# The kautools bundle\*

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#### Abstract

The kautools bundle provides tools (LATeX style files) for the kauthesis bundle.

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<sup>\*</sup>This document corresponds to kautools v1.12, dated 2014/02/18.

#### 1 Introduction

#### 1.1 The kautitle package

The kautitle package defines an alternative title page using the logo of Karlstad University. Note that this is not an implementation of the Karlstad University Studies title page, i.e., this alternative title page won't be used for your thesis. The logo is available from

http://www.kau.se/sites/default/files/image/press/kau-logo-tryck.pdf

and must be available in LATEX's search path before using this package.

At the moment, this package uses a manually installed font called aun and it's bold version aub. It might not be available on your system, though, and since the font is licensed, I may not distribute it. If you do not possess the font, you have to switch to another one.

\maketitle \kut@maketitle Load the package without options. The title page can be created using \maketitle. Note that the previous definition of \maketitle is not destroyed, but preserved in the macro \kut@maketitle. You can use it in your document as follows:

\makeatletter \kut@maketitle \makeatother

\setkautitlefont

Two fonts are used on the title page and can be changed using the macro  $\startion{setkautitlefont}{\langle font\rangle}$ . The argument  $\langle font\rangle$  accepts key-value pairs where keys are normalfont and titlefont and values are any sequence of  $\startion{Early}{TEX}$ 's font commands. For switching to your standard sans-serif font, you should add these lines to your preamble:

```
\setkautitle%
{ normalfont=\sffamily\LARGE
, titlefont=\sffamily\bfseries\Huge }
```

#### 1.2 The kaumeta package

The kaumeta package defines three macros, \subject, \institute, and \place, for providing additional meta data about the document and it's author. This meta data can be used, e.g., on the title page of the document.

#### 1.3 The kaulist package

The kaulist package defines pretty printing macros for lists. For instance, a list "1,2,3" is transformed to "1, 2, and 3".

#### 1.4 The kauclear package

This package replaces the macro \cleardoublepage. Empty pages with odd page numbers will not print the page number. Also, the macro \pagestyle is redefined. The new behaviour is to stores the page style for being able to restore it later on.

#### 1.5 The kauenvironments package

This package defines the environments researchquestions and contributions.

#### 1.6 The kauparts package

This packages defines a new \part macro, \kaupart. It is independend of \part, but you should decide yourself for one alternative only. The \kaupart macro adds a cover page for the new part.

Use the package options vshift and vstep to adjust the placement of the thumb indices on the cover pages.

\kaupart

Use  $\kaupart[\langle meta \rangle] \{\langle title \rangle\}$  to create a numbered part with the given  $\langle title \rangle$ . You may use the optional argument  $\langle arg \rangle$  for adding meta data. This includes body for typing additional material on the cover page and label for creating a label such as usually created by \label. In addition, the switch tocentry may be set to false, if the macro should not add an entry to the table of contents.

\kaupart\*

The starred version of \kaupart works exactly like the unstarred version, but creates an unnumbered part.

#### 1.7 The kaupaper package

Yet no description.

#### 1.8 The kaustudies package

This package sets the page dimensions so that your document does not need to be scaled for printing. It also chooses Garamond as the standard font.

You can use the package option tinyfontswitch=false in order to avoid the switch to sans-serif fonts when using \tiny. The switch is recommended by Karlstad University Studies, though, it is rather debatable whether this is necessary when using LATEX and the correct page dimensions.

#### 1.9 The kaulanguage package

This packages defines a macro for supporting names in English and Swedish depending on the chosen language in babel.

#### 1.10 The pgfcropmarks package

The package pgfcropmarks draws crop marks on A4 paper. This is supposed to be the last step after creating all tables, indices, and glosseries. When the package is loaded, LATEX will not create or update any auxiliary files.

# 2 Implementation

#### 2.1 The kautitle package

No package options are accepted.

- 1 (\*title)
- 2 \ProcessOptions\relax

```
Load dependencies.
```

- 3 \RequirePackage{xkeyval}
- 4 \RequirePackage{tikz}
- 5 \RequirePackage{hyphenat}
- 6 \RequirePackage{kaumeta}

#### \setkautitlefont

The macro \setkautitlefont allows to choose another than the default font for the title page. The title page has only two different font settings, titlefont which is used for the title text and normalfont which is used otherwise.

```
7 \define@cmdkeys[kut]{pkg}[kut@]{normalfont,titlefont}
8 \setkeys[kut]{pkg}%
```

- { normalfont=\fontfamily{aun}\fontsize{18}{21.6}\selectfont\bfseries
- , titlefont=\fontfamily{aub}\fontsize{28}{33.6}\selectfont }
- 11 \newcommand\setkautitlefont[1]{\setkeys[kut]{pkg}{#1}}

\kut@maketitle Preserve the previous version of \maketitle.

12 \let\kut@maketitle\maketitle

#### \maketitle

The title page will consist of two background images (the Karlstad University logo), title, subject, author, and author's institute. Everything will be shaded except the title.

- 13 \renewcommand\maketitle{%
- \thispagestyle{empty}
- \begin{tikzpicture}[remember picture, overlay]%

Clipping the title page to the dimensions of the logical page. This is interesting when the physical and the logical page do not have the same dimensions.

```
\path (current page.north west) +(-4pt,4pt) node (NW) {};
      \path (current page.south east) +(4pt,-4pt) node (SE) {};
17
```

\path (current page.north west) +(-3pt,3pt) node (NWC) {}; 18

\path (current page.south east) +(3pt,-3pt) node (SEC) {}; 19

\path[clip] (NWC) rectangle (SEC); 20

Background images.

```
\path (current page.south west) node[rotate=243.5] {\pgfimage{kau-logo-tryck}};%
```

\path (current page.north east) node[rotate=175] {\pgfimage{kau-logo-tryck}};%

Subject in the upper left corner of the page.

```
\path (current page.north west) node
23
        [shift={(10pt,-12pt)},anchor=south west,rotate=270
24
25
        ,font=\kut@normalfont\vphantom{Xy}]
```

26 {\@subject};

Institute in the lower right corner of the page.

```
\path (current page.south east) node
27
```

[shift={(-8pt,6pt)},anchor=north east,rotate=270 28

29 ,rounded corners,fill=black,text=white,inner sep=8pt

30 ,font=\kut@normalfont\vphantom{Xy}]

{\@shortinstitute}; 31

Title bar on vertically centered on the left side of the page.

```
\path
32
```

```
(current page.east) node[shift={(-10,0)}] (A) {}
33
```

(current page.east) node[shift={(0,-2.5)}] (B) {} 34

35 [shading=axis,left color=white,right color=black] (A) rectangle (B.south east)

36

```
\path (B) node
                              [anchor=north east
                    38
                              ,inner sep=8pt
                    39
                    40
                              ,text=black
                              ,font=\kut@normalfont\vphantom{Xy}
                    42
                              ,text width=14cm,text ragged left]
                    43
                              {\@author};
                    Shading over the entire page (slightly bigger than the clipping).
                            \path[fill=white,opacity=0.90,transparency group] (NW) rectangle (SE);
                    Title text on the title bar. No hyphens are allowed in the title text.
                           \path (B) node
                    45
                              [anchor=south east, shift={(-3pt,0)}
                    46
                    47
                              ,text=yellow!75!red
                              ,font=\kut@titlefont\vphantom{Xy}
                    48
                              ,text width=14cm,text ragged left]
                    49
                    50
                              {\nohyphens{\@title}};
                    51
                         \end{tikzpicture}%
                    52
                         \clearpage%
                    53 }
                    54 (/title)
                            The kaumeta package
                    No package options are parsed.
                    55 (*meta)
                    56 \ProcessOptions\relax
                    Dependencies are loaded.
                    57 \usepackage{ifthen}
                    The macro \subject{\langle subject\rangle} can be used to set the subject of the document.
         \subject
        \@subject
                    The last \langle subject \rangle set will be available in the macro \@subject.
                    58 \newcommand*\@subject{}
                    59 \newcommand\subject[1] {\renewcommand*\@subject{#1}}
                    The macro \institute[\langle short \rangle] \{\langle institute \rangle\}\ can be used to set the institute of
       \institute
                    the document's author. It is possible to provide a shorter version of the institue in
                    the optional argument \langle short \rangle. If not explicitly set, the short version is the same as
     \@institute
                    the long version (institute). The values are available in the macros \@institute
\@shortinstitute
                    and \@shortinstitute.
                    60 \newcommand*\@institute{}
                    61 \newcommand*\@shortinstitute{}
                    62 \newcommand\institute[2][]{%
                    63
                         \renewcommand*\@institute{#2}%
                         \left\{ \left( \frac{\#1}{\pi} \right) \right\}
                    64
                           \renewcommand*\@shortinstitute{#2}%
                    65
                    66
                           \renewcommand*\@shortinstitute{#1}%
                    67
                        }%
                    68
                    69 }
```

Author below the title bar.

```
The macro \place{\langle place \rangle} can be used to set the place of the document's author.
     \place
              The last \langle place \rangle set will be available in the macro \Oplace.
    \@place
              70 \newcommand*\@place{}
              71 \newcommand\place[1]{\renewcommand*\@place{#1}}
             \{\langle name \rangle\} sets the supervisor's name for the kaumasters class.
\supervisor
              72 \newcommand\@supervisor{}
              73 \newcommand\supervisor[1] {\renewcommand*\@supervisor{#1}}
 \examiner \{\langle name \rangle\} sets the examiner's name for the kaumasters class.
              74 \newcommand\@examiner{}
              75 \newcommand\examiner[1]{\renewcommand*\@examiner{#1}}
              76 \langle /meta \rangle
              2.3
                     The kaulist package
              No options are parsed.
              77 (*list)
              78 \ProcessOptions\relax
              79 \RequirePackage{kaulanguage}
                  For \prettylist, the packages pgffor, pgfmath, and pgfkeys are required.
              80 \RequirePackage{tikz}
             defines a comma (","), if one is to be used before "and".
\commasign
              81 \AtBeginDocument{%
                  \setname{commasign}{}{,}%
              82
              83 }
             definses the word used as "and".
   \andname
              84 \AtBeginDocument{%
                  \setname{andname}{and}{och}%
              86 }
\prettylist
             \{\langle list \rangle\} transformes a comma separated list into a list in natural language.
              87 \newcommand\prettylist[1]{%
              The number of list elements is stored in \num.
                   \foreach[count=\xi] \x in #1 {}%
                  \let\num=\xi%
              The first element is just printed without any changes.
                   \foreach[count=\xi] \x in #1 {%
                     \ifnum \xi=1%
              91
                       \x%
              92
              The last element is printed with preceding \commasign, if there are more than
              two elements in the list, and otherwise without.
              93
                     \else%
                       \ifnum \xi=\num%
              94
                         \ifnum \num=2%
              95
                            {} \andname{} \x%
              96
                          \else%
              97
                            \commasign{} \andname{} \x%
              98
              99
                          \fi%
```

```
Elements in between the first and the last one are printed with a preceding hard-
coded comma sign (not \commasign).
```

```
\else%
100
101
             , \x%
           \fi%
102
103
        \fi%
     }%
104
105 }%
106 (/list)
```

#### 2.4 The kauclear package

```
No options are parsed.
```

```
107 (*clear)
108 \ProcessOptions\relax
```

\kuc@currentpagestyle The page style is stored in \kuc@currentpagestyle. Default: plain

109 \newcommand\kuc@currentpagestyle{plain}

\pagestyle The macro \pagestyle is redefined to update the page style in \kuc@currentpagestyle.

```
110 \let\pagestyle@orig\pagestyle
111 \renewcommand\pagestyle[1]{%
    \renewcommand\kuc@currentpagestyle{#1}%
     \pagestyle@orig{#1}%
114 }
```

\kuc@restorepagestyle The page style can be restored with \kuc@restorepagestyle after (temporarily) switching to another one using \pagestyle@orig.

```
115 \newcommand\kuc@restorepagestyle{%
116
     \pagestyle@orig{\kuc@currentpagestyle}%
117 }
```

\cleardoubpage@orig The previous definition of \cleardoublepage is preserved in \cleardoublepage@orig. 118 \let\cleardoubpage@orig\cleardoublepage

\cleardoublepage

The macro \cleardoublepage is redefined. The new definition switches temporarily to the page style empty.

```
119 \renewcommand\cleardoublepage{%
120
     \clearpage%
      \pagestyle@orig{empty}%
121
      \cleardoubpage@orig%
122
123
     \kuc@restorepagestyle%
124 }
125 \langle / clear \rangle
```

#### The kauenvironments package 2.5

No package options are parsed.

```
126 (*environments)
127 \ProcessOptions\relax
```

```
Load dependencies.
                   128 \RequirePackage{xspace}
                   129 \RequirePackage{xcolor}
                    The environment is an enumeration derived from enumerate. The argument of
researchquestions
                    \ightharpoonup is used to formulate the research question.
                   130 \newenvironment{researchquestions}%
                        {\begin{enumerate}%
                   132
                           \let\kue@item\item%
                           \renewcommand\item[1][Research question]%
                   133
                             {\kue@item\emph{##1}\nopagebreak\par}%
                   134
                        ጉ%
                   135
                        {\end{enumerate}}%
                   136
                    The environment is an enumeration derived from enumerate. The argument of
    contributions
                    \texttt{(item[(}contrib\texttt{)]} is used to formulate the contribution.
                   137 \newenvironment{contributions}%
                        {\begin{enumerate}%
                           \let\kue@item\item%
                   139
                   140
                           \renewcommand\item[1][%
                             \textcolor{red}{\emph{write your contribution between brackets
                   141
                               as optional argument of \texttt{\string\item}.}}]%
                   142
                             {\kue@item\emph{##1}\xspace}%
                   143
                        }%
                   144
                         {\end{enumerate}}%
                   145
                   146 (/environments)
                           The kauparts package
                    2.6
                   147 \langle *parts \rangle
                   148 \RequirePackage{xkeyval}
                   150 \define@cmdkeys[kup]{pkg}[kup@]{vshift,vstep}
                   151 \setkeys[kup] {pkg}{vshift=2, vstep=0.8}
                   153 \ProcessOptionsX[kup] < pkg>
                   154
                   155 \RequirePackage{calc}
                   156 \RequirePackage{ifthen}
                   157 \RequirePackage{suffix}
                   158 \RequirePackage{tikz}
                   159 \usetikzlibrary{positioning}
```

\path[node distance=1ex] (current page.north east) +(3pt,\kup@vshift+\kup@vstep\*\arabic{kup@

161 \define@cmdkeys[kup]{part}[kup@]{body,label}
162 \define@boolkeys[kup]{part}[kup@]{tocentry}

164 \newcounter{kup@part}
165 \newcounter{kup@vertical}
166 \setcounter{kup@vertical}{0}

node%

168 \newcommand\kup@partheadline[2]{%

167

 $\frac{169}{170}$ 

```
[ anchor=north east%
                          171
                                                  , minimum width=2cm+3pt%
                          172
                                                 %, minimum height=7mm%
                          173
                                                 %, draw=black%
                          174
                                                 %, fill=black%
                          175
                                                 , left color=white%
                          176
                                                  , right color=black%
                          177
                          178
                                                 , text=white%
                                                  , font=\LARGE\bfseries%
                          179
                                                 ] (bar) {#1}%
                          180
                                            node[base left=of bar,font=\LARGE\bfseries] {#2};%
                          181
                          182 }
  \kaupart
                          183 \newcommand\kaupart[2][]{%
                          184
                                      \cleardoublepage%
                          185
                                      \thispagestyle{plain}%
                                      \stepcounter{kup@part}%
                          186
                                       \setkeys[kup]{part}{body=\relax,label=,tocentry=true,#1}%
                          187
                                       \ifkup@tocentry%
                          188
                                            \providecommand\phantomsection{}%
                          189
                          190
                                            \phantomsection%
                                            \label{lem:line} $$\addcontentsline{toc}{part}_{numberline{Roman}_{kup@part}}\times {\#2}} % $$ addcontentsline{toc}_{part}_{numberline}$$
                          191
                                      \fi%
                          192
                                       \renewcommand\@currentlabel{\Roman{kup@part}}%
                          193
                                       \label{$\ \equal{\kup@label}{}}{\ \cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots}\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\cdots{\
                          194
                                       \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
                          195
                          196
                                            \kup@partheadline{\Roman{kup@part}}{#2}%
                          197
                                       \end{tikzpicture}%
                          198
                                       \kup@body
                                       \stepcounter{kup@vertical}%
                          200
                                       \cleardoublepage%
                          201 }
\kaupart*
                          202 \WithSuffix\newcommand\kaupart*[2][]{%
                                       \cleardoublepage%
                                       \thispagestyle{plain}%
                                       \setkeys[kup]{part}{body=\relax,tocentry=true,#1}%
                          205
                          206
                                       \ifkup@tocentry%
                                            \providecommand\phantomsection{}%
                          207
                          208
                                            \phantomsection%
                         209
                                            \addcontentsline{toc}{part}{\textsc{#2}}%
                         210
                                       \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
                         211
                                            \with {\tt Qpartheadline{\tt vphantom{X}}{\#2}\%}
                         212
                                       \end{tikzpicture}%
                         213
                                       \kup@body
                         214
                                       \stepcounter{kup@vertical}%
                         215
                          216
                                       \cleardoublepage%
                         217 }
                         218 \langle /parts \rangle
```

#### 2.7 The kaupaper package

```
219 (*paper)
220 \RequirePackage{xkeyval}
222 \define@cmdkeys[kua]{paper}[kua@]{author,title,subtitle,reference,email,refstr,vanity,subdelin
223 \setkeys[kua]{paper}{refstr=\reprintedname}
225 \ProcessOptionsX[kua] <paper>
227 \RequirePackage{kauparts}
228 \RequirePackage{ifthen}
229 \RequirePackage{tikz}
231 \RequirePackage{ragged2e}
232 \RequirePackage{hyphenat}
234 \RequirePackage{kaulanguage}
235
236 \AtBeginDocument{%
237
     \setname{reprintedname}{Reprinted from}{Ursprungligen publicertad i}%
     \setname{appendedpapersname}{List of Appended Papers}{Bifogade publiceringar}%
239
     \setname{participationname}{Comments on my Participation}{Kommentarer p\aa{} min medverka}%
240
     \setname{papername}{Paper}{Publicering}%
241 }
242
243 \newcounter{kua@section}
244 \newcounter{kua@equation}
245 \newcounter{kua@figure}
246 \newcounter{kua@table}
247
248 \newcounter{kua@paper}
249
250 \providecommand\thepaper{}
251 \providecommand\thepapertitle{}
253 \newcommand\kua@warning\relax
254 \newcommand\kua@dowarn{\gdef\kua@warning{\@latex@warning@no@line{List data created from the ka
255 \AtEndDocument{\kua@warning}
256
257 \newcommand\kua@listof[4]{%
     \IfFileExists{\jobname.#1}%
258
       {% check whether empty file
259
260
         \newread\reader%
261
         \openin\reader\jobname.#1%
         \read\reader to \readmacro%
262
         \ifeof\reader%
263
            \label{localization} $$ \operatorname{ldots}{ \ will be available after the next \ \ run.}% $$
264
265
            \@starttoc{#1}%
           %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
266
267
            \kua@dowarn%
         \else% file not empty -> create list
268
            #3\@starttoc{#1}#4%
269
270
         \fi%
```

```
}%
              271
                     {% file does not exist
              272
                       \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
              273
                       \@starttoc{#1}%
              274
                       %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
              275
              276
                       \kua@dowarn%
              277
                     }%
              278 }
\listofpapers
              279 \newcommand\listofpapers{%
                   \section*{\appendedpapersname}%
                   \addcontentsline{toc}{section}{\appendedpapersname}%
              281
                   \kua@listof{pap}{appended papers}{%
              282
                     \begin{enumerate}%
              283
                     \renewcommand\theenumi{\textbf{\Roman{enumi}}}%
              284
              285
                   }{\end{enumerate}}%
                   \subsection*{\participationname}\vspace{-2\baselineskip}%
              286
                   \kua@listof{pcp}{participation in appended papers}{}{}%
              287
              288 }
              289
              290 \newcommand\l@paper[2]{%
              291
                   \item #1%
              292 }
              294 \newcommand\listofsummaries{%
              295
                   \kua@listof{sum}{paper summaries}{}{}%
              296 }
              297
              298 \newcommand\l@summary[2]{%
                   #1%
              299
              300 }
              301
              302 \newcommand\l@limit[2]{%
                   %\paragraph{Limitations.}
              303
              304
                   #1%
              305 }
              306
              307 \newcommand\l@participation[2]{%
              308
                   #1%
              309 }
              310
              311 \newcommand\papercover{%
                   \begin{tikzpicture}[remember picture,overlay]%
                     \path (current page.center)%
              313
              314
                       node%
              315
                         [ node distance=\baselineskip%
              316
                          , text width=\textwidth%
              317
                          , text centered%
                         ] (refstr) {\kua@refstr};%
              318
                       319
                         \node%
              320
              321
                            [ node distance=1.5\baselineskip%
                            , above=of refstr%
              322
```

```
{\nohyphens{\kua@title}};%
326
        }{%
327
          \node%
328
            [ node distance=1.5\baselineskip%
329
            , above=of refstr%
330
331
             text width=\textwidth%
332
             text centered%
             font=\large\bfseries%
333
            ] (sub) {\nohyphens{\kua@subtitle}};%
334
          \node%
335
            [ node distance=1pt%
336
            , above=of sub%
337
             text width=\textwidth%
338
             text centered%
339
             font=\LARGE\bfseries%
340
341
            }%
342
        \node%
343
          [ node distance=\baselineskip%
344
          , below=of refstr%
345
          , text width=\textwidth%
346
          , text centered%
347
348
           font=\large%
          [ ] {\nohyphens{\kua@reference}}%
349
      ;%
350
    \end{tikzpicture}%
351
352 }
353
354 \newenvironment{kaupaper}[1][]{%
    \verb|\counter{kua@section}{\value{section}}||
355
    \setcounter{kua@equation}{\value{equation}}%
356
    \setcounter{kua@figure}{\value{figure}}%
357
    \setcounter{kua@table}{\value{table}}%
358
    \setcounter{section}{0}%
359
360
    \setcounter{equation}{0}%
     \setcounter{figure}{0}%
362
    \setcounter{table}{0}%
363
    \setkeys[kua]{paper}{subtitle=,vanity=,subdelimiter={---},label=,summary={\string\textcolor-
364
    \setcounter{kua@paper}{\value{kup@part}}\stepcounter{kua@paper}%
365
    \ifthenelse{\equal{\kua@subtitle}{}}%
      366
       \addcontentsline{toc}{part}{\textsc{\papername} \Roman{kua@paper}\\\kua@title}}%
367
      368
369
       \addcontentsline{toc}{part}{\textsc{\papername} \Roman{kua@paper}\\\kua@title\kua@subdel:
    \addcontentsline{sum}{summary}{\string\subsubsection*{\papername~\Roman{kua@paper} -- \kua@
370
    \ifthenelse{\equal{\kua@limitations}{}}{}{}
371
372
      \addcontentsline{sum}{limit}{\kua@limitations}}%
    373
374
    \kaupart[tocentry=false,label=\kua@label,body=\papercover\kua@vanity]{\papername}%
375
    \renewcommand*\thepaper{\papername~\Roman{kua@paper}}%
    \renewcommand*\thepapertitle{\kua@title}%
376
```

text width=\textwidth%

font=\LARGE\bfseries%

text centered%

323

324

325

```
\renewcommand\maketitle{%
377
       \thispagestyle{plain}%
378
       \centering%
379
         \Large\bfseries%
380
         \vspace*{0.15\textheight}%
381
         \kua@title\par%
382
         \addvspace{1ex}%
383
         \label{large-kua@subtitle}{}{}{\large-kua@subtitle}%
384
385
         \par\addvspace{\baselineskip}%
         \normalsize%
386
         \kua@author\\[0.25\baselineskip]%
387
         \normalfont%
388
         \kua@email%
389
       \par\addvspace{2\baselineskip}\justifying%
390
     }%
391
392 }{%
     \setcounter{section}{\value{kua@section}}%
393
394
     \setcounter{equation}{\value{kua@equation}}%
     \setcounter{figure}{\value{kua@figure}}%
395
     \setcounter{table}{\value{kua@table}}%
396
397
     \clearpage%
398 }
399 (/paper)
```

#### 2.8 The kaustudies package

```
400 (*studies)
401 \RequirePackage{xkeyval}
403 \define@boolkey[kus] {pkg} [kus@] {tinyfontswitch} [true] {}
405 \presetkeys[kus]{pkg}{tinyfontswitch}{}
406 \ProcessOptionsX[kus] < pkg>
407
408 \RequirePackage[twoside]{geometry}
409 \RequirePackage{garamondx}
410 \RequirePackage[garamondx,cmbraces]{newtxmath}
411
412 \geometry
413
    { paperwidth=165mm
     , paperheight=242mm
     , inner=27mm
416
     , outer=27mm
417
     , top=24mm
418
     , bottom=22mm
419
420
421 \ifkus@tinyfontswitch
     \let\kus@tiny@orig\tiny
423
    \renewcommand*\tiny{\sffamily\kus@tiny@orig}
424 \fi
425 \langle / studies \rangle
```

#### 2.9 The kaulanguage package

```
426 (*language)
              427 \ProcessOptions\relax
              428 \neq 1
              429 \babelfalse
              430 \AtBeginDocument{%
                   \@ifpackageloaded{babel}%
                      {\babeltrue}%
                      {\babelfalse}%
              433
              434 }
              {\langle macro\ name \rangle} {\langle english \rangle} {\langle swedish \rangle}
    \setname
              435 \newcommand\setname[3]{%
                   \IfFileExists{swedish.ldf}{%
              436
                      \ifbabel%
              437
                        \expandafter\edef\csname #1\endcsname{\noexpand\iflanguage{swedish}{#3}{#2}}%
              438
              439
                        \expandafter\edef\csname #1\endcsname{#2}%
              440
              441
                      \fi%
              442
                   {\expandafter\edef\csname #1\endcsname{#2}}%
              443
              444 }
              445 (/language)
                       The pgfcropmarks package
               2.10
               No options are parsed.
              446 (*crop)
              447 \ProcessOptions\relax
              448 \RequirePackage{pgfpages}%
               No files are created or updated.
              449 \nofiles%
               Boolean, true on odd pages.
              450 \newif\if@kus@isodd%
              451 \@kus@isoddtrue%
\cropmarklen The length of the crop mark lines.
              452 \ensuremath{\cropmarklen}\setlength{\cropmarklen}{40pt}\%
             The space between cropmark and paper edge.
\cropmarksep
              453 \newlength{\cropmarksep}\setlength{\cropmarksep}{15pt}%
              The cropmark page layout.
              454 \pgfpagesdeclarelayout{cropmarks}%
              455 {%
              456 }%
              457 {%
                   \pgfpagesphysicalpageoptions%
              458
              459
                     logical pages=1,%
              460
                     physical height=297mm,%
              461
                     physical width=210mm%
              462
              463
```

```
464
                      \pgfpageslogicalpageoptions{1}%
465
                     {%
                            border code=%
466
                                      \if@kus@isodd
467
                                              \global\@kus@isoddfalse
468
                                              \pgfsetlinewidth{0.6pt}%
469
                                              \pgfusepath{discard}%
470
471
                                              \pgfmoveto{\pgfpoint{-\cropmarksep}{0pt}}%
472
                                                        \pgflineto{\pgfpoint{-\cropmarklen}{0pt}}%
                                              \position{The property of the comparison of th
473
                                                       \pgflineto{\pgfpoint{0pt}{-\cropmarklen}}%
474
                                              \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{0pt}}%
475
                                                        \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}-\{0pt}}%
476
                                              \verb|\pgfmoveto{\pgfpoint{\paperwidth}{-\cropmarksep}}||% \cropmarksep||% \crop
477
478
                                                        \pgflineto{\pgfpoint{\paperwidth}{-\cropmarklen}}%
                                              \pgfmoveto{\pgfpoint{-\cropmarksep}{\paperheight}}%
479
                                                        \pgflineto{\pgfpoint{-\cropmarklen}{\paperheight}}%
480
481
                                              \pgfmoveto{\pgfpoint{0pt}{\paperheight+\cropmarksep}}%
482
                                                       \pgflineto{\pgfpoint{0pt}{\paperheight+\cropmarklen}}%
483
                                              \pgfmoveto{\pgfpoint{\paperwidth}{\paperheight+\cropmarksep}}%
                                                       \pgflineto{\pgfpoint{\paperwidth}{\paperheight+\cropmarklen}}%
484
                                              \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{\paperheight}}%
485
                                                       486
                                              \pgfusepath{stroke}%
487
488
                                      \else
489
                                              \global\@kus@isoddtrue
490
491
                              center=\pgfpoint{.5\pgfphysicalwidth}{.5\pgfphysicalheight}%
492
                   }%
493 }%
   Activate the cropmark page layout.
494 \pgfpagesuselayout{cropmarks}%
495 (/crop)
```

### Change History

v1.0	files 1
General: SBe's licentiate version 1	v1.4
v1.1	General: Fixed babel.sty support . 1
General: Initial public release 1	v1.5
v1.10	General: Added templates for kau-
General: Version bump without	collection and kaureport 1
changes 1	v1.6
v1.11	General: Merged the styles' dtx
General: Fixed missing file in babel	files 1
support 1	v1.7
v1.2	General: Added macros for supervi-
General: Support for babel.sty,	sor and examiner in kaumeta $\dots$ 1
Documentation added 1	v1.8
v1.3	General: Added macros pretty
General: Merged the classes' dtx	printing lists in kaulist 1

v1.9	changes	
------	---------	--

General: Version bump without

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