

The kaureport class*

Stefan Berthold
stefan.berthold@kau.se

December 14, 2012

1 Introduction

The kaureport class is part of the kauthesis package. The class provides macros for writing a technical report at Karlstad University. The latest version can be obtained from

<http://github.com/ZjMNZHgG5jMXw/kauthesis> .

2 Implementation

2.1 Class options and dependencies

Class options are neither parsed nor passed to the underlying article class.

```
1 \ProcessOptions\relax
```

kaureport derives all macros from the standard article class.

```
2 \LoadClass{article}
```

kauclear provides page style switches in `\cleardoublepage`, kaustudies sets the page dimension to the format required by Karlstad University Studies, kaumeta defines the macros relevant for creating title information, e.g., `\institute`, kauparts defines an alternative, `\kaupart`, to the traditional `\part`, and kauenvironments defines environments such as `researchquestions` and `contributions`.

```
3 \RequirePackage{kauclear}
```

```
4 \RequirePackage{kaustudies}
```

```
5 \RequirePackage{kaumeta}
```

```
6 \RequirePackage{kauparts}
```

```
7 \RequirePackage{kauenvironments}
```

2.2 Title page

Karlstad University Studies will create the title page for the report, thus, creating an own title page is not necessary. The macro `\maketitle` creates a title page which by no means makes an attempt to simulate the official design. It can be used to create a working title during the process of writing up the thesis.

*This document corresponds to kaureport v1.2, dated 2012/12/14.

`\kaurep@maketitle` The definition of `\maketitle` in the `article` class creates a title without creating a separate page. `jobname` redefines the macro and preserves the original definition in `\kaurep@maketitle`.

```
8 \AtBeginDocument{\let\kaurep@maketitle\maketitle}
```

`\maketitle` The redefined `\maketitle` creates a trailing blank page.

```
9 \renewcommand\maketitle{%
10   \kaurep@maketitle%
11   \cleardoublepage%
12 }
```

2.3 Front matter

The front matter starts after the title on page iii. It contains the abstract of the thesis followed by an optional acknowledgements section and the table of contents.

`\keywordname` The abstract is followed by the list of keywords. By default, the list is introduced by the word “Keywords” (and “Nyckelord” if the default language is set to Swedish). The list introduction can be changed to any other language by redefining the macro `\keywordname`.

```
13 \newcommand*\keywordname{\iflanguage{swedish}{Nyckelord}{Keywords}}
```

`\kaurep@abstract` The `abstract` environment of the `article` class provides a perfect layout for article abstracts. It will be used for the abstracts of appended papers and preserved in the macro `\kaucol@abstract`.

```
14 \let\kaurep@abstract\abstract%
15 \let\kaurep@endabstract\endabstract%
```

`\frontmatter` The front matter is started with `\frontmatter`. It is assumed that this macro directly runs after the optional `\maketitle`.

```
16 \newcommand*\frontmatter{%
17   \clearpage%
18   \setcounter{page}{3}%
19   \renewcommand\thepage{\roman{page}}%
```

The front matter starts on page iii, i.e., two pages are reserved for the title.

```
20   \renewenvironment{abstract}{%
21     \newcommand\keywords{\paragraph{\keywordname:}}%
22     \cleardoublepage%
23     \section*{\@title}%
24     \textsc{\@author}\par%
25     \noindent\textit{\@institute}%
26     \section*{\abstractname}%
27   }{%
```

`abstract` The `abstract` environment in the front matter creates a title and an unnumbered abstract section.

`\keywords` The last line of the abstract is supposed to be a list of keywords preceded by `\keywords`.

The thesis continues after the abstract on an odd page.

```
28 \cleardoublepage%
29 }%
30 }
```

`\kaurep@tableofcontents` The `\tableofcontents` definition from the `article` class is preserved. It is not reused in this class.

```
31 \let\kaurep@tableofcontents\tableofcontents
```

`\tableofcontents` The redefined macro makes the table of contents start on an odd page.

```
32 \renewcommand\tableofcontents{%
33 \cleardoublepage%
34 \kaurep@tableofcontents%
35 }
```

2.4 Main matter

The main matter is started with `\mainmatter`.

`\mainmatter` The macro jumps on the next odd page and resets the page counter to page 1.

```
36 \newcommand\mainmatter[1][]{%
37 \cleardoublepage%
The page counter is set to page 1.
38 \pagenumbering{arabic}%
39 \setcounter{page}{1}%
40 }
```

`\part` The `\part{<headline>}` is replaced by `\kaupart`.

```
41 \let\part\kaupart
```

Change History

v1.0		v1.2
General: SBe's licentiate version . . . 1		General: Documentation added . . . 1
v1.1		
General: Initial public release 1		

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols		A		C
<code>\@author</code> 24		<code>\abstract</code> 14		
		<code>abstract</code> (environ-		<code>\cleardoublepage</code> . .
<code>\@institute</code> 25		<code>ment)</code> <u>20</u>		. 11, 22, 28, 33, 37
		<code>\abstractname</code> 26		
<code>\@title</code> 23		<code>\AtBeginDocument</code> . . . 8		<code>\clearpage</code> 17

E	<code>\keywordname</code> <u>13</u> , 21	<code>\ProcessOptions</code> 1
<code>\endabstract</code> 15	<code>\keywords</code> <u>21</u>	
environments:		R
<code>abstract</code> <u>20</u>	L	<code>\relax</code> 1
	<code>\let</code> 8, 14, 15, 31, 41	<code>\renewcommand</code> . 9, 19, 32
F	<code>\LoadClass</code> 2	<code>\renewenvironment</code> . 20
<code>\frontmatter</code> <u>16</u>	M	<code>\RequirePackage</code> . . . 3–7
	<code>\mainmatter</code> <u>36</u>	<code>\roman</code> 19
I	<code>\maketitle</code> 8, <u>9</u>	S
<code>\iflanguage</code> 13	N	<code>\section</code> 23, 26
	<code>\noindent</code> 25	<code>\setcounter</code> 18, 39
K		T
<code>\kaupart</code> 41	P	<code>\tableofcontents</code> 31, <u>32</u>
<code>\kaurep@abstract</code> . . <u>14</u>	<code>\pagenumbering</code> 38	<code>\textit</code> 25
<code>\kaurep@endabstract</code> 15	<code>\par</code> 24	<code>\textsc</code> 24
<code>\kaurep@maketitle</code> 8, 10	<code>\paragraph</code> 21	<code>\thepage</code> 19
<code>\kaurep@tableofcontents</code>	<code>\part</code> <u>41</u>	
. <u>31</u> , 34		