The **skrapport** class[*]

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1 Introduction

This document class is intended for simple reports submitted by the author at Chalmers University of Technology. It is small, straightforward and basically a restyling of the standard LaTeX article class. It does, however, offer a different set of options.

2 Usage

2.1 Options

a4paper,a5paper Paper size. Only these two are available; use the **geometry** package to utilize american or otherwise esoteric paper sizes. Default is `a4paper`.

10pt,11pt,12pt Font size, exactly like the standard **article** document class. Default is `11pt`.

draft,final Trigger (or untrigger) draft mode, like the standard **article** class. Default is `final`.

fleqn,leqno Included for compatibility with **article**.

bftitles,rmtitles Decides wether to typeset titles using bold fonts or regular ones. Default is `rmtitles` (i.e. non-bold titles).

swe,eng Tells **babel** what language to load as the primary one. Both languages are loaded regardless. Default is `swe`.

lmodern,palatino Decides what font to use. Default is `lmodern`.

indent,noindent Decides wether to use paragraph indentation or **parskip**-style paragraphs. Default is `noindent`.

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[*]This document corresponds to **skrapport** v0.09, dated 2012/06/07.

onecolumn,twocolumn Decides wether the document has one column (default) or two (implemented using the excellend `multicol` package).

color,nocolor Enables or diables colors and color themes in the document. Default is `color`.

2.2 Useful macros

In general, the class defines the same macros as the article class.

\regarding   The class does add a `\regarding` macro, which is used like the standard `\author` and `\title` macros and should be given an accurate but short description of the purpose of the report (i.e. course name or similar). This is printed along with the date on the top of the title/first page.

onecol   In `twocolumn` mode, the package defines an environment `onecol` which typesets its contents in a single column. Additionally, it redefines `figure` and `table` as non-floats, leaving the starred versions intact. If the package is loaded with the

\colortheme `color` option, changing the color theme is possible using `colortheme`, which loads an appropriate package. At the moment, four color themes are available: default, unscathed, cruelwater and violet.

3 Additional information

3.1 Included packages

The document class includes babel, fontenc, icomma, amsmath, amssymb, microtype and hyperref by default, and skmath if it exists.

4 Implementation

Start by including kvoptions and defining some variables for future use.

```
1 \RequirePackage{xstring}
2 \RequirePackage{kvoptions}
3 \SetupKeyvalOptions{family=skrapport,prefix=skrapport@}
4 \newcommand\@ptsize{}
5 \IfFileExists{ifxetex.sty}{%
6   \RequirePackage{ifxetex}%
7 }{%
8   \newif\ifxetex\xetexfalse%
9 }
```

Declare the paper size options.

```
10 \DeclareStringOption[a4paper]{paper}
11 \DeclareVoidOption{a4paper}{\skrapport@SetupPaper}
12 \DeclareVoidOption{a5paper}{\skrapport@SetupPaper}
13 \newcommand*{\skrapport@SetupPaper}{\expandafter\@skrapport@SetupPaper\expandafter{\CurrentOpti
14 \newcommand*{\@skrapport@SetupPaper}[1]{\setkeys{skrapport}{paper={#1}}}
```

Declare point size options.

```
15 \DeclareStringOption[11pt]{ptsize}
16 \DeclareVoidOption{10pt}{\skrapport@SetupPtsize}
17 \DeclareVoidOption{11pt}{\skrapport@SetupPtsize}
18 \DeclareVoidOption{12pt}{\skrapport@SetupPtsize}
19 \newcommand*{\skrapport@SetupPtsize}{\expandafter\@skrapport@SetupPtsize\expandafter{\CurrentOp
20 \newcommand*{\@skrapport@SetupPtsize}[1]{\setkeys{skrapport}{ptsize={#1}}}
```

Declare column options.

```
21 \DeclareBoolOption[false]{twocolumn}
22 \DeclareComplementaryOption{onecolumn}{twocolumn}
```

Declare draft and final options.

```
23 \DeclareBoolOption[false]{draft}
24 \DeclareComplementaryOption{final}{draft}
```

Declare the fleqn and leqno options for compatibility with the article class.

```
25 \DeclareBoolOption[false]{leqno}
26 \DeclareBoolOption[false]{fleqn}
```

Declare options for bold/roman section titles.

```
27 \DeclareStringOption[rm]{titles}
28 \DeclareVoidOption{rmtitles}{\skrapport@SetupTitles}
29 \DeclareVoidOption{bftitles}{\skrapport@SetupTitles}
30 \DeclareVoidOption{sftitles}{\skrapport@SetupTitles}
31 \newcommand*{\skrapport@SetupTitles}{\expandafter\@skrapport@SetupTitles\expandafter{\CurrentOp
32 \newcommand*{\@skrapport@SetupTitles}[1]{%
33 \IfStrEq{#1}{bftitles}{%
34 \setkeys{skrapport}{titles={bf}}%
35 }{\IfStrEq{#1}{sftitles}{%
36 \setkeys{skrapport}{titles={sf}}%
37 }{
38 \setkeys{skrapport}{titles={rm}}%
39 }}}
```

Declare options for swedish/english babel support.

```
40 \DeclareBoolOption[false]{eng}
41 \DeclareComplementaryOption{swe}{eng}
```

Declare font options.

```
42 \DeclareStringOption[kpfonts]{font}
43 \DeclareVoidOption{kpfonts}{\skrapport@SetupFont}
44 \DeclareVoidOption{lmodern}{\skrapport@SetupFont}
45 \DeclareVoidOption{palatino}{\skrapport@SetupFont}
46 \DeclareVoidOption{nofont}{\skrapport@SetupFont}
47 \newcommand*{\skrapport@SetupFont}{\expandafter\@skrapport@SetupFont\expandafter{\CurrentOption
48 \newcommand*{\@skrapport@SetupFont}[1]{\setkeys{skrapport}{font={#1}}}
```

Declare indentation options.

```
49 \DeclareBoolOption[false]{indent}
50 \DeclareComplementaryOption{noindent}{indent}
```

Declare color option.

```
51 \DeclareBoolOption[true]{color}
52 \DeclareComplementaryOption{nocolor}{color}
```

Execute default options and process given options.

```
53 \ProcessKeyvalOptions*
```

Require packages as per given options.

```
54 \IfStrEq{\skrapport@paper}{a4paper}{%
55 \RequirePackage[a4paper]{geometry}
56 \setlength\paperheight {297mm}
57 \setlength\paperwidth  {210mm}
58 }{\IfStrEq{\skrapport@paper}{a5paper}{%
59 \RequirePackage[a5paper]{geometry}
60 \setlength\paperheight {210mm}
61 \setlength\paperwidth  {148mm}
62 }{%
63 \ClassError{skrapport}{%
64 Option 'paper' has unknown value '\skrapport@paper'
65 }{}
66 }}
67 \IfStrEq{\skrapport@ptsize}{10pt}{%
68 \renewcommand\@ptsize{0}
69 }{%
70 \IfStrEq{\skrapport@ptsize}{11pt}{%
71 \renewcommand\@ptsize{1}
72 }{%
73 \IfStrEq{\skrapport@ptsize}{12pt}{%
74 \renewcommand\@ptsize{2}
75 }{%
76 \ClassError{skrapport}{%
77 Option 'ptsize' has unknown value '\skrapport@ptsize'
78 }{}
79 }
80 }
81 }
82 \ifskrapport@draft
83 \setlength\overfullrule{5pt}
84 \else
85 \setlength\overfullrule{0pt}
86 \fi
87 \ifskrapport@leqno\input{leqno.clo}\fi
88 \ifskrapport@fleqn\input{fleqn.clo}\fi
89 \IfStrEq{\skrapport@titles}{bf}{%
90 \let\@titstyle\bfseries%
91 }{\IfStrEq{\skrapport@titles}{sf}{%
92 \let\@titstyle\sffamily\bfseries%
93 }{%
94 \let\@titstyle\relax%
95 }}
```

```latex
 96 \ifxetex
 97   \RequirePackage[quiet]{fontspec}
 98 \DeclareRobustCommand\nobreakspace{\leavevmode\nobreak\space}
 99 \else
100   \RequirePackage[T1]{fontenc}
101 \fi
102 \ifskrapport@color
103 \RequirePackage{etoolbox}
104 \RequirePackage{xcolor}
105 \fi
106 \IfStrEq{\skrapport@font}{nofont}{}{%
107 \IfStrEq{\skrapport@font}{kpfonts}{%
108 \RequirePackage[easyscsl,intlimits,sumlimits]{kpfonts}
109 }{%
110 \IfStrEq{\skrapport@font}{palatino}{%
111 \IfFileExists{tgpagella.sty}{%
112 \RequirePackage{tgpagella}
113 }{%
114 \RequirePackage[sc]{mathpazo}
115 }
116 }{%
117 \IfStrEq{\skrapport@font}{lmodern}{%
118 \RequirePackage{lmodern}
119 }{%
120 \ClassError{skrapport}{%
121 Option 'font' has unknown value '\skrapport@font'
122 }{}
123 }
124 }
125 }
126 }
127 \ifskrapport@eng
128 \ifxetex
129 \RequirePackage{xkeyval}
130 \RequirePackage{polyglossia}
131 \setmainlanguage[variant=british]{english}
132 \setotherlanguage{swedish}
133 \else
134 \RequirePackage[swedish,british]{babel}
135 \fi
136 \else
137 \ifxetex
138 \RequirePackage{xkeyval}
139 \RequirePackage{polyglossia}
140 \setmainlanguage{swedish}
141 \setotherlanguage[variant=british]{english}
142 \else
143   \RequirePackage[british,swedish]{babel}
144 \fi
145 \fi
```

```
146 \ifskrapport@twocolumn
147 \RequirePackage{etoolbox}
148 \RequirePackage{multicol}
149 \fi
```

Include some essential packages per default.

```
150 \RequirePackage{calc}
151 \AtEndOfClass{
152     \RequirePackage{microtype}
153 \RequirePackage{icomma}
154 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage[intlimits]{amsmath}}
155 \let\Finv\relax
156 \let\Game\relax
157 \let\beth\relax
158 \let\gimel\relax
159 \let\daleth\relax
160 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage{amssymb}}
161 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage{textcomp}}
162 \IfFileExists{skmath.sty}{\RequirePackage{skmath}}{}
163 }
164 \AtBeginDocument{
165 \@ifundefined{urlstyle}{}{\urlstyle{same}}
166 }
```

Include the correct point size `.clo` file from the article class.

```
167 \input{size1\@ptsize.clo}
```

Set some default measurements.

```
168 \addtolength\textwidth{0.5\oddsidemargin}
169 \addtolength\textwidth{0.5\evensidemargin}
170 \addtolength\oddsidemargin{-0.5\oddsidemargin}
171 \addtolength\evensidemargin{-0.5\evensidemargin}
172 \setlength\lineskip{1\p@}
173 \setlength\normallineskip{1\p@}
174 \renewcommand\baselinestretch{}
```

Indentation code. Undo the indentation set by the article class if indentation was requested by the user. See the parskip package for further information. Enable french spacing as well.

```
175 \ifskrapport@indent\else
176         \setlength\parskip{0.5\baselineskip \@plus 2pt}
177 \parindent=\z@
178 \setlength\parfillskip{30\p@ \@plus 1fil}
179 \def\@listI{\leftmargin\leftmargini
180   \topsep\z@ \parsep\parskip \itemsep\z@}
181 \let\@listi\@listI
182 \@listi
183 \def\@listii{\leftmargin\leftmarginii
184   \labelwidth\leftmarginii\advance\labelwidth-\labelsep
185   \topsep\z@ \parsep\parskip \itemsep\z@}
186 \def\@listiii{\leftmargin\leftmarginiii
```

```
187   \labelwidth\leftmarginiii\advance\labelwidth-\labelsep
188   \topsep\z@ \parsep\parskip \itemsep\z@}
189 \partopsep=\z@
190 \@ifundefined{CheckCommand}{}{%
191   \CheckCommand*{\@starttoc}[1]{%
192     \begingroup
193       \makeatletter
194       \@input{\jobname.#1}%
195       \if@filesw
196         \expandafter\newwrite\csname tf@#1\endcsname
197         \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
198       \fi
199       \@nobreakfalse
200     \endgroup}}
201 \renewcommand*{\@starttoc}[1]{%
202   \begingroup
203     \makeatletter
204     \parskip\z@
205     \@input{\jobname.#1}%
206     \if@filesw
207       \expandafter\newwrite\csname tf@#1\endcsname
208       \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
209     \fi
210     \@nobreakfalse
211   \endgroup}
212 \fi
213 \frenchspacing
```

Penalties and float settings.

```
214 \@lowpenalty    51
215 \@medpenalty   151
216 \@highpenalty 301
217 \setcounter{topnumber}{2}
218 \setcounter{bottomnumber}{1}
219 \setcounter{totalnumber}{4}
220 \setcounter{dbltopnumber}{2}
221 \renewcommand\topfraction{.75}
222 \renewcommand\bottomfraction{.5}
223 \renewcommand\textfraction{.25}
224 \renewcommand\floatpagefraction{.625}
225 \renewcommand\dbltopfraction{.75}
226 \renewcommand\dblfloatpagefraction{.625}
```

\regarding This macro is used by \maketitle to insert a simple text into the header on the title page.

```
227 \def\@regarding{\relax}
228 \newcommand{\regarding}[1]{\gdef\@regarding{#1}}
```

\license This macro is used by \maketitle to insert a license into the footer on the titlepage.

```
229 \def\@copyright{\relax}
230 \newcommand{\license}[1]{\gdef\@copyright{#1}}
```

The standard `\maketitle` command as taken from the article class but with some basic restyling.

```
231 \let\@smallprintstyle\relax
232 \newcommand\maketitle{\par%
233   \begingroup
234     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
235     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
236     \long\def\@makefntext##1{\parindent 1em\noindent%
237       \hb@xt@1.8em{\hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
238     \newpage
239     \global\@topnum\z@
240     \@maketitle
241     \thispagestyle{plain}\@thanks
242   \endgroup
243   \setcounter{footnote}{0}%
244 }
245 \def\@maketitle{%
246   \newpage
247   \null
248   \begin{flushleft}%
249 \vspace{-\headsep}
250     {\small%
251       \@smallprintstyle
252       \if\@regarding\relax\else\@regarding{, }\fi%
253       \@date\par%
254     }%
255     \vspace{1.5cm}%
256     {\Huge\@titstyle\@title\par}%
257     \vspace{.125cm}%
258     {\Large\@titstyle\@author}%
259     \vspace{.75cm}%
260   \end{flushleft}%
261   \par%
262 }
```

Sectioning commands.

```
263 \setcounter{secnumdepth}{3}
264 \newcounter{section}
265 \newcounter{subsection}[section]
266 \newcounter{subsubsection}[subsection]
267 \newcounter{paragraph}[subsubsection]
268 \newcounter{subparagraph}[paragraph]
269 \renewcommand\thesection{\@arabic\c@section}
270 \renewcommand\thesubsection{\thesection.\@arabic\c@subsection}
271 \renewcommand\thesubsubsection{\thesubsection.\@arabic\c@subsubsection}
272 \renewcommand\theparagraph{\thesubsubsection.\@arabic\c@paragraph}
273 \renewcommand\thesubparagraph{\theparagraph.\@arabic\c@subparagraph}
```

```
274 \newcommand\section{\@startsection{section}{1}{\z@}%
275   {-4ex \@plus 1ex \@minus -1ex}%
276   {.5ex \@plus.5ex}%
277   {\normalfont\LARGE\@titstyle}}
278 \newcommand\subsection{\@startsection{subsection}{2}{\z@}%
279   {-3ex \@plus 1ex \@minus -1ex}%
280   {.25ex \@plus.25ex}%
281   {\normalfont\Large\@titstyle}}
282 \newcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
283   {-2ex \@plus .5ex \@minus -.5ex}%
284   {.125ex \@plus.125ex}%
285   {\normalfont\large\@titstyle}}
286 \newcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
287   {1ex \@plus .25ex \@minus -.25ex}%
288   {-1em}%
289   {\normalfont\normalsize\bfseries}}
290 \newcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
291   {1ex \@plus .25ex \@minus -.25ex}%
292   {-1em}%
293   {\normalfont\normalsize\itshape}}
```

Itemization commands.

```
294 \setlength\leftmargini{2em}
295 \leftmargin\leftmargini
296 \setlength\leftmarginii{2em}
297 \setlength\leftmarginiii{1.5em}
298 \setlength\leftmarginiv{1.5em}
299 \setlength\leftmarginv{1em}
300 \setlength\leftmarginvi{1em}
301 \setlength\labelsep{.5em}
302 \setlength\labelwidth{\leftmargini}
303 \addtolength\labelwidth{-\labelsep}
304 \@beginparpenalty -\@lowpenalty
305 \@endparpenalty   -\@lowpenalty
306 \@itempenalty     -\@lowpenalty
307 \renewcommand\theenumi{\@arabic\c@enumi}
308 \renewcommand\theenumii{\@alph\c@enumii}
309 \renewcommand\theenumiii{\@roman\c@enumiii}
310 \renewcommand\theenumiv{\@Alph\c@enumiv}
311 \newcommand\labelenumi{\theenumi.}
312 \newcommand\labelenumii{\theenumii)}
313 \newcommand\labelenumiii{\theenumiii.}
314 \newcommand\labelenumiv{\theenumiv.}
315 \renewcommand\p@enumii{\theenumi}
316 \renewcommand\p@enumiii{\theenumi(\theenumii)}
317 \renewcommand\p@enumiv{\p@enumiii\theenumiii}
318 \newcommand\labelitemi{\textbullet}
319 \newcommand\labelitemii{\textopenbullet}
320 \newcommand\labelitemiii{\normalfont\bfseries\textendash}
321 \newcommand\labelitemiv{\textrightarrow}
```

```
322 \newenvironment{description}
323   {\list{}{\labelwidth\z@\itemindent-\leftmargin
324     \let\makelabel\descriptionlabel}}{\endlist}
325 \newcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\bfseries #1}
```

Standard restyled `abstract` environment from the `article` class.

```
326 \newenvironment{abstract}{\newlength\skrapport@abstract@tw\newlength\skrapport@abstract@aw\sett
```

Quotation environments.

```
327 \newenvironment{quote}{\list{}{\rightmargin\leftmargin}\item\relax\itshape}{\endlist}
328 \newenvironment{quotation}{\bigskip\begin{quote}}{\end{quote}\bigskip}
329 \newenvironment{verse}{\begin{quote}}{\end{quote}}
```

Titlepage environment.

```
330 \newcommand\ps@skrapport@titlepage{\def\@oddhead{}\def\@evenhead{}\def\@oddfoot{\begin{minipage
331 \newenvironment{titlepage}{\cleardoublepage\setcounter{page}\@ne}{\thispagestyle{skrapport@titl
```

Appendix macro.

```
332 \newcommand\appendix{\par\setcounter{section}{0}\setcounter{subsection}{0}\gdef\thesection{\@Al
```

Figure and table floats.

```
333 \setlength\arraycolsep{5\p@}
334 \setlength\tabcolsep{6\p@}
335 \setlength\arrayrulewidth{.4\p@}
336 \setlength\doublerulesep{2\p@}
337 \setlength\tabbingsep{\labelsep}
338 \skip\@mpfootins=\skip\footins
339 \setlength\fboxsep{3\p@}
340 \setlength\fboxrule{.4\p@}
341 \renewcommand\theequation{\@arabic\c@equation}
342 \newcounter{figure}\renewcommand\thefigure{\@arabic\c@figure}
343 \def\fps@figure{tb}
344 \def\ftype@figure{1}
345 \def\ext@figure{lof}
346 \def\fnum@figure{\figurename~\thefigure}
347 \newenvironment{figure}{\@float{figure}}{\end@float}
348 \newenvironment{figure*}{\@dblfloat{figure}}{\end@dblfloat}
349 \newcounter{table}\renewcommand\thetable{\@arabic\c@table}
350 \def\fps@table{tb}
351 \def\ftype@table{2}
352 \def\ext@table{lot}
353 \def\fnum@table{\tablename~\thetable}
354 \newenvironment{table}{\@float{table}}{\end@float}
355 \newenvironment{table*}{\@dblfloat{table}}{\end@dblfloat}
```

Captions.

```
356 \let\@captionstyle\relax
357 \newlength\abovecaptionskip\setlength\abovecaptionskip{10\p@}
358 \newlength\belowcaptionskip\setlength\belowcaptionskip{10\p@}
359 \long\def\@makecaption#1#2{%
360 \vskip\abovecaptionskip
361 \sbox\@tempboxa{\small{\bfseries#1:} \itshape#2}%
```

```
362 \ifdim \wd\@tempboxa >\hsize
363 \small{\bfseries\@captionstyle#1:} \itshape#2\par
364 \else
365 \global \@minipagefalse
366 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
367 \fi
368 \vskip\belowcaptionskip}
```

Old font commands.

```
369 \DeclareOldFontCommand{\rm}{\normalfont\rmfamily}{\mathrm}
370 \DeclareOldFontCommand{\sf}{\normalfont\sffamily}{\mathsf}
371 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}
372 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
373 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit}
374 \DeclareOldFontCommand{\sl}{\normalfont\slshape}{\@nomath\sl}
375 \DeclareOldFontCommand{\sc}{\normalfont\scshape}{\@nomath\sc}
```

Redefining the \emph style to be bold when nested.

```
376 \let\@emstyle\relax
377 \DeclareRobustCommand\em{%
378 \@nomath\em%
379 \ifdim \fontdimen\@ne\font >\z@%
380 \itshape\bfseries%
381 \else%
382 \itshape%
383 \fi%
384 \@emstyle%
385 }
```

Table of contents code.

```
386 \newcommand\@pnumwidth{1.55em}
387 \newcommand\@tocrmarg{2em}
388 \newcommand\@dotsep{1.7}
389 \setcounter{tocdepth}{5}
390 \newcommand\tableofcontents{%
391   \section*{\contentsname
392     \@mkboth{\MakeUppercase\contentsname}{\MakeUppercase\contentsname}
393   }%
394 \vskip\baselineskip%
395   \@starttoc{toc}%
396 }
397 \newcommand*\l@section{\@dottedtocline{1}{0em}{1.3em}}
398 \newcommand*\l@subsection{\@dottedtocline{2}{1.3em}{2em}}
399 \newcommand*\l@subsubsection{\@dottedtocline{3}{3.3em}{3.15em}}
400 \newcommand*\l@paragraph{\@dottedtocline{4}{6.45em}{4.15em}}
401 \newcommand*\l@subparagraph{\@dottedtocline{5}{10.6em}{5.15em}}
```

Fix for e.g. tocloft package

```
402 \let\l@figure\@empty
403 \let\l@table\@empty
```

Bibliography code.

```
404 \newdimen\bibindent
405 \setlength\bibindent{2em}
406 \newenvironment{thebibliography}[1]
407 {\section*{\refname}%
408 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
409 \list{\@biblabel{\@arabic\c@enumiv}}%
410 {\settowidth\labelwidth{\@biblabel{#1}}%
411 \leftmargin\labelwidth
412 \advance\leftmargin\labelsep
413 \@openbib@code
414 \usecounter{enumiv}%
415 \let\p@enumiv\@empty
416 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
417 \sloppy
418 \clubpenalty4000
419 \@clubpenalty \clubpenalty
420 \widowpenalty4000}%
421 {\def\@noitemerr
422 {\@latex@warning{Empty thebibliography environment}}%
423 \endlist}
424 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
425 \let\@openbib@code\@empty
426 \newenvironment{theindex}
427 {\twocolumn[\section*{\indexname}]%
428 \@mkboth{\MakeUppercase\indexname}%
429 {\MakeUppercase\indexname}%
430 \thispagestyle{plain}\parindent\z@
431 \parskip\z@ \@plus .3\p@\relax
432 \columnseprule \z@
433 \columnsep 35\p@
434 \let\item\@idxitem}
435 {\onecolumn}
436 \newcommand\@idxitem{\par\hangindent 40\p@}
437 \newcommand\subitem{\@idxitem \hspace*{20\p@}}
438 \newcommand\subsubitem{\@idxitem \hspace*{30\p@}}
439 \newcommand\indexspace{\par \vskip 10\p@ \@plus5\p@ \@minus3\p@\relax}
```

Footnote code.

```
440 \renewcommand\footnoterule{%
441 \kern-3\p@
442 \hrule\@width.4\columnwidth
443 \kern2.6\p@}
444 \newcommand\@makefntext[1]{%
445 \parindent 1em%
446 \noindent
447 \hb@xt@1.8em{\hss\@makefnmark}#1}
```

Basic translatable texts.

```
448 \newcommand\contentsname{Innehll}
449 \newcommand\refname{Referenser}
450 \newcommand\figurename{Figur}
```

```
451 \newcommand\tablename{Tabell}
452 \newcommand\appendixname{Bilaga}
453 \newcommand\abstractname{Sammanfattning}
454 \def\today{\year--\month--\day}
```

The twocolumn hacks implemented.

```
455 \ifskrapport@twocolumn
456 \AtBeginDocument{
457 \IfStrEq{\skrapport@ptsize}{10pt}{
458 \RequirePackage[fontsize=10pt,baseline=12pt]{grid}
459 }{
460 \IfStrEq{\skrapport@ptsize}{11pt}{
461 \RequirePackage[fontsize=11pt,baseline=13.2pt]{grid}
462 }{
463 \RequirePackage[fontsize=12pt,baseline=14.4pt]{grid}
464 }
465 }
466 % Redefining abstract
467 \renewenvironment{abstract}{\section*{\abstractname}}{}
468 % Patching \env{document} and \cs{maketitle}
469 \AfterEndPreamble{\begin{multicols}{2}}
470 \AtEndDocument{\end{multicols}}
471 \pretocmd{\maketitle}{\end{multicols}}{}{}
472 \apptocmd{\maketitle}{\begin{multicols}{2}}{}{}
473 % Patching \env{equation}
474 \BeforeBeginEnvironment{equation}{\begin{gridenv}}
475 \AfterEndEnvironment{equation}{\end{gridenv}}
476 \BeforeBeginEnvironment{equation*}{\begin{gridenv}}
477 \AfterEndEnvironment{equation*}{\end{gridenv}}
478 % Patching \env{multline}
479 \BeforeBeginEnvironment{multline}{\begin{gridenv}}
480 \AfterEndEnvironment{multline}{\end{gridenv}}
481 \BeforeBeginEnvironment{multline*}{\begin{gridenv}}
482 \AfterEndEnvironment{multline*}{\end{gridenv}}
483 % Patching \env{gather}
484 \BeforeBeginEnvironment{gather}{\begin{gridenv}}
485 \AfterEndEnvironment{gather}{\end{gridenv}}
486 \BeforeBeginEnvironment{gather*}{\begin{gridenv}}
487 \AfterEndEnvironment{gather*}{\end{gridenv}}
488 % Patching \env{align}
489 \BeforeBeginEnvironment{align}{\begin{gridenv}}
490 \AfterEndEnvironment{align}{\end{gridenv}}
491 \BeforeBeginEnvironment{align*}{\begin{gridenv}}
492 \AfterEndEnvironment{align*}{\end{gridenv}}
493 % Patching \env{flalign}
494 \BeforeBeginEnvironment{flalign}{\begin{gridenv}}
495 \AfterEndEnvironment{flalign}{\end{gridenv}}
496 \BeforeBeginEnvironment{flalign*}{\begin{gridenv}}
497 \AfterEndEnvironment{flalign*}{\end{gridenv}}
498 % Patching \env{alignat}
```

```
499 \BeforeBeginEnvironment{alignat}{\begin{gridenv}}
500 \AfterEndEnvironment{alignat}{\end{gridenv}}
501 \BeforeBeginEnvironment{alignat*}{\begin{gridenv}}
502 \AfterEndEnvironment{alignat*}{\end{gridenv}}
503 % Patching \env{figure}
504 \renewenvironment{figure}{%
505 \begin{gridenv}%
506 \vspace{\intextsep}%
507 \begin{minipage}{\linewidth}%
508 \def\@captype{figure}%
509 }{%
510 \end{minipage}%
511 \vspace{\intextsep}%
512 \end{gridenv}%
513 }
514 % Patching \env{table}
515 \renewenvironment{table}{%
516 \begin{gridenv}%
517 \vspace{\intextsep}%
518 \begin{minipage}{\linewidth}%
519 \def\@captype{table}%
520 \let\@old@caption\caption%
521 \renewcommand{\caption}[1]{%
522 \setlength{\@tempdima}{\abovecaptionskip}%
523 \setlength{\abovecaptionskip}{\belowcaptionskip}%
524 \setlength{\belowcaptionskip}{\@tempdima}%
525 \@old@caption{##1}%
526 \vspace{\belowcaptionskip}%
527 }%
528 }{%
529 \end{minipage}%
530 \vspace{\intextsep}%
531 \end{gridenv}%
532 }
533 \let\oldoldtablest\oldtablest
534 \renewcommand{\oldtablest}{%
535 \oldoldtablest%
536 \let\@old@caption\caption%
537 \renewcommand{\caption}[1]{%
538 \setlength{\@tempdima}{\abovecaptionskip}%
539 \setlength{\abovecaptionskip}{\belowcaptionskip}%
540 \setlength{\belowcaptionskip}{\@tempdima}%
541 \@old@caption{##1}%
542 \vspace{\belowcaptionskip}%
543 }%
544 }
545 % Providing \env{onecol}
546 \newenvironment{onecol}{\end{multicols}}{\begin{multicols}{3}}
547 }
548 \fi
```

Color theme setup. Start by patching commands and declaring default colors.
Not implemented: background colors for e.g. quote environments and sections
headings, different colors for the different sectioning levels.

```
549 \ifskrapport@color
550 \apptocmd{\bfseries}{\color{skrapport@boldcolor}}{}{\ClassError{skrapport}{Could not patch \pro
551 \apptocmd{\itshape}{\color{skrapport@italiccolor}}{}{\ClassError{skrapport}{Could not patch \pr
552 \if\@titstyle\relax
553 \def\@titstyle{\color{skrapport@titlecolor}}
554 \else
555 \apptocmd{\@titstyle}{\color{skrapport@titlecolor}}{}{\ClassError{skrapport}{Could not patch \p
556 \fi
557 \def\@smallprintstyle{\color{skrapport@smallprintcolor}}
558 \AtBeginDocument{%
559 \let\@abstractname\abstractname
560 \def\abstractname{\color{skrapport@titlecolor}\@abstractname}
561 }
562 \apptocmd{\quote}{\color{skrapport@quotecolor}}{}{}
563 \def\@captionstyle{\color{skrapport@captioncolor}}
564 \def\@emstyle{\color{skrapport@emphcolor}}
565 \ifskrapport@twocolumn\AtBeginDocument{%
566 \renewcommand\section{\@startsection {section}{1}{\z@}%
567          {-.999\baselineskip}{0.001\baselineskip}{\bfseries\mathversion{bold}\color{skrapport@t
568 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
569 {\baselineskip}{-.35\baselineskip}{\bfseries\color{skrapport@titlecolor}\unskip}}
570 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
571 {\baselineskip}{-.35\baselineskip}{\itshape\color{skrapport@titlecolor}\unskip}}
572 }\fi
573 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
574 {1ex \@plus .25ex \@minus -.25ex}{-1em}{\normalfont\normalsize\bfseries\color{skrapport@titleco
575 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
576 {1ex \@plus .25ex \@minus -.25ex}{-1em}{\normalfont\normalsize\itshape\color{skrapport@titlecol
577 \AtBeginDocument{\@ifpackageloaded{hyperref}{%
578 \hypersetup{%
579 citebordercolor=skrapport@citecolor,citecolor=skrapport@citecolor,%
580 filebordercolor=skrapport@filecolor,filecolor=skrapport@filecolor,%
581 linkbordercolor=skrapport@linkcolor,linkcolor=skrapport@linkcolor,%
582 menubordercolor=skrapport@menucolor,menucolor=skrapport@menucolor,%
583 urlbordercolor=skrapport@urlcolor,urlcolor=skrapport@urlcolor,%
584 runbordercolor=skrapport@runcolor,runcolor=skrapport@runcolor%
585 }
586 }{}}
587 \AtBeginDocument{\color{skrapport@defaultcolor}}
```

Loading color themes

```
588 \newcommand\colortheme[1]{\usepackage{skrapport-colortheme-#1}}
589 \colortheme{default}
590 \fi
```

Final page setup

```
591 \setlength\columnsep{10\p@}
```

15

```
592 \setlength\columnseprule{0\p@}
593 \pagestyle{plain}
594 \pagenumbering{arabic}
595 \raggedbottom
596 \onecolumn
```

4.1 Color themes

4.1.1 Default color theme

```
597 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
598 \ProvidesPackage{skrapport-colortheme-default}
599     [2012/06/07 v1.0 skrapport color theme default]
600 \definecolor{skrapport@citecolor}{named}{green}
601 \definecolor{skrapport@filecolor}{named}{teal}
602 \definecolor{skrapport@linkcolor}{named}{red}
603 \definecolor{skrapport@menucolor}{named}{red}
604 \definecolor{skrapport@urlcolor}{named}{cyan}
605 \definecolor{skrapport@runcolor}{named}{teal}
606 \definecolor{skrapport@boldcolor}{named}{black}
607 \definecolor{skrapport@titlecolor}{named}{black}
608 \definecolor{skrapport@italiccolor}{named}{black}
609 \definecolor{skrapport@smallprintcolor}{named}{black}
610 \definecolor{skrapport@quotecolor}{named}{black}
611 \definecolor{skrapport@captioncolor}{named}{black}
612 \definecolor{skrapport@emphcolor}{named}{black}
613 \definecolor{skrapport@defaultcolor}{named}{black}
```

4.1.2 Unscathed color theme

```
614 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
615 \ProvidesPackage{skrapport-colortheme-unscathed}
616     [2012/06/07 v1.0 skrapport color theme unscathed]
617 \definecolor{skrapport@citecolor}{named}{skrapport@defaultcolor}
618 \definecolor{skrapport@filecolor}{named}{skrapport@defaultcolor}
619 \definecolor{skrapport@menucolor}{named}{skrapport@defaultcolor}
620 \definecolor{skrapport@runcolor}{named}{skrapport@defaultcolor}
621 \definecolor{skrapport@emphcolor}{HTML}{463335}
622 \definecolor{skrapport@linkcolor}{HTML}{CF5D3B}
623 \definecolor{skrapport@urlcolor}{named}{skrapport@linkcolor}
624 \definecolor{skrapport@titlecolor}{HTML}{B34430}
625 \definecolor{skrapport@captioncolor}{named}{skrapport@titlecolor}
626 \definecolor{skrapport@quotecolor}{HTML}{70524A}
627 \definecolor{skrapport@smallprintcolor}{named}{skrapport@quotecolor}
```

4.1.3 Cruelwater color theme

```
628 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
629 \ProvidesPackage{skrapport-colortheme-cruelwater}
630     [2012/06/07 v1.0 skrapport color theme cruelwater]
631 \definecolor{skrapport@citecolor}{named}{black}
632 \definecolor{skrapport@filecolor}{named}{black}
```

```
633 \definecolor{skrapport@linkcolor}{named}{black}
634 \definecolor{skrapport@menucolor}{named}{black}
635 \definecolor{skrapport@urlcolor}{named}{black}
636 \definecolor{skrapport@runcolor}{named}{black}
637 \definecolor{skrapport@boldcolor}{HTML}{030C22}
638 \definecolor{skrapport@titlecolor}{HTML}{20293F}
639 \definecolor{skrapport@italiccolor}{named}{black}
640 \definecolor{skrapport@smallprintcolor}{HTML}{A9B0B3}
641 \definecolor{skrapport@quotecolor}{HTML}{404749}
642 \definecolor{skrapport@captioncolor}{HTML}{030C22}
643 \definecolor{skrapport@emphcolor}{HTML}{20293F}
644 \definecolor{skrapport@defaultcolor}{named}{black}
```

4.1.4   Violet color theme

```
645 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
646 \ProvidesPackage{skrapport-colortheme-violet}
647     [2012/06/07 v1.0 skrapport color theme violet]
648 \definecolor{skrapport@citecolor}{HTML}{932444}
649 \definecolor{skrapport@filecolor}{HTML}{932444}
650 \definecolor{skrapport@linkcolor}{HTML}{932444}
651 \definecolor{skrapport@menucolor}{HTML}{932444}
652 \definecolor{skrapport@urlcolor}{HTML}{932444}
653 \definecolor{skrapport@runcolor}{HTML}{932444}
654 \definecolor{skrapport@boldcolor}{HTML}{311A2A}
655 \definecolor{skrapport@titlecolor}{HTML}{311A2A}
656 \definecolor{skrapport@italiccolor}{named}{black}
657 \definecolor{skrapport@smallprintcolor}{HTML}{D6CBCF}
658 \definecolor{skrapport@quotecolor}{HTML}{463335}
659 \definecolor{skrapport@captioncolor}{HTML}{311A2A}
660 \definecolor{skrapport@emphcolor}{HTML}{98758D}
661 \definecolor{skrapport@defaultcolor}{named}{black}
```