

# 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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## 1 Documentation

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

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

## 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<sub>ε</sub> 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**    `a4paper`, `a5paper` (`a4paper`)

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**    `10pt`, `11pt`, `12pt` (`11pt`)

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

**final**    Purely for compatibility `skrapport` also defines the `fleqn` and `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.

**fleqn**  
**leqno**

### 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**    `rm`, `bf`, `sf` (`rm`)

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**    `nofont`, `lmodern`, `palatino`, `kpfonts` (kpfonts)

In addition, the specific font can also be changed — the available choices are `lmodern` (Latin Modern), `kpfonts` (Kp-Fonts) and `palatino` (either T<sub>E</sub>X-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 X<sub>Y</sub>L<sup>A</sup>T<sub>E</sub>X, 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**    It is also possible to load `xcolor` inside the package. If this is done, a

**nocolor**    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 Macros and environments

In general, the class defines the same macros as the `article` class, and adds a few. Only the novel ones are described here, as the inherited ones should behave identically.

### 1.2.1 Front-matter and metadata

`\license`  $\{\langle license \rangle\}$

The `\license` macro specifies the name of a license under which the document is available. This will be typeset on the lower right corner of the title page.

`\regarding`  $\{\langle text \rangle\}$

The class adds 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.

`\author`  $[\langle email \rangle] \{\langle author \rangle\}$

The `\author` macro is redefined in two ways. To begin with, the macro now accepts an optional argument specifying the email address of the author. If the macro is used multiple times, authors are appended to the list of author names displayed by `\maketitle`.

`\maketitle`

The title page (or rather, block) has been refashioned to mimic the `PracTeX` Journal style. This means a fairly compact block, starting with a line of text containing the date and subject matter, followed by a large skip and then the title, author and optionally an abstract set ragged-right and fairly close together.

### 1.2.2 Useful macros

The class defines a few additional macros that aren't available in article but don't fit in any specific 'set' of features. These include commands to typeset comments.

```

\comment *{\comment}
\com *{\comment}
\note *{\comment}

```

The `\comment` macro (also available in an unstarred variant) typesets a comment. The starred variant typesets the comment in red prefixed by the word ‘Comment’, while the unstarred variant typesets the comment as a margin note (but still prefixed). The `\com` and `\note` macros are aliases of `\comment`.

### 1.2.3 Two-column mode

```

\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.

### 1.2.4 Color themes

```

\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** The default theme is fairly conservative, only coloring hyperef links with more readable, slightly darker colors than the standard ones. It should print well even on non-color printers.
- unscathed** The unscathed theme is based on a palette with the same name on COLOURlovers<sup>1</sup>, and applies a dark brown color to emphasized text, a rusty color to links, a darker rust color to titles and a lighter brown to quotes.
- cruelwater** The cruelwater theme is also based on a palette from COLOURlovers<sup>2</sup>, and applies a dark blue color to bold text and captions, a slightly less

<sup>1</sup><http://www.colourlovers.com/palette/1440498/unscathed>

<sup>2</sup>[http://www.colourlovers.com/palette/126030/Cruel\\_Water\\_at\\_Night](http://www.colourlovers.com/palette/126030/Cruel_Water_at_Night)

dark blue to titles and emphasized text, a light gray color to small print and a darker gray to quotes.

**violet** The violet theme, like *unscathed and cruelwater*, is based on a *COL-OURlovers palette*<sup>3</sup>. It colors all links **bright purple**, applies a dark purple color to titles, bold text and captions, a **grayish purple** to small print, a dark brown color to quotes and a **pastel violet** color to emphasized text.

### 1.3 Additional information

The document class includes a number of packages by default. This is useful to know, since passing explicit options to these packages will require you to utilize the `\PassOptionsToPackage` macro before you load the class using `\documentclass`. Table 1 lists the packages included by *skrapport* along with their options (if applicable).

### 1.4 Known issues

A list of current issues is available in the Github repository of this package<sup>4</sup>, but as of the release of v0.10b, there are only two known issues:

- #6 When using the `color` option, sometimes captions are uncolored. It seems that color only appears when the caption is long enough to break a line. It is unknown whether this is due to some error in *skrapport* or something caused by caption (or another dependency).
- #7 As of a recent update to *xparse*, the `twocolumn` option is broken. When loading *skrapport* with that option, *xparse* emits a warning stating that ‘Argument specification for expandable command ends with optional argument’. Presumably this is because environments are now defined using expandable macros, whereas they weren’t before.

If you discover any bugs in this package, please report them to the issue tracker in the *skrapport* Github repository.

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<sup>3</sup>[http://www.colourlovers.com/palette/1831303/Violet\\_White\\_Bedrm](http://www.colourlovers.com/palette/1831303/Violet_White_Bedrm)

<sup>4</sup><https://github.com/urdh/skrapport/issues>

**Table 1:** *User-level packages included by skrapport.*

Package	Options	Comments
amsmath	intlimits	Provides $\mathcal{AMS}$ commands and environments.
amssymb		Only if not using kpfonts.
babel	see options swe and eng	Only loaded if <i>not</i> using X <sub>Y</sub> TeX.
calc		
fontenc	T1	Only loaded if <i>not</i> using X <sub>Y</sub> TeX. Makes sure we are using a good font encoding for crisp appearance on-screen (OT1 is horrible).
fontspec	quiet	Only loaded if using X <sub>Y</sub> TeX. Provides basic OTF font selection commands.
geometry	a4paper or a5paper	This is used by the paper option to set the paper area.
icomma		
microtype		Provides micro-typographic improvements.
multicol		Only loaded with the twocolumn option.
polyglossia	see options swe and eng	Only loaded if using X <sub>Y</sub> TeX.
skmath		Only if it exists and nomath isn't set.
textcomp		Only if not using kpfonts.
xcolor		Only loaded with the color option.

## 2 Changes

v0.01	settings, quote style fix, intlimits option to amsmath.
General: Initial version.	
v0.03	v0.07a
General: Removed <code>\rd</code> and <code>\id</code> .	General: Fixed kpfonts issues.
v0.04	v0.09
General: Added microtype package.	General: Introduced <code>kvoptions</code> , fixed abstract in twocolumn mode.
v0.05	v0.10
General: Improved documentation.	General: Include <code>skmath</code> if exists and wanted. Gobble optional arguments to <code>figure</code> and <code>table</code> in two-column mode..
v0.06	
General: Corrected checksum, further improved documentation.	
v0.07	v0.10a
General: Various bugfixes, Xe <sub>La</sub> TeX compatibility, better float	General: Include <code>xparse</code> (fixes breakage)..

## 3 Index

Numbers written in boldface refer to the page where the corresponding entry is described; numbers underlined refer to the page where the implementation of the corresponding entry is discussed. Numbers in roman refer to other mentions of the entry.



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