

# The **skrapport** document class<sup>\*†</sup>

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**Abstract** A document class intended for simple documents *e.g.* reports handed in to courses and such. It is small, straightforward and heavily inspired by the PracT<sub>E</sub>X Journal style.

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<sup>\*</sup>Available on <http://www.ctan.org/pkg/skrapport>.

<sup>†</sup>Development version available on <https://github.com/urdh/skrapport>.

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## 1 Documentation

### 1.1 Loading the class

The document class is loaded using `\documentclass` as usual, but it has a bunch of options that you might want to know about.

#### 1.1.1 Compatibility options

There are a couple of options that are mostly provided for compatibility with the standard  $\text{\LaTeX}$  2 $\epsilon$  document classes. These will do exactly the same thing they do in the standard classes, although they may differ in default value. Although some of these are key-value options, for compatibility their valid values may also be passed as keys.

**paper** Specifying paper size is possible using the `paper` option (the values of which are based on European paper sizes; use the `geometry` package for other standards). Only A4 and A5 are defined since these two sizes cover pretty much all intended use of the class. `a4paper` is the default value of this option, and the only other valid value is `a5paper`.

**ptsize** The same font sizes specified in the standard classes are also available in `skrapport` (*i.e.* 10pt, 11pt and 12pt. The default font size is 11pt, and there should be no compelling reason to change this.

**draft**  
**final**

The `draft` and `final` options work as expected, triggering or untriggering the familiar draft mode. The default is `final`.

`fleqn`      Purely for compatibility `skrapport` also defines the `fleqn` and `leqno`  
`leqno` options. As with the standard  $\text{\LaTeX}$  2<sub>ε</sub> classes, `fleqn` aligns equations with the left-hand margin and `leqno` places equation numbers to the left. None of these are activated by default.

### 1.1.2 Typographic options

There is also a number of options available to change certain aspects of the typography of the typeset document.

`titles`      There are three different ways to typeset section headings in `skrapport`: `rm` (upright serif), `bf` (boldfaced serif) and `sf` (sans serif). The default is `rm`.

`font`      In addition, the specific font can also be changed — the available choices are `lmodern` (Latin Modern), `kpfonts` (Kp-Fonts) and `palatino` (either  $\text{\TeX}$ -Gyre Pagella or Pazo Math depending on what's available), with the default being `kpfonts`. It is also possible to tell `skrapport` not to use any font (`nofont`), which is sometimes useful when using  $\text{\XeLaTeX}$ , among other things.

`indent`      Controlling indentation is possible using the options `(no)indent`. The  
`noindent` default, `noindent`, behaves much like the `parskip` package in that it replaces paragraph indentation with vertical spacing.

`onecolumn`      Similar to the options available in the standard classes, these options  
`twocolumn` specify whether to typeset the document in one or two columns. Unlike the standard classes, the two-column mode is implemented using `multicol`. The default is `onecolumn`.

### 1.1.3 Other options

`swe`      Either `babel` or `polyglossia` (depending on engine) is loaded by the  
`eng` package. These options specify what language should be used as the main language (swedish or english); both languages are always loaded. The default is `swe`.

`color`  
`nocolor`

It is also possible to load `xcolor` inside the package. If this is done, a range of color themes (discussed later) will be available in the package and these will affect the document. The default value is `nocolor`.

`math` Loading the `skmath` package is recommended and as such it is loaded  
`nomath` by default. If this for some reason is undesirable, the `nomath` option will suppress this behaviour.

## 1.2 Further documentation (unfinished)

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

```
\regarding{<text>}
```

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.

```
\begin{onecol}  
  <content>  
\end{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.

```
\colortheme{<theme>}
```

If the package is loaded with the `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`.

## 2 Additional information

## 2.1 Included packages

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

## 3 Implementation

Start with the standard L<sup>A</sup>T<sub>E</sub>X craft.

```
1 \NeedsTeXFormat{LaTeX2e}[1995/12/01]
2 \ProvidesClass{skrapport}%
3 [2012/06/07 v0.09 Sknings rapportklass]
```

Then, start by including kvoptions and defining some variables for future use.

```
4 \RequirePackage{xstring}
5 \RequirePackage{kvoptions}
6 \SetupKeyvalOptions{family=skrapport,prefix=skrapport@}
7 \newcommand\@ptsizet{}
8 \IfFileExists{ifxetex.sty}{%
9   \RequirePackage{ifxetex}%
10 }{%
11   \newif\ifxetex\xetexfalse%
12 }
```

### 3.1 Options

paper

a4paper

a5paper

Declare the paper size options.

```
13 \DeclareStringOption[a4paper]{paper}
14 \DeclareVoidOption{a4paper}{\skrapport@SetupPaper}
15 \DeclareVoidOption{a5paper}{\skrapport@SetupPaper}
```

```

16 \newcommand*{\skrapport@SetupPaper}{\expandafter\@skrapport@SetupPaper\expandafter{\CurrentOption}}
17 \newcommand*{\@skrapport@SetupPaper}[1]{\setkeys{skrapport}{paper={#1}}}

```

ptsiz

10pt

11pt

12pt

Declare point size options.

```

18 \DeclareStringOption[11pt]{ptsiz}
19 \DeclareVoidOption{10pt}{\skrapport@SetupPtsiz}
20 \DeclareVoidOption{11pt}{\skrapport@SetupPtsiz}
21 \DeclareVoidOption{12pt}{\skrapport@SetupPtsiz}
22 \newcommand*{\skrapport@SetupPtsiz}{\expandafter\@skrapport@SetupPtsiz\expandafter{\CurrentOption}}
23 \newcommand*{\@skrapport@SetupPtsiz}[1]{\setkeys{skrapport}{ptsiz={#1}}}

```

twocolumn

onecolumn

Declare column options.

```

24 \DeclareBoolOption[false]{twocolumn}
25 \DeclareComplementaryOption{onecolumn}{twocolumn}

```

draft

final

Declare draft and final options.

```

26 \DeclareBoolOption[false]{draft}
27 \DeclareComplementaryOption{final}{draft}

```

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

`leqno`

```

28 \DeclareBoolOption[false]{leqno}

```

`fleqn`

```

29 \DeclareBoolOption[false]{fleqn}

```

`titles`

Declare options for section titles.

`rmtitles`

`bftitles`

`sftitles`

```

30 \DeclareStringOption[rm]{titles}
31 \DeclareVoidOption{rmtitles}{\skrapport@SetupTitles}
32 \DeclareVoidOption{bftitles}{\skrapport@SetupTitles}
33 \DeclareVoidOption{sftitles}{\skrapport@SetupTitles}
34 \newcommand*{\skrapport@SetupTitles}{\expandafter\@skrapport@SetupTitles\expandafter{\CurrentOption}}
35 \newcommand*{\@skrapport@SetupTitles}[1]{%
36 \IfStrEq{#1}{bftitles}{%
37 \setkeys{skrapport}{titles={bf}}}%
38 }{\IfStrEq{#1}{sftitles}{%
39 \setkeys{skrapport}{titles={sf}}}%
40 }{
41 \setkeys{skrapport}{titles={rm}}}%
42 }}

```

swe

eng

Declare options for swedish/english babel or polyglossia support.

```
43 \DeclareBoolOption[false]{eng}  
44 \DeclareComplementaryOption{swe}{eng}
```

font

Declare font options.

kpfonts

lmodern

palatino

nofont

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

indent

noindent

Declare indentation options.



```

52 \DeclareBoolOption[false]{indent}
53 \DeclareComplementaryOption{noindent}{indent}

```

color

nocolor

Declare color options.

```

54 \DeclareBoolOption[true]{color}
55 \DeclareComplementaryOption{nocolor}{color}

```

math

nomath

Declare math options.

```

56 \DeclareBoolOption[true]{math}
57 \DeclareComplementaryOption{nomath}{math}

```

Execute default options and process given options.

```

58 \ProcessKeyvalOptions*

```

## 3.2 Loading packages

### 3.2.1 Optional packages

Require packages as per given options. Start with the paper size.

```

59 \IfStrEq{\skrapport@paper}{a4paper}{%
60 \RequirePackage[a4paper]{geometry}
61 \setlength\paperheight {297mm}
62 \setlength\paperwidth {210mm}
63 }{\IfStrEq{\skrapport@paper}{a5paper}{%
64 \RequirePackage[a5paper]{geometry}
65 \setlength\paperheight {210mm}
66 \setlength\paperwidth {148mm}
67 }{%

```

```

68 \ClassError{skrapport}{%
69 Option 'paper' has unknown value '\skrapport@paper'!
70 }{}
71 }}

```

### \@ptsize

Follow up with the point size.

```

72 \IfStrEq{\skrapport@ptsize}{10pt}{%
73 \renewcommand\@ptsize{0}
74 }{%
75 \IfStrEq{\skrapport@ptsize}{11pt}{%
76 \renewcommand\@ptsize{1}
77 }{%
78 \IfStrEq{\skrapport@ptsize}{12pt}{%
79 \renewcommand\@ptsize{2}
80 }{%
81 \ClassError{skrapport}{%
82 Option 'ptsize' has unknown value '\skrapport@ptsize'!
83 }{}
84 }
85 }
86 }

```

Setting draft mode is fairly easy, we only need \overfullrules.

```

87 \ifskrapport@draft
88 \setlength\overfullrule{5pt}
89 \else
90 \setlength\overfullrule{0pt}
91 \fi

```

Load leqno.clo and fleqno.clo if those options are desired.

```

92 \ifskrapport@leqno\input{leqno.clo}\fi
93 \ifskrapport@fleqn\input{fleqn.clo}\fi

```

Set the title font as prescribed.

```

94 \IfStrEq{\skrapport@titles}{bf}{%
95 \let\@titstyle\bfseries%
96 }{\IfStrEq{\skrapport@titles}{sf}{%
97 \let\@titstyle\sffamily\bfseries%
98 }{%
99 \let\@titstyle\relax%

```

```
100 }}
```

Now things get tricky. If we are using X<sub>Y</sub>T<sub>E</sub>X, we don't want fontenc because it makes no sense. We *do* want fontspec, though, because we want to be able to specify fonts. We also include a `\nobreakspace` macro which seems to be broken in X<sub>Y</sub>T<sub>E</sub>X.

```
101 \ifxetex
102   \RequirePackage[quiet]{fontspec}
```

`\nobreakspace`

```
103 \DeclareRobustCommand\nobreakspace{\leavevmode\nobreak\space}
```

```
104 \else
105   \RequirePackage[T1]{fontenc}
106 \fi
```

The color option requires both etoolbox and xcolor to be loaded.

```
107 \ifskrapport@color
108   \RequirePackage{etoolbox}
109   \RequirePackage{xcolor}
110 \fi
```

We also need to handle the font option. Note that we only load tpgella if it exists, and fall back to mathpazo otherwise.

```
111 \IfStrEq{\skrapport@font}{nofont}{-}{%
112 \IfStrEq{\skrapport@font}{kpfonts}{%
113 \RequirePackage[easyscs1,intlimits,sumlimits]{kpfonts}
114 }{%
115 \IfStrEq{\skrapport@font}{palatino}{%
116 \IfFileExists{tpgella.sty}{%
117 \RequirePackage{tpgella}
118 }{%
119 \RequirePackage{sc}{mathpazo}
120 }
121 }{%
122 \IfStrEq{\skrapport@font}{lmodern}{%
123 \RequirePackage{lmodern}
```

```

124 }{%
125 \ClassError{skrapport}{%
126 Option 'font' has unknown value '\skrapport@font'!
127 }{}
128 }
129 }
130 }
131 }

```

Language options follow. It is a bit convoluted since we load polyglossia in X<sub>Y</sub>TeX and babel in T<sub>E</sub>X, but it's fairly easy to follow.

```

132 \ifxetex
133 \RequirePackage{xkeyval}
134 \RequirePackage{polyglossia}
135 \ifskrapport@eng
136 \setmainlanguage[variant=british]{english}
137 \setotherlanguage{swedish}
138 \else
139 \setmainlanguage{swedish}
140 \setotherlanguage[variant=british]{english}
141 \fi
142 \else
143 \ifskrapport@eng
144 \RequirePackage[swedish,british]{babel}
145 \else
146 \RequirePackage[british,swedish]{babel}
147 \fi
148 \fi

```

Two-column mode requires etoolbox and multicol.

```

149 \ifskrapport@twocolumn
150 \RequirePackage{etoolbox}
151 \RequirePackage{multicol}
152 \fi

```

### 3.2.2 Required packages

We also include some essential packages per default. The calc package, for instance, is essential in later definitions.

```

153 \RequirePackage{calc}

```

At the end of the class definition we load a couple of very useful packages that improve typesetting. These are microtype, icomma and

amsmath. Additionally, we load skmath if it exists and is wanted, and unless we are using KP-Fonts, we load amssymb and textcomp (the reason being that kpfonts load these packages itself, see Caignaert (2010, p. 1), and we don't want conflicting options).

```

154 \AtEndOfClass{
155   \RequirePackage{microtype}
156 \RequirePackage{icomma}
157 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage[intlimits]{amsmath}}
158 \let\Finv\relax
159 \let\Game\relax
160 \let\beth\relax
161 \let\gimel\relax
162 \let\daleth\relax
163 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage{amssymb}}
164 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage{textcomp}}
165 \ifskrapport@math\IfFileExists{skmath.sty}{\RequirePackage{skmath}}{}{\fi
166 }

```

When the document starts, we set the URL style if the user has loaded the url package.

```

167 \AtBeginDocument{
168 \ifundefined{urlstyle}{}{\urlstyle{same}}
169 }

```

Lastly, we include the correct point size .clo file from the article class.

```

170 \input{size1\@ptsize.clo}

```

### 3.3 Hidden things

Set some default measurements.

```

171 \addtolength\textwidth{0.5\oddsidemargin}
172 \addtolength\textwidth{0.5\evensidemargin}
173 \addtolength\oddsidemargin{-0.5\oddsidemargin}
174 \addtolength\evensidemargin{-0.5\evensidemargin}
175 \setlength\lineskip{1\p@}
176 \setlength\normallineskip{1\p@}

```

`\baselinestretch`

```
177 \renewcommand\baselinestretch{}
```

### 3.3.1 Indentation

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.

```
178 \ifskrapport@indent\else
179   \setlength\parskip{0.5\baselineskip \@plus 2pt}
180   \parindent=\z@
181   \setlength\parfillskip{30\p@ \@plus 1fil}

182 \def\@listI{\leftmargin\leftmargini
183   \topsep\z@ \parsep\parskip \itemsep\z@}
184 \let\@listi\@listI

185 \@listi

186 \def\@listii{\leftmargin\leftmarginii
187   \labelwidth\leftmarginii\advance\labelwidth-\labelsep
188   \topsep\z@ \parsep\parskip \itemsep\z@}

189 \def\@listiii{\leftmargin\leftmarginiii
190   \labelwidth\leftmarginiii\advance\labelwidth-\labelsep
191   \topsep\z@ \parsep\parskip \itemsep\z@}

192 \partopsep=\z@
193 \ifundefined{CheckCommand}{\%
194   \CheckCommand*\@starttoc}[1]{%
195     \begingroup
196       \makeatletter
197       \@input{\jobname.#1}%
198       \if@filesw
199         \expandafter\newwrite\csname tf@#1\endcsname
200         \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
201       \fi
```

```

202     \@nobreakfalse
203   \endgroup}}

204 \renewcommand*{\@starttoc}[1]{%
205   \begingroup
206     \makeatletter
207     \parskip\z@
208     \@input{\jobname.#1}%
209     \if@files
210       \expandafter\newwrite\csname tf@#1\endcsname
211       \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
212     \fi
213     \@nobreakfalse
214   \endgroup}

215 \fi
216 \frenchspacing

```

### 3.3.2 Penalties

```

217 \@lowpenalty 51
218 \@medpenalty 151
219 \@highpenalty 301
220 \setcounter{topnumber}{2}
221 \setcounter{bottomnumber}{1}
222 \setcounter{totalnumber}{4}
223 \setcounter{dbltopnumber}{2}

224 \renewcommand\topfraction{.75}
225 \renewcommand\bottomfraction{.5}
226 \renewcommand\textfraction{.25}
227 \renewcommand\floatpagefraction{.625}
228 \renewcommand\dbltopfraction{.75}
229 \renewcommand\dblfloatpagefraction{.625}

```

## 3.4 User-level commands

### 3.4.1 The front page

### `\regarding`

This macro defines a variable used by `\maketitle` to insert a simple text into the header on the title page.

```
230 \def\@regarding{\relax}
231 \newcommand{\regarding}[1]{\gdef\@regarding{#1}}
```

### `\license`

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

```
232 \def\@copyright{\relax}
233 \newcommand{\license}[1]{\gdef\@copyright{#1}}
```

### `\maketitle`

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

```
234 \let\@smallprintstyle\relax
235 \newcommand\maketitle{\par%
236   \begingroup
237     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
238     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
239     \long\def\@makefntext##1{\parindent 1em\noindent%
240       \hb@xt@1.8em{\hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
241     \newpage
242     \global\@topnum\z@
243     \@maketitle
244     \thispagestyle{plain}\@thanks
245   \endgroup
246   \setcounter{footnote}{0}%
247 }

248 \def\@maketitle{%
249   \newpage
250   \null
251   \begin{flushleft}%
```



```

252 \vspace{-\headsep}
253   {\small%
254     \@smallprintstyle
255     \if\@regarding\relax\else\@regarding{, }\fi%
256     \@date\par%
257   }%
258   \vspace{1.5cm}%
259   {\Huge\@titstyle\@title\par}%
260   \vspace{.125cm}%
261   {\Large\@titstyle\@author}%
262   \vspace{.75cm}%
263 \end{flushleft}%
264 \par%
265 }

```

### abstract

Standard restyled abstract environment from the article class.

```

266 \newenvironment{abstract}{\newlength\skrapport@abstract@tw\newlength\skrapport@abstract@aw\settowidth

```

### titlepage

Titlepage environment.

```

267 \newcommand\ps@skrapport@titlepage{\def\@oddhead{}\def\@evenhead{}\def\@oddfoot{\begin{minipage}{\textwidth}

```

```

268 \newenvironment{titlepage}{\cleardoublepage\setcounter{page}\@one}{\thispagestyle{skrapport@titlepage}

```

## 3.4.2 Sectioning

Sectioning commands.

```

269 \setcounter{secnumdepth}{3}
270 \newcounter{section}
271 \newcounter{subsection}[section]
272 \newcounter{subsubsection}[subsection]
273 \newcounter{paragraph}[subsubsection]
274 \newcounter{subparagraph}[paragraph]

275 \renewcommand\thesection{\@arabic\c@section}
276 \renewcommand\thesubsection{\thesection.\@arabic\c@subsection}
277 \renewcommand\thesubsubsection{\thesubsection.\@arabic\c@subsubsection}

```

```

278 \renewcommand\theparagraph{\thesubsubsection.\@arabic\c@paragraph}
279 \renewcommand\thesubparagraph{\theparagraph.\@arabic\c@subparagraph}

```

`\section`

```

280 \newcommand\section{\@startsection{section}{1}{\z@}%
281   {-4ex \@plus 1ex \@minus -1ex}%
282   {.5ex \@plus .5ex}%
283   {\normalfont\LARGE\@titstyle}}

```

`\subsection`

```

284 \newcommand\subsection{\@startsection{subsection}{2}{\z@}%
285   {-3ex \@plus 1ex \@minus -1ex}%
286   {.25ex \@plus .25ex}%
287   {\normalfont\Large\@titstyle}}

```

`\subsubsection`

```

288 \newcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
289   {-2ex \@plus .5ex \@minus -.5ex}%
290   {.125ex \@plus .125ex}%
291   {\normalfont\large\@titstyle}}

```

`\paragraph`

```

292 \newcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
293   {1ex \@plus .25ex \@minus -.25ex}%
294   {-1em}%
295   {\normalfont\normalsize\bfseries}}

```

`\subparagraph`

```
296 \newcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
297   {1ex \@plus .25ex \@minus -.25ex}%
298   {-1em}%
299   {\normalfont\normalsize\itshape}}
```

### 3.4.3 Commands from article

Itemization commands.

```
300 \setlength\leftmargini{2em}
301 \leftmargin\leftmargini
302 \setlength\leftmarginii{2em}
303 \setlength\leftmarginiii{1.5em}
304 \setlength\leftmarginiv{1.5em}
305 \setlength\leftmarginv{1em}
306 \setlength\leftmarginvi{1em}
307 \setlength\labelsep{.5em}
308 \setlength\labelwidth{\leftmargini}
309 \addtolength\labelwidth{-\labelsep}
310 \@beginparpenalty -\@lowpenalty
311 \@endparpenalty -\@lowpenalty
312 \@itempenalty -\@lowpenalty

313 \renewcommand\theenumi{\@arabic\c@enumi}
314 \renewcommand\theenumii{\@alph\c@enumii}
315 \renewcommand\theenumiii{\@roman\c@enumiii}
316 \renewcommand\theenumiv{\@Alph\c@enumiv}

317 \newcommand\labelenumi{\theenumi.}
318 \newcommand\labelenumii{\theenumii)}
319 \newcommand\labelenumiii{\theenumiii.}
320 \newcommand\labelenumiv{\theenumiv.}

321 \renewcommand\p@enumii{\theenumi}
322 \renewcommand\p@enumiii{\theenumi(\theenumii)}
323 \renewcommand\p@enumiv{\p@enumiii\theenumiii}

324 \newcommand\labelitemi{\textbullet}
325 \newcommand\labelitemii{\textopenbullet}
```

```

326 \newcommand\labelitemiii{\normalfont\bfseries\textendash}
327 \newcommand\labelitemiv{\textrightarrow}

```

### description

```

328 \newenvironment{description}
329   {\list{}{\labelwidth\z@ \itemindent-\leftmargin
330     \let\makelabel\descriptionlabel}}{\endlist}
331 \newcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\bfseries #1}

```

Quotation environments.

### quote

```

332 \newenvironment{quote}{\list{}{\rightmargin\leftmargin}\item\relax\itshape}{\endlist}

```

### quotation

```

333 \newenvironment{quotation}{\bigskip\begin{quote}}{\end{quote}\bigskip}

```

### verse

```

334 \newenvironment{verse}{\begin{quote}}{\end{quote}}

```

### \appendix

Appendix macro.

```

335 \newcommand\appendix{\par\setcounter{section}{0}\setcounter{subsection}{0}\gdef\thesection{\@Alph{c}}

```

Old font commands.

### \rm

```

336 \DeclareOldFontCommand{\rm}{\normalfont\rmfamily}{\mathrm}

```

`\sf`

```
337 \DeclareOldFontCommand{\sf}{\normalfont\sffamily}{\mathsf}
```

`\tt`

```
338 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}
```

`\bf`

```
339 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
```

`\it`

```
340 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit}
```

`\sl`

```
341 \DeclareOldFontCommand{\sl}{\normalfont\slshape}{\@nomath\sl}
```

`\sc`

```
342 \DeclareOldFontCommand{\sc}{\normalfont\scshape}{\@nomath\sc}
```

`\emph`

Redefining the `\emph` style to be bold when nested.

```
343 \let\@emstyle\relax
344 \DeclareRobustCommand\em{%
345   \@nomath\em%
346   \ifdim \fontdimen\@ne\font >\z@%
347     \itshape\bfseries%
348   \else%
349     \itshape%
350   \fi%
351   \@emstyle%
352 }
```

Footnote code.

```
353 \renewcommand\footnoterule{%
354   \kern-3\p@
355   \hrule\@width.4\columnwidth
356   \kern2.6\p@}
357 \newcommand\@makefntext[1]{%
358   \parindent 1em%
359   \noindent
360   \hb@xt@1.8em{\hss\@makefnmark}#1}
```

Basic translatable texts.

`\contentsname`

```
361 \newcommand\contentsname{Innehåll}
```

`\refname`

```
362 \newcommand\refname{Referenser}
```

`\figurename`

```
363 \newcommand\figurename{Figur}
```

`\tablename`

```
364 \newcommand\tablename{Tabell}
```

`\appendixname`

```
365 \newcommand\appendixname{Bilaga}
```

`\abstractname`

```
366 \newcommand\abstractname{Sammanfattning}
```

`\today`

```
367 \def\today{\year--\month--\day}
```

### 3.4.4 Floats

Figure and table floats.

```
368 \setlength\arraycolsep{5\p@}  
369 \setlength\tabcolsep{6\p@}  
370 \setlength\arrayrulewidth{.4\p@}
```

```

371 \setlength\doublerulesep{2\p@}
372 \setlength\tabbingsep{\labelsep}
373 \skip\@mpfootins=\skip\footins
374 \setlength\fboxsep{3\p@}
375 \setlength\fboxrule{.4\p@}

376 \renewcommand\theequation{\@arabic\c@equation}

377 \newcounter{figure}\renewcommand\thefigure{\@arabic\c@figure}
378 \def\fps@figure{tb}
379 \def\ftype@figure{1}
380 \def\ext@figure{lof}
381 \def\fnm@figure{\figurename~\thefigure}

```

**figure**

```

382 \newenvironment{figure}{\@float{figure}}{\end@float}
383 \newenvironment{figure*}{\@dblfloat{figure}}{\end@dblfloat}

384 \newcounter{table}\renewcommand\thetable{\@arabic\c@table}
385 \def\fps@table{tb}
386 \def\ftype@table{2}
387 \def\ext@table{lot}
388 \def\fnm@table{\tablename~\thetable}

```

**table**

```

389 \newenvironment{table}{\@float{table}}{\end@float}
390 \newenvironment{table*}{\@dblfloat{table}}{\end@dblfloat}

```

### Captions.

```

391 \let\@captionstyle\relax
392 \newlength\abovecaptionskip\setlength\abovecaptionskip{10\p@}
393 \newlength\belowcaptionskip\setlength\belowcaptionskip{10\p@}

394 \long\def\@makecaption#1#2{%
395 \vskip\abovecaptionskip
396 \sbox\@tempboxa{\small{\bfseries#1:} \itshape#2}%
397 \ifdim \wd\@tempboxa >\hsize
398 \small{\bfseries\@captionstyle#1:} \itshape#2\par

```



```

399 \else
400 \global \@minipagefalse
401 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
402 \fi
403 \vskip\belowcaptionskip}

```

### 3.4.5 Table of contents

```

404 \newcommand\@pnumwidth{1.55em}
405 \newcommand\@tocrmarg{2em}
406 \newcommand\@dotsep{1.7}
407 \setcounter{tocdepth}{5}

```

<code>\tableofcontents</code>
-------------------------------

```

408 \newcommand\tableofcontents{%
409   \section*\@contentsname
410   \@mkboth{\MakeUppercase\contentsname}{\MakeUppercase\contentsname}
411   }%
412 \vskip\baselineskip%
413 \@starttoc{toc}%
414 }

```

```

415 \newcommand*\l@section{\@dottedtocline{1}{0em}{1.3em}}
416 \newcommand*\l@subsection{\@dottedtocline{2}{1.3em}{2em}}
417 \newcommand*\l@subsubsection{\@dottedtocline{3}{3.3em}{3.15em}}
418 \newcommand*\l@paragraph{\@dottedtocline{4}{6.45em}{4.15em}}
419 \newcommand*\l@subparagraph{\@dottedtocline{5}{10.6em}{5.15em}}

```

Fix for *e.g.* `tocloft` package.

```

420 \let\l@figure\@empty
421 \let\l@table\@empty

```

### 3.4.6 Basic bibliography support

```

422 \newdimen\bibindent
423 \setlength\bibindent{2em}

```

## thebibliography

```

424 \newenvironment{thebibliography}[1]
425 {\section*{\refname}%
426 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
427 \list{\@biblabel{\@arabic\c@enumiv}}}%
428 {\settowidth\labelwidth{\@biblabel{#1}}}%
429 \leftmargin\labelwidth
430 \advance\leftmargin\labelsep
431 \@openbib@code
432 \usecounter{enumiv}%
433 \let\p@enumiv\@empty
434 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
435 \sloppy
436 \clubpenalty4000
437 \@clubpenalty \clubpenalty
438 \widowpenalty4000}%
439 {\def\@noitemerr
440 {\@latex@warning{Empty thebibliography environment}}}%
441 \endlist}

442 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}

443 \let\@openbib@code\@empty

```

## theindex

```

444 \newenvironment{theindex}
445 {\twocolumn[\section*{\indexname}]%
446 \@mkboth{\MakeUppercase\indexname}%
447 {\MakeUppercase\indexname}%
448 \thispagestyle{plain}\parindent\z@
449 \parskip\z@ \@plus .3\p@\relax
450 \columnseprule \z@
451 \columnsep 35\p@
452 \let\item\@idxitem}
453 {\onecolumn}

454 \newcommand\@idxitem{\par\hangindent 40\p@}

```

`\subitem`

```
455 \newcommand\subitem{\@idxitem \hspace*{20\p@}}
```

`\subsubitem`

```
456 \newcommand\subsubitem{\@idxitem \hspace*{30\p@}}
```

```
457 \newcommand\indexspace{\par \vskip 10\p@ \@plus5\p@ \@minus3\p@\relax}
```

### 3.4.7 Two-column mode

The twocolumn hacks implemented.

```
458 \ifskrapport@twocolumn  
459 \AtBeginDocument{
```

We include the grid package in two-column mode, because it looks way better that way.

```
460 \IfStrEq{\skrapport@ptsize}{10pt}{  
461 \RequirePackage[fontsize=10pt,baseline=12pt]{grid}  
462 }{  
463 \IfStrEq{\skrapport@ptsize}{11pt}{  
464 \RequirePackage[fontsize=11pt,baseline=13.2pt]{grid}  
465 }{  
466 \RequirePackage[fontsize=12pt,baseline=14.4pt]{grid}  
467 }  
468 }
```

Now, we patch commands. First up is abstract.

```
469 \renewenvironment{abstract}{\section*{\abstractname}}{}
```

Then document and `\maketitle`.

```
470 \AfterEndPreamble{\begin{multicols}{2}}  
471 \AtEndDocument{\end{multicols}}
```

```

472 \pretocmd{\maketitle}{\end{multicols}}{}{}
473 \apptocmd{\maketitle}{\begin{multicols}{2}}{}{}

```

Always typeset equation and friends outside the grid:

```

474 \BeforeBeginEnvironment{equation}{\begin{gridenv}}
475 \AfterEndEnvironment{equation}{\end{gridenv}}
476 \BeforeBeginEnvironment{equation*}{\begin{gridenv}}
477 \AfterEndEnvironment{equation*}{\end{gridenv}}
478 \BeforeBeginEnvironment{multline}{\begin{gridenv}}
479 \AfterEndEnvironment{multline}{\end{gridenv}}
480 \BeforeBeginEnvironment{multline*}{\begin{gridenv}}
481 \AfterEndEnvironment{multline*}{\end{gridenv}}
482 \BeforeBeginEnvironment{gather}{\begin{gridenv}}
483 \AfterEndEnvironment{gather}{\end{gridenv}}
484 \BeforeBeginEnvironment{gather*}{\begin{gridenv}}
485 \AfterEndEnvironment{gather*}{\end{gridenv}}
486 \BeforeBeginEnvironment{align}{\begin{gridenv}}
487 \AfterEndEnvironment{align}{\end{gridenv}}
488 \BeforeBeginEnvironment{align*}{\begin{gridenv}}
489 \AfterEndEnvironment{align*}{\end{gridenv}}
490 \BeforeBeginEnvironment{flalign}{\begin{gridenv}}
491 \AfterEndEnvironment{flalign}{\end{gridenv}}
492 \BeforeBeginEnvironment{flalign*}{\begin{gridenv}}
493 \AfterEndEnvironment{flalign*}{\end{gridenv}}
494 \BeforeBeginEnvironment{alignat}{\begin{gridenv}}
495 \AfterEndEnvironment{alignat}{\end{gridenv}}
496 \BeforeBeginEnvironment{alignat*}{\begin{gridenv}}
497 \AfterEndEnvironment{alignat*}{\end{gridenv}}

```

The figure environment is patched...

```

498 \renewenvironment{figure}{%
499 \begin{gridenv}%
500 \vspace{\intextsep}%
501 \begin{minipage}{\linewidth}%
502 \def\capttype{figure}%
503 }{%
504 \end{minipage}%
505 \vspace{\intextsep}%
506 \end{gridenv}%
507 }

```

...as is table.

```

508 \renewenvironment{table}{%
509 \begin{gridenv}%
510 \vspace{\intextsep}%
511 \begin{minipage}{\linewidth}%

```

```

512 \def\@capttype{table}%
513 \let\@old@caption\caption%
514 \renewcommand{\caption}[1]{%
515 \setlength{\@tempdima}{\abovecaptionskip}%
516 \setlength{\abovecaptionskip}{\belowcaptionskip}%
517 \setlength{\belowcaptionskip}{\@tempdima}%
518 \@old@caption{##1}%
519 \vspace{\belowcaptionskip}%
520 }%
521 }%
522 \end{minipage}%
523 \vspace{\intextsep}%
524 \end{gridenv}%
525 }
526 \let\oldoldtablest\oldtablest
527 \renewcommand{\oldtablest}{%
528 \oldoldtablest%
529 \let\@old@caption\caption%
530 \renewcommand{\caption}[1]{%
531 \setlength{\@tempdima}{\abovecaptionskip}%
532 \setlength{\abovecaptionskip}{\belowcaptionskip}%
533 \setlength{\belowcaptionskip}{\@tempdima}%
534 \@old@caption{##1}%
535 \vspace{\belowcaptionskip}%
536 }%
537 }

```

onecol

Finally, we define an environment `onecol` that typesets arbitrary material in a single column.

```

538 \newenvironment{onecol}{\end{multicols}}{\begin{multicols}{3}}
539 }

540 \fi

```

### 3.4.8 Color theme support

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.

```

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

```

### `\colortheme`

The `\colortheme` macro allows the end-user to load color themes (described later) to customize the colors of the document when the class is loaded with the `color` option.

```

580 \newcommand\colortheme[1]{\usepackage{skrapport-colortheme-#1}}

```

```

581 \colortheme{default}
582 \fi

```

### 3.5 Final class setup

We end the document class by setting a few lengths along with the page style and page numbering. Also, activate `\raggedbottom` and `\onexcolumn` (since we always do all the two-column stuff ourselves anyway).

```

583 \setlength\columnsep{10\p@}
584 \setlength\columnseprule{0\p@}
585 \pagestyle{plain}
586 \pagenumbering{arabic}
587 \raggedbottom
588 \onexcolumn
589 \endinput

```

### 3.6 Color themes

As described earlier, the user can load color themes to customize the appearance of the document if the class was loaded with the `color` option. Four themes are available by default.

#### 3.6.1 Default color theme

Default

```

1 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
2 \ProvidesPackage{skrapport-colortheme-default}%
3   [2012/06/07 v1.0 skrapport color theme default]
4 \definecolor{skrapport@citecolor}{named}{green}
5 \definecolor{skrapport@filecolor}{named}{teal}
6 \definecolor{skrapport@linkcolor}{named}{red}
7 \definecolor{skrapport@menucolor}{named}{red}
8 \definecolor{skrapport@urlcolor}{named}{cyan}
9 \definecolor{skrapport@runcolor}{named}{teal}
10 \definecolor{skrapport@boldcolor}{named}{black}
11 \definecolor{skrapport@titlecolor}{named}{black}
12 \definecolor{skrapport@italiccolor}{named}{black}
13 \definecolor{skrapport@smallprintcolor}{named}{black}
14 \definecolor{skrapport@quotecolor}{named}{black}
15 \definecolor{skrapport@captioncolor}{named}{black}
16 \definecolor{skrapport@emphcolor}{named}{black}

```

```

17 \definecolor{skrapport@defaultcolor}{named}{black}
18 \endinput

```

### 3.6.2 Unscathed color theme

#### Unscathed

```

1 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
2 \ProvidesPackage{skrapport-colortheme-unscathed}%
3   [2012/06/07 v1.0 skrapport color theme unscathed]
4 \definecolor{skrapport@citecolor}{named}{skrapport@defaultcolor}
5 \definecolor{skrapport@filecolor}{named}{skrapport@defaultcolor}
6 \definecolor{skrapport@menucolor}{named}{skrapport@defaultcolor}
7 \definecolor{skrapport@runcolor}{named}{skrapport@defaultcolor}
8 \definecolor{skrapport@emphcolor}{HTML}{463335}
9 \definecolor{skrapport@linkcolor}{HTML}{CF5D3B}
10 \definecolor{skrapport@urlcolor}{named}{skrapport@linkcolor}
11 \definecolor{skrapport@titlecolor}{HTML}{B34430}
12 \definecolor{skrapport@captioncolor}{named}{skrapport@titlecolor}
13 \definecolor{skrapport@quotecolor}{HTML}{70524A}
14 \definecolor{skrapport@smallprintcolor}{named}{skrapport@quotecolor}
15 \endinput

```

### 3.6.3 Cruelwater color theme

#### Cruelwater

```

1 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
2 \ProvidesPackage{skrapport-colortheme-cruelwater}%
3   [2012/06/07 v1.0 skrapport color theme cruelwater]
4 \definecolor{skrapport@citecolor}{named}{black}
5 \definecolor{skrapport@filecolor}{named}{black}
6 \definecolor{skrapport@linkcolor}{named}{black}
7 \definecolor{skrapport@menucolor}{named}{black}
8 \definecolor{skrapport@urlcolor}{named}{black}
9 \definecolor{skrapport@runcolor}{named}{black}
10 \definecolor{skrapport@boldcolor}{HTML}{030C22}
11 \definecolor{skrapport@titlecolor}{HTML}{20293F}
12 \definecolor{skrapport@italiccolor}{named}{black}
13 \definecolor{skrapport@smallprintcolor}{HTML}{A9B0B3}
14 \definecolor{skrapport@quotecolor}{HTML}{404749}
15 \definecolor{skrapport@captioncolor}{HTML}{030C22}
16 \definecolor{skrapport@emphcolor}{HTML}{20293F}
17 \definecolor{skrapport@defaultcolor}{named}{black}
18 \endinput

```



### 3.6.4 Violet color theme

#### Violet

```
1 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
2 \ProvidesPackage{skrappport-colortheme-violet}%
3   [2012/06/07 v1.0 skrappport color theme violet]
4 \definecolor{skrappport@citecolor}{HTML}{932444}
5 \definecolor{skrappport@filecolor}{HTML}{932444}
6 \definecolor{skrappport@linkcolor}{HTML}{932444}
7 \definecolor{skrappport@menucolor}{HTML}{932444}
8 \definecolor{skrappport@urlcolor}{HTML}{932444}
9 \definecolor{skrappport@runcolor}{HTML}{932444}
10 \definecolor{skrappport@boldcolor}{HTML}{311A2A}
11 \definecolor{skrappport@titlecolor}{HTML}{311A2A}
12 \definecolor{skrappport@italiccolor}{named}{black}
13 \definecolor{skrappport@smallprintcolor}{HTML}{D6CBCF}
14 \definecolor{skrappport@quotecolor}{HTML}{463335}
15 \definecolor{skrappport@captioncolor}{HTML}{311A2A}
16 \definecolor{skrappport@emphcolor}{HTML}{98758D}
17 \definecolor{skrappport@defaultcolor}{named}{black}
18 \endinput
```

## 4 Changes

#### v0.01

General: Initial version.

#### v0.02

indent: Added option of indented paragraphs.

#### v0.03

General: Removed `\rd` and `\id`.

#### v0.04

General: Added microtype package.

#### v0.05

General: Improved documentation.

#### v0.06

General: Corrected checksum, further improved documentation.

#### v0.07

General: Various bugfixes,  $\LaTeX$  compatibility, better float settings, quote style fix, `intlimits` option to `amsmath`.

`\license:` Added command `\license`.

`kpfonts`: Added option `kpfonts`, set as default option for fonts.

#### vo.07a

General: Fixed kpfonts issues.

#### vo.08

twocolumn: Added option  
twocolumn.

#### vo.09

General: Introduced kvoptions,  
fixed abstract in twocolumn  
mode.

color: Added color option.

sftitles: Added sftitles op-  
tion.

Cruelwater: Added “Cruelwater”  
color theme.

Default: Added default color  
theme.

Unscathed: Added “Unscathed”  
color theme.

Violet: Added “Violet” color  
theme.

#### vo.10

General: Fixed documentation, in-  
clude skmath if exists and  
wanted..

## 5 Index

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is described; numbers in *roman* refer to the code line of the definition.

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*The skrapport package, v0.10*

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## References

Caignaert, Christophe (2010). “KP-Fonts 3.31”. In: URL: <http://www.tex.ac.uk/tex-archive/fonts/kpfonts/doc/kpfonts.pdf>.