# The kautools bundle\*

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#### Abstract

The  ${\sf kautools}$  bundle provides tools (LATEX style files) for the  ${\sf kauthesis}$  bundle.

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# 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

<sup>\*</sup>This document corresponds to kautools v1.5, dated 2012/12/20.

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

and must be available in IATEX'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  $\setkautitlefont{\langle font\rangle}$ . The argument  $\langle font\rangle$  accepts key-value pairs where keys are normalfont and titlefont and values are any sequence of IATEX'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 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.

#### 1.4 The kauenvironments package

This package defines the environments researchquestions and contributions.

#### 1.5 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.

#### 1.6 The kaupaper package

Yet no description.

#### 1.7The 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.

#### 1.8 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.

#### $\mathbf{2}$ Implementation

### 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

```
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) {};
17
      \path (current page.south east) +(4pt,-4pt) node (SE) {};
18
      \path (current page.north west) +(-3pt,3pt) node (NWC) {};
19
      \path (current page.south east) +(3pt,-3pt) node (SEC) {};
      \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}};%
22
Subject in the upper left corner of the page.
      \path (current page.north west) node
         [shift={(10pt,-12pt)},anchor=south west,rotate=270
24
         ,font=\kut@normalfont\vphantom{Xy}]
25
        {\@subject};
26
Institute in the lower right corner of the page.
27
      \path (current page.south east) node
         [shift={(-8pt,6pt)},anchor=north east,rotate=270
28
         ,rounded corners,fill=black,text=white,inner sep=8pt
29
         ,font=\kut@normalfont\vphantom{Xy}]
30
31
        {\@shortinstitute};
Title bar on vertically centered on the left side of the page.
      \path
32
         (current page.east) node[shift={(-10,0)}] (A) {}
33
34
         (current page.east) node[shift={(0,-2.5)}] (B) {}
35
         [shading=axis,left color=white,right color=black] (A) rectangle (B.south east)
36
Author below the title bar.
      \path (B) node
37
38
         [anchor=north east
         ,inner sep=8pt
39
         ,text=black
40
         ,font=\kut@normalfont\vphantom{Xy}
41
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
```

The title page will consist of two background images (the Karlstad University

\maketitle

,text=yellow!75!red

,font=\kut@titlefont\vphantom{Xy}

,text width=14cm,text ragged left]

47

48 49

```
{\nohyphens{\@title}};
                               \end{tikzpicture}%
                          51
                               \clearpage%
                          52
                          53 }
                          54 \langle / \text{title} \rangle
                          2.2
                                 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
                          the long version (institute). The values are available in the macros \@institute
           \@institute
                          and \@shortinstitute.
     \@shortinstitute
                          60 \newcommand*\@institute{}
                          61 \newcommand*\@shortinstitute{}
                          62 \newcommand\institute[2][]{%
                               \renewcommand*\@institute{#2}%
                          63
                               \left\{ \frac{\#1}{}\right\} 
                          64
                                 \renewcommand*\@shortinstitute{#2}%
                          65
                          66
                          67
                                 \renewcommand*\@shortinstitute{#1}%
                          68
                               }%
                          69 }
                          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}}
                          72 \langle / meta \rangle
                          2.3
                                  The kauclear package
                          No options are parsed.
                          73 (*clear)
                          74 \ProcessOptions\relax
                          The page style is stored in \kuc@currentpagestyle. Default: plain
\kuc@currentpagestyle
                          75 \newcommand\kuc@currentpagestyle{plain}
```

50

```
The macro \pagestyle is redefined to update the page style in \kuc@currentpagestyle.
           \pagestyle
                        76 \let\pagestyle@orig\pagestyle
                        77 \renewcommand\pagestyle[1]{%
                            \renewcommand\kuc@currentpagestyle{#1}%
                        79
                            \pagestyle@orig{#1}%
                        80 }
                       The page style can be restored with \kuc@restorepagestyle after (temporarily)
\kuc@restorepagestyle
                        switching to another one using \pagestyle@orig.
                        81 \newcommand\kuc@restorepagestyle{%
                            \pagestyle@orig{\kuc@currentpagestyle}%
                        83 }
  \cleardoubpage@orig
                       The previous definition of \cleardoublepage is preserved in \cleardoublepage@orig.
                        84 \let\cleardoubpage@orig\cleardoublepage
                       The macro \cleardoublepage is redefined. The new definition switches tem-
     \cleardoublepage
                        porarily to the page style empty.
                        85 \renewcommand\cleardoublepage{%
                            \clearpage%
                            \pagestyle@orig{empty}%
                        87
                            \cleardoubpage@orig%
                        88
                        89
                            \kuc@restorepagestyle%
                        90 }
                        91 (/clear)
                              The kauenvironments package
                        No package options are parsed.
                        92 (*environments)
                        93 \ProcessOptions\relax
                        Load dependencies.
                        94 \RequirePackage{xspace}
                        95 \RequirePackage{xcolor}
                       The environment is an enumeration derived from enumerate. The argument of
    researchquestions
                        \ightharpoonup is used to formulate the research question.
                        96 \newenvironment{researchquestions}%
                        97
                            {\begin{enumerate}%
                              \let\kue@item\item%
                        98
                              \renewcommand\item[1][Research question]%
                        99
                                {\kue@item\emph{##1}\nopagebreak\par}%
                       100
                       101
                            {\end{enumerate}}%
        contributions The environment is an enumeration derived from enumerate. The argument of
                        \mathsf{(item[(}contrib\mathsf{)]} is used to formulate the contribution.
                       103 \newenvironment{contributions}%
                       104
                            {\begin{enumerate}%
                       105
                              \let\kue@item\item%
                              \renewcommand\item[1][%
                       106
```

## 2.5 The kauparts package

\kaupart

```
113 (*parts)
114 \RequirePackage{xkeyval}
116 \define@cmdkeys[kup] {pkg} [kup@] {vshift, vstep}
117 \setkeys[kup] {pkg} {vshift=2, vstep=0.8}
119 \ProcessOptionsX[kup] < pkg>
120
121 \RequirePackage{calc}
122 \RequirePackage{ifthen}
123 \RequirePackage{suffix}
124 \RequirePackage{tikz}
125 \usetikzlibrary{positioning}
127 \define@cmdkeys[kup]{part}[kup@]{body,label}
128 \define@boolkeys[kup] {part} [kup@] {tocentry}
129
130 \newcounter{kup@part}
131 \newcounter{kup@vertical}
132 \setcounter{kup@vertical}{0}
133
134 \newcommand\kup@partheadline[2]{%
              \path[node distance=1ex] (current page.north east) +(3pt,\kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vstep*\arabic{kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\kup@vshift+\ku
136
137
                         [ anchor=north east%
138
                         , minimum width=2cm+3pt\%
                        \%, minimum height=7mm\!\%
139
                        %, draw=black%
140
                        %, fill=black%
141
                         , left color=white%
142
143
                         , right color=black%
144
                         , text=white%
                         , font=\LARGE\bfseries%
145
                        ] (bar) {#1}%
147
                   node[base left=of bar,font=\LARGE\bfseries] {#2};%
148 }
149 \newcommand\kaupart[2][]{%
            \cleardoublepage%
151
             \thispagestyle{plain}%
152
             \stepcounter{kup@part}%
             \setkeys[kup]{part}{body=\relax,label=,tocentry=true,#1}%
153
             \ifkup@tocentry%
154
             \addcontentsline{toc}{part}{\numberline{\Roman{kup@part}}\textsc{#2}}%
```

```
\fi%
          156
               \renewcommand\@currentlabel{\Roman{kup@part}}%
          157
               158
               \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
          159
                 \kup@partheadline{\Roman{kup@part}}{#2}%
          160
               \end{tikzpicture}%
          161
               \kup@body
          162
               \stepcounter{kup@vertical}%
          163
               \cleardoublepage%
          164
          165 }
\kaupart*
          166 \WithSuffix\newcommand\kaupart*[2][]{%
               \cleardoublepage%
               \thispagestyle{plain}%
          169
               \setkeys[kup]{part}{body=\relax,tocentry=true,#1}%
          170
               \ifkup@tocentry%
                 \verb|\addcontentsline{toc}{part}{\text{textsc}{#2}}||
          171
          172
               \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
          173
                 \with {\tt Wup@partheadline{\tt wphantom{X}}{\#2}} % % {\tt wpmantom{X}} $$
          174
          175
               \end{tikzpicture}%
          176
               \kup@body
               \stepcounter{kup@vertical}%
          178
               \cleardoublepage%
          179 }
          180 (/parts)
                 The kaupaper package
           2.6
          181 (*paper)
          182 \RequirePackage{xkeyval}
          184 \define@cmdkeys[kua] {paper} [kua@] {author,title,subtitle,reference,email,refstr,vanity,subdelin
```

```
185 \setkeys[kua]{paper}{refstr={Reprinted from}}
186
187 \ProcessOptionsX[kua] <paper>
188
189 \RequirePackage{kauparts}
190 \RequirePackage{ifthen}
191 \RequirePackage{tikz}
192
193 \RequirePackage{ragged2e}
194 \RequirePackage{hyphenat}
196 \newcounter{kua@section}
197 \newcounter{kua@equation}
198 \newcounter{kua@figure}
199 \newcounter{kua@table}
201 \newcounter{kua@paper}
203 \providecommand\thepaper{}
204 \providecommand\thepapertitle{}
```

```
206 \newcommand\kua@warning\relax
              207 \newcommand\kua@dowarn{\gdef\kua@warning{\@latex@warning@no@line{List data created from the ka
              208 \AtEndDocument{\kua@warning}
              210 \newcommand\kua@listof[4]{%
                    \IfFileExists{\jobname.#1}%
              211
              212
                      {% check whether empty file
              213
                        \newread\reader%
                        \openin\reader\jobname.#1%
              214
                        \read\reader to \readmacro%
              215
                        \ifeof\reader%
              216
                          \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
              217
                          \@starttoc{#1}%
              218
                          %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
              219
                          \kua@dowarn%
              220
                        \else% file not empty -> create list
              221
              222
                          #3\@starttoc{#1}#4%
              223
                        \fi%
                      }%
              224
                      {% file does not exist
              225
                        \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
              226
                        \@starttoc{#1}%
              227
                        %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
              228
              229
                        \kua@dowarn%
                      }%
              230
              231 }
\listofpapers
              232 \newcommand\listofpapers{\%}
                   \section*{List of Appended Papers}%
                    \addcontentsline{toc}{section}{List of Appended Papers}%
              234
                    \kua@listof{pap}{appended papers}{%
              235
                      \begin{enumerate}%
              236
                      \renewcommand\theenumi{\textbf{\Roman{enumi}}}%
              237
                    }{\end{enumerate}}%
                    \subsection*{Comments on my Participation}
                    \kua@listof{pcp}{participation in appended papers}{}{}%
              240
              241 }
              242
              243 \newcommand \l@paper [2] {\%}
                   \item #1%
              244
              245 }
              246
              247 \newcommand\listofsummaries{%
                    \kua@listof{sum}{paper summaries}{}{}%
              249 }
              250
              251 \newcommand\l@summary[2]{%
              252
                    #1\par%
              253 }
              254
              255 \newcommand\l@limit[2]{%
                   %\paragraph{Limitations.}
```

205

```
#1%
257
258 }
259
260 \newcommand\l@participation[2]{%
261
     #1%
262 }
263
   \newcommand\papercover{%
     \begin{tikzpicture}[remember picture, overlay]%
265
       \path (current page.center)%
266
         node%
267
            [ node distance=\baselineskip%
268
            , text width=\textwidth%
269
             text centered%
270
            ] (refstr) {\kua@refstr};%
271
         \left( \sum_{k=0}^{kua@subtitle}{}\right) {% }
272
273
274
              [ node distance=1.5\baselineskip%
275
              , above=of refstr%
276
              , text width=\textwidth%
277
              , text centered%
               font=\LARGE\bfseries%
278
              ] {\nohyphens{\kua@title}};%
279
         }{%
280
281
            \node%
              [ node distance=1.5\baselineskip%
282
              , above=of refstr%
283
              , text width=\text{textwidth}\%
284
285
              , text centered%
              , font=\large\bfseries%
286
             ] (sub) {\nohyphens{\kua@subtitle}};%
287
288
           \node%
              [ node distance=1pt%
289
              , above=of sub%
290
              , text width=\text{textwidth}\%
291
292
              , text centered%
293
               font=\LARGE\bfseries%
294
              [ ] {\nohyphens{\kua@title}};%
         }%
295
296
         \node%
            [ node distance=\baselineskip%
297
298
            , below=of refstr%
            , text width=\textwidth%
299
            , text centered%
300
            , font=\large%
301
            302
       ;%
303
     \end{tikzpicture}%
304
305 }
307 \newenvironment{kaupaper}[1][]{%
     \setcounter{kua@section}{\value{section}}%
308
     \setcounter{kua@equation}{\value{equation}}%
309
     \setcounter{kua@figure}{\value{figure}}%
310
```

```
\setcounter{kua@table}{\value{table}}%
311
           \setcounter{section}{0}%
312
           \setcounter{equation}{0}%
313
           \setcounter{figure}{0}%
314
           \setcounter{table}{0}%
315
           \setkeys[kua]{paper}{subtitle=,vanity=,subdelimiter={---},label=,summary={\string\textcolor-
           \setcounter{kua@paper}{\value{kup@part}}\stepcounter{kua@paper}%
317
           \ifthenelse{\equal{\kua@subtitle}{}}%
318
                {\addcontentsline{pap}{paper}{\kua@author. \kua@title. In \kua@reference}%
319
                  \addcontentsline{toc}{part}{\textsc{Paper} \Roman{kua@paper}\\kua@title}}%
320
               {\downward} {\do
321
                  \addcontentsline{toc}{part}{\textsc{Paper} \Roman{kua@paper}\\kua@title\kua@subdelimite:
322
           \addcontentsline{sum}{summary}{\string\subsection*{Paper~\Roman{kua@paper} -- \kua@title}\ki
323
           \ifthenelse{\equal{\kua@limitations}{}}{}{}
324
               \addcontentsline{sum}{limit}{\kua@limitations}}%
325
           \addcontentsline{pcp}{participation}{\string\paragraph{Paper~\Roman{kua@paper}}\kua@particip
326
           \kaupart[tocentry=false,label=\kua@label,body=\papercover\kua@vanity]{Paper}%
327
           \renewcommand*\thepaper{Paper \Roman{kua@paper}}%
328
           \renewcommand*\thepapertitle{\kua@title}%
329
330
           \renewcommand\maketitle{%
331
               \thispagestyle{plain}%
                \centering%
332
                    \Large\bfseries%
333
                    \vspace*{0.15\textheight}%
334
335
                    \kua@title\par%
336
                    \addvspace{1ex}%
                    \ifthenelse{\equal{\kua@subtitle}{}}{\large\kua@subtitle}%
337
                    \par\addvspace{\baselineskip}%
338
                    \normalsize%
339
340
                    \kua@author\\[0.25\baselineskip]%
341
                    \normalfont%
342
                    \kua@email%
                \par\addvspace{2\baselineskip}\justifying%
343
          ጉ%
344
345 }{%
           \setcounter{section}{\value{kua@section}}%
346
           \setcounter{equation}{\value{kua@equation}}%
347
           \setcounter{figure}{\value{kua@figure}}%
           \setcounter{table}{\value{kua@table}}%
350
           \clearpage%
351 }
352 \langle /paper \rangle
                The kaustudies package
353 (*studies)
```

```
353 \*studies\
354 \RequirePackage{xkeyval}
355
356 \define@boolkey[kus]{pkg}[kus@]{tinyfontswitch}[true]{}
357
358 \presetkeys[kus]{pkg}{tinyfontswitch}{}
359 \ProcessOptionsX[kus] < pkg>
360
361 \RequirePackage[twoside]{geometry}
```

```
362 \RequirePackage[urw-garamond]{mathdesign}
             363
             364 \geometry
                 { paperwidth=165mm
             365
                 , paperheight=242mm
             366
                  , inner=27mm
                 , outer=27mm
             369
                  , top=24mm
                  , bottom=22mm
             370
             371
                  }
             372
             373 \ifkus@tinyfontswitch
                  \let\kus@tiny@orig\tiny
             374
                  \renewcommand*\tiny{\sffamily\kus@tiny@orig}
             375
             376 \fi
             377 (/studies)
              2.8
                    The pgfcropmarks package
              No options are parsed.
             378 (*crop)
             379 \ProcessOptions\relax
             380 \RequirePackage{pgfpages}%
              No files are created or updated.
             381 \nofiles%
              Boolean, true on odd pages.
             382 \newif\if@kus@isodd%
             383 \@kus@isoddtrue%
\cropmarklen The length of the crop mark lines.
             384 \end{{\tt cropmarklen}}\
             The space between cropmark and paper edge.
\cropmarksep
             385 \newlength{\cropmarksep}\setlength{\cropmarksep}{15pt}%
              The cropmark page layout.
             386 \pgfpagesdeclarelayout{cropmarks}%
             387 {%
             388 }%
             389 {%
                  \verb|\pgfpagesphysicalpageoptions||
             390
             391
                    logical pages=1,%
             392
                    physical height=297mm,%
             393
             394
                    physical width=210mm%
             395
                  \pgfpageslogicalpageoptions{1}%
             396
             397
                    border code=%
             398
                      \if@kus@isodd
             399
                         \global\@kus@isoddfalse
             400
                         \pgfsetlinewidth{0.6pt}%
             401
                         \pgfusepath{discard}%
             402
```

```
\pgfmoveto{\pgfpoint{-\cropmarksep}{0pt}}%
403
                                      \pgflineto{\pgfpoint{-\cropmarklen}{0pt}}%
404
                                \pgfmoveto{\pgfpoint{0pt}{-\cropmarksep}}%
405
                                      \pgflineto{\pgfpoint{0pt}{-\cropmarklen}}%
406
                                \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{0pt}}%
407
                                      \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}{0pt}}%
408
                                \pgfmoveto{\pgfpoint{\paperwidth}{-\cropmarksep}}%
409
410
                                      \pgflineto{\pgfpoint{\paperwidth}{-\cropmarklen}}%
411
                                \pgfmoveto{\pgfpoint{-\cropmarksep}{\paperheight}}%
412
                                      \pgflineto{\pgfpoint{-\cropmarklen}{\paperheight}}%
                                \pgfmoveto{\pgfpoint{0pt}{\paperheight+\cropmarksep}}%
413
                                      \pgflineto{\pgfpoint{0pt}{\paperheight+\cropmarklen}}%
414
                                \verb|\pgfmoveto{\pgfpoint{\paperwidth}{\paperheight+\cropmarksep}}||% \cline{Comparison}||% \cline{Comparison}|
415
                                      \pgflineto{\pgfpoint{\paperwidth}{\paperheight+\cropmarklen}}%
416
                                \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{\paperheight}}%
417
                                      \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}{\paperheight}}%
418
                                \pgfusepath{stroke}%
419
420
                          \else
421
                                \global\@kus@isoddtrue
422
                          \fi,%
                    center=\pgfpoint{.5\pgfphysicalwidth}{.5\pgfphysicalheight}%
423
            }%
424
425 }%
  Activate the cropmark page layout.
426 \pgfpagesuselayout{cropmarks}%
427 (/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                                 |
| v1.2                                | General: Added templates for kau-    |
| General: Support for babel.sty,     | collection and kaureport 1           |
| Documentation added 1               | v1.6                                 |
| v1.3                                | General: Merged the styles' dtx      |
| General: Merged the classes' dtx    | files 1                              |

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