
22511 }{%
22512   \bidi@mpfootnoterule%
22513 }{}{}
22514 \bidi@apptocmd\tcb@icolorbox{%
22515   \@bidi@list@minipage@parboxfalse
22516 }{}{}

```

154 File thmbox-xetex-bidi.def

```

22517 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package fo
22518 \renewenvironment{thmbox}[2][]{%
22519   \parskip\z@%
22520   \setkeys{thmbox}{#1}%
22521   \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22522     \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22523       \string\thmbox, using M}%
22524     \let\thmbox@style=M%
22525   \fi\fi\fi%
22526   \thmbox@head{#2}\nobreak\relax%
22527   \thmbox@dim=\hsize%
22528   \advance\thmbox@dim-\leftskip%
22529   \advance\thmbox@dim-\rightskip%
22530   \setbox\thmbox@box=\vbox\bgroup%
22531   \if@RTL
22532     \@hboxRconstructtrue
22533   \fi
22534   \hsize=\thmbox@dim%
22535   \advance\hsize -\thmbox@leftmargin%
22536   \advance\hsize -\thmbox@rightmargin%
22537   \textwidth=\hsize%
22538   \linewidth=\hsize%
22539   \vskip\thmbox@vskip%
22540   \begingroup\endgroup%
22541   \vskip\thmbox@vskip%

```



```

22542 \egroup%
22543 \thmbox@start%
22544 \ifx\thmbox@style S\else\thmbox@tail\fi%
22545 \@endparenv}

```

155 File titlesec-xetex-bidi.def

```

22546 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec packag
22547 \renewcommand\filright{%
22548   \gdef\ttl@filleft##1{\hskip##1}%
22549   \gdef\ttl@filright##1{\hfill}%
22550   \let\\\@centercr
22551   \advance\rightskip\z@ \@plus 1fil
22552   \parfillskip\z@}
22553 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22554   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22555   \setlength\leftskip{#6}%
22556   \setlength\rightskip{#7}%
22557   \interlinepenalty\@M
22558   \ttl@change@centercr
22559   \ttl@beginlongest
22560   #1{\ifhmode\ttl@hmode@error\fi
22561     \ttl@glcmds
22562     \parindent\z@
22563     \leavevmode
22564     \begin@group
22565     \ifttl@label
22566       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22567       \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22568       \llap{\box\z@}%
22569       \fi
22570       #4{#8}%
22571       \kern\z@\strut\@par
22572     \endgroup
22573     \nobreak\ttl@midlongest#5\@par}%
22574   \ttl@endlongest}

```

156 File titletoc-xetex-bidi.def

```

22575 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc packag
22576 \renewcommand\filright{%
22577   \gdef\ttl@filleft##1{\hskip##1}%
22578   \gdef\ttl@filright##1{\hfill}%
22579   \let\\\@centercr
22580   \advance\rightskip\z@ \@plus 1fil
22581   \parfillskip\z@}
22582 \renewcommand\contentspush[1]{%
22583   \sbox\z@{#1}%
22584   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22585   \aftergroup\ttl@b
22586   \leavevmode\llap{\box\z@}}
22587 \def\ttl@outnoblock#1#2#3{%
22588   \begin@group
22589   \ifnum\ttl@b>\ttl@a

```




```

22590 \nobreak
22591 \else\ifnum\ttl@b<\ttl@a
22592 \addpenalty{\@secpenalty}%
22593 \else
22594 \addpenalty{\z@}%
22595 \fi\fi
22596 \ttl@contentsstretch
22597 \nobreak
22598 \ifcase#1\relax\else\interlinepenalty\@M\fi
22599 \parindent\z@
22600 \ifx\@nil#2%
22601 \PackageError{titletoc}{Unimplemented}%
22602 {The optional argument is currently mandatory}%
22603 \else
22604 \if@RTL\setlength\rightskip{#2}\else
22605 \setlength\leftskip{#2}\fi%
22606 \fi
22607 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22608 \let\contentsmargin\ttl@margin
22609 \def\ttl@makeline##1{##1}%
22610 #3%
22611 \addtolength{\parfillskip}{-\ttl@corr}%
22612 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22613 \let\ttl@leaders\leaders}
22614 \renewcommand\ttl@margin[2][\z@]{%
22615 \def\ttl@corr{#1}%
22616 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22617 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22618 \def\@pnumwidth{#2}}
22619 \let\ttl@savel@part\l@part
22620 \def\l@part{\ttl@lselect{part}}
22621
22622 \let\ttl@savel@chapter\l@chapter
22623 \def\l@chapter{\ttl@lselect{chapter}}

```

157 File tocbibind-xetex-bidi.def

```

22624 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind pack
22625 \IfClassLoadedT{memoir}{\endinput}
22626 \if@dotocbib
22627 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22628 \renewcommand{\bibsection}{\tcb@bchapsec}
22629 \renewenvironment{thebibliography}[1]{%
22630 \bibsection
22631 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
22632 \renewenvironment{thebibitemlist}[1]{
22633 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22634 \bidi@thebibliography@font@hook%
22635 \list{\@biblabel{\@arabic{cenumiv}}}%
22636 {\settowidth\labelwidth{\@biblabel{#1}}%
22637 \leftmargin\labelwidth
22638 \advance\leftmargin\labelsep
22639 \@openbib@code
22640 \usecounter{enumiv}}%

```



```

22641         \let\p@enumiv\@empty
22642         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
22643     \sloppy
22644     \clubpenalty4000
22645     \@clubpenalty \clubpenalty
22646     \widowpenalty4000%
22647     \sfcode`\.\@m}
22648     {\def\@noitemerr
22649       {\@latex@warning{Empty `thebibliography' environment}}}%
22650     \endlist}
22651
22652 \ApplyPatchCodeToPackage{chapterbib}{%
22653   \@ifpackagewith{chapterbib}{sectionbib}%
22654   {\renewcommand{\sectionbib}[2]{}}%
22655   {}%
22656 }
22657
22658 \fi
22659 \if@inltxdoc\else
22660   \renewenvironment{theindex}%
22661     {\if@twocolumn
22662       \@restonecolfalse
22663     \else
22664       \@restonecoltrue
22665     \fi
22666     \if@bibchapter
22667       \if@donumindex
22668         \refstepcounter{chapter}
22669         \twocolumn[\vspace*{2\topskip}%
22670           \@makechapterhead{\indexname}}%
22671         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22672         \chaptermark{\indexname}
22673       \else
22674         \if@dotocind
22675           \twocolumn[\vspace*{2\topskip}%
22676             \@makeschapterhead{\indexname}}%
22677           \prw@mkboth{\indexname}
22678           \addcontentsline{toc}{chapter}{\indexname}
22679         \else
22680           \twocolumn[\vspace*{2\topskip}%
22681             \@makeschapterhead{\indexname}}%
22682           \prw@mkboth{\indexname}
22683         \fi
22684       \fi
22685     \else
22686       \if@donumindex
22687         \twocolumn[\vspace*{-1.5\topskip}%
22688           \@nameuse{\@tocextra}{\indexname}}%
22689         \csname \@tocextra mark\endcsname{\indexname}
22690       \else
22691         \if@dotocind
22692           \twocolumn[\vspace*{-1.5\topskip}%
22693             \toc@headstar{\@tocextra}{\indexname}}%
22694           \prw@mkboth{\indexname}

```



```

22695         \addcontentsline{toc}{\@tocextra}{\indexname}
22696     \else
22697         \twocolumn[\vspace*{-1.5\topskip}%
22698             \toc@headstar{\@tocextra}{\indexname}]]%
22699         \prw@mkboth{\indexname}
22700     \fi
22701 \fi
22702 \fi
22703 \thispagestyle{plain}\parindent\z@
22704 \parskip\z@ \@plus .3\p@\relax
22705 \let\item\@idxitem}
22706 {\if@restonecol\onecolumn\else\clearpage\fi}
22707 \fi

```

158 File tocloft-xetex-bidi.def

```

22708 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package]
22709 \IfClassLoadedT{memoir}{\endinput}
22710 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
22711 \let\cftdot\@SepMark
22712 \if@cfthaspart
22713 \renewcommand*{\l@part}[2]{
22714     \@cftdopartfalse
22715     \ifnum \c@tocdepth >-2\relax
22716         \if@cfthaschapter
22717             \@cftdoparttrue
22718         \fi
22719         \ifnum \c@tocdepth >\m@ne
22720             \if@cfthaschapter\else
22721                 \@cftdoparttrue
22722             \fi
22723         \fi
22724     \fi
22725     \if@cftdopart
22726         \if@cfthaschapter
22727             \addpenalty{-\@highpenalty}
22728         \else
22729             \addpenalty\@secpenalty
22730         \fi
22731         \addvspace{\cftbeforepartskip}
22732         \begingroup
22733             {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
22734             \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22735             \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22736             \parindent \cftpartindent\relax\@afterindenttrue
22737             \interlinepenalty\@M
22738             \leavevmode
22739             \@tempdima \cftpartnumwidth\relax
22740             \let\@cftbsnum \cftpartpresnum
22741             \let\@cftasnum \cftpartaftersnum
22742             \let\@cftasnumb \cftpartaftersnumb
22743             \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
22744             {\cftpartfont \cftpartpresnum #1}
22745             \cftpartfillnum{#2}}

```



```

22746 \nobreak
22747 \if@cfthaschapter
22748 \global\@nobreaktrue
22749 \everypar{\global\@nobreakfalse\everypar{}}
22750 \else
22751 \if@compatibility
22752 \global\@nobreaktrue
22753 \everypar{\global\@nobreakfalse\everypar{}}
22754 \fi
22755 \fi
22756 \endgroup
22757 \fi}
22758 \fi
22759 \if@cfthaschapter
22760 \renewcommand*{\l@chapter}[2]{
22761 \ifnum \c@tocdepth >\m@ne
22762 \addpenalty{-\@highpenalty}
22763 \vskip \cftbeforechapskip
22764 {\if@RTL\rightright\else\leftskip\fi \cftchapindent\relax
22765 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22766 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22767 \parindent \cftchapindent\relax\@afterindenttrue
22768 \interlinepenalty\@M
22769 \leavevmode
22770 \@tempdima \cftchapnumwidth\relax
22771 \let\@cftbsnum \cftchappresnum
22772 \let\@cftasnum \cftchapaftersnum
22773 \let\@cftasnumb \cftchapaftersnumb
22774 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22775 {\cftchapfont #1}\nobreak
22776 \cftchapfillnum{#2}}
22777 \fi}
22778 \fi
22779 \renewcommand*{\l@section}[2]{\%
22780 \ifnum \c@tocdepth >\z@
22781 \if@cfthaschapter
22782 \vskip \cftbeforesecskip
22783 \else
22784 \addpenalty\@secpenalty
22785 \addvspace{\cftbeforesecskip}
22786 \fi
22787 {\if@RTL\rightright\else\leftskip\fi \cftsecindent\relax
22788 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22789 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22790 \parindent \cftsecindent\relax\@afterindenttrue
22791 \interlinepenalty\@M
22792 \leavevmode
22793 \@tempdima \cftsecnumwidth\relax
22794 \let\@cftbsnum \cftsecpresnum
22795 \let\@cftasnum \cftsecaftersnum
22796 \let\@cftasnumb \cftsecaftersnumb
22797 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22798 {\cftsecfont #1}\nobreak
22799 \cftsecfillnum{#2}}

```



```

22800 \fi}
22801 \renewcommand*{\l@section}[2]{%
22802 \ifnum \c@tocdepth >\@ne
22803 \vskip \cftbeforesubsecskip
22804 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
22805 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22806 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22807 \parindent \cftsubsecindent\relax\@afterindenttrue
22808 \interlinepenalty\@M
22809 \leavevmode
22810 \@tempdima \cftsubsecnumwidth\relax
22811 \let\@cftbsnum \cftsubsecpresnum
22812 \let\@cftasnum \cftsubsecaftersnum
22813 \let\@cftasnumb \cftsubsecaftersnumb
22814 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22815 {\cftsubsecfont #1}\nobreak
22816 \cftsubsecfillnum{#2}}
22817 \fi}
22818 \renewcommand*{\l@subsubsection}[2]{%
22819 \ifnum \c@tocdepth >\tw@
22820 \vskip \cftbeforesubsubsecskip
22821 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
22822 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22823 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22824 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22825 \interlinepenalty\@M
22826 \leavevmode
22827 \@tempdima \cftsubsubsecnumwidth\relax
22828 \let\@cftbsnum \cftsubsubsecpresnum
22829 \let\@cftasnum \cftsubsubsecaftersnum
22830 \let\@cftasnumb \cftsubsubsecaftersnumb
22831 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22832 {\cftsubsubsecfont #1}\nobreak
22833 \cftsubsubsecfillnum{#2}}
22834 \fi}
22835 \renewcommand*{\l@paragraph}[2]{%
22836 \ifnum \c@tocdepth >3\relax
22837 \vskip \cftbeforeparaskip
22838 {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
22839 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22840 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22841 \parindent \cftparaindent\relax\@afterindenttrue
22842 \interlinepenalty\@M
22843 \leavevmode
22844 \@tempdima \cftparanumwidth\relax
22845 \let\@cftbsnum \cftparapresnum
22846 \let\@cftasnum \cftparaaftersnum
22847 \let\@cftasnumb \cftparaaftersnumb
22848 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22849 {\cftparafont #1}\nobreak
22850 \cftparafillnum{#2}}
22851 \fi}
22852 \renewcommand*{\l@subparagraph}[2]{%
22853 \ifnum \c@tocdepth >4\relax

```



```

22854 \vskip \cftbeforesubparaskip
22855 {\if@RTL\rightrightskip\else\leftskip\fi \cftsubparaindent\relax
22856 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22857 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22858 \parindent \cftsubparaindent\relax\@afterindenttrue
22859 \interlinepenalty\@M
22860 \leavevmode
22861 \@tempdima \cftsubparanumwidth\relax
22862 \let\@cftbsnum \cftsubparapresnum
22863 \let\@cftasnum \cftsubparaaftersnum
22864 \let\@cftasnumb \cftsubparaaftersnumb
22865 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\else\leftskip\fi
22866 {\cftsubparafont #1}\nobreak
22867 \cftsubparafillnum{#2}}
22868 \fi}
22869 \renewcommand*{\l@figure}[2]{%
22870 \ifnum \c@lofdepth >\z@
22871 \vskip \cftbeforefigskip
22872 {\if@RTL\rightrightskip\else\leftskip\fi \cftfigindent\relax
22873 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22874 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22875 \parindent \cftfigindent\relax\@afterindenttrue
22876 \interlinepenalty\@M
22877 \leavevmode
22878 \@tempdima \cftfignumwidth\relax
22879 \let\@cftbsnum \cftfigpresnum
22880 \let\@cftasnum \cftfigaftersnum
22881 \let\@cftasnumb \cftfigaftersnumb
22882 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\else\leftskip\fi
22883 {\cftfigfont #1}\nobreak
22884 \cftfigfillnum{#2}}
22885 \fi
22886 }
22887 \renewcommand*{\l@table}[2]{%
22888 \ifnum\c@lotdepth >\z@
22889 \vskip \cftbeforetabskip
22890 {\if@RTL\rightrightskip\else\leftskip\fi \cfttabindent\relax
22891 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22892 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22893 \parindent \cfttabindent\relax\@afterindenttrue
22894 \interlinepenalty\@M
22895 \leavevmode
22896 \@tempdima \cfttabnumwidth\relax
22897 \let\@cftbsnum \cfttabpresnum
22898 \let\@cftasnum \cfttabaftersnum
22899 \let\@cftasnumb \cfttabaftersnumb
22900 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\else\leftskip\fi
22901 {\cfttabfont #1}\nobreak
22902 \cfttabfillnum{#2}}
22903 \fi
22904 }
22905 \renewcommand{\@cftl@subfig}{
22906 \renewcommand*{\l@subfigure}[2]{%
22907 \ifnum \c@lofdepth > \toclevel@subfigure

```



```

22908 \vskip \cftbeforesubfigskip
22909 {\if@RTL\rightright\else\leftskip\fi \cftsubfigindent\relax
22910 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22911 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22912 \parindent \cftsubfigindent\relax\@afterindenttrue
22913 \interlinepenalty\@M
22914 \leavevmode
22915 \@tempdima \cftsubfignumwidth\relax
22916 \let\@cftbsnum \cftsubfigpresnum
22917 \let\@cftasnum \cftsubfigaftersnum
22918 \let\@cftasnumb \cftsubfigaftersnumb
22919 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22920 {\cftsubfigfont ##1}\nobreak
22921 \cftsubfigfillnum{##2}}
22922 \fi
22923 }
22924 }
22925 \renewcommand{\@cftl@subtab}{
22926 \renewcommand*{\l@subtable}[2]{%
22927 \ifnum \c@lotdepth > \toclevel@subtable
22928 \vskip \cftbeforesubtabskip
22929 {\if@RTL\rightright\else\leftskip\fi \cftsubtabindent\relax
22930 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22931 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22932 \parindent \cftsubtabindent\relax\@afterindenttrue
22933 \interlinepenalty\@M
22934 \leavevmode
22935 \@tempdima \cftsubtabnumwidth\relax
22936 \let\@cftbsnum \cftsubtabpresnum
22937 \let\@cftasnum \cftsubtabaftersnum
22938 \let\@cftasnumb \cftsubtabaftersnumb
22939 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22940 {\cftsubtabfont ##1}\nobreak
22941 \cftsubtabfillnum{##2}}
22942 \fi
22943 }
22944 }
22945 \renewcommand{\newlistentry}[4][\@empty]{%
22946 \@ifundefined{c@#2}{% check & set the counter
22947 \ifx \@empty#1\relax
22948 \newcounter{#2}
22949 \else
22950 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
22951 {#1 has no counter for use as a `within'}
22952 \newcounter{#2}}%
22953 {\newcounter{#2}[#1}%
22954 \expandafter\edef\csname the#2\endcsname{%
22955 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22956 \fi
22957 \setcounter{#2}{0}
22958 }
22959 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22960
22961 \@namedef{l@#2}##1##2{%

```



```

22962 \ifnum \@nameuse{cft#3depth} > #4\relax
22963 \vskip \@nameuse{cftbefore#2skip}
22964 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22965 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22966 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22967 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22968 \interlinepenalty\@M
22969 \leavevmode
22970 \@tempdima \@nameuse{cft#2numwidth}\relax
22971 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22972 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22973 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22974 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\ri
22975 {\@nameuse{cft#2font}##1}\nobreak
22976 \@nameuse{cft#2fillnum}{##2}}
22977 \fi
22978 } % end of \l@#2
22979
22980 \expandafter\newlength\csname cftbefore#2skip\endcsname
22981 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
22982 \expandafter\newlength\csname cft#2indent\endcsname
22983 \expandafter\newlength\csname cft#2numwidth\endcsname
22984 \ifcase #4\relax % 0
22985 \setlength{\@nameuse{cft#2indent}}{0em}
22986 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22987 \or % 1
22988 \setlength{\@nameuse{cft#2indent}}{1.5em}
22989 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22990 \or % 2
22991 \setlength{\@nameuse{cft#2indent}}{3.8em}
22992 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22993 \or % 3
22994 \setlength{\@nameuse{cft#2indent}}{7.0em}
22995 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22996 \else % anything else
22997 \setlength{\@nameuse{cft#2indent}}{10.0em}
22998 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22999 \fi
23000 \@namedef{cft#2font}{\normalfont}
23001 \@namedef{cft#2presnum}{\}
23002 \@namedef{cft#2aftersnum}{\}
23003 \@namedef{cft#2aftersnumb}{\}
23004 \@namedef{cft#2dotsep}{\cftdotsep}
23005 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
23006 \@namedef{cft#2pagefont}{\normalfont}
23007 \@namedef{cft#2afterpnum}{\}
23008 \@namedef{toclevel@#2}{#4}
23009 \@namedef{cft#2fillnum}##1{%
23010 {\@nameuse{cft#2leader}}\nobreak
23011 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
23012 } % end \newlistentry
23013 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
23014 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
23015 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax

```




```

23016 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
23017 \textit{#1}\protect\par}}

```

159 File tocbasic-xetex-bidi.def

```

23018 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic packag
23019 \bidi@undef\scr@dte@def@l@undottedtocline
23020 \bidi@undef\scr@dte@undottedtocline@init
23021 \DeclareTOCEntryStyle{undottedtocline}[{%
23022 \DefineTOCEntryLengthOption{indent}%
23023 {scr@tso@}{@indent}{entry indent}%
23024 \DefineTOCEntryLengthOption{numwidth}%
23025 {scr@tso@}{@numwidth}{entry number width}%
23026 \@ifundefined{#1tocdepth}{%
23027 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23028 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23029 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23030 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23031 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23032 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23033 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23034 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23035 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23036 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23037 \csname #1numdepth\endcsname
23038 }%
23039 }%
23040 }%
23041 }%
23042 }%
23043 }%
23044 }%
23045 }%
23046 }%
23047 }{%
23048 \@ifundefined{scr@tso@#1@indent}{%
23049 \@ifundefined{scr@#1@tocindent}{%
23050 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23051 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23052 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23053 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23054 \scr@ifundefinedorrelax{l@chapter}{%
23055 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23056 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23057 \Ifstr{#1}{subsubsection}{%
23058 \@namedef{scr@tso@#1@indent}{3.8em}%
23059 }%
23060 \Ifstr{#1}{paragraph}{%
23061 \@namedef{scr@tso@#1@indent}{7em}%
23062 }%
23063 \Ifstr{#1}{subparagraph}{%
23064 \@namedef{scr@tso@#1@indent}{10em}%
23065 }%
23066 }%

```



```

23067         }%
23068     }%
23069 }%
23070 }%
23071 }{%
23072     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23073         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23074             \Ifstr{#1}{subsubsection}{%
23075                 \@namedef{scr@tso@#1@indent}{7.0em}%
23076             }{%
23077                 \Ifstr{#1}{paragraph}{%
23078                     \@namedef{scr@tso@#1@indent}{10em}%
23079                 }{%
23080                     \Ifstr{#1}{subparagraph}{%
23081                         \@namedef{scr@tso@#1@indent}{12em}%
23082                     }{%
23083                         }%
23084                     }%
23085                 }%
23086             }%
23087         }%
23088     }%
23089 }%
23090 }%
23091 }%
23092 }%
23093 }{%
23094     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23095 }%
23096 }{%}%
23097 \@ifundefined{scr@tso@#1@numwidth}{%
23098     \@ifundefined{scr@#1@tocnumwidth}{%
23099         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23100             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23101                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23102                     \scr@ifundefinedorrelax{chapter}{%
23103                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23104                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23105                                 \Ifstr{#1}{subsubsection}{%
23106                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
23107                                 }{%
23108                                     \Ifstr{#1}{paragraph}{%
23109                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23110                                     }{%
23111                                         \Ifstr{#1}{subparagraph}{%
23112                                             \@namedef{scr@tso@#1@numwidth}{5m}%
23113                                         }{%
23114                                             }%
23115                                         }%
23116                                     }%
23117                                 }%
23118                             }%
23119                         }{%
23120                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%

```



```

23121 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23122 \Ifstr{#1}{subsubsection}{%
23123 \@namedef{scr@tso@#1@numwidth}{3.1em}%
23124 }{%
23125 \Ifstr{#1}{paragraph}{%
23126 \@namedef{scr@tso@#1@numwidth}{5em}%
23127 }{%
23128 \Ifstr{#1}{subparagraph}{%
23129 \@namedef{scr@tso@#1@numwidth}{6em}%
23130 }{%
23131 }%
23132 }%
23133 }%
23134 }%
23135 }%
23136 }%
23137 }%
23138 }%
23139 }%
23140 }{%
23141 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23142 }%
23143 }{}%
23144 }]{%
23145 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@one\relax
23146 \ifnum \@nameuse{#1tocdepth}<\@one
23147 \scr@ifundefinedorrelax{chapter}{%
23148 \addpenalty\@secpenalty
23149 \addvspace{1.0em \@plus\p@}%
23150 }{%
23151 \addpenalty{-\@highpenalty}%
23152 \vskip 1.0em \@plus\p@
23153 }%
23154 \else
23155 \addpenalty\@secpenalty
23156 \addvspace{1.0em \@plus\p@}%
23157 \fi
23158 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23159 \begingroup
23160 \parindent \z@ \bidi@rightskip \@pnumwidth
23161 \parfillskip -\@pnumwidth
23162 \leavevmode
23163 \bfseries
23164 \advance\bidi@leftskip\@tempdima
23165 \Iftocfeature{\@currentx}{noindent}{%
23166 \hskip -\bidi@leftskip
23167 }{%
23168 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23169 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23170 }%
23171 ##1%
23172 \nobreak
23173 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23174 \par

```



```

23175     \penalty\@highpenalty
23176     \endgroup
23177     \fi
23178 }
23179
23180 \bidi@undef\scr@dte@def@l@largetocline
23181 \bidi@undef\scr@dte@largetocline@init
23182 \DeclareTOCEntryStyle{largetocline}{\%
23183   \DefineTOCEntryLengthOption{indent}\%
23184     {scr@tso@}{@indent}{entry indent}\%
23185   \@ifundefined{#1tocdepth}{\%
23186     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{\%
23187       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{\%
23188         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{\%
23189           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{\%
23190             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{\%
23191               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{\%
23192                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{\%
23193                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{\%
23194                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{\%
23195                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
23196                         \csname #1numdepth\endcsname
23197                     }%
23198                   }%
23199                 }%
23200               }%
23201             }%
23202           }%
23203         }%
23204       }%
23205     }%
23206   }{\%
23207     \@ifundefined{scr@tso@#1@indent}{\%
23208       \@ifundefined{scr@#1@tocindent}{\%
23209         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{\%
23210           \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{\%
23211             \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{\%
23212               \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{\%
23213                 \scr@ifundefinedorrelax{l@chapter}{\%
23214                   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{\%
23215                     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{\%
23216                       \Ifstr{#1}{subsubsection}{\%
23217                         \@namedef{scr@tso@#1@indent}{3.8em}%
23218                       }{\%
23219                         \Ifstr{#1}{paragraph}{\%
23220                           \@namedef{scr@tso@#1@indent}{7em}%
23221                         }{\%
23222                           \Ifstr{#1}{subparagraph}{\%
23223                             \@namedef{scr@tso@#1@indent}{10em}%
23224                           }{\%
23225                             }%
23226                           }%
23227                         }%
23228                       }%

```



```

23229         }%
23230     }{%
23231         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23232             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23233                 \Ifstr{#1}{subsubsection}{%
23234                     \@namedef{scr@tso@#1@indent}{7.0em}%
23235                 }{%
23236                     \Ifstr{#1}{paragraph}{%
23237                         \@namedef{scr@tso@#1@indent}{10em}%
23238                     }{%
23239                         \Ifstr{#1}{subparagraph}{%
23240                             \@namedef{scr@tso@#1@indent}{12em}%
23241                         }{%
23242                             }%
23243                         }%
23244                     }%
23245                 }%
23246             }%
23247         }%
23248     }%
23249 }%
23250 }%
23251 }%
23252 }{%
23253     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23254 }%
23255 }{}%
23256 }]{%
23257     \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
23258     \ifnum \@nameuse{#1tocdepth} < \@ne
23259         \scr@ifundefinedorrelax{chapter}{%
23260             \addpenalty\@secpenalty
23261             \addvspace{2.25em \@plus\p}%
23262         }{%
23263             \addpenalty{-\@highpenalty}%
23264             \addvspace{2.25em \@plus\p}%
23265         }%
23266     \else
23267         \addpenalty\@secpenalty
23268         \addvspace{2.25em \@plus\p}%
23269     \fi
23270     \setlength\@tempdima{3em}%
23271     \begingroup
23272         \parindent \z@ \bidi@rightskip \@pnumwidth
23273         \parfillskip -\@pnumwidth
23274         \leavevmode
23275         \large
23276         \bfseries
23277         \Iftocfeature{\@currentx}{noindent}{%
23278             }{%
23279                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23280             }%
23281         ##1%
23282         \hfil \nobreak\hb@xt@{\@pnumwidth}{\hss ##2}%

```



```

23283 \par
23284 \nobreak
23285 \ifnum 0=
23286 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23287 \global\@nobreaktrue
23288 \everypar{\global\@nobreakfalse\everypar{}}%
23289 \fi
23290 \endgroup
23291 \fi
23292 }
23293
23294 \renewcommand*{\scr@dte@tocline}[3]{%
23295 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23296 \else
23297 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23298 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23299 \@nameuse{Ifscr@tso@#1@dynindent}{%
23300 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23301 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23302 \else
23303 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23304 \@for \reserved@a:=\reserved@a\do {%
23305 \scr@trim@spaces\reserved@a
23306 \ifx\reserved@a\@empty\else
23307 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23308 }{%
23309 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23310 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23311 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23312 \scr@ifundefinedorrelax
23313 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23314 \advance\@tempdima
23315 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23316 }{%
23317 \advance\@tempdima
23318 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23319 }%
23320 }{%
23321 \advance\@tempdima
23322 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23323 }%
23324 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23325 \expandafter\edef\csname scr@tso@#1@indent\endcsname
23326 {\the\@tempdima}%
23327 \fi
23328 \fi
23329 }%
23330 \fi
23331 }%
23332 \fi
23333 }{}%
23334 {%
23335 \Iftocfeature{\@currentt}{noindent}{%
23336 \bidi@leftskip \z@

```



```

23337 }{%
23338 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23339 }%
23340 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23341 \parfillskip -\bidi@rightskip
23342 \@nameuse{Ifscr@tso@#1@raggedpage}{%
23343 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23344 }{%
23345 \Iftocfeature{\@currentx}{noindent}{%
23346 \parindent \z@
23347 }{%
23348 \parindent \@nameuse{scr@tso@#1@indent}\relax
23349 }%
23350 \@afterindenttrue
23351 \interlinepenalty\@M
23352 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23353 \addtolength\bidi@rightskip\@flushglue
23354 \else
23355 \def\reserved@a{\raggedright}%
23356 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23357 \addtolength\bidi@rightskip\@flushglue
23358 \else
23359 \renewcommand\reserved@a{\raggedright}%
23360 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23361 \addtolength\bidi@rightskip\@flushglue
23362 \fi
23363 \fi
23364 \fi
23365 \leavevmode
23366 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23367 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23368 \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}%
23369 \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23370 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23371 \fi
23372 }%
23373 }{%
23374 \advance\bidi@leftskip \@tempdima
23375 \null\nobreak\hskip -\bidi@leftskip
23376 }%
23377 \usetocbasicnumberline
23378 \let\scr@dte@numberline@box\numberline@box
23379 \def\numberline@box##1{%
23380 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23381 \global\scr@dte@tocline@numberwidth
23382 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23383 \relax
23384 \ifdim \scr@dte@tocline@numberwidth
23385 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23386 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23387 \fi
23388 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}%
23389 \ifdim \scr@dte@tocline@numberwidth
23390 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%

```



```

23391         +\@nameuse{scr@tso@#1@numsep}\relax\relax
23392     \PackageWarning{tocbasic}{%
23393         number width of #1 toc entries should be
23394         increased!\MessageBreak
23395         Currently used number width =
23396         \the\wd\scr@dte@tocline@numbox,\MessageBreak
23397         Wanted number separation
23398         \space\space\space =
23399         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23400         Reserved number width \space\space\space\space\space\space =
23401         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23402     }%
23403     \fi
23404 }%
23405 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23406 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
23407     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23408 }{%
23409 }%
23410 {\@nameuse{scr@tso@#1@entryformat}{%
23411     #2%
23412     \nobreak
23413     {%
23414         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
23415         \nobreak
23416         \expandafter\let\expandafter\scr@dte@pagenumberwidth
23417         \csname scr@tso@#1@pagenumberwidth\endcsname
23418         \@nameuse{scr@tso@#1@pagenumberbox}{%
23419             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
23420         }%
23421     }%
23422 }}\@par
23423 }%
23424 }%
23425 \tocbasic@SetPenaltyByTOCLevel{#1}%
23426 \fi
23427 }
23428
23429
23430 \bidi@undef\scr@dte@def@l@tocline
23431 \bidi@undef\scr@dte@tocline@init
23432 \DeclareTOCEntryStyle{tocline}{%
23433     \DefineTOCEntryLengthOption{beforeskip}%
23434     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23435     \DefineTOCEntryIfOption{breakafternumber}%
23436     {scr@tso@}{@breakafternumber}{line break after number flag}%
23437     \DefineTOCEntryIfOption{dynnumwidth}%
23438     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23439     \DefineTOCEntryListOption{indentfollows}%
23440     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23441     \DefineTOCEntryIfOption{dynindent}%
23442     {scr@tso@}{@dynindent}{dynamic indent width flag}%
23443     \DefineTOCEntryCommandOption{entryformat}%
23444     {scr@tso@}{@entryformat}[1]{entry format}%

```




```

23445 \DefineTOCEntryCommandOption{entrynumberformat}%
23446 {scr@tso@}{@numberformat}[1]{entry number format}%
23447 \DefineTOCEntryCommandOption{linefill}{\TOCLineLeaderFill}%
23448 {scr@tso@}{@linefill}{filling between text and page number}%
23449 \DefineTOCEntryLengthOption{numsep}%
23450 {scr@tso@}{@numsep}{entry number separation}%
23451 \DefineTOCEntryCommandOption{onstarthigherlevel}%
23452 {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23453 \DefineTOCEntryCommandOption{onstartlowerlevel}%
23454 {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23455 \DefineTOCEntryCommandOption{onstartsamelevel}%
23456 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23457 \DefineTOCEntryCommandOption{pagenumberbox}%
23458 {scr@tso@}{@pagenumberbox}[1]{page number box}%
23459 \DefineTOCEntryCommandOption{pagenumberformat}%
23460 {scr@tso@}{@pagenumberformat}[1]{page number format}%
23461 \DefineTOCEntryLengthOption{pagenumberwidth}%
23462 {scr@tso@}{@pagenumberwidth}{width of page number box}%
23463 \DefineTOCEntryLengthOption{rightindent}%
23464 {scr@tso@}{@rightindent}{entry's text right indent}%
23465 \DefineTOCEntryOption{raggedentrytext}[true]{%
23466 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23467 \ifx\FamilyKeyState\FamilyKeyStateProcessed
23468 \if@tempswa
23469 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23470 \raggedright
23471 \else
23472 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23473 \relax
23474 \fi
23475 \fi
23476 }%
23477 \DefineTOCEntryIfOption{raggedpagenumber}%
23478 {scr@tso@}{@raggedpage}{page number ragged flag}%
23479 \DefineTOCEntryLengthOption{indent}%
23480 {scr@tso@}{@indent}{entry indent}%
23481 \DefineTOCEntryLengthOption{numwidth}%
23482 {scr@tso@}{@numwidth}{entry number width}%
23483 \scr@ifundefinedorrelax{#1tocdepth}{%
23484 \Ifstrstart{#1}{sub}{%
23485 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23486 \expandafter\edef\csname #1tocdepth\endcsname{%
23487 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23488 }%
23489 }%
23490 }{}%
23491 }{}%
23492 \@ifundefined{#1tocdepth}{%
23493 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23494 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23495 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23496 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23497 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23498 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%

```



```

23499         \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23500         \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23501         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23502             \expandafter\let\csname #1tocdepth\expandafter\endcsname
23503             \csname #1numdepth\endcsname
23504         }%
23505     }%
23506 }%
23507 }%
23508 }%
23509 }%
23510 }%
23511 }%
23512 }%
23513 }{}%
23514 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23515     \@ifundefined{scr@#1@tocindent}{%
23516         \Ifstrstart{#1}{sub}{%
23517             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23518                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%}{%
23519                     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23520                         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23521                         \relax
23522                     }%
23523                 }%
23524             }{}%
23525             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23526                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23527                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23528                     \relax
23529                 }%
23530             }{}%
23531             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23532                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23533                 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23534             }%
23535             \relax
23536         }%
23537     }%
23538 }{}%
23539 }{}%
23540     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23541 }%
23542 }{}%
23543 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23544     \Ifstrstart{#1}{sub}{%
23545         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23546             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23547         }{}%
23548         \expandafter\let
23549         \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23550         \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23551     }%
23552 }{}%

```



```

23553     \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23554 }%
23555 }{}%
23556 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23557   \Ifstrstart{#1}{sub}{%
23558     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23559       \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23560     }{%
23561       \expandafter\let
23562       \csname scr@tso@#1@rightindent\expandafter\endcsname
23563       \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23564     }%
23565   }{}%
23566   \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23567 }%
23568 }{}%
23569 \@ifundefined{scr@tso@#1@indent}{%
23570   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23571     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23572       \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23573         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23574           \scr@ifundefinedorrelax{l@chapter}{%
23575             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23576               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23577                 \Ifstr{#1}{subsubsection}{%
23578                   \@namedef{scr@tso@#1@indent}{3.8em}%
23579                 }{%
23580                   \Ifstr{#1}{paragraph}{%
23581                     \@namedef{scr@tso@#1@indent}{7em}%
23582                   }{%
23583                     \Ifstr{#1}{subparagraph}{%
23584                       \@namedef{scr@tso@#1@indent}{10em}%
23585                     }{%
23586                       }%
23587                     }%
23588                   }%
23589                 }%
23590               }%
23591             }{}%
23592             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23593               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23594                 \Ifstr{#1}{subsubsection}{%
23595                   \@namedef{scr@tso@#1@indent}{7.0em}%
23596                 }{%
23597                   \Ifstr{#1}{paragraph}{%
23598                     \@namedef{scr@tso@#1@indent}{10em}%
23599                   }{%
23600                     \Ifstr{#1}{subparagraph}{%
23601                       \@namedef{scr@tso@#1@indent}{12em}%
23602                     }{%
23603                       }%
23604                     }%
23605                   }%
23606                 }%

```



```

23607         }%
23608     }%
23609 }%
23610 }%
23611 }%
23612 }%
23613 }{}%
23614 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23615 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23616 \Ifstrstart{#1}{sub}{%
23617 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23618 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23619 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23620 +.9em%
23621 \relax
23622 }%
23623 }%
23624 }{}%
23625 }{%
23626 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23627 }%
23628 }{}%
23629 \@ifundefined{scr@tso@#1@numwidth}{%
23630 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23631 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23632 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23633 \scr@ifundefinedorrelax{chapter}{%
23634 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23635 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23636 \Ifstr{#1}{subsubsection}{%
23637 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23638 }{%
23639 \Ifstr{#1}{paragraph}{%
23640 \@namedef{scr@tso@#1@numwidth}{4.1em}%
23641 }{%
23642 \Ifstr{#1}{subparagraph}{%
23643 \@namedef{scr@tso@#1@numwidth}{5em}%
23644 }{%
23645 }%
23646 }%
23647 }%
23648 }%
23649 }%
23650 }{}%
23651 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23652 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23653 \Ifstr{#1}{subsubsection}{%
23654 \@namedef{scr@tso@#1@numwidth}{3.1em}%
23655 }{%
23656 \Ifstr{#1}{paragraph}{%
23657 \@namedef{scr@tso@#1@numwidth}{5em}%
23658 }{%
23659 \Ifstr{#1}{subparagraph}{%
23660 \@namedef{scr@tso@#1@numwidth}{6em}%

```



```

23661             }{%
23662             }%
23663         }%
23664     }%
23665 }%
23666 }%
23667 }%
23668 }%
23669 }%
23670 }%
23671 }{}%
23672 \expandafter\renewcommand%
23673 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23674 \expandafter\renewcommand%
23675 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23676 \expandafter\renewcommand%
23677 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23678 \@ifundefined{scr@tso@#1@beforeskip}{%
23679 \Ifstr{#1}{part}{%
23680 \namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23681 }{%
23682 \Ifstr{#1}{chapter}{%
23683 \namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23684 }{%
23685 \Ifstr{#1}{section}{%
23686 \scr@ifundefinedorrelax{1@chapter}{%
23687 \namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23688 }{}%
23689 }{}%
23690 }%
23691 }%
23692 \expandafter\renewcommand\expandafter*%
23693 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23694 }{}%
23695 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23696 \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23697 \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23698 }{}%
23699 \renewcommand*{\scr@dte@donumwidth}{}%
23700 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23701 \expandafter\renewcommand\expandafter*%
23702 \csname scr@tso@#1@numsep\endcsname{.4em}%
23703 \expandafter\renewcommand%
23704 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23705 \Ifstr{#1}{part}{%
23706 \expandafter\providecommand%
23707 \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23708 }{%
23709 \Ifstr{#1}{chapter}{%
23710 \expandafter\providecommand%
23711 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23712 }{%
23713 \scr@ifundefinedorrelax{1@chapter}{%
23714 \Ifstr{#1}{section}{%

```



```

23715         \expandafter\providecommand%
23716         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23717     }{}%
23718 }{}%
23719     \expandafter\providecommand%
23720     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23721 }%
23722 }%
23723 \expandafter\renewcommand
23724 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23725 \@ifundefined{scr@tso@#1@linefill}{%
23726     \Ifstr{#1}{part}{%
23727         \@namedef{scr@tso@#1@linefill}{\hfill}%
23728     }{%
23729         \Ifstr{#1}{chapter}{%
23730             \@namedef{scr@tso@#1@linefill}{\hfill}%
23731         }{%
23732             \scr@ifundefinedorrelax{1@chapter}{%
23733                 \Ifstr{#1}{section}{%
23734                     \@namedef{scr@tso@#1@linefill}{\hfill}%
23735                 }{}%
23736             }{}%
23737             \expandafter\renewcommand%
23738             \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23739         }%
23740     }%
23741 }{}%
23742 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23743 \Ifstr{#1}{part}{%
23744     \expandafter\providecommand%
23745     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23746 }{%
23747     \Ifstr{#1}{chapter}{%
23748         \expandafter\providecommand%
23749         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23750     }{%
23751         \scr@ifundefinedorrelax{1@chapter}{%
23752             \Ifstr{#1}{section}{%
23753                 \expandafter\providecommand%
23754                 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23755             }{}%
23756         }{}%
23757         \expandafter\providecommand%
23758         \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23759             {\normalfont\normalcolor ##1}}%
23760     }%
23761 }%
23762 \expandafter\renewcommand%
23763 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23764     \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23765 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23766 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23767 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23768     \Ifstrstart{#1}{sub}{%

```



```

23769 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23770 \scr@dte@nosub{#1}%
23771 }%
23772 }{%
23773 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23774 }%
23775 }{}%
23776 }]{%
23777 \scr@dte@tocline{#1}{##1}{##2}%
23778 }
23779
23780 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23781 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23782 {\normalfont\normalcolor #1}%
23783 }%
23784 }{}
23785
23786 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23787 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23788 {\normalfont\normalcolor #1}%
23789 }%
23790 }{}
23791

```

160 File `tocstyle-xetex-bidi.def`

```

23792 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23793 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23794 \let\numberline\tocstyle@numberline
23795 \ifnum #1>\c@tocdepth \else
23796 \if@tocstyle@penalties
23797 \begingroup
23798 \@tempcnta 20010
23799 \advance \@tempcnta by -#1
23800 \ifnum \@tempcnta>\lastpenalty
23801 \aftergroup\penalty\aftergroup\@lowpenalty
23802 \fi
23803 \endgroup
23804 \fi
23805 \edef\tocstyledepth{#1}%
23806 \tocstyle@activate@features
23807 \ifx\tocstyle@feature@entryvskip\relax
23808 \vskip \z@ \@plus.2\p@
23809 \else
23810 \addvspace{\tocstyle@feature@entryvskip}%
23811 \fi
23812 {%
23813 \parskip \z@ \parindent \z@ \if@RTL\righskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
23814 \tocstyle@feature@raggedhook
23815 \@tempdima #3\relax
23816 \@tempdimb #2\relax
23817 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23818 \ifnum #1>\z@\relax
23819 \@tempcnta #1\relax \advance\@tempcnta \m@ne

```



```

23820 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23821 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23822 \@tempdimb
23823 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23824 \advance\@tempdimb
23825 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23826 \fi
23827 \fi
23828 \fi
23829 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23830 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23831 \ifdim \@tempdimb>
23832 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23833 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23834 @#1\endcsname{\the\@tempdimb}%
23835 \fi
23836 \else
23837 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23838 @#1\endcsname{\the\@tempdimb}%
23839 \fi
23840 \iftocstyle@autolength
23841 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23842 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23843 \relax
23844 \fi
23845 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23846 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23847 \relax
23848 \fi
23849 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23850 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23851 \else
23852 \@tempdimb #2\relax
23853 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23854 \fi
23855 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23856 \ifdim \@tempdima>
23857 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23858 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23859 @\endcsname{\the\@tempdima}%
23860 \fi
23861 \else
23862 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23863 @\endcsname{\the\@tempdima}%
23864 \fi
23865 \ifcase\tocstyle@indentstyle\relax\else
23866 \@tempdimb \z@
23867 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23868 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23869 \relax
23870 \fi
23871 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23872 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23873 \fi

```




```

23874 \advance\parindent \@tempdimb\@afterindenttrue
23875 \advance\if@RTL\rightrightskip\else\leftskip\fi \parindent
23876 \advance\if@RTL\leftskip\else\rightrightskip\fi \@tocrmarg
23877 \parfillskip -\if@RTL\leftskip\else\rightrightskip\fi
23878 \ifx\tocstyle@feature@parfillskip\relax\else
23879 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23880 \fi
23881 \interlinepenalty\@M
23882 \leavevmode
23883 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima
23884 \null\nobreak
23885 \iftocstyle@indentnotnumbered\else
23886 \hskip -\if@RTL\rightrightskip\else\leftskip\fi
23887 \fi
23888 \tocstyle@feature@entryhook
23889 {#4}\nobreak
23890 \ifx\tocstyle@feature@leaders\relax
23891 \leaders\hbox{$\m@th
23892 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}}%
23893 \mkern \@dotsep mu$\hfill
23894 \else
23895 \tocstyle@feature@leaders
23896 \fi
23897 \nobreak
23898 \ifx\tocstyle@feature@pagenumberbox\relax
23899 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23900 \else
23901 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23902 \fi
23903 \par
23904 }%
23905 \if\tocstyle@penalties
23906 \bgroup
23907 \@tempcnta 20009
23908 \advance\@tempcnta by -#1
23909 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23910 \reserved@a
23911 \fi
23912 \fi}
23913 \renewcommand*{\tocstyle@numberline}[1]{%
23914 \beginngroup
23915 \ifx\tocstyle@feature@spaceafternumber\relax
23916 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
23917 \else
23918 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
23919 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23920 \fi
23921 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23922 \ifdim \@tempdima >
23923 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23924 \expandafter\edef\csname tocstyle@numwidth@\tocstyleTOC
23925 @\tocstyledepth\endcsname{\the\@tempdima}%
23926 \fi
23927 \else

```



```

23928 \expandafter\edef\csname tocstyle@numwidth@\tocstyleTOC
23929 @\tocstyledepth\endcsname{\the\@tempdima}%
23930 \fi
23931 \endgroup
23932 \iftocstyle@indentnotnumbered
23933 \hskip -\if@RTL\rightskip\else\leftskip\fi
23934 \fi
23935 \ifcase \tocstyle@indentstyle
23936 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23937 \or
23938 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23939 \else
23940 \ifx\tocstyle@feature@spaceafternumber\relax
23941 \hbox{\tocstyle@numberline{#1}\enskip}%
23942 \else
23943 \hbox{\tocstyle@numberline{#1}\hskip
23944 \tocstyle@feature@spaceafternumber\relax}%
23945 \fi
23946 \fi
23947 }
23948 \AtBeginDocument{%
23949 \ifcsname l@part\endcsname
23950 \ifcsname l@chapter\endcsname
23951 \setbox\@tempboxa\vbox{\hsize\maxdimen
23952 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23953 \else
23954 \setbox\@tempboxa\vbox{\hsize\maxdimen
23955 \l@part{\tocstyle@l@define{part}{0}}{}}%
23956 \fi
23957 \fi
23958 \ifcsname l@chapter\endcsname
23959 \setbox\@tempboxa\vbox{\hsize\maxdimen
23960 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23961 \fi
23962 \ifcsname l@section\endcsname
23963 \setbox\@tempboxa\vbox{\hsize\maxdimen
23964 \l@section{\tocstyle@l@define{section}{1}}{}}%
23965 \fi
23966 \ifcsname l@subsection\endcsname
23967 \setbox\@tempboxa\vbox{\hsize\maxdimen
23968 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23969 \fi
23970 \ifcsname l@subsubsection\endcsname
23971 \setbox\@tempboxa\vbox{\hsize\maxdimen
23972 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23973 \fi
23974 \ifcsname l@paragraph\endcsname
23975 \setbox\@tempboxa\vbox{\hsize\maxdimen
23976 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23977 \fi
23978 \ifcsname l@subparagraph\endcsname
23979 \setbox\@tempboxa\vbox{\hsize\maxdimen
23980 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23981 \fi

```



```

23982 \ifcsname l@table\endcsname
23983 \setbox\@tempboxa\vbox{\hsize\maxdimen
23984 \l@table{\tocstyle@l@define{table}{1}}{}}%
23985 \fi
23986 \ifcsname l@figure\endcsname
23987 \setbox\@tempboxa\vbox{\hsize\maxdimen
23988 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
23989 \fi
23990 \def\@tempa#1#2#3#4#5{%
23991 \ifnum #1>\c@tocdepth \else
23992 \vskip \z@ \@plus.2\p@
23993 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
23994 \parindent #2\relax\@afterindenttrue
23995 \interlinepenalty\@M
23996 \leavevmode
23997 \@tempdima #3\relax
23998 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\r
23999 {#4}\nobreak
24000 \leaders\hbox{$\m@th
24001 \mkern \dotsep mu\hbox{.}\mkern \dotsep
24002 mu$}\hfill
24003 \nobreak
24004 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
24005 \par}%
24006 \fi}%
24007 \ifx\@dottedtocline\@tempa\else
24008 \tocstyle@macrochangewarning\@dottedtocline
24009 \fi
24010 \let\tocstyle@saved@dottedtocline\@dottedtocline
24011 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
24012 \ifx\numberline\@tempa\else
24013 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
24014 \ifx\numberline\@tempa\else
24015 \tocstyle@macrochangewarning\numberline
24016 \fi
24017 \fi
24018 \let\tocstyle@saved@numberline\numberline
24019 }
24020 \renewcommand*{\tocstyle@l@define}[2]{%
24021 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
24022 \edef\@tempa{%
24023 \noexpand\global\noexpand\let
24024 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24025 \expandafter\noexpand\csname l@#1\endcsname
24026 \noexpand\gdef
24027 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24028 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
24029 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
24030 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24031 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24032 }%
24033 }%
24034 \PackageInfo{tocstyle}{prepare \expandafter\string
24035 \csname l@#1\endcsname\space for redefinition}%

```



```

24036 \@tempa
24037 }

```

161 File todonotes-xetex-bidi.def

```

24038 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes pack
24039 \newif\if@bidi@todonotes@textdirection@RTL
24040 \newif\if@bidi@todonotes@figposition@right
24041 \newcommand{\@bidi@todonotes@align}{}%
24042 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24043 \newcommand{\@bidi@todonotes@textdirection}{}%
24044 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
24045 \ifcase\@bidi@todonotes@tempb\relax
24046 \@bidi@todonotes@textdirection@RTLtrue
24047 \let\@bidi@todonotes@textdirection\RLE
24048 \or
24049 \@bidi@todonotes@textdirection@RTLfalse
24050 \let\@bidi@todonotes@textdirection\LRE
24051 \fi}
24052 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
24053 \ifcase\@bidi@todonotes@tempb\relax
24054 \@bidi@todonotes@figposition@righttrue
24055 \or
24056 \@bidi@todonotes@figposition@rightfalse
24057 \fi}
24058 \if@todonotes@disabled%
24059 \else % \if@todonotes@disabled
24060 \renewcommand{\@todonotes@drawInlineNote}{%
24061 \if@todonotes@dviStyle%
24062 {\par\noindent\begin{tikzpicture}[remember picture]%
24063 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24064 \if@todonotes@authorgiven%
24065 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24066 \else%
24067 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24068 \fi
24069 {\par\noindent\begin{tikzpicture}[remember picture]%
24070 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24071 \else%
24072 {\par\noindent\begin{tikzpicture}[remember picture]%
24073 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24074 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
24075 \if@todonotes@authorgiven%
24076 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@tex
24077 \else%
24078 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24079 \fi};%
24080 \end{tikzpicture}\par}%
24081 \fi}%
24082 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24083 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24084 \node [coordinate] (inText) {};%
24085 \end{tikzpicture}%
24086 \marginpar[{\% Draw note in left margin

```



```

24087 \@todonotes@drawMarginNote%
24088 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24089 }]{% Draw note in right margin
24090 \@todonotes@drawMarginNote%
24091 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24092 }%
24093 }%
24094 \renewcommand{\@todonotes@drawMarginNote}{%
24095 \if@todonotes@dviStyle%
24096 \begin{tikzpicture}[remember picture]%
24097 \draw node[notestyle] {};%
24098 \end{tikzpicture}\\%
24099 \begin{minipage}{\@todonotes@textwidth}%
24100 \if@todonotes@authorgiven%
24101 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24102 \else%
24103 \@todonotes@sizecommand \@todonotes@text%
24104 \fi%
24105 \end{minipage}\\%
24106 \begin{tikzpicture}[remember picture]%
24107 \draw node[notestyle] (inNote) {};%
24108 \end{tikzpicture}%
24109 \else%
24110 \let\originalHbadness\hbadness%
24111 \hbadness 100000%
24112 \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24113 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24114 \node(X){\vphantom{X}};%
24115 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24116 \if@todonotes@authorgiven%
24117 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand\@todonotes@author};%
24118 \node(Y)[below=of X]{};%
24119 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24120 \else%
24121 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24122 \fi%
24123 \end{tikzpicture}%
24124 \hbadness \originalHbadness%
24125 \fi%
24126 \end{tikzpicture}%
24127 \hbadness \originalHbadness%
24128 \fi}%
24129 \renewcommand{\missingfigure}[2][]{%
24130 \setkeys{todonotes}{#1}%
24131 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24132 \par
24133 \noindent
24134 \begin{tikzpicture}
24135 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24136 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24137 \if@bidi@todonotes@figposition@right%
24138 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24139 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24140 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);

```



```

24141 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24142     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24143 \if@bidi@todonotes@figposition@right%
24144 \end{scope}
24145 \begin{scope}[xshift=-3.8cm]
24146 \fi%
24147 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24148 \draw (2, -0.3) node[right, text
24149     width=\@todonotes@currentfigwidth-4.5cm, align=\@bidi@todonotes@align] {#2};
24150 \if@bidi@todonotes@figposition@right%
24151 \end{scope}
24152 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24153 \fi%
24154 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}}
24155 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}}
24156 \if@bidi@todonotes@figposition@right%
24157 \end{scope}
24158 \fi%
24159 \end{tikzpicture}\hfill
24160 }% Ending \missingfigure command
24161 \fi % Ending \@todonotes@ifdisabled
24162 \presetkeys%
24163     {todonotes}%
24164     {align=left,%
24165     textdirection=lefttoright,%
24166     figposition=left}{}%

```

162 File wrapfig-xetex-bidi.def

```

24167 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
24168 \let\WF@@everypar\bidi@n@everypar
24169 \def\WF@putfigmaybe{%
24170 \ifinner
24171     \vskip-\parskip \global\WF@floatfalse
24172 \let\pagetotal\maxdimen % kludge flag for "not top of page"
24173 \else % outer page
24174     \@tempdima\pagedepth % save page depth
24175     {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24176     \penalty\interlinepenalty % update pg. parameters
24177     \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24178     \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24179         \global\WF@floatfalse
24180     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24181 \else
24182     \ifdim\WF@size>\@tempdimb
24183         \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24184         \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24185         \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24186         \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24187         \advance\dimen@.5\baselineskip
24188         \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24189             \global\WF@floatfalse \pagebreak
24190         \fi
24191     \else % \WF@info{Fits in \the\@tempdimb;}%

```



```

24192      \global\WF@floatfalse
24193      \fi\fi
24194      \vskip\@tempdima\relax % (return erased page depth)
24195 \fi
24196 \noindent
24197 \ifWF@float
24198   \WF@fltmes
24199 \else % putting here;
24200   \WF@info{Put \WF@wfname here:}%
24201   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
24202     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24203     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24204   \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24205     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24206     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24207     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24208     \xdef\WF@adjlw{\the\@tempdima}%
24209     \ifnum `l=\WF@place % fig on left
24210       \if@RTL%
24211         \kern\@tempdimb \kern\columnsep
24212         \def\@tempa{\hss}% position to left of the gap
24213       \else%
24214         \hss % figure overlaps space to the left
24215         \def\@tempa{\kern\columnsep}% position to left of the gap
24216       \fi%
24217     \else % fig on right
24218       \if@RTL%
24219         \hss
24220         \@tempdima\z@
24221         \def\@tempa{\kern\columnsep}
24222       \else%
24223         \@tempdima\z@ % no left indentation
24224         \kern\@tempdimb \kern\columnsep
24225         \def\@tempa{\hss}% figure overlaps space to the right
24226       \fi%
24227     \fi
24228     \ifdim\@tempdimb<\hsize
24229       \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24230       \xdef\WF@adjtlm{\the\@tempdima}%
24231     \else
24232       \xdef\WF@wrapil{\z@ \the\hsize}%
24233       \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24234     \fi
24235     \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24236       \global\advance\WF@size-\intextsep
24237     \else % \WF@info{Putting \WF@wfname in middle of page}%
24238       \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24239       \fi \dp\WF@box\z@ \box\WF@box \@tempa
24240   }% end \hbox to Opt
24241   \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24242 \fi}

```

163 File xcolor-xetex-bidi.def



```

24243 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package fo
24244 \long\def\color@b@x#1#2#3%
24245 {\leavevmode\ifmmode\else\ifRTL\beginL\fi\fi
24246 \setbox\z@\hbox{\kern\fbboxsep\set@color\ifRTL\beginR\fi#3\ifRTL\endR\fi}\kern\fbboxsep}
24247 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24248 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24249 {\ifmmode\else\ifRTL\endL\fi\fi}
24250 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\ifRTL\beginL\aftergroup
24251 \DeclareRobustCommand\color
24252 {\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor
24253 \def\@undeclaredcolor[#1]#2%
24254 {\begingroup
24255 \let\@cls\@empty
24256 \XC@getmodclr12{#1}{#2}{}%
24257 {\ifblendcolors
24258 \ifx\colorblend\@empty\else
24259 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24260 \XC@coremodel\@mod\@clr\@xcolor@{ }\@mod\@clr
24261 \fi
24262 \fi
24263 \ifconvertcolorsU
24264 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24265 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24266 \fi
24267 \ifmaskcolors
24268 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24269 \let\@mod\XC@mmod
24270 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24271 \expandafter\XC@mul\@tmp,\@clr
24272 \fi
24273 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24274 \expandafter\endgroup\@tmp}}
24275 \def\@declaredcolor#1%
24276 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24277 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24278 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24279 \ifconvertcolorsU\XC@tsttrue\fi
24280 \fi
24281 \ifXC@tst
24282 \expandafter\XC@declaredcolor\else
24283 \expandafter\XC@declaredc@lor\fi}
24284 \def\XC@undeclaredcolor#1#2%
24285 {\@ifundefinedmodel{#1}%
24286 {\c@lor@error{model `#1'}}%
24287 {\@nameuse{color@#1}\current@color{#2}%
24288 \edef\XC@current@color{\noexpand\xcolor@{ }\current@color}{#1}{#2}}%
24289 \XC@display}\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24290 \def\XC@declaredc@lor
24291 {\XC@let\Nc\XC@current@color{\string\color\XC@tmp}%
24292 \edef\current@color{\XC@current@color}%
24293 \XC@display\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24294 \DeclareRobustCommand\bidicolor
24295 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24296 \def\@bidiundeclaredcolor[#1]#2%

```




```

24297 {\begingroup
24298   \let\@ccls\@empty
24299   \XC@getmodclr12{#1}{#2}{}%
24300   {\ifblendcolors
24301     \ifx\colorblend\@empty\else
24302       \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
24303       \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
24304     \fi
24305   \fi
24306   \ifconvertcolorsU
24307     \edef\@tmp{\XC@tgt@mod{\@mod}}%
24308     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24309   \fi
24310   \ifmaskcolors
24311     \convertcolorspec\@mod\@clr\XC@mmod\@clr
24312     \let\@mod\XC@mmod
24313     \XC@inflate\@mod\XC@mclr\@clr\@tmp
24314     \expandafter\XC@mul\@tmp,\@clr
24315   \fi
24316   \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24317   \expandafter\endgroup\@tmp}}
24318 \def\XC@bidiundeclaredcolor#1#2%
24319 {\@ifundefinedmodel{#1}%
24320  {\color@error{model `#1'}}%
24321  {\@nameuse{color@#1}\current@color{#2}}%
24322  \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24323  \XC@display}}
24324 \def\@bidideclaredcolor#1%
24325 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24326  \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24327    \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24328    \ifconvertcolorsU\XC@tsttrue\fi
24329  \fi
24330  \ifXC@tst
24331    \expandafter\XC@bidideclaredcolor\else
24332    \expandafter\XC@bidideclaredcolor\fi}
24333 \def\XC@bidideclaredcolor
24334 {\XC@split\XC@tmp
24335  \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
24336  \expandafter\endgroup\@tmp}
24337 \def\XC@bidideclaredcolor
24338 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24339  \edef\current@color{\XC@current@color}%
24340  \XC@display}
24341 \def\color@box#1#2{\color@bex\relax{\bidicolor#1{#2}}}
24342 \def\color@fbbox#1#2#3{\protect\color@fbex{#1}{#2}{#3}}
24343 \def\color@fbex#1#2#3#4%
24344  {\color@bex{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
24345  {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24346 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

164 File latex-xetex-bidi.def

24347 \ProvidesFile{latex-xetex-bidi.def}[2025/09/20 v1.5.3 bidi adaptations for `latex.ltx' for



```

24348 \newcommand{\TeXeTOn}{\TeXeTstate\@ne}
24349 \newcommand{\TeXeTOff}{\TeXeTstate\z@}
24350 \TeXeTOn
24351 \def\ bidi@RTL@everypar{{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
24352   \let\ bidi@o@everypar=\everypar
24353   \newtoks\ bidi@n@everypar
24354   \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
24355   \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
24356   \let\everypar=\ bidi@n@everypar
24357 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24358 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24359 \protected\def\ hboxR{\ hbox\ bgroup
24360   \everyhbox{%
24361     \aftergroup\egroup
24362     \everyhbox{}}%
24363   \beginR
24364   \@ hboxRconstructtrue
24365   \bgroup
24366   \aftergroup\endR
24367   \aftergroup\egroup
24368   }\ hbox}
24369 \protected\def\ hboxL{\ hbox\ bgroup
24370   \everyhbox{%
24371     \aftergroup\egroup
24372     \everyhbox{}}%
24373   \beginL
24374   \@ hboxRconstructfalse
24375   \bgroup
24376   \aftergroup\endL
24377   \aftergroup\egroup
24378   }\ hbox}
24379 \protected\def\ vboxR{\ vbox\ bgroup
24380   \everyvbox{%
24381     \aftergroup\egroup
24382     \everyvbox{}}%
24383   \@RTLtrue
24384   \@RTLtabtrue
24385   \bgroup
24386   \aftergroup\egroup
24387   }\ vbox}
24388 \protected\def\ vboxL{\ vbox\ bgroup
24389   \everyvbox{%
24390     \aftergroup\egroup
24391     \everyvbox{}}%
24392   \@RTLfalse
24393   \@RTLtabfalse
24394   \bgroup
24395   \aftergroup\egroup
24396   }\ vbox}
24397 \newcommand*{\ bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
24398 \newcommand*{\ bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
24399 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\ bidi@be
24400 \def\endLTR{\par}
24401 \newenvironment{LTR*}{\LTR

```



```

24402 \everypar{%
24403     {\setbox\z@\lastbox
24404       \ifvoid\z@
24405         \kern-\parindent
24406       \fi}%
24407 }%
24408 }\endLTR\@endpetrue}
24409 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
24410 \def\endRTL{\par}
24411 \newenvironment{RTL*}{\RTL
24412   \everypar{%
24413     {\setbox\z@\lastbox
24414       \ifvoid\z@
24415         \kern-\parindent
24416       \fi}%
24417   }%
24418 }\endRTL\@endpetrue}
24419 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\bidi@beamer@ragged}
24420 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\bidi@beamer@ragged}
24421 \let\unsetRTL=\setLTR
24422 \let\unsetLTR=\setRTL
24423 \let\LR=\LRE
24424 \let\RL=\RLE
24425 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24426 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24427 \let\@ensure@RL=\@ensure@RTL
24428 \let\@ensure@LR=\@ensure@LTR
24429 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24430 \let\@ensure@maindir=\@ensure@dir
24431 \def\@RTL{RTL}
24432 \def\@LTR{LTR}
24433 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
24434 \def\reset@dir{\ifx\saved@@dir\@RTL\setRTL\else\ifx\saved@@dir\@LTR\setLTR\else\relax\fi}
24435 \let\@TeX\TeX
24436 \def\TeX{\@ensure@LTR{\@TeX}}
24437 \let\@LaTeX\LaTeX
24438 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24439 \let\@LaTeXe\LaTeXe
24440 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24441 \long\def\bidi@reflect@box#1{%
24442   \leavevmode
24443   \setbox\z@\hbox{#1}}%
24444   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
24445   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
24446 }
24447 \if@bidi@csundef{XeTeX}{%
24448   \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24449     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
24450 }{%
24451   \let\@bidi@orig@XeTeX\XeTeX
24452   \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24453 }
24454 \if@bidi@csundef{XeLaTeX}{%
24455   \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex

```



```

24456 \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24457 }{%
24458 \let\@bidi@orig@XeLaTeX\XeLaTeX
24459 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24460 }
24461 \let\setRL=\setRTL
24462 \let\setLR=\setLTR
24463 \let\unsetRL=\setLTR
24464 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24465 \ApplyPatchIfPackageLoaded{array}{%
24466 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24467 \leavevmode
24468 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24469 \let\dollarend\end\group
24470 \@tabarray}
24471 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24472 }{%
24473 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24474 \leavevmode \hbox \bgroup
24475 $\left.\let\@acol\@tabacol
24476 \let\@classz\@tabclassz
24477 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24478
24479 \def\endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
24480 \egroup\right\rbrace $\egroup}}
24481 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24482 \ialign{$##\hfil$\quad{##}\hfil\crrc#1\crrc}}\,\right\}}
24483 \renewenvironment{RTLcases}{%
24484 \bidi@matrix@check\RTLcases\env@RTLcases
24485 }{%
24486 \endbidi@tabular@RTLcases%
24487 }
24488 \def\env@RTLcases{%
24489 \let\@ifnextchar\bidi@new@ifnextchar
24490 \def\arraystretch{1.2}%
24491 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
24492 }
24493 \def\SepMark#1{\gdef\@SepMark{#1}}
24494 \SepMark{.}
24495 \def\@thmcountersep{\@SepMark}
24496 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24497 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24498 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24499 \newcommand*{\bidi@thebibliography@font@hook}{ }
24500 \def\list#1#2{%
24501 \ifnum \@listdepth >5\relax
24502 \@toodeep
24503 \else
24504 \global\advance\@listdepth\@ne
24505 \fi
24506 \rightmargin\z@
24507 \listparindent\z@
24508 \itemindent\z@
24509 \csname @list\romannumeral\the\@listdepth\endcsname

```



```

24510 \def\@itemlabel{#1}%
24511 \let\makelabel\@mklab
24512 \@nmbrlistfalse
24513 #2\relax
24514 \@trivlist
24515 \parskip\parsep
24516 \parindent\listparindent
24517 \advance\linewidth -\rightmargin
24518 \advance\linewidth -\leftmargin
24519 \if@bidi@list@minipage@parbox
24520 \if@RTL
24521 \advance\@totalleftmargin \leftmargin
24522 \else
24523 \advance\@totalleftmargin \rightmargin
24524 \fi
24525 \else
24526 \if@hboxRconstruct
24527 \if@bidi@list@minipage@parbox@not@nob
24528 \if@RTL
24529 \advance\@totalleftmargin \rightmargin
24530 \else
24531 \advance\@totalleftmargin \leftmargin
24532 \fi
24533 \else
24534 \if@RTL
24535 \advance\@totalleftmargin \leftmargin
24536 \else
24537 \advance\@totalleftmargin \rightmargin
24538 \fi\fi
24539 \else
24540 \if@RTL
24541 \advance\@totalleftmargin \rightmargin
24542 \else
24543 \advance\@totalleftmargin \leftmargin
24544 \fi\fi\fi
24545 \parshape \@ne \@totalleftmargin \linewidth
24546 \ignorespaces}
24547 \long\def\@iiiparbox#1#2[#3]#4#5{%
24548 \leavevmode
24549 \@pboxswfalse
24550 \if@hboxRconstruct
24551 \@bidi@list@minipage@parbox@not@nobtrue
24552 \fi
24553 \if@RTL
24554 \ifx#1t%
24555 \@bidi@list@minipage@parboxtrue
24556 \else
24557 \ifx#1b%
24558 \@bidi@list@minipage@parboxtrue
24559 \fi
24560 \fi
24561 \fi
24562 \setlength\@tempdima{#4}%
24563 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%

```



```

24564 \ifx\relax#2\else
24565 \setlength\@tempdimb{#2}%
24566 \edef\@parboxto{to\the\@tempdimb}%
24567 \fi
24568 \if#1b\vbox
24569 \else\if #1t\vtop
24570 \else\ifmmode\vcenter
24571 \else\@pboxswtrue $\vcenter
24572 \fi\fi\fi
24573 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24574 \csname bm@#3\endcsname}%
24575 \if@pboxsw \m@th$\fi
24576 \@end@tempboxa}
24577 \newenvironment{LTRitems}
24578 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24579 \if@bidi@list@minipage@parbox
24580 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24581 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24582 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24583 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24584 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24585 \ignorespaces}{\vskip\z@}
24586 \newenvironment{RTLitems}
24587 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24588 \if@bidi@list@minipage@parbox
24589 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24590 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24591 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24592 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24593 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24594 \ignorespaces}{\vskip\z@}
24595 \newenvironment{LTRbibitems}
24596 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24597 \if@bidi@list@minipage@parbox
24598 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24599 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24600 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24601 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24602 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24603 \ignorespaces}{\vskip\z@}
24604 \newenvironment{RTLbibitems}
24605 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24606 \if@bidi@list@minipage@parbox
24607 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24608 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24609 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24610 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24611 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24612 \ignorespaces}{\vskip\z@}
24613 \def\raggedright{%
24614 \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24615 \leftskip\z@skip
24616 \parindent\z@\parfillskip\z@skip}
24617 \let\@bidi@orig@raggedleft\raggedleft

```



```

24618 \let\@bidi@orig@raggedright\raggedright
24619 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRc
24620 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRc
24621 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24622 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24623 \DeclareRobustCommand\centerline[1]{%
24624 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24625 \else\@@line{\hss#1\hss}\fi}
24626 \def\@bidi@orig@leftline#1{%
24627 \if@RTL\@@line{\beginR#1\endR\hss}
24628 \else\@@line{#1\hss}\fi}
24629 \def\@bidi@orig@rightline#1{%
24630 \if@RTL\@@line{\hss\beginR#1\endR}
24631 \else\@@line{\hss#1}\fi}
24632 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@le
24633 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@ri
24634 \DeclareRobustCommand\bidirlap[1]{\hb@xt@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24635 \DeclareRobustCommand\bidillap[1]{\hb@xt@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24636 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
24637 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24638 \def\narrower{%
24639 \advance\if@RTL\rightright\else\leftskip\fi\parindent
24640 \advance\if@RTL\leftskip\else\rightright\fi\parindent}
24641 \DeclareRobustCommand\underline[1]{%
24642 \relax
24643 \ifmmode\@@underline{#1}%
24644 \else
24645 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24646 \else
24647 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24648 \if@compatibility
24649 \let\undertext=\underline
24650 \fi
24651 \def\@tabular{%
24652 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24653 $\let\@acol\@tabacol
24654 \let\@classz\@tabclassz
24655 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24656 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24657 \egroup $\if@RTLtab\endR\fi\egroup}
24658 \expandafter \let \csname endtabular*\endcsname = \endtabular
24659 \def\@array[#1]#2{%
24660 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24661 \bgroup
24662 \setbox\@arstrutbox\hbox{%
24663 \vrule \@height\arraystretch\ht\strutbox
24664 \@depth\arraystretch \dp\strutbox
24665 \@widthz@}%
24666 \mkpream{#2}%
24667 \edef\@preamble{%
24668 \ialign \noexpand\@halignto
24669 \bgroup \@arstrut \@preamble \tabskipz@skip \cr}%
24670 \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
24671 \let\@tabularnewline\\%

```



```

24672 \let\par\@empty
24673 \let\@sharp##%
24674 \set@typeset@protect
24675 \lineskip\z@skip\baselineskip\z@skip
24676 \ifhmode \@preamerr\z@ \@par\fi
24677 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24678 \@preamble}
24679 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24680 \let\@classiv\@arrayclassiv
24681 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
24682 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24683 \ifnum \@lastchclass=3 5 \else
24684 \z@ \if #1c\@chnum \z@ \else
24685 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24686 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24687 \@chclass \if #1l\@ne \else
24688 \if #1@ \tw@ \else
24689 \if #1p3 \else \z@ \@preamerr 0\fi
24690 \fi \fi \fi \fi \fi \fi
24691 \fi}
24692 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24693 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24694 \def\bm@t{\unhbox\@tempboxa\hss}
24695 \def\bm@b{\hss\unhbox\@tempboxa}
24696 \def\@dottedtocline#1#2#3#4#5{%
24697 \ifnum #1>\c@tocdepth \else
24698 \vskip \z@ \@plus.2\p@
24699 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
24700 \parindent #2\relax\@afterindenttrue
24701 \interlinepenalty\@M
24702 \leavevmode
24703 \@tempdima #3\relax
24704 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
24705 {#4}\nobreak
24706 \leaders\hbox{\$}\m@th
24707 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24708 mu$}\hfill
24709 \nobreak
24710 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
24711 \par}%
24712 \fi}
24713
24714 \newcount\@bidi@column@check@number
24715
24716 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
24717
24718 \def\@bidi@set@column@status#1#2{%
24719 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
24720
24721 \if@twocolumn
24722 \newcommand\DetectColumn[3][1]{%
24723 \ifx\@bidi@firstcolumn@status@write\relax
24724 \PackageError{bidi}%
24725 {Option 'DetectColumn' not selected}%

```




```

24726     {\string\DetectColumn\space
24727       requires the use of the 'DetectColumn'
24728       option on the package}%
24729 \fi
24730 \global\advance\bidicolumn@check@number\@ne
24731 \edef\bidicolumn@type{\expandafter\ifx
24732     \csname bidi@column-\the\bidicolumn@check@number\endcsname\relax
24733     0\else
24734     \csname bidi@column-\the\bidicolumn@check@number\endcsname
24735     \fi}%
24736 \ifcase \bidicolumn@type\relax
24737     \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
24738 \or
24739     #2% % 1 First column
24740 \or
24741     #3% % 2 Second (Last column)
24742 \else
24743     \ERROR
24744 \fi
24745 \edef\next{\write\@auxout
24746     {\string\bidiset@column@status{\bidicolumn-\the\bidicolumn@check@number}%
24747     {\bidicolumn@type}}}%
24748 \next
24749 }
24750
24751 \AtEndDocument{\def\bidiset@column@status#1#2{%
24752     \ifnum #2=\bidicurrent@column@status\else
24753     \@tempwattrue
24754     \fi}%
24755 }
24756 \fi
24757
24758 \def\RTL@outputdblcol{%
24759     \if@firstcolumn
24760     \global\@firstcolumnfalse
24761     \global\setbox\@leftcolumn\copy\@outputbox
24762     \splitmaxdepth\maxdimen
24763     \vbadness\maxdimen
24764     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24765     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24766     \toks@\expandafter{\topmark}%
24767     \xdef\@firstcoltopmark{\the\toks@}%
24768     \toks@\expandafter{\splitfirstmark}%
24769     \xdef\@firstcolfirstmark{\the\toks@}%
24770     \ifx\@firstcolfirstmark\@empty
24771     \global\let\@setmarks\relax
24772     \else
24773     \gdef\@setmarks{%
24774         \let\firstmark\@firstcolfirstmark
24775         \let\topmark\@firstcoltopmark}%
24776     \fi
24777     \else
24778     \global\@firstcolumntrue
24779     \setbox\@outputbox\vbox{%

```



```

24780 \hb@xt@\textwidth{%
24781 \hskip \columnwidth
24782 \hfil
24783 {\normalcolor\vrule \@width\columnseprule}%
24784 \hfil
24785 \hb@xt@\columnwidth{%
24786 \bidi@firstcolumn@status@write%
24787 \box\@leftcolumn \hss}%
24788 \hskip -\textwidth
24789 \hb@xt@\columnwidth{%
24790 \bidi@lastcolumn@status@write%
24791 \box\@outputbox \hss}%
24792 \hskip \columnsep
24793 \hskip \columnwidth }%
24794 \@combinedblfloats
24795 \@setmarks
24796 \@outputpage
24797 \begingroup
24798 \@dblfloatplacement
24799 \@startdblcolumn
24800 \@whiles\if@fcolmade \fi{\@outputpage
24801 \@startdblcolumn}%
24802 \endgroup
24803 \fi}%
24804
24805 \def\LTR@outputdblcol{%
24806 \if@firstcolumn
24807 \global\@firstcolumnfalse
24808 \global\setbox\@leftcolumn\copy\@outputbox
24809 \splitmaxdepth\maxdimen
24810 \vbadness\maxdimen
24811 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24812 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24813 \toks@\expandafter{\topmark}%
24814 \xdef\@firstcoltopmark{\the\toks@}%
24815 \toks@\expandafter{\splitfirstmark}%
24816 \xdef\@firstcolfirstmark{\the\toks@}%
24817 \ifx\@firstcolfirstmark\@empty
24818 \global\let\@setmarks\relax
24819 \else
24820 \gdef\@setmarks{%
24821 \let\firstmark\@firstcolfirstmark
24822 \let\topmark\@firstcoltopmark}%
24823 \fi
24824 \else
24825 \global\@firstcolumntrue
24826 \setbox\@outputbox\vbox{%
24827 \hb@xt@\textwidth{%
24828 \hb@xt@\columnwidth{%
24829 \bidi@firstcolumn@status@write%
24830 \box\@leftcolumn \hss}%
24831 \hfil
24832 {\normalcolor\vrule \@width\columnseprule}%
24833 \hfil

```



```

24834      \hb@xt@\columnwidth{%
24835      \bidi@lastcolumn@status@write%
24836      \box\@outputbox \hss}}}%
24837 \combinedblfloats
24838 \setmarks
24839 \@outputpage
24840 \beginngroup
24841 \dblfloatplacement
24842 \startdblcolumn
24843 \whiles\if@fcolmade \fi{\@outputpage
24844 \startdblcolumn}%
24845 \endgroup
24846 \fi}%
24847
24848
24849 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24850 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24851 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24852
24853 \bidi@appto\@outputbox@appendfootnotes{%
24854 \ifvoid\@bidi@copyins@
24855 \else
24856 \@outputbox@append{%
24857 \vskip \skip\@bidi@copyins@
24858 \color@beginngroup
24859 \normalcolor
24860 \unvbox \@bidi@copyins@
24861 \color@endgroup
24862 }%
24863 \fi
24864 }
24865
24866 \def\LTRmarginpar{%
24867 \ifhmode
24868 \bsphack
24869 \@floatpenalty -\@Mii
24870 \else
24871 \@floatpenalty-\@Miii
24872 \fi
24873 \ifinner
24874 \@parmoderr
24875 \@floatpenalty\z@
24876 \else
24877 \@next\@currbox\@freelist{}{}%
24878 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24879 {\@floatpenalty\z@
24880 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24881 \fi
24882 \@ifnextchar [\@LTRxmpar\@LTRympar}
24883 \long\def\@LTRxmpar[#1]#2{%
24884 \LTRsavemarbox\@marbox{#1}%
24885 \LTRsavemarbox\@currbox{#2}%
24886 \xympar}
24887 \long\def\@LTRympar#1{%

```



```

24888 \LTRsavemarbox\@marbox{#1}%
24889 \global\setbox\@currbox\copy\@marbox
24890 \xympar}
24891 \long\def \LTRsavemarbox #1#2{%
24892 \global\setbox #1%
24893 \color@vbox
24894 \vtop{%
24895 \hsize\marginparwidth
24896 \@parboxrestore
24897 \LTRmarginparreset
24898 #2%
24899 \@minipagefalse
24900 \outer@nobreak
24901 }%
24902 \color@endbox
24903 }
24904 \def \LTRmarginparreset {%
24905 \reset@font
24906 \normalsize
24907 \@minipagetrue
24908 \everypar{\@minipagefalse\everypar{}\beginL}%
24909 }
24910 \def\RTLmarginpar{%
24911 \ifhmode
24912 \bsphack
24913 \@floatpenalty -\@Mii
24914 \else
24915 \@floatpenalty-\@Miii
24916 \fi
24917 \ifinner
24918 \@parmoderr
24919 \@floatpenalty\z@
24920 \else
24921 \@next\@currbox\@freelist{}\{}%
24922 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24923 {\@floatpenalty\z@
24924 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24925 \fi
24926 \@ifnextchar [\@RTLxmpar\@RTLympar}
24927 \long\def\@RTLxmpar[#1]#2{%
24928 \RTLsavemarbox\@marbox{#1}%
24929 \RTLsavemarbox\@currbox{#2}%
24930 \xympar}
24931 \long\def\@RTLympar#1{%
24932 \RTLsavemarbox\@marbox{#1}%
24933 \global\setbox\@currbox\copy\@marbox
24934 \xympar}
24935 \long\def \RTLsavemarbox #1#2{%
24936 \global\setbox #1%
24937 \color@vbox
24938 \vtop{%
24939 \hsize\marginparwidth
24940 \@parboxrestore
24941 \RTLmarginparreset

```



```

24942      #2%
24943      \@minipagefalse
24944      \outer@nobreak
24945      }%
24946      \color@endbox
24947 }
24948 \def \@RTLmarginparreset {%
24949     \reset@font
24950     \normalsize
24951     \@minipagetrue
24952     \everypar{\@minipagefalse\everypar{}\beginR}%
24953 }
24954 \def \@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24955     \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24956     \if@twocolumn
24957         \if@firstcolumn \@tempcnta\m@ne \fi
24958     \else
24959         \if@mparswitch
24960             \ifodd\c@page \else\@tempcnta\m@ne \fi
24961         \fi
24962         \if@reversemargin \@tempcnta -\@tempcnta \fi
24963     \fi
24964     \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24965     \@tempdima\@mparbottom
24966     \advance\@tempdima -\@pageht
24967     \advance\@tempdima\ht\@marbox
24968     \ifdim\@tempdima >\z@
24969         \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24970     \else
24971         \@tempdima\z@
24972     \fi
24973     \global\@mparbottom\@pageht
24974     \global\advance\@mparbottom\@tempdima
24975     \global\advance\@mparbottom\dp\@marbox
24976     \global\advance\@mparbottom\marginparpush
24977     \advance\@tempdima -\ht\@marbox
24978     \global\setbox \@marbox
24979         \vbox {\vskip \@tempdima
24980             \box \@marbox}%
24981     \global \ht\@marbox \z@
24982     \global \dp\@marbox \z@
24983     \kern -\@pagedp
24984     \nointerlineskip
24985     \hb@xt@\columnwidth
24986     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
24987         \hskip\columnwidth \hskip\marginparsep
24988     \else
24989         \hskip -\marginparsep \hskip -\marginparwidth
24990     \fi
24991     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\fi
24992     \nointerlineskip
24993     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
24994 \long\def\@ympar#1{%
24995     \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmargin

```



```

24996 \global\setbox\@currbox\copy\@marbox
24997 \@xympar}
24998 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
24999 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25000 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25001 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25002 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25003 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25004 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25005 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25006 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
25007 \fi}
25008
25009 \newcommand*{\bidi@font@outputpage}{\}
25010
25011 \def\@outputpage{%
25012 \begingroup % the \endgroup is put in by \aftergroup
25013 \let \protect \noexpand
25014 \@resetactivechars
25015 \global\let\@if@newlist\if@newlist
25016 \global\@newlistfalse
25017 \@parboxrestore
25018 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25019 \bidi@beforeoutputpageshipouthook
25020 \shipout \vbox{%
25021 \set@typeset@protect
25022 \aftergroup \endgroup
25023 \aftergroup \set@typeset@protect
25024 % correct? or just restore by ending
25025 % the group?
25026 \if@specialpage
25027 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25028 \fi
25029 \if@twoside
25030 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25031 \if@RTLmain
25032 \let\@themargin\evensidemargin
25033 \else
25034 \let\@themargin\oddsidemargin
25035 \fi
25036 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25037 \if@RTLmain
25038 \let\@themargin\oddsidemargin
25039 \else
25040 \let\@themargin\evensidemargin
25041 \fi
25042 \fi
25043 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25044 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25045 \else %% not @twoside
25046 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25047 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25048 \fi
25049 \reset@font

```



```

25050 \normalsize
25051 \bidi@font@@outputpage
25052 \normalsfcodes
25053 \let\label\@gobble
25054 \let\index\@gobble
25055 \let\glossary\@gobble
25056 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25057 \@beginndvi
25058 \vskip \topmargin
25059 \moveright\@themargin \vbox {%
25060   \global\let\bidi@BeforeHeader\@firstofone
25061   \bidi@beforeheaderhook
25062   \setbox\@tempboxa \vbox to\headheight{%
25063     \vfil
25064     \color@hbox
25065     \normalcolor
25066     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\i
25067     \color@endbox
25068   }%
25069   \dp\@tempboxa \z@
25070   \box\@tempboxa
25071   \vskip \headsep
25072   \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
25073   \bidi@beforeoutputboxoutputpagehook
25074   \box\@outputbox
25075   \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
25076   \bidi@afteroutputboxoutputpagehook
25077   \global\let\bidi@BeforeFooter\@firstofone
25078   \bidi@beforefooterhook
25079   \baselineskip \footskip
25080   \color@hbox
25081   \normalcolor
25082   \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25083   \color@endbox
25084   \global\let\bidi@AfterFooter\@firstofone
25085   \bidi@afterfooterhook
25086 }%
25087 }%
25088 \global\let\bidi@AfterOutputPageShipOut\@firstofone
25089 \bidi@afteroutputpageshipouthook
25090 \global\let\if@newlist\@if@newlist
25091 \global \colht \textheight
25092 \stepcounter{page}%
25093 \let\firstmark\botmark
25094 \global\let\bidi@AtEndOutputPage\@firstofone
25095 \bidi@atendoutputpagehook
25096 }
25097 \long\def\@makecaption#1#2{%
25098   \vskip\abovecaptionskip
25099   \sbox\@tempboxa{#1: #2}%
25100   \ifdim \wd\@tempboxa >\hsize
25101     \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25102   \else
25103     \global \@minipagefalse

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25104 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25105 \fi
25106 \vskip\belowcaptionskip}
25107 \let\bidisaved@eqno=\eqno
25108 \let\bidisaved@leqno=\leqno
25109 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
25110 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
25111 \ApplyPatchIfPackageLoadedF{amsmath}{
25112 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25113 }
25114 \input{footnote-xetex-bidi.def}
25115 \if@twocolumn
25116 \let\autofootnoterule\relax
25117 \let\leftfootnoterule\relax
25118 \let\rightfootnoterule\relax
25119 \textwidthfootnoterule
25120 \fi
25121 \if@bidi@csundef{@idxitem}{}{%
25122 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
25123 }
25124
25125 \ApplyPatchToClassesIfPackageLoadedF{%
25126 book, %
25127 report %
25128 }{flowfram}
25129
25130 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25131
25132 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25133 fleqn, %
25134 leqno%
25135 }[clo]
25136
25137 \ApplyPatchToClasses{%
25138 amsart, %
25139 amsbook, %
25140 article, %
25141 artikel1, %
25142 artikel2, %
25143 artikel3, %
25144 beamer, %
25145 boek, %
25146 boek3, %
25147 bookest, %
25148 combine, %
25149 extbook, %
25150 extletter, %
25151 extarticle, %
25152 extreport, %
25153 imsproc, %
25154 letter, %
25155 memoir, %
25156 rapport1, %
25157 rapport3, %

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25160   scrbook, %
25161   scrreprt %
25162 }
25163
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25166   amsmath, %
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25210   dblfnote, %
25211   diagbox, %

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 25214 empheq, %
 25215 fancybox, %
 25216 fancyhdr, %
 25217 fix2col, %
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 25237 midfloat, %
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25271 wrapfig, %
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25273 xltextra %
25274 }
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25276 \ApplyPatchToFiles{%
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25278   pstricks %
25279 }[tex]
25280
25281 \ApplyPatchToFiles{%
25282   hgeneric-testphase, %
25283   tc-xetex %
25284 }
25285

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165 File xltextra-xetex-bidi.def

```

25286 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package
25287 \let\@XeTeX\XeTeX
25288 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25289 \let\@XeLaTeX\XeLaTeX
25290 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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