The kautools bundle*

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Abstract

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

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^{*}This document corresponds to kautools v1.11, dated 2013/09/17.

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 $\startion{Lambda}{TE}X$'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}{\$} \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
                        }%
                   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

 $\frac{169}{170}$

```
171
                                                         [ anchor=north east%
                                                         , 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%
                                            \addcontentsline{toc}{part}{\numberline{\Roman{kup@part}}\textsc{#2}}%
                              190
                                            \fi%
                                             \renewcommand\@currentlabel{\Roman{kup@part}}%
                              191
                                             \label{$\ \equal{\kup@label}{}}{\ \equal{\kup@label}}% \label{\label}
                              192
                                             \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
                              193
                                                   \wave{$\mathbb{R}$ analoge} \wave{$\mathbb{R}$ analoge
                              194
                                             \end{tikzpicture}%
                              195
                              196
                                              \kup@body
                              197
                                              \stepcounter{kup@vertical}%
                              198
                                              \cleardoublepage%
                              199 }
\kaupart*
                              200 \WithSuffix\newcommand\kaupart*[2][]{%
                              201
                                             \cleardoublepage%
                              202
                                             \thispagestyle{plain}%
                              203
                                             \setkeys[kup]{part}{body=\relax,tocentry=true,#1}%
                              204
                                             \ifkup@tocentry%
                                                  \addcontentsline{toc}{part}{\textsc{#2}}%
                              205
                              206
                                             \fi%
                                             \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
                              207
                              208
                                                   \kup@partheadline{\vphantom{X}}{#2}%
                                             \end{tikzpicture}%
                              209
                                             \kup@body
                             210
                                             \stepcounter{kup@vertical}%
                             211
                                             \cleardoublepage%
                             212
                             213 }
                              214 (/parts)
                                2.7
                                                   The kaupaper package
                              215 \langle *paper \rangle
                              216 \RequirePackage{xkeyval}
                             217
```

```
218 \define@cmdkeys[kua]{paper}[kua@]{author,title,subtitle,reference,email,refstr,vanity,subdelin
219 \setkeys[kua] {paper}{refstr=\reprintedname}
221 \ProcessOptionsX[kua] <paper>
223 \RequirePackage{kauparts}
224 \RequirePackage{ifthen}
225 \RequirePackage{tikz}
227 \RequirePackage{ragged2e}
228 \RequirePackage{hyphenat}
229
230 \RequirePackage{kaulanguage}
231
232 \AtBeginDocument{%
            \setname{reprintedname}{Reprinted from}{Ursprungligen publicertad i}%
233
            \setname{appendedpapersname}{List of Appended Papers}{Bifogade publiceringar}%
            \setname{participationname}{Comments on my Participation}{Kommentarer p\aa{} min medverka}%
236
            \setname{papername}{Paper}{Publicering}%
237 }
238
239 \newcounter{kua@section}
240 \newcounter{kua@equation}
241 \newcounter{kua@figure}
242 \newcounter{kua@table}
243
244 \newcounter{kua@paper}
246 \providecommand\thepaper{}
247 \providecommand\thepapertitle{}
249 \newcommand\kua@warning\relax
250 \ \texttt{list data created from the karring@no@line{List data creat
251 \verb| AtEndDocument{\kua@warning}|
253 \newcommand\kua@listof[4]{%
           \IfFileExists{\jobname.#1}%
254
255
                {% check whether empty file
256
                    \newread\reader%
257
                    \openin\reader\jobname.#1%
258
                    \read\reader to \readmacro%
259
                    \ifeof\reader%
                         \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
260
261
                         \@starttoc{#1}%
                        %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
262
263
                         \kua@dowarn%
264
                    \else% file not empty -> create list
                         #3\@starttoc{#1}#4%
265
                    \fi%
266
267
               }%
268
                {% file does not exist
269
                    \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
270
                    \@starttoc{#1}%
                    %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
271
```

```
\kua@dowarn%
              272
              273
                     }%
              274 }
\listofpapers
              275 \newcommand\listofpapers{%
                   \section*{\appendedpapersname}%
                   \addcontentsline{toc}{section}{\appendedpapersname}%
              277
                   \kua@listof{pap}{appended papers}{%
              278
                     \begin{enumerate}%
              279
                     280
              281
                   }{\end{enumerate}}%
                   \subsection*{\participationname}
              282
                   \kua@listof{pcp}{participation in appended papers}{}{}%
              283
              284 }
              285
              286 \newcommand\l@paper[2]{%
              287
                   \item #1%
              288 }
              289
              290 \newcommand\listofsummaries{%
                   \kua@listof{sum}{paper summaries}{}{}%
              292 }
              293
              294 \newcommand\l@summary[2]{%
                   #1\par%
              296 }
              297
              298 \newcommand\l@limit[2]{%
                   %\paragraph{Limitations.}
              299
                   #1%
              300
              301 }
              302
              303 \newcommand\l@participation[2]{%
              304
              305 }
              306
              307 \newcommand\papercover{%
                   \begin{tikzpicture}[remember picture,overlay]%
              308
                     \path (current page.center)%
              309
              310
                       node%
                         [ node distance=\baselineskip%
              311
                         , text width=\textwidth%
              312
                         , text centered%
              313
                         ] (refstr) {\kua@refstr};%
              314
              315
                       \ifthenelse{\equal{\kua@subtitle}{}}{%
              316
              317
                           [ node distance=1.5\baselineskip%
                           , above=of refstr%
              318
                           , text width=\textwidth%
              319
                           , text centered%
              320
                           , font=\LARGE\bfseries%
              321
              322
                           ] {\nohyphens{\kua@title}};%
                       }{%
              323
```

```
\node%
324
             [ node distance=1.5\baselineskip%
325
             , above=of refstr%
326
              text width=\textwidth%
327
              text centered%
328
              font=\large\bfseries%
329
             ] (sub) {\nohyphens{\kua@subtitle}};%
330
           \node%
331
332
             [ node distance=1pt%
333
             , above=of sub%
             , text width=\textwidth%
334
             , text centered%
335
              font=\LARGE\bfseries%
336
             337
         }%
338
         \node%
339
           [ node distance=\baselineskip%
340
           , below=of refstr%
341
342
            text width=\textwidth%
343
           , text centered%
344
            font=\large%
           [ \\nohyphens{\kua@reference}}\]
345
       ;%
346
     \end{tikzpicture}%
347
348 }
349
350 \newenvironment{kaupaper}[1][]{%
     \setcounter{kua@section}{\value{section}}%
351
     \setcounter{kua@equation}{\value{equation}}%
353
     \setcounter{kua@figure}{\value{figure}}%
     \setcounter{kua@table}{\value{table}}%
354
     \setcounter{section}{0}%
355
     \setcounter{equation}{0}%
356
     \setcounter{figure}{0}%
357
     \setcounter{table}{0}%
358
     \setkeys[kua] {paper}{subtitle=, vanity=, subdelimiter={---}, label=, summary={\string\textcolor-
359
     \setcounter{kua@paper}{\value{kup@part}}\stepcounter{kua@paper}%
360
361
     \ifthenelse{\equal{\kua@subtitle}{}}%
362
       {\addcontentsline{pap}{paper}{\kua@author. \kua@title. In \kua@reference}%
363
        \addcontentsline{toc}{part}{\textsc{\papername} \Roman{kua@paper}\\kua@title}}%
       364
365
        \addcontentsline{toc}{part}{\textsc{\papername} \Roman{kua@paper}\\\kua@title\kua@subdel:
     \addcontentsline{sum}{summary}{\string\subsection*{\papername~\Roman{kua@paper} -- \kua@tit:
366
     \ifthenelse{\equal{\kua@limitations}{}}{}{}
367
       \addcontentsline{sum}{limit}{\kua@limitations}}%
368
     \addcontentsline{pcp}{participation}{\string\paragraph{\papername~\Roman{kua@paper}}\kua@pa
369
370
     \kaupart[tocentry=false,label=\kua@label,body=\papercover\kua@vanity]{\papername}%
     \renewcommand*\thepaper{\papername~\Roman{kua@paper}}%
371
     \renewcommand*\thepapertitle{\kua@title}%
372
373
     \renewcommand\maketitle{%
374
       \time {thispagestyle{plain}} 
375
       \centering%
         \Large\bfseries%
376
```

\vspace*{0.15\textheight}%

377

```
\kua@title\par%
378
         \addvspace{1ex}%
379
         \label{large-kua@subtitle}{}{}{\large-kua@subtitle}%
380
381
          \par\addvspace{\baselineskip}%
382
          \normalsize%
          \kua@author\\[0.25\baselineskip]%
383
          \normalfont%
384
385
          \kua@email%
       \par\addvspace{2\baselineskip}\justifying%
386
     }%
387
388 }{%
     \setcounter{section}{\value{kua@section}}%
389
     \setcounter{equation}{\value{kua@equation}}%
390
     \setcounter{figure}{\value{kua@figure}}%
391
     \setcounter{table}{\value{kua@table}}%
392
     \clearpage%
393
394 }
395 \langle /paper \rangle
```

2.8 The kaustudies package

```
396 (*studies)
397 \RequirePackage{xkeyval}
399 \define@boolkey[kus]{pkg}[kus@]{tinyfontswitch}[true]{}
401 \presetkeys[kus]{pkg}{tinyfontswitch}{}
402 \ProcessOptionsX[kus] < pkg>
404 \RequirePackage[twoside]{geometry}
405 \RequirePackage[urw-garamond]{mathdesign}
406 \RequirePackage{garamondx}
408 \geometry
409 { paperwidth=165mm
    , paperheight=242mm
410
    , inner=27mm
411
     , outer=27mm
412
    , top=24mm
413
     , bottom=22mm
414
415
416
417 \ifkus@tinyfontswitch
     \let\kus@tiny@orig\tiny
     \renewcommand*\tiny{\sffamily\kus@tiny@orig}
420 \fi
421 (/studies)
```

2.9 The **kaulanguage** package

```
422 (*language)
423 \ProcessOptions\relax
424 \newif\ifbabel
425 \babelfalse
426 \AtBeginDocument{%
```

```
\@ifpackageloaded{babel}%
              427
                      {\babeltrue}%
              428
                      {\babelfalse}%
              429
              430 }
              {\langle macro\ name \rangle} {\langle english \rangle} {\langle swedish \rangle}
    \setname
              431 \newcommand\setname[3]{%
                   \IfFileExists{swedish.ldf}{%
                      \ifbabel%
              433
                        \expandafter\edef\csname #1\endcsname{\noexpand\iflanguage{swedish}{#3}{#2}}%
              434
              435
                        \expandafter\edef\csname #1\endcsname{#2}%
              436
              437
                   }%
              438
              439
                   {\expandafter\edef\csname #1\endcsname{#2}}%
              440 }
              441 (/language)
                       The pgfcropmarks package
               2.10
               No options are parsed.
              442 (*crop)
              443 \ProcessOptions\relax
              444 \RequirePackage{pgfpages}%
               No files are created or updated.
              445 \nofiles%
               Boolean, true on odd pages.
              446 \newif\if@kus@isodd%
              447 \@kus@isoddtrue%
\cropmarklen The length of the crop mark lines.
              448 \newlength{\cropmarklen}\setlength{\cropmarklen}{40pt}%
\cropmarksep
              The space between cropmark and paper edge.
              449 \newlength{\cropmarksep}\setlength{\cropmarksep}{15pt}%
               The cropmark page layout.
              450 \pgfpagesdeclarelayout{cropmarks}%
              451 {%
              452 }%
              453 {%
                   \pgfpagesphysicalpageoptions%
              454
              455
              456
                      logical pages=1,%
                     physical height=297mm,%
              457
                     physical width=210mm%
              458
              459
                   \pgfpageslogicalpageoptions{1}%
              460
              461
                     border code=%
              462
              463
                        \if@kus@isodd
                          \global\@kus@isoddfalse
              464
```

```
\pgfsetlinewidth{0.6pt}%
465
           \pgfusepath{discard}%
466
           \pgfmoveto{\pgfpoint{-\cropmarksep}{0pt}}%
467
             \pgflineto{\pgfpoint{-\cropmarklen}{0pt}}%
468
           \pgfmoveto{\pgfpoint{0pt}{-\cropmarksep}}%
469
             \pgflineto{\pgfpoint{0pt}{-\cropmarklen}}%
470
           \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{0pt}}%
471
              \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}{0pt}}%
472
           \protect{pgfpoint{paperwidth}{-\cropmarksep}}\%
473
474
              \pgflineto{\pgfpoint{\paperwidth}{-\cropmarklen}}%
           \pgfmoveto{\pgfpoint{-\cropmarksep}{\paperheight}}%
475
              \pgflineto{\pgfpoint{-\cropmarklen}{\paperheight}}%
476
           \pgfmoveto{\pgfpoint{0pt}{\paperheight+\cropmarksep}}%
477
              \pgflineto{\pgfpoint{0pt}{\paperheight+\cropmarklen}}%
478
479
           \pgfmoveto{\pgfpoint{\paperwidth}{\paperheight+\cropmarksep}}%
              \pgflineto{\pgfpoint{\paperwidth}{\paperheight+\cropmarklen}}%
480
           \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{\paperheight}}%
481
              \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}{\paperheight}}%
482
483
           \pgfusepath{stroke}%
484
         \else
485
           \global\@kus@isoddtrue
         \fi.%
486
       center=\pgfpoint{.5\pgfphysicalwidth}{.5\pgfphysicalheight}%
487
    }%
488
489 }%
Activate the cropmark page layout.
490 \pgfpagesuselayout{cropmarks}%
491 (/crop)
```

Change History

```
v1.0
                                                 General: Fixed babel.sty support . 1
   General: SBe's licentiate version . . 1
                                             v1.5
v1.1
                                                 General: Added templates for kau-
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v1.10
                                             v1.6
   General: Version bump without
                                                 General: Merged the styles' dtx
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v1.11
                                             v1.7
   General: Fixed missing file in babel
                                                 General: Added macros for supervi-
       support . . . . . . . . . . . . . . . . 1
                                                    sor and examiner in kaumeta . . 1
v1.2
   General: Support for babel.sty,
                                                 General: Added macros pretty
       Documentation added . . . . . . . 1
                                                     printing lists in kaulist
v1.3
                                             v1.9
                                                 General: Version bump without
   General: Merged the classes' dtx
                                                    changes . . . . . . . . . . . . . . . . 1
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