The kauthesis package*

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1 Introduction

The kauthesis package provides LATEX classes for master's theses (kaumasters class), collection theses (kaucollection class), and monographs (kaureport class). The latest version can be obtained from

http://github.com/ZjMNZHgG5jMXw/kauthesis

The user's manual is found in kauguide.pdf. This file provides the source code documentation to all three classes.

2 Usage

2.1 Master's thesis

This template can be found in kaumasterstemplate.tex. The kaumasters class is quite similar to LATEX's article class. After loading the class, title, author, and institute have to be declared. Different authors in author lists can be separated by commata (","). The formatting will be done by LATEX.

- 1 (*masterstemplate)
- 2 \documentclass{kaumasters}
- 3 \title{Title}
- 4 \author{Author}
- 5 \supervisor{Super}
- $6 \text{\ensuremath{$\setminus$}} Exam$
- 7 \institute{Department of Mathematics and Computer Science}
- 8 \place{Place}

The thesis starts with the front matter \frontmatter. It will (re)print the title. The macro \maketitle does not exist, since the title will be created by Karlstad University Studies.

- 9 \begin{document}
- 10 \frontmatter

The two mandatory inhabitants of the front matter are the abstract (abstract environment) and the \tableofcontents. If you like to write acknowledgements, put it between the abstract and the table of contents.

^{*}This document corresponds to kauthesis v1.8, dated 2012/04/18.

```
11 \begin{abstract}
12 Abstract.
13 \end{abstract}
14 \approvalpage%
15 \begin{acknowledgements}
16 Thanks.
17 \end{acknowledgements}
18 \tableofcontents
```

The main matter starts with \mainmatter for adjusting the page numbering. The content in the main matter is your work. Any macro or environment known from LATEX's article class can be used here.

```
19 \mainmatter 20 \section{Introduction} 21 \end{document} 22 \langle \text{/masterstemplate} \rangle
```

2.2 Report

This template can be found in kaureporttemplate.tex. Like the master's thesis class, the report class is derived from the LATEX article class.

```
23 \(\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\right
```

After loading the class, title, author, and institute have to be declared. Different authors in author lists can be separated by commata (","). The formatting will be done by LATEX.

```
25 \title{Title}
26 \author{Author}
27 \institute{Department of Mathematics and Computer Science}
28 \place{Place}
29 \begin{document}
```

The two mandatory inhabitants of the front matter are the abstract (abstract environment) and the \tableofcontents. If you like to write acknowledgements, put it between the abstract and the table of contents.

```
30 \frontmatter
31 \begin{abstract}
32    Brief abstract.
33    \keywords keywords
34 \end{abstract}
35 \begin{acknowledgements}
36    Thanks.
37 \end{acknowledgements}
38 \tableofcontents
```

The main matter starts with \mainmatter for adjusting the page numbering. The content in the main matter is your work. Any macro or environment known from LaTeX's article class can be used here.

```
39 \mainmatter
40 \part{Introduction}
41 \section{Related work}
42 \part{Conclusions and Future Work}
43 \end{document}
44 \( / \text{reporttemplate} \)
```

2.3 Collection thesis

This template can be found in kaucollectiontemplate.tex. Like the master's thesis class, the report class is derived from the LATEX article class.

```
\begin{array}{l} 45 \ \langle *collection template \rangle \\ 46 \ \langle tocumentclass\{kaucollection\} \end{array}
```

Page headings and can be created using the scrheadings packages.

```
47 \usepackage{scrpage2}
48 \pagestyle{scrheadings}
49 \underset \
```

After loading the class, title, author, and institute have to be declared. Different authors in author lists can be separated by commata (","). The formatting will be done by LATEX.

```
52 \title{Title}
53 \author{Author}
54 \institute{Department of Mathematics and Computer Science}
55 \place{Place}
56 \begin{document}
```

The two mandatory inhabitants of the front matter are the abstract (abstract environment) and the \tableofcontents. If you like to write acknowledgements, put it between the abstract and the table of contents.

```
57 \frontmatter
58 \begin{abstract}
59 Brief abstract.
60 \keywords keywords
61 \end{abstract}
62 \begin{acknowledgements}
63 Thanks.
64 \end{acknowledgements}
65 \tableofcontents
```

The table of contents is followed by the list of papers.

 $66 \setminus listofpapers$

The main matter starts with \mainmatter for adjusting the page numbering.

```
67 \mainmatter
```

68 \section{Introduction}

Create a list of summaries of all appended papers with \listofsummaries.

```
69 \section{Summary of Appended Papers}
```

70 \listofsummaries

71 \section{Conclusions and Future Work}

Append papers, each in an own kaupaper environment.

```
72 \begin{kaupaper}[ author=Author
73 , title=Paper Title
74 , reference=reference text.
75 , email=author@kau.se
76 , summary=Abstract in the intro.
77 , participation=I am the main author.
78 , label=paper:shorttitle
79 ]
```

Appended papers may have their own titles and abstracts.

```
80 \maketitle
81 \begin{abstract}
82 Paper abstract.
83 \end{abstract}
84 Paper content.
85 \end{kaupaper}
86 \end{document}
87 \langle /collectiontemplate \rangle
```

3 Implementation

3.1 Class options and dependencies

Class options are neither parsed nor passed to the underlying article class. All macros are derived from the standard article class.

```
88 \( *collection | report | masters \)
89 \( \text{ProcessOptions} \) relax
90 \( \text{LoadClass{article}} \)
```

kauclear provides page style switches in \cleardoublepage, kaumeta defines the macros relevant for creating title information, e.g., \institute.

```
91 \RequirePackage{kauclear}
92 \RequirePackage{kaumeta}
```

93 (*collection | report)

kaustudies sets the page dimension to the format required by Karlstad University Studies, kauenvironments defines environments such as researchquestions and contributions, tikz allows to place content material with absolute coordinates (required by \vanityquote).

```
94 \RequirePackage{kaustudies}
95 \RequirePackage{kauenvironments}
96 \RequirePackage{kaulist}
97 \RequirePackage{tikz}
98 (/collection | report)
kaupaper defines the macros for appending papers to the collection thesis.
99 (*collection)
100 \RequirePackage{kaupaper}
101 (/collection)
kauparts defines \kaupart, a replacement for \part.
103 \RequirePackage{kauparts}
104 (/report)
Garamond becomes the default font on A4 page layout.
106 \RequirePackage[urw-garamond] {mathdesign}
107 \RequirePackage[paper=a4,pagesize,twoside=semi]{typearea}
108 (/masters)
```

3.2 Language support

\acknowledgementname

By default, the acknowledgements environment will create an unnumbered section with the title "Acknowledgements" (or "Tacksägelser", if Swedish is chosen as default language). The section headline can be changed to any other language by redefining the macro \acknowledgementname.

```
109 \AtBeginDocument{%
110 \@ifpackageloaded{babel}%
111 {\newcommand*\acknowledgementname{%
112 \iflanguage{swedish}{Tacks\"agelser}{Acknowledgements}}%
113 }%
114 {\newcommand*\acknowledgementname{Acknowledgements}}%
115}
```

\keywordname

The abstract of collection theses and reports 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.

```
116 (*collection | report)
117 \AtBeginDocument{%
118 \Oifpackageloaded{babel}%
119 {\newcommand*\keywordname{%
120 \iflanguage{swedish}{Nyckelord}{Keywords}}%
121 }%
122 {\newcommand*\keywordname{Keywords}}%
123 }
124 (/collection | report)
```

 $\$ intronam

In collection thesis, the main matter starts automatically with an Introductory Summary. The name of the Introductory Summary ("Inledande sammanfattning" in Swedish) can be changed to any other language by redefining the macro \introname.

```
125 (*collection)
126 \AtBeginDocument{%
     \@ifpackageloaded{babel}%
127
        {\newcommand*\introname{%
128
          \iflanguage{swedish}%
129
            {Inledande sammanfattning}%
130
131
            {Introductory Summary}}%
132
       }%
        {\newcommand*\introname{Introductory Summary}}%
133
135 (/collection)
```

A master's thesis needs to be approved by the supervisor and the examiner.

```
136 \langle *masters \rangle
```

\approvalname

This macro contains the word "approved".

```
137 \AtBeginDocument{%
138 \@ifpackageloaded{babel}%
139 {\newcommand*\approvalname{%
140 \iflanguage{swedish}%
```

```
{Godk\"and}%
                  141
                              {Approved}}%
                  142
                         3%
                  143
                  144
                         {\newcommand*\approvalname{Approved}}%
                  145 }
                  This macro contains the name of the examination.
\examinationname
                  146 \AtBeginDocument{%
                       \@ifpackageloaded{babel}%
                  147
                         {\newcommand*\examinationname{%
                  148
                  149
                           \iflanguage{swedish}%
                  150
                              {magisterexamen}%
                              {Master's degree}}%
                  151
                  152
                         7%
                  153
                         {\newcommand*\examinationname{Master's degree}}%
                  154 }
   \approvaltext The approval text.
                  155 \AtBeginDocument{%
                       \@ifpackageloaded{babel}%
                  156
                         {\newcommand*\approvaltext{%
                  157
                           \iflanguage{swedish}%
                  158
                  159
                              {Denna uppsats \"ar skriven som en del av det arbete som kr\"avs %
                               f\"or att erh\aa lla en \examinationname{} i datavetenskap. Allt %
                  160
                               material i denna rapport, vilket inte \"ar mitt eget, har blivit %
                  161
                               tydligt identifierat och inget material \"ar inkluderat som %
                  162
                               tidigare anv\"ants f\"or erh\aa llande av annan examen.}%
                  163
                              {This thesis is submitted in partial fulfillment of the \%
                  164
                               requirements for the \examinationname{} in Computer Science. %
                  165
                               All material in this thesis which is not my own work has been \%
                  166
                               identified and no material is included for which a degree has \%
                  167
                               previously been conferred.}}%
                  168
                  169
                  170
                         {\newcommand*\approvaltext{This thesis is submitted in partial %
                           fulfillment of the requirements for the \examinationname{} in %
                  171
                           Computer Science. All material in this thesis which is not my own %
                  172
                  173
                           work has been identified and no material is included for which a \%
                  174
                           degree has previously been conferred.}}%
                  175 }
 \supervisorname
                  This macro contains the word "supervisor".
                  176 \AtBeginDocument{%
                       \@ifpackageloaded{babel}%
                  177
                         {\newcommand*\supervisorname{%
                  178
                           \iflanguage{swedish}%
                  179
                             {Handledare}%
                  180
                              {Supervisor}}%
                  181
                  182
                         {\newcommand*\supervisorname{Supervisor}}%
                  183
                  184 }
                 This macro contains the word "examiner".
   \examinername
                  185 \AtBeginDocument{%
                       \@ifpackageloaded{babel}%
```

```
187 {\newcommand*\examinername{%
188 \iflanguage{swedish}%
189 {Examinator}%
190 {Examiner}}%
191 }%
192 {\newcommand*\examinername{Examiner}}%
193 }
```

3.3 Title page

Karlstad University Studies will create the title page for the thesis, thus, creating an own title page is not necessary.

\kauths@maketitle

The definition of \maketitle in the article class creates a title without creating a separate page. The original definition is preserved in \kauths@maketitle.

195 \let\kauths@maketitle\maketitle

\maketitle \maketitle does not serve any purpose. When invoked, it produces a warning, referring the user to the abstract environment.

```
196 \renewcommand\maketitle{%
197 \PackageWarning{maketitle does not serve any purpose in this class.
198 The abstract environment reproduces the title instead.}%
199 }
```

3.4 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. In collection theses and reports, the keywords are defined in the front matter.

\kauths@abstract

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

```
200 \let\kauths@abstract\abstract%
201 \let\kauths@endabstract\endabstract%
```

\frontmatter

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

```
202 \newcommand*\frontmatter{%
203 \clearpage%
The front matter starts on page iii, i.e., two pages are reserved for the title.
204 \setcounter{page}{3}%
205 \renewcommand\thepage{\roman{page}}%
```

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

206 \renewenvironment{abstract}{%

```
keywords preceded by \keywords.
                       207 (*collection | report)
                              \newcommand\keywords{\paragraph{\keywordname:}}%
                       208
                       209 (/collection | report)
                       The abstract starts by repeating the title, author, and the institue.
                              \cleardoublepage%
                       210
                              \section*{\@title}%
                       211
                              \textsc{\prettylist{\@author}}\par%
                       212
                              \noindent\textit{\@institute}%
                       213
                       214
                              \section*{\abstractname}%
                       215
                       The thesis continues after the abstract on an odd page.
                              \cleardoublepage%
                       216
                       217
                            }%
                       218 }
         \approvalpage The macro \approvalpage creates an approval page for Master's theses.
                       219 (*masters)
                       220 \newcommand\approvalpage{%}
                            \cleardoublepage%
                       221
                       222
                            223
                            \noindent\approvaltext\\\mbox{}\bigskip%
                       224
                            \int \int (x \sin x) dx
                       225
                            \\\ \\\mbox{}\bigskip\\\mbox{}\bigskip%
                            \approval name, \verb|\mbox{}\bigskip||
                       227
                       228
                            \begin{quote}%
                              \sig\supervisorname: \cupervisor\\\bigskip\\\
                       229
                              \sig\examinername: \@examiner
                       230
                       231
                            \end{quote}%
                       232 }
                       233 (/masters)
                      The environment acknowledgements creates an unnumbered section.
      acknowledgements
                       234 \newenvironment{acknowledgements}{%
                            \cleardoublepage%
                       235
                            \section*{\acknowledgementname}%
                       236
                        The author's name is reused to create an attribution line at the end of the ac-
                        knowledgements section.
                            \par\bigskip\bigskip\noindent\@place, \@date\hfill \@author%
                       239
                            \cleardoublepage%
                       240 }
                       The \tableofcontents definition from the article class is preserved. It is not
\kauths@tableofcontents
                        reused in this class.
                       241 \let\kauths@tableofcontents\tableofcontents
```

The abstract's last line in collection theses and reports is supposed to be a list of

\keywords

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

242 \renewcommand\tableofcontents{%

```
243 \cleardoublepage%
244 \kauths@tableofcontents%
245 }
```

3.5 Main matter

The main matter is started with \mainmatter. The macro resets the page counter to page 1 and, for collection theses, it immediately creates the part Introductory Summary.

\mainmatter

The optional argument of $\mbox{\mbox{mainmatter}}[\langle body\ material \rangle]$ can be used to get access to the part's title page, e.g., for adding a quote with $\mbox{\mbox{\mbox{vanityquote}}}$.

```
246 \newcommand\mainmatter[1][]{% 247 \cleardoublepage%
```

The original definition of the abstract environment is restored.

248 \renewenvironment{abstract}{\kauths@abstract}{\kauths@endabstract}

The page counter is set to page 1.

```
249 \setcounter{page}{1}%
250 \pagenumbering{arabic}%
```

The Introductory Summary title page is created with \introname and $\langle body \ material \rangle$.

```
251 \langle *collection \rangle
252 \langle *collection \rangle
253 \langle *collection \rangle
254 }
```

\vanityquote

The macro $\ensuremath{\mbox{vanityquote}}{\ensuremath{\mbox{quote}}}{\ensuremath{\mbox{can}}}$ can be used in collection theses and reports to add quotes to the cover pages of parts, e.g., in $\ensuremath{\mbox{body material}}$ of $\ensuremath{\mbox{mainmatter}}$. The first argument, $\ensuremath{\mbox{quote}}$, is the quote and the second, $\ensuremath{\mbox{reference}}$, is the reference to the person which is quoted.

```
255 (*collection | report)
256 \newcommand\vanityquote[2]{%
```

The quote is placed relative to the borders of the page. TikZ is doing the actual placing.

```
257 \begin{tikzpicture}[remember picture,overlay]%
```

The placing reference is the lower right corner of the page.

```
258 \path (current page.south east) +(-3,3.5)%

259 node%

260 [ anchor=south east%

261 , font=\large%

262 , text width=25em%
```

The closing quotation marks are placed outside the quote's right margin.

```
263 ] {\raggedleft''#1\rlap{''}%
264 \normalfont\par\medskip\itshape #2\par};%
265 \end{tikzpicture}%
266 }
267 \(/collection | report\)
```

```
\part In the kaureport class, the \part{\langle headline \rangle} is replaced by \kaupart. 
 \[ 268 \langle *report \rangle \] \[ 269 \langle 1et \part \kaupart \] \[ 270 \langle /report \rangle \] \[ 271 \langle /collection \rangle report \rangle \masters \rangle \]
```

Change History

v1.0	v1.5
General: SBe's licentiate version 1	General: Added templates for kau-
v1.1	collection and kaureport 1
General: Initial public release 1 v1.2	v1.6 General: Merged the styles' dtx
General: Support for babel.sty, Documentation added 1	files
v1.3	General: Added approval page to kaumasters
General: Merged the classes' dtx	v1.8
files 1	General: Improved author's signa-
v1.4	tures on the approval page of
General: Fixed babel.sty support \cdot . 1	kaumasters 1

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