

# The sblarticle Class

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## Abstract

sblarticle provides a LaTeX class for producing articles and papers conforming to the style required by the Society of Biblical Literature. It depends on sblfonts for language support and biblatex-sbl for referencing.

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# 1 Introduction

The `sblarticle` class creates a term paper matching the style specified in the *Student Supplement for The SBL Handbook of Style, Second Edition*. See <https://www.sbl-site.org/wp-content/uploads/2025/04/SBLHSsupp2015-02.pdf>.

The class works with both `pdflatex` and the Unicode engines, but in order to make use of the SBL fonts you need to install them and use a Unicode engine (`lualatex` is recommended, especially for Hebrew).

This class is not intended to be a general flexible starting point for the requirements of all theological colleges and seminaries. In such cases you are better off beginning with the article class and loading `biblatex-sbl` and (possibly) `sblfonts` directly. You could use the code in this class as a guide.

## 1.1 Usage

Load the class using `\documentclass{sblarticle}`. See `sbltex-termpaper.pdf` in the documentation directory for an extended usage example.

The following standard commands and environments have been customised for this class:

- `\author`, `\title`, `\maketitle`
- `\tableofcontents`, `\listoffigure`, `\listoftables`
- `\section`, `\subsection`, `\subsubsection`, `\paragraph`, `\subparagraph`
- `\appendix`
- `\footnote`
- `\caption`
- `\printbibliography`, `\printbiblist{abbreviations}`
- `abstract`, `quotation`, `quote`

American, Greek and Hebrew are set up using `sblfonts` (and `babel`). A different main language can be chosen by passing the `babel` language name to the class.

## 1.2 Acknowledgements

The `sblarticle` class depends on a number of other packages:

- `sblfonts` (with `fontspec`, `fontenc` and `babel`), `biblatex-sbl` (with `biblatex`)
- `csquotes`, `geometry`, `setspace`, `ragged2e`, `fancyhdr`
- When `\DocumentMetadata` is not in use: `caption`, `footmisc`, `titlesec`, `titletoc`

## 1.3 Bug Reports and Feature Requests

Bug reports and feature requests can be made at the `sbltex` GitHub repository. See <https://github.com/dcpurton/sbl<sub>t</sub>ex>.

**Note:** This class is only partially compatible with the L<sup>A</sup>T<sub>E</sub>X tagging project at this stage. As the tagging project stabilises and dependent packages are updated, compatibility will improve.

## 2 Package Commands

---

`\course` `\course` `{\langle Course name \rangle}`

Set the name of the course the paper is for. This is included on the title page.

---

`\institution` `\institution` `{\langle Institution name \rangle}`

Set the name of the institution the paper will be submitted at. This is included on the title page.

---

`\professor` `\professor` `{\langle Professor name \rangle}`

Set the name of the professor the paper will be submitted to. This is included on the title page.

## 3 Package Options

Items passed to the options below are *appended* to the default options rather than replacing them.

Any unrecognised options passed to the `sblarticle` class are passed through to the article class.

---

`biblatex` `biblatex =` `{\langle arguments \rangle}`     Default: `{style=sbl, language=auto, autolang=hyphen}`

These options are passed to the `biblatex` package.

See the `biblatex-sbl` package documentation for a full description of supported options and usage.

---

`sblfonts` `sblfonts =` `{\langle arguments \rangle}`

Options to pass to the `sblfonts` package.

The defaults depend on whether the engine in use is 8bit or Unicode:

### 8bit defaults:

```
{
  mainfont=tempora,
  grfont=Alegreya-LF,
  hefont=frank
}
```

### Unicode defaults:

```
{
  mainfont=TeXGyreTermesX,
  mainfontoptions={Extension=.otf, UprightFont=*-Regular,
    ItalicFont=*-Italic, BoldFont=*-Bold,
    BoldItalicFont=*-BoldItalic},
  sblfonts=true
}
```

Note that you will need to download and install the SBL fonts yourself from <https://www.sbl-site.org/resources/fonts/>.

See the `sblfonts` package documentation for a full description of supported options and usage.

## 4 Implementation

```
1 <*class>
2 <@@=sblarticle>
3 \NeedsTeXFormat{LaTeX2e}
4 \ProvidesExplClass{sblarticle}{2026-04-04}{1.0}
5   {Society of Biblical Literature Article Class (DCP)}
6 \clist_new:N \l__sblarticle_options_to_article_class_clist
7 \keys_define:nn { sblarticle }
8   {
9     , biblatex .clist_set:N = \l__sblarticle_options_to_biblatex_clist
10    , sblfonts .clist_set:N = \l__sblarticle_options_to_sblfonts_clist
11    , unknown .code:n = {
12      \clist_put_right:No
13      \l__sblarticle_options_to_article_class_clist
14      { \CurrentOption }
15    }
16  }
17 \ProcessKeyOptions
```

Set default options.

```
18 \clist_put_left:Nn \l__sblarticle_options_to_article_class_clist
19   {
20     , 12pt
21     , titlepage
22   }
23 \clist_put_left:Nn \l__sblarticle_options_to_biblatex_clist
24   {
25     , style = sbl
26     , language = auto
27     , autolang = hyphen
28   }
29 \sys_if_engine_opentype:TF
30   {
31     \clist_put_left:Nn \l__sblarticle_options_to_sblfonts_clist
32     {
33       , mainfont = TeXGyreTermesX
34       , mainfontoptions = {
35         , Extension = .otf
36         , UprightFont = *-Regular
37         , ItalicFont = *-Italic
38         , BoldFont = *-Bold
39         , BoldItalicFont = *-BoldItalic
40       }
41     , sblfonts = true
42   }
43 }
44 {
45 \clist_put_left:Nn \l__sblarticle_options_to_sblfonts_clist
46   {
47     , mainfont = tempora
```

```

48     , grfont   = Alegreya-LF
49     , hefont   = frank
50   }
51 }

```

Load article class.

```

52 \exp_args:No \PassOptionsToClass
53 { \l__sblarticle_options_to_article_class_clist }
54 { article }
55 \LoadClass { article }

```

Font and language set up.

```

56 \exp_args:No \PassOptionsToPackage
57 { \l__sblarticle_options_to_sblfonts_clist }
58 { sblfonts }
59 \RequirePackage { sblfonts }

```

biblatex set up.

```

60 \exp_args:No \PassOptionsToPackage
61 { \l__sblarticle_options_to_biblatex_clist }
62 { biblatex }
63 \RequirePackage { biblatex }
64 \RequirePackage { csquotes }

```

## 4.1 Margins

```

65 \RequirePackage [ margin = 1in, headheight = 14.5pt ] { geometry }

```

## 4.2 Text layout

```

66 \RequirePackage { setspace }
67 \RequirePackage { ragged2e }
68 \doublespacing
69 \frenchspacing
70 \dim_set:Nn \RaggedRightParindent { 0.5in }
71 \dim_set:Nn \RaggedLeftParindent { 0.5in }
72 \dim_set:Nn \JustifyingParindent { 0.5in }
73 \RaggedRight
74 \sloppy
75 \raggedbottom
76 \sys_if_engine_luatex:F
77 {
78   \AddBabelHook [ hebrew ] { sblarticle } { afterextras }
79   {
80     \raggedleft
81     \parindent 0.5in
82   }
83   \AddBabelHook { sblarticle } { afterextras } { \RaggedRight }
84 }

```

## 4.3 Headers and footers

```

85 \RequirePackage { fancyhdr }
86 \pagestyle { fancy }
87 \fancyhf { }
88 \fancyhead [ R ] { \thepage }

```

```

89 \cs_set_nopar:Npn \headrulewidth { 0pt }
90 \cs_set_nopar:Npn \sectionmark #1
91 {
92   \markboth
93     { \int_compare:nNnT
94       { \c@secnumdepth } > { \c_zero_int }
95       { \thesection \skip_horizontal:n { 1em } }
96       #1
97     }
98   { }
99 }

```

## 4.4 Footnotes

Different handling is required for footnotes when tagging code is loaded.

```

100 \IfDocumentMetadataTF
101 {
102   \hook_gput_code:nnn { fntext / para } { sblarticle }
103   { \RaggedRight }
104   \socket_new_plug:nnn { fntext / mark } { sblarticle }
105   {
106     \skip_horizontal:N \footnotemargin
107     \@thefnmark . \enspace
108   }
109   \socket_assign_plug:nn { fntext / mark } { sblarticle }
110   \socket_assign_plug:nn
111     { build / column / outputbox }
112     { floats-space-footnotes }
113 }
114 {
115   \RequirePackage [ bottom, ragged ] { footmisc }
116   \cs_set:Npn \@makefntext #1
117   {
118     \dim_set_eq:NN \parindent \footnotemargin
119     \@thefnmark . \enspace
120     \footnotelayout #1
121   }
122 }
123 \dim_set:Nn \footnotemargin { 0.5in }
124 \cs_set:Npn \footnoterule
125 {
126   \kern -3pt
127   \hrule width 2in
128   \kern 2.6pt
129   \vskip -8pt
130 }
131 \dim_set:Nn \footnotesep { 20pt }

```

## 4.5 Captions

```

132 \skip_set:Nn \abovecaptionskip { 6pt }
133 \skip_set:Nn \belowcaptionskip { 6pt }
134 \cs_set:Npn \thefigure
135 {

```

```

136     \arabic { figure }
137   }
138 \cs_set:Npn \thetable
139   {
140     \arabic { table }
141   }
142 \counterwithout { figure } { part }
143 \counterwithout { table } { part }

144 \IfDocumentMetadataTF
145   {
146     \NewSocketPlug { caption / label } { sblarticle }
147     {
148       \small
149       #1:~
150     }
151     \AssignSocketPlug { caption / label } { sblarticle }
152   }
153   {
154     \RequirePackage [ font = small , skip = 6pt ] { caption }
155   }

```

## 4.6 Block quotes

```

156 \IfDocumentMetadataTF
157   {
158     \hook_gput_code:nnn { begindocument / before } { sblarticle }
159     {
160       \RenewDocumentEnvironment { quotation } { !O { } }
161       {
162         \UseInstance { blockenv } { quotation }
163         {
164           , begin-extra-vspace = 0pt
165           , begin-vspace = 0pt
166           , left-margin = 0.5in
167           , right-margin = 0pt
168           , para-indent = 0.5in
169           , para-vspace = 0pt
170           , final-code = \singlespacing
171                       \vspace* { -5pt }
172                       \ignorespaces
173           , #1
174         }
175       }
176       { \endblockenv }
177     \RenewDocumentEnvironment { quote } { !O { } }
178     {
179       \UseInstance { blockenv } { quote }
180       {
181         , begin-extra-vspace = 0pt
182         , begin-vspace = 0pt
183         , left-margin = 0.5in
184         , right-margin = 0pt
185         , para-indent = 0pt
186         , para-vspace = 7pt

```

```

187         , final-code = \singlespacing
188                       \vspace* { -5pt }
189                       \ignorespaces
190         , #1
191       }
192     }
193     { \endblockenv }
194   }
195 }
196 {
197 \renewenvironment { quotation }
198 {
199   \list { }
200   {
201     \dim_set:Nn \leftmargin { 0.5in }
202     \dim_zero:N \rightmargin
203     \dim_zero:N \topsep
204     \dim_zero:N \partopsep
205     \dim_zero:N \itemsep
206     \dim_zero:N \parsep
207     \dim_set:Nn \itemindent { 0.5in }
208     \dim_set:Nn \listparindent { 0.5in }
209   }
210   \item \relax
211   \singlespacing
212   \vspace* { -5pt }
213 }
214 {
215   \endlist
216 }
217 \renewenvironment { quote }
218 {
219   \list { }
220   {
221     \dim_set:Nn \leftmargin { 0.5in }
222     \dim_zero:N \rightmargin
223     \dim_zero:N \topsep
224     \dim_zero:N \partopsep
225     \dim_zero:N \itemsep
226     \dim_set:Nn \parsep { 7pt }
227     \dim_zero:N \itemindent
228     \dim_zero:N \listparindent
229   }
230   \item \relax
231   \singlespacing
232   \vspace* { -5pt }
233 }
234 {
235   \endlist
236 }
237 }

```

## 4.7 Title page



```

238 \tl_new:N \g__sblarticle_course_tl
239 \tl_new:N \g__sblarticle_institution_tl
240 \tl_new:N \g__sblarticle_professor_tl

241 \cs_new_protected:Npn \course #1
242 {
243   \tl_gset:Nn \g__sblarticle_course_tl { #1 }
244 }

245 \cs_new_protected:Npn \institution #1
246 {
247   \tl_gset:Nn \g__sblarticle_institution_tl { #1 }
248 }

249 \cs_new_protected:Npn \professor #1
250 {
251   \tl_gset:Nn \g__sblarticle_professor_tl { #1 }
252 }

253 \author { [Your ~ Name] }
254 \title { Title ~ of ~ Paper }
255 \tl_gset:Nn \g__sblarticle_course_tl { [Course ~ Number ~ and ~ Title] }
256 \tl_gset:Nn \g__sblarticle_institution_tl { [Name ~ of ~ Institution] }
257 \tl_gset:Nn \g__sblarticle_professor_tl { [Name ~ of ~ Professor] }

258 \cs_set_protected:Npn \maketitle
259 {
260   \newgeometry { top=2in, bottom=2in }
261   \pagenumbering { roman }
262   \thispagestyle { empty }
263   \group_begin:
264     \singlespacing
265     \centering
266     \text_uppercase:n { \g__sblarticle_institution_tl } \para_end:
267     \vfill
268     \doublespacing
269     \text_uppercase:n { \@title } \para_end:
270     \vfill
271     \singlespacing
272     \text_uppercase:n
273     { Submitted ~ to ~ \g__sblarticle_professor_tl } \para_end:
274     \text_uppercase:n { in ~ Partial ~ Fulfilment ~ of } \para_end:
275     \text_uppercase:n { \g__sblarticle_course_tl } \para_end:
276     \vfill
277     \text_uppercase:n { By } \para_end:
278     \text_uppercase:n { \@author } \para_end:
279     \text_uppercase:n { \@date } \para_end:
280   \group_end:
281   \restoregeometry
282 }

```

## 4.8 Abstract

```
\_sblarticle_abstract_protected_end:n {⟨abstract⟩}
```

This function is used to inject `\_sblarticle_fontmatter_peek:`

```
283 \cs_set_eq:Nc \_sblarticle_orig_protected_end:n { end~ }
```

```

284 \cs_new_nopar:Nn \__sblarticle_abstract_protected_end:n
285 {
286   \__sblarticle_orig_protected_end:n { #1 }
287   \tl_if_eq:nnT { #1 } { abstract }
288   {
289     \cs_gset_eq:cN { end~ } \__sblarticle_orig_protected_end:n
290     \peek_remove_spaces:n
291     {
292       \peek_analysis_map_inline:n
293       {
294         \exp_args:No \token_if_eq_meaning:NNF { ##1 } \para_end:
295         {
296           \peek_analysis_map_break:n
297           {
298             \exp_after:wN
299             \__sblarticle_frontmatter_peek:
300             ##1
301           }
302         }
303         ##1
304       }
305     }
306   }
307 }

```

*(End of definition for \\_\_sblarticle\_abstract\_protected\_end:n.)*

```

308 \renewenvironment { abstract }
309 {
310   \part* { \abstractname }
311   \addcontentsline { toc } { part } { \abstractname }
312   \cs_gset_eq:cN { end~ } \__sblarticle_abstract_protected_end:n
313 }
314 {
315   \par
316   \clearpage
317   \pagestyle { fancy }
318 }

```

## 4.9 Section titles

```

319 \int_set:Nn \c@secnumdepth { -1 }
320 \cs_set_nopar:Npn \thepart
321 {
322   \@arabic \c@part
323 }

```

These two functions ensure consistent spacing after section headings whether body paragraph text follows or another section heading follows.

```

324 \cs_new_nopar:Nn \__sblarticle_before_head_correction:
325 {
326   \hook_gclear_next_code:n { para / before }
327 }
328 \cs_new_nopar:Nn \__sblarticle_after_head_correction:

```

```

329 {
330   \vspace* { -5.5pt }
331   \hook_gput_next_code:nn { para / before } { \vspace* { 5.5pt } }
332 }

```

For documents using `\DocumentMetadata` use standard kernel commands to redefine section headings, otherwise use the `titlesec` package.

```

333 \IfDocumentMetadataTF
334 {
335   \cs_set:Npn \section
336   {
337     \hook_gput_next_code:nn { para / end }
338     { \dim_zero:N \hangindent }
339     \__sblarticle_before_head_correction:
340     \hook_gput_next_code:nn { para / after }
341     { \__sblarticle_after_head_correction: }
342     \@startsection { section } { 1 } { Opt } { -37pt } { 1sp }
343     { \singlespacing \normalfont \normalsize \bfseries \centering }
344   }
345   \cs_set:Npn \subsection
346   {
347     \hook_gput_next_code:nn { para / end }
348     { \dim_zero:N \hangindent }
349     \__sblarticle_before_head_correction:
350     \hook_gput_next_code:nn { para / after }
351     { \__sblarticle_after_head_correction: }
352     \@startsection { subsection } { 2 } { Opt } { -37pt } { 1sp }
353     { \singlespacing \normalfont \normalsize \centering }
354   }
355   \cs_set:Npn \subsubsection
356   {
357     \__sblarticle_before_head_correction:
358     \hook_gput_next_code:nn { para / after }
359     { \__sblarticle_after_head_correction: }
360     \@startsection { subsubsection } { 3 } { Opt } { -37pt } { 1sp }
361     { \singlespacing \normalfont \normalsize \bfseries \itshape }
362   }
363   \cs_set:Npn \paragraph
364   {
365     \__sblarticle_before_head_correction:
366     \@startsection { paragraph } { 4 } { Opt } { -37pt } { 1sp }
367     { \singlespacing \normalfont \normalsize }
368   }
369   \cs_set:Npn \subparagraph
370   {
371     \@startsection { subparagraph } { 5 } { Opt } { -37pt } { -1em }
372     { \normalfont \normalsize \bfseries }
373   }

```

Redefine `\@part` and `\@spart` to format major headings.

```

374 \hook_gput_code:nnn { cmd / part / before } { sblarticle }
375 {
376   \clearpage
377   \mode_leave_vertical:

```

```

378     \par
379     \thispagestyle { plain }
380 }
381 \cs_set_nopar:Npn \@part [#1]#2
382 {
383     \addvspace { 37pt }
384     \int_compare:nNnTF { \c@secnumdepth } > { -1 }
385     {
386         \refstepcounter { part }
387         \addcontentsline { toc } { part }
388         { \chaptername \space \thepart : \enspace #1 }
389     }
390     {
391         \addcontentsline { toc } { part } {#1}
392     }
393     \group_begin:
394     \dim_zero:N \parindent
395     \centering
396     \interlinepenalty 10000
397     \normalfont
398     \int_compare:nNnT { \c@secnumdepth } > { -1 }
399     {
400         \MakeUppercase { \chaptername } \nobreakspace \thepart
401         \par
402         \nobreak
403     }
404     \singlespacing
405     \MakeUppercase {#2}
406     \hook_gput_next_code:nn { para / after }
407     { \_sblarticle_after_head_correction: }
408     \markboth { } { }
409     \par
410     \group_end:
411     \nobreak
412     \skip_vertical:n { 39pt }
413     \@afterheading
414 }
415 \cs_set_nopar:Npn \@spart #1
416 {
417     \addvspace { 37pt }
418     \group_begin:
419     \dim_zero:N \parindent
420     \centering
421     \interlinepenalty 10000
422     \normalfont
423     \singlespacing
424     \MakeUppercase {#1}
425     \hook_gput_next_code:nn { para / after }
426     { \_sblarticle_after_head_correction: }
427     \par
428     \group_end:
429     \nobreak
430     \skip_vertical:n { 39pt }

```

```

431     \@afterheading
432   }
433 }
434 {
435   \RequirePackage [ newparttoc ] { titlesec }
436   \providecommand \phantomsection { }
437   \titleclass { \part } [ 0 ] { top }
438
439   \titlespacing* { \part }           { Opt } { 41pt } { 37pt }
440   \titlespacing* { \section }        { Opt } { 37pt } { 0pt }
441   \titlespacing* { \subsection }     { Opt } { 37pt } { 0pt }
442   \titlespacing* { \paragraph }      { Opt } { 37pt } { 0pt }
443   \titlespacing* { \subparagraph }   { Opt } { 37pt } { 1em }
444
445   \titleformat
446     { \part }
447     [ display ]
448     { \normalfont \normalsize \singlespacing \filcenter }
449     {
450       \MakeUppercase { \chaptername } \space \thepart
451     }
452     { 12pt }
453     { \MakeUppercase }
454     [ \_sblarticle\_after\_head\_correction: ]
455
456   \titleformat
457     { \section }
458     [ block ]
459     {
460       \_sblarticle\_before\_head\_correction:
461       \normalfont \normalsize \singlespacing \bfseries \filcenter
462     }
463     { \thesection }
464     { 0.5em }
465     { }
466     [ \_sblarticle\_after\_head\_correction: ]
467
468   \titleformat
469     { \subsection }
470     [ block ]
471     {
472       \_sblarticle\_before\_head\_correction:
473       \normalfont \normalsize \singlespacing \filcenter
474     }
475     { \thesubsection }
476     { 0.5em }
477     { }
478     [ \_sblarticle\_after\_head\_correction: ]
479
480   \titleformat
481     { \subsubsection }
482     [ block ]
483     {
484       \_sblarticle\_before\_head\_correction:
485       \normalfont \normalsize \singlespacing \bfseries \itshape \filright
486     }
487     { \thesubsubsection }

```

```

484     { 0.5em }
485   { }
486   [ \_sblarticle_after_head_correction: ]
487 \titleformat
488   { \paragraph }
489   [ block ]
490   {
491     \_sblarticle_before_head_correction:
492     \normalfont \normalsize \singlespacing \filright
493   }
494   { \theparagraph }
495   { 0.5em }
496   { }
497 \titleformat
498   { \subparagraph }
499   [ runin ]
500   { \normalfont \normalsize \bfseries }
501   { \thesubparagraph }
502   { 1em }
503   { }
504 }

```

#### 4.10 Table of contents and list of figures/tables

```

505 \int_set:Nn \c@tocdepth { 2 }
506 \cs_set:Npn \tableofcontents
507   {
508     \part* { \contentsname }
509     \@mkboth
510       { \contentsname }
511       { \contentsname }
512     \@starttoc { toc }
513     \clearpage
514     \_sblarticle_frontmatter_peek:
515   }
516 \cs_set:Npn \listoffigures
517   {
518     \part* { \listfigurename }
519     \addcontentsline { toc } { part } { \listfigurename }
520     \@mkboth
521       { \listfigurename }
522       { \listfigurename }
523     \@starttoc { lof }
524     \clearpage
525     \_sblarticle_frontmatter_peek:
526   }
527 \cs_set:Npn \listoftables
528   {
529     \part* { \listtablename }
530     \addcontentsline { toc } { part } { \listtablename }
531     \@mkboth
532       { \listfigurename }
533       { \listfigurename }

```

```

534 \@starttoc { lot }
535 \clearpage
536 \_sblarticle_frontmatter_peek:
537 }

```

For documents using \DocumentMetadata use standard kernel commands to redefine table of contents lines, otherwise use the titletoc package.

```

538 \IfDocumentMetadataTF
539 {
540   \text_declare_expand_equivalent:Nn \numberline
541   {
542     \exp_not:n { \numberline }
543   }
544   \hook_gput_code:nnn { cmd / @dottedtocline / before }
545   { sblarticle }
546   {
547     \advvspace { \baselineskip }
548   }
549   \hook_gput_code_with_args:nnn { contentsline / text / after }
550   { sblarticle }
551   {
552     \int_compare:nNnT {#1} > { -1 }
553     {
554       \cs_set_nopar:Npn \leaders ##1 ##2 { }
555       \hook_gput_next_code:nn { cmd / SuspendTagging / after }
556       {
557         \cs_set_nopar:Npn \leaders ##1 ##2 { }
558       }
559     }
560   }
561   \cs_set_nopar:cpn { contentsline@text@-1@format }
562   { \MakeUppercase }
563   \cs_set_nopar:Npn \numberline #1
564   {
565     \hook_use:nw { contentsline / number / before } { 1 } {#1}
566     #1 \enspace
567     \hook_use:nw { contentsline / number / after } { 1 } {#1}
568   }
569   \cs_set_nopar:Npn \l@part
570   {
571     \@dottedtocline { -1 } { 0em } { 0em }
572   }
573   \cs_set_nopar:Npn \l@section
574   {
575     \@dottedtocline { 1 } { 1em } { 0em }
576   }
577   \cs_set_nopar:Npn \l@subsection
578   {
579     \@dottedtocline { 2 } { 2em } { 0em }
580   }
581   \cs_set_nopar:Npn \l@subsubsection
582   {
583     \@dottedtocline { 3 } { 3em } { 0em }
584   }

```

```

585 \cs_set_nopar:Npn \l@paragraph
586 {
587   \@dottedtocline { 4 } { 4em } { 0em }
588 }
589 \cs_set_nopar:Npn \l@subparagraph
590 {
591   \@dottedtocline { 5 } { 5em } { 0em }
592 }
593 \cs_set_nopar:Npn \l@figure
594 {
595   \@dottedtocline { 1 } { 0em } { 0em }
596 }
597 \cs_set_eq:NN \l@table \@figure
598 }
599 {
600 \RequirePackage { titletoc }

```

`\_sblarticle_hyperlink:nn` `{\link}` `{\text}`

A convenience version of `\hyperlink` that just uses `\text` if `hyperref` isn't loaded.

```

601 \cs_new_protected:Nn \_sblarticle_hyperlink:nn
602 {
603   \cs_if_exist_use:NTF \hyperlink
604     { { #1 } { #2 } }
605     { #2 }
606 }

```

*(End of definition for `\_sblarticle_hyperlink:nn`.)*

```

607 \titlecontents { figure }
608 [ 2em ]
609 { \singlespacing \filright }
610 {
611   \_sblarticle_hyperlink:nn
612     { \Hy@tocdestname }
613     { \makebox [ 2em ] [ 1 ] { \thecontentslabel . \enspace } }
614 }
615 { }
616 { \hspace { 0.5em } \titlerule* [ 0.5pc ] { . } \contentspage }
617 \titlecontents { table }
618 [ 2em ]
619 { \singlespacing \filright }
620 {
621   \_sblarticle_hyperlink:nn
622     { \Hy@tocdestname }
623     { \makebox [ 2em ] [ 1 ] { \thecontentslabel . \enspace } }
624 }
625 { }
626 { \hspace { 0.5em } \titlerule* [ 0.5pc ] { . } \contentspage }
627 \titlecontents { part }
628 [ Opt ]
629 { \singlespacing \filright }
630 {
631   \_sblarticle_hyperlink:nn
632     { \Hy@tocdestname }

```



```

633     {
634         \MakeUppercase { \chaptername } \space
635         \thecontentslabel : \enspace
636     }
637     \MakeUppercase
638 }
639 { \MakeUppercase }
640 { \hspace { 0.5em } \titlerule* [ 0.5pc ] { . } \contentspage }
641 \titlecontents { section }
642 [ 1em ]
643 { \singlespacing \filright }
644 { }
645 { }
646 { \hfill \contentspage }
647 \titlecontents { subsection }
648 [ 2em ]
649 { \singlespacing \filright }
650 { }
651 { }
652 { \hfill \contentspage }
653 \titlecontents { subsubsection }
654 [ 3em ]
655 { \singlespacing \filright }
656 { }
657 { }
658 { \hfill \contentspage }
659 \titlecontents { paragraph }
660 [ 4em ]
661 { \singlespacing \filright }
662 { }
663 { }
664 { \hfill \contentspage }
665 \titlecontents { subparagraph }
666 [ 5em ]
667 { \singlespacing \filright }
668 { }
669 { }
670 { \hfill \contentspage }
671 }

```

## 4.11 Appendices

Set up appendix headings and table of contents.

```

672 \cs_set_eq:NN \sblarticle@hyperlink \__sblarticle_hyperlink:nn
673 \newcounter { sblarticle@appendix@count }
674 \cs_new_protected:Nn \__sblarticle_set_up_appendices:
675 {
676     \cs_set_eq:NN \section \part
677     \int_set:Nn \c@secnumdepth { \c_one_int }
678     \cs_set_nopar:Npn \chaptername { \appendixname }
679     \addtocontents { toc } { \def \protect \chaptername { \appendixname } }
680     \int_compare:nNnT { \c@sblarticle@appendix@count } = { \c_one_int }
681     {

```

```

682     \int_zero:N \c@sblarticle@appendix@count
683   }
684 \IfDocumentMetadataTF
685 {
686   \cs_set_nopar:Npn \@part [##1]##2
687   {
688     \addvspace { 37pt }
689     \stepcounter { sblarticle@appendix@count }
690     \int_compare:nNnTF { \c@secnumdepth } > { -1 }
691     {
692       \refstepcounter { part }
693       \protected@write \@auxout
694       { }
695       {
696         \string \setcounter
697           { sblarticle@appendix@count } { \the \c@part }
698       }
699       \addcontentsline { toc } { part }
700       {
701         \chaptername
702         \ifnum \c@sblarticle@appendix@count > 1
703           \space \thechapter
704         \fi
705         : \enspace ##1
706       }
707     }
708     {
709       \addcontentsline { toc } { part } {##1}
710     }
711   \group_begin:
712     \dim_zero:N \parindent
713     \centering
714     \interlinepenalty 10000
715     \normalfont
716     \int_compare:nNnT { \c@secnumdepth } > { -1 }
717     {
718       \MakeUppercase { \chaptername }
719       \int_compare:nNnT
720       { \c@sblarticle@appendix@count } > { \c_one_int }
721       {
722         \nobreakspace \thechapter
723       }
724       \par
725       \nobreak
726     }
727     \singlespacing
728     \MakeUppercase {##2}
729     \hook_gput_next_code:nn { para / after }
730     { \_sblarticle_after_head_correction: }
731     \markboth { } { }
732     \par
733   \group_end:
734   \nobreak
735   \skip_vertical:n { 39pt }

```

```

736         \@afterheading
737     }
738 }
739 {
740     \titleformat
741     { \part }
742     [ display ]
743     {
744         \stepcounter { sblarticle@appendix@count }
745         \protected@write \@auxout
746         { }
747         {
748             \string \setcounter
749             { sblarticle@appendix@count } { \the \c@part }
750         }
751         \singlespacing \normalfont \normalsize \filcenter
752     }
753     {
754         \MakeUppercase { \chaptername }
755         \ifnum \c@sblarticle@appendix@count > 1
756             \strut \space \thepart
757         \fi
758     }
759     { 12pt }
760     { \MakeUppercase }
761     \titlecontents { part }
762     [ Opt ]
763     { \singlespacing \filright }
764     {
765         \sblarticle@hyperlink
766         { \Hy@tocdestname }
767         {
768             \MakeUppercase { \chaptername }
769             \ifnum \c@sblarticle@appendix@count > 1
770                 \strut \space \thecontentslabel
771             \fi
772             : \enspace
773         }
774         \MakeUppercase
775     }
776     { \MakeUppercase }
777     { \hspace { 0.5em } \titlerule* [ 0.5pc ] { . } \contentspage }
778 }
779 }

780 \hook_gput_code:nnn
781 { cmd / appendix / after }
782 { sblarticle }
783 { \_sblarticle_set_up_appendices: }

```

## 4.12 Bibliography and list of abbreviations

```

784 \DefineBibliographyStrings { english }
785 {

```

```

786     shorthands = { List-of-Abbreviations }
787   }
788 \cs_set_nopar:Npn \bibsetup { \singlespacing }
789 \dim_set:Nn \bibhang { 0.5in }
790 \dim_set:Nn \bibitemsep { 12pt }
791 \dim_set:Nn \biblabelsep { 0.5in }
792 \defbibheading { bibliography } [ \bibname ]
793 {
794   \part* {#1}
795 }
796 \defbibheading { bibintoc } [ \bibname ]
797 {
798   \part* {#1}
799   \addcontentsline { toc } { part } {#1}
800 }
801 \defbibheading { biblist } [ \biblistname ]
802 {
803   \part* {#1}
804 }
805 \defbibheading { biblistintoc } [ \biblistname ]
806 {
807   \part* {#1}
808   \addcontentsline { toc } { part } {#1}
809 }

```

Peeking ahead from the end of `\printbiblist` is slightly more complicated because we only want to do so when it's in the front matter and it's defined with `\newrobustcmd*` with optional arguments.

```

810 \cs_new:Npn \sblarticle@printbiblist@frontmatter@peek
811 {
812   \__sblarticle_if_page_numbering:nT { roman }
813   {
814     \__sblarticle_frontmatter_peek:
815   }
816 }

```

### 4.13 Helper functions

```

817 \ExplSyntaxOff
818 \expandafter\apptocmd\csname\string\printbiblist\endcsname
819   {\sblarticle@printbiblist@frontmatter@peek}
820 {}
821 {}
822 \ExplSyntaxOn

```

`\__sblarticle_if_page_numbering:nT` `{<numbering style>}` `{<code if true>}`

Test if the current page numbering style matches a particular style. (e.g., arabic or roman).

```

823 \prg_new_conditional:Npnn \__sblarticle_if_page_numbering:n #1 { T }
824 {
825   \cs_set_nopar:Nn \__sblarticle_thepage_test:
826     { \csname @ #1 \endcsname \c@page }
827   \if_meaning:w \thepage \__sblarticle_thepage_test:
828     \prg_return_true:

```

```

829     \else:
830         \prg_return_false:
831     \fi:
832 }

```

(End of definition for `\_sblarticle_if_page_numbering:nT`.)

`\_sblarticle_frontmatter_peek`: Peek ahead and insert the title of the paper at the start of the main matter.

```

833 \cs_new_protected:Nn \_sblarticle_frontmatter_peek:
834 {
835     \peek_analysis_map_inline:n
836     {

```

Test if the next token is a control sequence of not.

```

837         \int_compare:nNnTF {##2} = { -1 }
838         {
839             \exp_args:No \token_if_eq_meaning:NNF {##1} \par
840             {
841                 \bool_case:nTF
842                 {
843                     {
844                         \exp_args:No \token_if_eq_meaning_p:NN
845                         {##1} \begin
846                     }
847                     { }
848                 }
849                 {
850                     \exp_args:No \token_if_eq_meaning_p:NN
851                     {##1} \tableofcontents
852                 }
853                 {
854                     {
855                         \exp_args:No \token_if_eq_meaning_p:NN
856                         {##1} \listoffigures
857                     }
858                     { }
859                 }
860                 {
861                     \exp_args:No \token_if_eq_meaning_p:NN
862                     {##1} \listoftables
863                 }
864                 {
865                     {
866                         \exp_args:No \token_if_eq_meaning_p:NN
867                         {##1} \printbiblist
868                     }
869                     { }
870                 }
871             }
872             { \peek_analysis_map_break:n {##1} }
873             {

```

Insert the paper title if some control sequence other than the above is found.

```

871                 \peek_analysis_map_break:n
872                 {
873                     \part { \@title }

```

```

874             \pagenumbering { arabic }
875             ##1
876         }
877     }
878 }
879 }
880 {

```

Ignore spaces and insert the paper title if a token other than a control sequence is found.

```

881     \exp_args:No \token_if_space:NF {##1}
882     {
883         \peek_analysis_map_break:n
884         {
885             \part { \@title }
886             \pagenumbering { arabic }
887             ##1
888         }
889     }
890 }
891 }
892 }

```

*(End of definition for \\_sblarticle\_frontmatter\_peek:.)*

Add the code to peek ahead after `\maketitle` at the end of preamble because `hyperref` (if loaded) takes over things.

```

893 \hook_gput_code:nnn
894 { \begindocument / before }
895 { \sblarticle }
896 {
897     \g@addto@macro \maketitle { \_sblarticle_frontmatter_peek: }
898 }

899 \endinput
900 </class>

```