The sblreport Class

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Abstract

sblreport provides a LaTeX class for producing theses 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 sblreport class creates a thesis 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 report 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{sblreport}`. See `sbltex-thesis.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 sblreport 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/sbltex.

Note: This class is compatible with the LaTeX tagging project at release time. Although, regular updates will continue to be needed as the tagging project evolves and improves. The demonstration thesis, `sbltex-thesis.pdf` in the documentation is built with tagging enabled and successfully verifies with VeraPDF.

2 Package Commands

`\degree` `\degree {⟨Degree name⟩}`

Set the name of the degree the thesis is for. This is included on the title page.

`\institution` `\institution {⟨Institution name⟩}`

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

3 Package Environments

`acknowledgements` `\begin {⟨acknowledgements⟩}` `\end {⟨acknowledgements⟩}`

Add an Acknowledgements page to the thesis. The name of the section can be changed by redefining `\acknowledgementsname`.

`approvalpage` `\begin {⟨approvalpage⟩}` `\end {⟨approvalpage⟩}`

Add an approval page to the thesis. This page is empty by default.

`copyrightpage` `\begin {⟨copyrightpage⟩}` `\end {⟨copyrightpage⟩}`

Add a copyright page to the thesis. This page is empty by default.

`dedication` `\begin {⟨dedication⟩}` `\end {⟨dedication⟩}`

Add a dedication to the thesis. This page is empty by default.

`epigraph` `\begin {⟨epigraph⟩}` `\end {⟨epigraph⟩}`

Add an epigraph to the thesis. This page is empty by default.

`preface` `\begin {⟨preface⟩}` `\end {⟨preface⟩}`

Add an Preface to the thesis. The name of the section can be changed by redefining `\prefacename`.

4 Package Options

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

Any unrecognised options passed to the sblreport class are passed through to the report class.

`biblatex` `biblatex = {⟨arguments⟩}` `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 = {⟨arguments⟩}`

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/.

5 Implementation

```
⟨*class⟩
⟨@@=sblreport⟩

\NeedsTeXFormat{LaTeX2e}
\ProvidesExplClass{sblreport}{2026-11-04}{1.1a}
  {Society of Biblical Literature Report Class (DCP)}

\clist_new:N \l__sblreport_options_to_report_class_clist

\keys_define:nn { sblreport }
  {
    , biblatex .clist_set:N = \l__sblreport_options_to_biblatex_clist
    , sblfonts .clist_set:N = \l__sblreport_options_to_sblfonts_clist
    , unknown  .code:n = {
                           \clist_put_right:No
```

```
                              \l__sblreport_options_to_report_class_clist
                              { \CurrentOption }
                          }
  }
\ProcessKeyOptions
```

Set default options.

```
\clist_put_left:Nn \l__sblreport_options_to_report_class_clist
  {
    , 12pt
    , titlepage
  }
\clist_put_left:Nn \l__sblreport_options_to_biblatex_clist
  {
    , style    = sbl
    , language = auto
    , autolang = hyphen
  }
\sys_if_engine_opentype:TF
  {
    \clist_put_left:Nn \l__sblreport_options_to_sblfonts_clist
      {
        , mainfont        = TeXGyreTermesX
        , mainfontoptions = {
                              , Extension      = .otf
                              , UprightFont    = *-Regular
                              , ItalicFont     = *-Italic
                              , BoldFont       = *-Bold
                              , BoldItalicFont = *-BoldItalic
                            }
        , sblfonts        = true
      }
  }
  {
    \clist_put_left:Nn \l__sblreport_options_to_sblfonts_clist
      {
        , mainfont = tempora
        , grfont   = Alegreya-LF
        , hefont   = frank
      }
  }
```

Load report class.

```
\exp_args:No \PassOptionsToClass
  { \l__sblreport_options_to_report_class_clist }
  { report }
\LoadClass { report }
```

Font and language set up.

```
\exp_args:No \PassOptionsToPackage
  { \l__sblreport_options_to_sblfonts_clist }
  { sblfonts }
```

```
\RequirePackage { sblfonts }
```

biblatex set up.

```
\exp_args:No \PassOptionsToPackage
  { \l__sblreport_options_to_biblatex_clist }
  { biblatex }
\RequirePackage { biblatex }
\RequirePackage { csquotes }
```

5.1 Margins

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

5.2 Text layout

```
\RequirePackage { setspace }
\RequirePackage { ragged2e }
\doublespacing
\frenchspacing
\dim_set:Nn \RaggedRightParindent { 0.5in }
\dim_set:Nn \RaggedLeftParindent  { 0.5in }
\dim_set:Nn \JustifyingParindent  { 0.5in }
\RaggedRight
\sloppy
\raggedbottom
\sys_if_engine_luatex:F
  {
    \AddBabelHook [ hebrew ] { sblreport } { afterextras }
      {
        \raggedleft
        \parindent 0.5in
      }
    \AddBabelHook { sblreport } { afterextras } { \RaggedRight }
  }
```

5.3 Headers and footers

```
\RequirePackage { fancyhdr }
\pagestyle { fancy }
\fancyhf { }
\fancyhead [ R ] { \thepage }
\cs_set_nopar:Npn \headrulewidth { 0pt }
\cs_set_nopar:Npn \sectionmark #1
  {
    \markboth
      { \int_compare:nNnT
          { \c@secnumdepth } > { \c_zero_int }
          { \thesection \skip_horizontal:n { 1em } }
        #1
      }
      { }
  }
```

5.4 Footnotes

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

```
\IfDocumentMetadataTF
  {
    \hook_gput_code:nnn { fntext / para } { sblreport }
      { \RaggedRight }
    \socket_new_plug:nnn { fntext / mark } { sblreport }
      {
        \skip_horizontal:N \footnotemargin
        \@thefnmark . \enspace
      }
    \socket_assign_plug:nn { fntext / mark } { sblreport }
    \socket_assign_plug:nn
      { build / column / outputbox }
      { floats-space-footnotes }
  }
  {
    \RequirePackage [ bottom, ragged ] { footmisc }
    \cs_set_protected:Npn \@makefntext #1
      {
        \dim_set_eq:NN \parindent \footnotemargin
        \@thefnmark . \enspace
        \footnotelayout #1
      }
}
\dim_set:Nn \footnotemargin { 0.5in }
\cs_set:Npn \footnoterule
  {
    \kern -3pt
    \hrule width 2in
    \kern 2.6pt
    \vskip -8pt
  }
\dim_set:Nn \footnotesep { 20pt }
```

5.5 Captions

```
\skip_set:Nn \abovecaptionskip { 6pt }
\skip_set:Nn \belowcaptionskip { 6pt }
\cs_set:Npn \thefigure
  {
    \arabic { figure }
  }
\cs_set:Npn \thetable
  {
    \arabic { table }
  }
\counterwithout { figure } { chapter }
\counterwithout { table } { chapter }
\IfDocumentMetadataTF
  {
    \NewSocketPlug { caption / label } { sblreport }
     {
       \small
       #1:~
```

```
    }
  \AssignSocketPlug { caption / label } { sblreport }
}
{
  \RequirePackage [ font = small , skip = 6pt ] { caption }
}
```

5.6 Block quotes

```
\IfDocumentMetadataTF
{
  \EditInstance { blockenv } { quotation }
    {
      , final-code = \singlespacing
                     \vspace* { -5pt }
                     \ignorespaces
    }
  \EditInstance { block } { quotation-1 }
    {
      , begin-extra-vspace = 0pt
      , begin-vspace       = 0pt
      , left-margin        = 0.5in
      , right-margin       = 0pt
      , para-indent        = 0.5in
      , para-vspace        = 0pt
    }
  \EditInstance { blockenv } { quote }
    {
      , final-code = \singlespacing
                     \vspace* { -5pt }
                     \ignorespaces
    }
  \EditInstance { block } { quote-1 }
    {
      , begin-extra-vspace = 0pt
      , begin-vspace       = 0pt
      , left-margin        = 0.5in
      , right-margin       = 0pt
      , para-indent        = 0pt
      , para-vspace        = 7pt
    }
}
{
  \renewenvironment { quotation }
    {
      \list { }
        {
          \dim_set:Nn \leftmargin { 0.5in }
          \dim_zero:N \rightmargin
          \dim_zero:N \topsep
          \dim_zero:N \partopsep
          \dim_zero:N \itemsep
          \dim_zero:N \parsep
          \dim_set:Nn \itemindent { 0.5in }
          \dim_set:Nn \listparindent { 0.5in }
```

```
          }
        \item \relax
        \singlespacing
        \vspace* { -5pt }
      }
      {
        \endlist
      }

    \renewenvironment { quote }
      {
        \list { }
          {
            \dim_set:Nn \leftmargin { 0.5in }
            \dim_zero:N \rightmargin
            \dim_zero:N \topsep
            \dim_zero:N \partopsep
            \dim_zero:N \itemsep
            \dim_set:Nn \parsep { 7pt }
            \dim_zero:N \itemindent
            \dim_zero:N \listparindent
          }
        \item \relax
        \singlespacing
        \vspace* { -5pt }
      }
      {
        \endlist
      }
  }
```

5.7 Title page

```
\tl_new:N \g__sblreport_degree_tl
\tl_new:N \g__sblreport_institution_tl

\cs_new_protected:Npn \degree #1
  {
    \tl_gset:Nn \g__sblreport_degree_tl { #1 }
  }

\cs_new_protected:Npn \institution #1
  {
    \tl_gset:Nn \g__sblreport_institution_tl { #1 }
  }

\author { [Your ~ Name] }
\title { Title ~ of ~ Paper }
\tl_gset:Nn \g__sblreport_degree_tl { [Degree ~ Name] }
\tl_gset:Nn \g__sblreport_institution_tl { [Name ~ of ~ Institution] }

\NewTaggingSocket{ sblreport / flatblock / begin } { 1 }
\NewTaggingSocket{ sblreport / flatblock / end } { 0 }
\NewTaggingSocketPlug { sblreport / flatblock / begin } { default }
  {
    \tag_struct_begin:n
      {
```

```
        tag = #1
      }
    \tagpdfsetup { para / flattened = true }
  }
\NewTaggingSocketPlug { sblreport / flatblock / end } { default }
  {
    \para_end:
    \tag_struct_end:
  }
\AssignTaggingSocketPlug { sblreport / flatblock / begin } { default }
\AssignTaggingSocketPlug { sblreport / flatblock / end } { default }

\cs_set_protected:Npn \maketitle
  {
    \newgeometry { top=2in, bottom=2in }
    \pagenumbering { roman }
    \thispagestyle { empty }
    \group_begin:
      \UseTaggingSocket { sblreport / flatblock / begin }
        { \UseStructureName { title / block } }
      \singlespacing
      \centering
      \MakeUppercase { \g__sblreport_institution_tl } \para_end:
      \vfill
      \doublespacing
      \IfDocumentMetadataTF
        {
          \UseTaggingSocket { title } { } { \MakeUppercase { \@title } }
        }
        {
          \MakeUppercase { \@title }
        }
      \para_end:
      \vfill
      \singlespacing
      \MakeUppercase { Submitted ~ to ~ the ~ Faculty } \para_end:
      \MakeUppercase { in ~ Partial ~ Fulfilment ~ of ~ the } \para_end:
      \MakeUppercase { Requirements ~ for ~ the ~ Degree } \para_end:
      \MakeUppercase { \g__sblreport_degree_tl } \para_end:
      \vfill
      \MakeUppercase { By } \para_end:
      \MakeUppercase { \@author } \para_end:
      \MakeUppercase { \@date } \para_end:
      \UseTaggingSocket { sblreport / flatblock / end }
    \group_end:
    \restoregeometry
  }
```

5.8 Front matter environments

```
\RenewDocumentEnvironment { abstract } { }
  {
    \chapter* { \abstractname }
    \addcontentsline { toc } { chapter } { \abstractname }
  }
```

```
  { }
\cs_set_nopar:Npn  \acknowledgementsname { Acknowledgements }
\NewDocumentEnvironment { acknowledgements } { }
  {
    \chapter* { \acknowledgementsname }
    \addcontentsline { toc } { chapter } { \acknowledgementsname }
  }
  { }
\cs_set_nopar:Npn  \prefacename { Preface }
\NewDocumentEnvironment { preface } { }
  {
    \chapter* { \prefacename }
    \addcontentsline { toc } { chapter } { \prefacename }
  }
  { }
\NewDocumentEnvironment { copyrightpage } { }
  {
    \clearpage
    \thispagestyle { empty }
    \UseTaggingSocket { sblreport / flatblock / begin } { semantic-para }
  }
  {
    \UseTaggingSocket { sblreport / flatblock / end }
  }
\NewDocumentEnvironment { approvalpage } { }
  {
    \clearpage
    \thispagestyle { empty }
    \UseTaggingSocket { sblreport / flatblock / begin } { semantic-para }
  }
  {
    \UseTaggingSocket { sblreport / flatblock / end }
  }
\NewDocumentEnvironment { dedication } { }
  {
    \clearpage
    \thispagestyle { empty }
    \UseTaggingSocket { sblreport / flatblock / begin } { semantic-para }
  }
  {
    \UseTaggingSocket { sblreport / flatblock / end }
  }
\NewDocumentEnvironment { epigraph } { }
  {
    \clearpage
    \thispagestyle { empty }
    \UseTaggingSocket { sblreport / flatblock / begin } { semantic-para }
  }
  {
    \UseTaggingSocket { sblreport / flatblock / end }
  }
```

5.9 Section titles

```
\int_set:Nn \c@secnumdepth { 0 }
\cs_set_nopar:Npn \thepart { \arabic { part } }
```

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

```
\cs_new_nopar:Nn \__sblreport_before_head_correction:
  {
    \hook_gclear_next_code:n { para / before }
  }

\cs_new_nopar:Nn \__sblreport_after_head_correction:
  {
    \vspace* { -5.5pt }
    \hook_gput_next_code:nn { para / before } { \vspace* { 5.5pt } }
  }
```

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

```
\IfDocumentMetadataTF
  {
    \EditInstance { heading } { part }
      {
        , heading-decls        = \singlespacing
                                 \normalfont \normalsize
                                 \centering
        , placement            = page
        , placement-start-code = \if@openright
                                   \cleardoublepage
                                 \else
                                   \clearpage
                                 \fi
                                 \thispagestyle { empty }
                                 \if@twocolumn
                                   \onecolumn
                                   \@tempswafalse
                                 \fi
                                 \null \vfil
        , text-format          = \MakeUppercase {#1}
        , title-decls          =
        , title-format         = \MakeUppercase {#1}
      }
    \EditInstance { headformat } { part }
      {
        , separator-b = \par \nobreak \vspace { 12pt }
      }
    \DeclareDocumentCommand \part { s = { shorttitle } o m }
      {
        \ParseLaTeXeHeading { part } {#1} {#2} {#3}
      }
    \EditInstance { heading } { chapter }
      {
        , after-penalty-vspace = 48pt
        , after-vspace         = 37pt
```

```
      , heading-decls        = \singlespacing
                               \normalfont \normalsize
                               \centering
      , placement            = top
      , text-format          = \MakeUppercase {#1}
      , title-decls          =
      , title-format         = \MakeUppercase {#1}
    }
  \EditInstance { headformat } { chapter }
    {
      , separator-b = \par \nobreak \vspace { 12pt }
    }
  \DeclareDocumentCommand \chapter { s = { shorttitle } o m }
    {
      \IfBooleanF {#1}
        {
          \__sblreport_if_page_numbering:nT { roman }
            {
              \cleardoublepage
              \pagenumbering { arabic }
            }
        }
      \ParseLaTeXeHeading { chapter } {#1} {#2} {#3}
      \__sblreport_after_head_correction:
    }
  \EditInstance { heading } { section }
    {
      , before-vspace = 37pt
      , after-vspace  = 0pt
      , heading-decls = \singlespacing
                        \normalfont \normalsize \bfseries
                        \centering
    }
  \EditInstance { heading } { subsection }
    {
      , before-vspace = 37pt
      , after-vspace  = 0pt
      , heading-decls = \singlespacing
                        \normalfont \normalsize
                        \centering
    }
  \EditInstance { heading } { subsubsection }
    {
      , before-vspace = 37pt
      , after-vspace  = 0pt
      , heading-decls = \singlespacing
                        \normalfont \normalsize \bfseries \itshape
    }
  \DeclareInstance { heading } { paragraph } { display }
    {
      , name                 = paragraph
      , parent-name          = subsubsection
      , level                = 4
      , before-vspace        = 37pt
```

```
        , after-vspace        = 0pt
        , heading-decls       = \singlespacing
                                \normalfont \normalsize
        , mark-cmd            = \paragraphmark {#1}
        , headformat-instance = paragraph
      }
    \DeclareInstanceCopy { headformat } { paragraph } { std }
    \EditInstance { heading } { subparagraph }
      {
        , before-vspace = 37pt
        , heading-decls = \normalfont \normalsize \bfseries
      }
    \EditInstance { headformat } { subparagraph }
      {
        , heading-indent = 0pt
      }
    \hook_gput_code:nnn { cmd / section / before } { sblreport }
      { \__sblreport_before_head_correction: }
    \hook_gput_code:nnn { cmd / subsection / before } { sblreport }
      { \__sblreport_before_head_correction: }
    \hook_gput_code:nnn { cmd / subsubsection / before } { sblreport }
      { \__sblreport_before_head_correction: }
    \hook_gput_code:nnn { cmd / paragraph / before } { sblreport }
      { \__sblreport_before_head_correction: }
    \hook_gput_code:nnn { cmd / section / after } { sblreport }
      { \__sblreport_after_head_correction: }
    \hook_gput_code:nnn { cmd / subsection / after } { sblreport }
      { \__sblreport_after_head_correction: }
    \hook_gput_code:nnn { cmd / subsubsection / after } { sblreport }
      { \__sblreport_after_head_correction: }
  }
  {
    \RequirePackage [ newparttoc ] { titlesec }

    \titleclass { \part } { page }
    \assignpagestyle { \part } { empty }

    \titlespacing* { \part }          { 0pt } { 0pt }    { 0pt }
    \titlespacing* { \chapter }       { 0pt } { 35.7pt } { 37pt }
    \titlespacing* { \section }       { 0pt } { 37pt }   { 0pt }
    \titlespacing* { \subsection }    { 0pt } { 37pt }   { 0pt }
    \titlespacing* { \subsubsection } { 0pt } { 37pt }   { 0pt }
    \titlespacing* { \paragraph }     { 0pt } { 37pt }   { 0pt }
    \titlespacing* { \subparagraph }  { 0pt } { 37pt }   { 1em }

    \titleformat
      { \part }
      [ display ]
      {
        \cs_if_exist_use:N \phantomsection
        \vfil \normalfont \normalsize \singlespacing \filcenter
      }
      {
        \MakeUppercase { \partname } \space \thepart
      }
      { 12pt }
```

```
    { \MakeUppercase }
    [ \vfil ]
  \titleformat
    { \chapter }
    [ display ]
    { \normalfont \normalsize \singlespacing \filcenter }
    {
      \__sblreport_if_page_numbering:nT { roman }
        { \pagenumbering { arabic } }
      \MakeUppercase { \chaptername } \space \thechapter
    }
    { 12pt }
    { \MakeUppercase }
    [ \__sblreport_after_head_correction: ]
  \titleformat
    { \section }
    [ block ]
    {
      \__sblreport_before_head_correction:
      \normalfont \normalsize \singlespacing \bfseries \filcenter
    }
    { \thesection }
    { 1em }
    { }
    [ \__sblreport_after_head_correction: ]
  \titleformat
    { \subsection }
    [ block ]
    {
      \__sblreport_before_head_correction:
      \normalfont \normalsize \singlespacing \filcenter
    }
    { \thesubsection }
    { 1em }
    { }
    [ \__sblreport_after_head_correction: ]
  \titleformat
    { \subsubsection }
    [ block ]
    {
      \__sblreport_before_head_correction:
      \normalfont \normalsize \singlespacing \bfseries \itshape \filright
    }
    { \thesubsubsection }
    { 1em }
    { }
    [ \__sblreport_after_head_correction: ]
  \titleformat
    { \paragraph }
    [ block ]
    {
      \__sblreport_before_head_correction:
      \normalfont \normalsize \singlespacing \filright
    }
```

```
      { \theparagraph }
      { 1em }
      { }
    \titleformat
      { \subparagraph }
      [ runin ]
      { \normalfont \normalsize \bfseries }
      { \thesubparagraph }
      { 1em }
      { }
  }
```

5.10 Table of contents and list of figures/tables

```
\int_set:Nn \c@tocdepth { 2 }

\IfDocumentMetadataT
  {
    \hook_gput_code:nnn { cmd / @starttoc / before } { sblreport }
      {
        \hook_gput_next_code:nn { cmd / @input / before }
          { \singlespacing }
      }
  }

\cs_set:Npn \tableofcontents
  {
    \chapter* { \contentsname }
    \@mkboth
      { \contentsname }
      { \contentsname }
    \@starttoc { toc }
  }

\cs_set:Npn \listoffigures
  {
    \chapter* { \listfigurename }
    \addcontentsline { toc } { chapter } { \listfigurename }
    \@mkboth
      { \listfigurename }
      { \listfigurename }
    \@starttoc { lof }
  }

\cs_set:Npn \listoftables
  {
    \chapter* { \listtablename }
    \addcontentsline { toc } { chapter } { \listtablename }
    \@mkboth
      { \listtablename }
      { \listtablename }
    \@starttoc { lot }
  }
```

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

```
\IfDocumentMetadataTF
```

```
{
  \text_declare_expand_equivalent:Nn \numberline
    {
      \exp_not:n { \numberline }
    }
  \hook_gput_code:nnn { cmd / @dottedtocline / before }
    { sblreport }
    {
      \addvspace { 14.5pt }
    }
  \hook_gput_code_with_args:nnn { contentsline / text / after }
    { sblreport }
    {
      \int_compare:nNnT {#1} > { \c_zero_int }
        {
          \cs_set_nopar:Npn \leaders ##1 ##2 { }
        }
    }
  \cs_set_nopar:cpn { contentsline@text@0@format }
    { \MakeUppercase }
  \socket_new:nn { sblreport / numberline } { 1 }
  \socket_new_plug:nnn { sblreport / numberline }
    { default }
    {
      \hook_use:nnw { contentsline / number / before } { 1 } {#1}
      #1 \skip_horizontal:n { 1em }
      \hook_use:nnw { contentsline / number / after } { 1 } {#1}
    }
  \socket_new_plug:nnn { sblreport / numberline }
    { chapter }
    {
      \hook_use:nnw { contentsline / number / before } { 1 } {#1}
      \exp_args:Ne \MakeUppercase
        {
          \InstanceValue { heading } { chapter } { text }
        }
      \int_compare:nNnTF { \int_use:N \sblreport@appendices } = { 1 }
        {
          \int_compare:nNnT { \sblreport@appendix@state } > { 1 }
            {
              \InstanceValue { headformat } { chapter } { separator-a }
              #1
            }
        }
        {
          \InstanceValue { headformat } { chapter } { separator-a }
          #1
        }
      : \enspace
      \hook_use:nnw { contentsline / number / after } { 1 } {#1}
    }
  \socket_new_plug:nnn { sblreport / numberline }
    { part }
    {
```

```
      \hook_use:nnw { contentsline / number / before } { 1 } {#1}
      \exp_args:Ne \MakeUppercase
        {
          \InstanceValue { heading } { part } { text }
        }
      \InstanceValue { headformat } { part } { separator-a }
      #1
      : \enspace
      \hook_use:nnw { contentsline / number / after } { 1 } {#1}
    }
  \socket_assign_plug:nn
    { sblreport / numberline } { default }
  \cs_set_nopar:Npn \numberline #1
    {
      \socket_use:n { sblreport / numberline } {#1}
    }
  \cs_set_nopar:cpn { contentsline@text@-1@format }
    { \MakeUppercase }
  \cs_set_nopar:Npn \l@part #1#2
    {
      \int_compare:nNnT { \c@tocdepth } > { -2 }
        {
          \socket_assign_plug:nn { sblreport / numberline } { part }
          \addpenalty { -\@highpenalty }
          \addvspace { 14.5pt }
          \group_begin:
            \centering
            \skip_set:Nn \leftskip  { \@pnumwidth plus 1.0fil }
            \skip_set_eq:NN \rightskip \leftskip
            {
              \mode_leave_vertical:
              \hook_use:nnw { contentsline / text / before } { 4 }
                { \toclevel@part }
                {#1}
                {#2}
                { \@contentsline@destination }
              \use:c { contentsline@text@-1@format } {#1}
              \hook_use:nnw { contentsline / text / after } { 4 }
                { \toclevel@part }
                {#1}
                {#2}
                { \@contentsline@destination }
              \hook_use:nnw { contentsline / page / before } { 4 }
                { \toclevel@part }
                {#1}
                {#2}
                { \@contentsline@destination }
              \hook_use:nnw { contentsline / page / after } { 4 }
                { \toclevel@part }
                {#1}
                {#2}
                { \@contentsline@destination }
            }
            \par
```

```
            \nobreak
          \group_end:
        }
    }
  \cs_set_nopar:Npn \l@chapter
    {
      \socket_assign_plug:nn { sblreport / numberline } { chapter }
      \@dottedtocline { 0 } { 0em } { 0em }
    }
  \cs_set_nopar:Npn \l@section
    {
      \socket_assign_plug:nn { sblreport / numberline } { default }
      \@dottedtocline { 1 } { 1em } { 0em }
    }
  \cs_set_nopar:Npn \l@subsection
    {
      \socket_assign_plug:nn { sblreport / numberline } { default }
      \@dottedtocline { 2 } { 2em } { 0em }
    }
  \cs_set_nopar:Npn \l@subsubsection
    {
      \socket_assign_plug:nn { sblreport / numberline } { default }
      \@dottedtocline { 3 } { 3em } { 0em }
    }
  \cs_set_nopar:Npn \l@paragraph
    {
      \socket_assign_plug:nn { sblreport / numberline } { default }
      \@dottedtocline { 4 } { 4em } { 0em }
    }
  \cs_set_nopar:Npn \l@subparagraph
    {
      \socket_assign_plug:nn { sblreport / numberline } { default }
      \@dottedtocline { 5 } { 5em } { 0em }
    }
  \cs_set_nopar:Npn \l@figure
    {
      \socket_assign_plug:nn { sblreport / numberline } { default }
      \@dottedtocline { 1 } { 0em } { 0em }
    }
  \cs_set_eq:NN \l@table \l@figure
}
{
  \RequirePackage { titletoc }
```

`\__sblreport_hyperlink:nn` `{`⟨*link*⟩`}` `{`⟨*text*⟩`}`

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

```
  \cs_new_protected:Nn \__sblreport_hyperlink:nn
    {
      \cs_if_exist_use:NTF \hyperlink
        { { #1 } { #2 } }
        { #2 }
    }
```

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

```
\titlecontents { figure }
  [ 0pt ]
  { \singlepacing \filright }
  {
    \__sblreport_hyperlink:nn
      { \Hy@tocdestname }
      { \makebox [ 2em ] [ r ] { \thecontentslabel . \enspace } }
  }
  { }
  { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
\titlecontents { table }
  [ 0pt ]
  { \singlespacing \filright }
  {
    \__sblreport_hyperlink:nn
      { \Hy@tocdestname }
      { \makebox [ 2em ] [ r ] { \thecontentslabel . \enspace } }
  }
  { }
  { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
\titlecontents { part }
  [ 0pt ]
  { \singlespacing \filcenter }
  {
    \__sblreport_hyperlink:nn
      { \Hy@tocdestname }
      {
        \MakeUppercase { \partname } \space
        \thecontentslabel : \enspace
      }
    \MakeUppercase
  }
  { \MakeUppercase }
  { }
\titlecontents { chapter }
  [ 0pt ]
  { \singlespacing \filright }
  {
    \__sblreport_hyperlink:nn
      { \Hy@tocdestname }
      {
        \MakeUppercase { \chaptername } \space
        \thecontentslabel : \enspace
      }
    \MakeUppercase
  }
  { \MakeUppercase }
  { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
\titlecontents { section }
  [ 1em ]
  { \singlespacing \filright }
  {
    \__sblreport_hyperlink:nn
      { \Hy@tocdestname }
```

```
          { \thecontentslabel \hspace { 1em } }
      }
      { }
      { \hfill \contentspage }
    \titlecontents { subsection }
      [ 2em ]
      { \singlespacing \filright }
      {
        \__sblreport_hyperlink:nn
          { \Hy@tocdestname }
          { \thecontentslabel \hspace { 1em } }
      }
      { }
      { \hfill \contentspage }
    \titlecontents { subsubsection }
      [ 3em ]
      { \singlespacing \filright }
      {
        \__sblreport_hyperlink:nn
          { \Hy@tocdestname }
          { \thecontentslabel \hspace { 1em } }
      }
      { }
      { \hfill \contentspage }
    \titlecontents { paragraph }
      [ 4em ]
      { \singlespacing \filright }
      {
        \__sblreport_hyperlink:nn
          { \Hy@tocdestname }
          { \thecontentslabel \hspace { 1em } }
      }
      { }
      { \hfill \contentspage }
    \titlecontents { subparagraph }
      [ 5em ]
      { \singlespacing \filright }
      {
        \__sblreport_hyperlink:nn
          { \Hy@tocdestname }
          { \thecontentslabel \hspace { 1em } }
      }
      { }
      { \hfill \contentspage }
  }
```

5.11 Appendices

Set up appendix headings and table of contents.

```
\cs_set_eq:NN \sblreport@hyperlink \__sblreport_hyperlink:nn
```

Create a state flag indicating if `\appendix` has been called. Within appendices, this flag is set to a value of 1. This is only used when `\DocumentMetadata` is in use.

```
\int_new:N \sblreport@appendices
```

Create a state flag for number of appendices. A value of 0 indicates there are no appendices, 1 indicates one appendix and 2 indicates multiple appendices.

```
\int_new:N \sblreport@appendix@state
\hook_gput_code:nnn { enddocument / afterlastpage } { sblreport }
  {
    \protected@write \@auxout
      { }
      {
        \exp_not:N \global
        \exp_not:N \sblreport@appendix@state
        \int_use:N \sblreport@appendix@state
      }
  }
\cs_new_protected:Nn \__sblreport_set_up_appendices:
  {
    \int_compare:nNnT { \sblreport@appendix@state } = { 1 }
      { \int_gzero:N \sblreport@appendix@state }
    \cs_set_nopar:Npn \thechapter { \arabic { chapter } }
    \IfDocumentMetadataTF
      {
        \addtocontents { toc } { \sblreport@appendices 1 }
        \addtocontents { toc }
          { \def \protect \chaptername { \appendixname } }
        \cs_new:Nn \__sblreport_appendix_number_format:
          {
            \int_compare:nNnT
              { \sblreport@appendix@state } > { 1 }
              { \thechapter }
          }
        \cs_new:Nn \__sblreport_appendix_separator_a:
          {
            \int_compare:nNnT
              { \sblreport@appendix@state } > { 1 }
              {
                \skip_horizontal:n { 0.5em }
              }
          }
        \EditInstance { heading } { chapter }
          {
            , number-format = \__sblreport_appendix_number_format:
            , text          = \appendixname
          }
        \EditInstance { headformat } { chapter }
          {
            , separator-a = \__sblreport_appendix_separator_a:
          }
        \DeclareDocumentCommand \chapter { s = { shorttitle } o m }
          {
            \bool_if:nF {##1}
              {
                \int_compare:nNnT { \sblreport@appendix@state } < { 2 }
                  { \int_gincr:N \sblreport@appendix@state }
              }
```

```
            \ParseLaTeXeHeading { chapter } {##1} {##2} {##3}
            \__sblreport_after_head_correction:
          }
      }
      {
        \titleformat
          { \chapter }
          [ display ]
          {
            \singlespacing \normalfont \normalsize \filcenter
          }
          {
            \int_compare:nNnT { \sblreport@appendix@state } < { 2 }
              { \int_gincr:N \sblreport@appendix@state }
            \MakeUppercase { \appendixname }
            \int_compare:nNnT { \sblreport@appendix@state } > { 1 }
              {
                \space \thechapter
              }
          }
          { 12pt }
          { \MakeUppercase }
          [ \__sblreport_after_head_correction: ]
        \titlecontents { chapter }
          [ 0pt ]
          { \singlespacing \filright }
          {
            \sblreport@hyperlink
              { \Hy@tocdestname }
              {
                \MakeUppercase { \appendixname }
                \ifnum \sblreport@appendix@state > 1
                  \strut \space \thecontentslabel
                \fi
                : \enspace
              }
            \MakeUppercase
          }
          { \MakeUppercase }
          { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
      }
  }

\hook_gput_code:nnn
  { cmd / appendix / after }
  { sblreport }
  { \__sblreport_set_up_appendices: }
```

5.12 Bibliography and list of abbreviations

```
\DefineBibliographyStrings { english }
  {
    shorthands = { List~of~Abbreviations }
  }
```

```
\cs_set_nopar:Npn \bibsetup { \singlespacing }
\dim_set:Nn \bibhang { 0.5in }
\dim_set:Nn \bibitemsep { 12pt }
\dim_set:Nn \biblabelsep { 0.5in }
```

5.13 Helper functions

__sblreport_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`).

```
\prg_new_protected_conditional:Npnn \__sblreport_if_page_numbering:n #1 { T }
  {
    \cs_set_nopar:Nn \__sblreport_thepage_test:
      { \csname @ #1 \endcsname \c@page }
    \if_meaning:w \thepage \__sblreport_thepage_test:
      \prg_return_true:
    \else:
      \prg_return_false:
    \fi:
  }
```

(*End of definition for* `\__sblreport_if_page_numbering:nT`.)

```
\endinput
```

⟨/class⟩