The korigamik class *

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Abstract

The KorigamiK class is used for typesetting documents for university or school projects and lab reports. It is based on the article class with modifications to allow for more flexible front-matter among other changes.

1 Usage

==== Put descriptive text here. ====

\dummyMacro

This macro does nothing. It is merely an example. If this were a real macro, you would put a paragraph here describing what the macro is supposed to do, what its mandatory and optional arguments are, and so forth.

dummyEnv (env.)

This environment does nothing. It is merely an example. If this were a real environment, you would put a paragraph here describing what the environment is supposed to do, what its mandatory and optional arguments are, and so forth.

2 Implementation

The implementation of the korigamik class is given below.

Derive your class from the article class.

- 1 \LoadClass[12pt]{article}
- 2 \RequirePackage [a4paper,margin=1in,tmargin=1.5in] {geometry}

Required packages

- 3 \RequirePackage{tikz,color,hyperref,graphicx}
- 4 \usetikzlibrary{positioning,calc}

Font settings

- 5 \RequirePackage[T1]{fontenc}
- 6 \RequirePackage{lmodern} % modernized version of the Computer Modern font family
- 7 \RequirePackage[sc]{mathpazo} % small caps option (sc)
- 8 \RequirePackage{textcomp} % provides additional symbols and text companion fonts.
- 9 \RequirePackage[protrusion=true,expansion=false] {microtype} % enabling character protrusion) (

Page layout

- 10 \RequirePackage{fancyhdr}
- 11 \fancypagestyle{firstpage}{%
- 12 \fancyhf{} % clear all six fields
- 13 \renewcommand{\headrulewidth}{0pt}
- 14 \renewcommand{\footrulewidth}{0pt}
- 15 }
- $16 \fancypagestyle{followingpage}{\{}$
- 17 \fancyhf{} % clear all six fields
- 18 $\fancyhead[LO, L]{\qheader}$
- 19 \fancyhead[R0] {\nouppercase\leftmark}
- 20 \fancyhead[R] {\nouppercase\leftmark}
- 21 \setlength{\headheight}{15pt}

^{*}This file describes version v1.10, last revised 2023/06/24.

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```
22 \fancyfoot{}
            23 fancyfoot[L,L0]{\hfill\thepage\hfill}
            24 }
            26 \pagestyle{followingpage}
            {\tt 27 \ AtBeginDocument{\thispagestyle{firstpage}}}
            \linkcolour This macro defines the colour of the hyperlinks.
            29 \definecolor{linkcolour}{rgb}{0.286,0.286,0.286}
               Configurations
            30 \newcommand*{\@rollno}{<rollno>}
            31 \newcommand*{\rollno}[1]{ \renewcommand*{\@rollno}{#1} }
            32 \newcommand*{\@subject}{<subject>}
            33 \newcommand*{\subject}[1]{ \renewcommand*{\@subject}{#1} }
            34 \newcommand*{\@keywords}{<keywords>}
            35 \newcommand*{\keywords}[1]{ \renewcommand*{\@keywords}{#1} }
            36 \newcommand*{\@logoimagepath}{}
            37 \mbox{ } \mbox{0logoimagescale}{0.5}
            38 \newcommand*{\@logolabel}{<Logo label>}
            39 \newcommand*{\logoimage}[3]{ \renewcommand*{\@logoimagepath}{#1}}
                                             \renewcommand*{\@logoimagescale}{#2}
            40
                                             \renewcommand*{\@logolabel}{#3} }
            41
            42 \newcommand*{\@titlelabel}{<Something here>}
            43 \newcommand*{\titlelabel}[1]{ \renewcommand*{\@titlelabel}{#1} }
            44 \newcommand*{\@semester}{<semester>}
            45 \newcommand*{\semester}[1]{ \renewcommand*{\@semester}{#1} }
            46 \newcommand*{\@header}{<header>}
            47 \newcommand*{\header}[1]{ \renewcommand*{\@header}{#1} }
            48 \newcommand*{\@bottomnote}{<bottom note>}
            49 \newcommand*{\bottomnote}[1]{ \renewcommand*{\@bottomnote}{#1} }
            50 \newcommand*{\@course}{<course>}
            51 \ensuremath{\course}[1]{ \ensuremath{\course}{\#1} }
               Hyperref settings
            52 \hypersetup{ colorlinks,breaklinks,
            53 linkcolor=linkcolour,citecolor=linkcolour,
            54 filecolor=linkcolour, urlcolor=linkcolour,
            55 pdftitle={\@title}, pdfauthor={\@author}
               pdfsubject={\@subject}, pdfkeywords={\@keywords}, }
   \square This is a macro that draws a square.
            57 \newcommand{\square}{
            58 \begin{tikzpicture}
            59 \operatorname{draw} (0,0) -- (1,0) -- (1,1) -- (0,1) -- (0,0);
            60 \end{tikzpicture}
            61 }
\maketitle This is the macro that actually typesets the title page.
            62 \renewcommand{\maketitle}{%
            63 \newgeometry{tmargin=1in,bmargin=.5in}
            64 \makeatletter
            65 \begin{titlepage}
            66 \begin{center}
            67 \begin{flushright}
            68 \ifx\@logoimagepath\empty
            69 \square
            70 \\<your logo here>
            71 \else
            72 \includegraphics[scale=\@logoimagescale]{\@logoimagepath}
            73 \Large {\\ \textbf{\@logolabel}}
            75 \end{flushright}
```

```
76 \end{center}
 77 \vfill
 78
 79 \noindent\begin{tikzpicture}
 80 \node[
 81 text width=\textwidth-2cm,
 82 align=left,
 83 font=\fontsize{30}{30}\selectfont\scshape,
 84 inner xsep=.5cm
 85 ] (x) {\@title};
 86 \draw (x.north west) node[
 87 draw,
 88 above right=1cm and Opt,
 89 font=\LARGE,
 90 inner sep=.2cm
 91 ] (y) {\textsc{\@titlelabel}};
 92 \draw (y.south west) -- ($(x.south west) + (0,-1)$);
 93 \end{tikzpicture}
 94
 95 \vspace*{2cm}
 96 \begin{center}
 97 \begin{minipage}{\textwidth}
 98 \begin{tabular}[h]{1 1}
            & \textbf{\@author}
                                           //
99 Name
100 \ifx\@rollno\empty
101 \else
102 Roll No. & \textbf{\textit{\@rollno}} \\
103 \fi
104 \ifx\@semester\empty
105 \ensuremath{\setminus} else
106 Semester & \textbf{\@semester}
                                           11
107 \fi
108 \ifx\@course\empty
109 \ensuremath{\setminus} \text{else}
110 Course
           & \textbf{\textit{\@course}} \\
111 \fi
112 \end{tabular}
113 \end{minipage}
114 \end{center}
115 \vfill
116
117 \begin{center}
118 \textsc{\large \@bottomnote}\\[0.4cm]
119 {\large \today}
120 \end{center}
121
122 \end{titlepage}
123 \makeatother
124 \restoregeometry
125 }
    Define new sectioning commands
126 \renewcommand\section{\@startsection {section}{1}{\z@}%
127 {-3.5ex \@plus -1ex \@minus -.2ex}%
    {2.3ex \@plus.2ex}%
    {\normalfont\Large\raggedright}}
130 \renewcommand\subsection{\Qstartsection{subsection}{2}{\zQ}%
131 {-3.25ex\@plus -1ex \@minus -.2ex}%
133 {\normalfont\large\raggedright}}
134 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
135 {-3.25ex\@plus -1ex \@minus -.2ex}%
136 {1.5ex \@plus .2ex}%
137 {\normalfont\normalsize\raggedright}}
```

```
138 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
139 {3.25ex \@plus1ex \@minus.2ex}%
140 {-1em}%
141 {\normalfont\normalsize\itshape}}
142 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
143 {3.25ex \@plus1ex \@minus .2ex}%
144 {-1em}%
145 {\normalfont\normalsize\itshape}}
147 \newcommand\tpj@deflogo{\@dblarg\tpj@@deflogo}
149 \newcommand\tpj@@deflogo[3][\@nil]{%
150 \expandafter\DeclareRobustCommand\csname#2\endcsname{#3}%
151 \pdfstringdefDisableCommands{%
152 \expandafter\def\csname#2\endcsname{#1}}}
    Define some logos
153 \makeatletter
154 \tpj@deflogo{TeX}{T\kern-.15em\lower.5ex\hbox{E}\kern-.07em X\spacefactor1000\relax}
\label{logo} $$155 \neq 0.76}_{A}}\kern-.32em\raise.37ex\hbox{\calebox{0.76}{A}}\kern-.15em\TeX}$
156 \tpj@deflogo{LaTeXe}{\LaTeX2$_{\textstyle\varepsilon}$}
157 \tpj@deflogo{BibTeX}{B{\textsc i\kern-.025em\textsc b}\kern-.08em\TeX}
158 \DeclareRobustCommand\logofamily{%
159 \not@math@alphabet\logofamily\relax
160 \fontencoding{U}\fontfamily{logo}\selectfont}
161 \DeclareTextFontCommand{\textlogo}{\logofamily}
162 \tpj@deflogo[MetaFont]{MF}{\textlogo{META}\@dischyph\textlogo{FONT}\@}
163 \tpj@deflogo[MetaPost]{MP}{\textlogo{META}\@dischyph\textlogo{POST}\@}
164 \tpj@deflogo{ConTeXt}{C\kern-.03em on\-\kern-.10em\TeX\kern-0.04em t}%
165 \tpj@deflogo{pdfTeX}{pdf\/\TeX}
166 \tpj@deflogo{pdfLaTeX}{pdf\/\LaTeX}
167 \makeatother
    Lists
    Save the original itemize, enumerate, and description environments
168 \let\originalItemize\itemize
169 \let\originalEndItemize\enditemize
170 \let\originalEnumerate\enumerate
171 \let\originalEndEnumerate\endenumerate
172 \let\originalDescription\description
173 \let\originalEndDescription\enddescription
    Redefine the itemize environment
174 \renewenvironment{itemize}
175 {\originalItemize\parskip=0pt}
176 {\originalEndItemize}
    Redefine the enumerate environment
177 \renewenvironment{enumerate}
178 {\originalEnumerate\parskip=0pt}
179 {\originalEndEnumerate}
    Redefine the description environment
180 \renewenvironment{description}
181 {\originalDescription\parskip=0pt\parindent=1.8em}
182 {\originalEndDescription}
    Define aliases for itemize and enditemize
183 \let\itemise\itemize
184 \let\enditemise\enditemize
    Redefine the label for the first level of itemize
185 \renewcommand\labelitemi{\normalfont\bfseries\textendash}
    Redefine the label for the second level of itemize
186 \verb|\command\labelitemii{\normalfont\bfseries\textperiodcentered}|
```

Redefine the label for the description environment
187 \renewcommand*\descriptionlabel[1]{\hspace\labelsep 188 \normalfont\itshape #1}
Table of Contents
189 \renewcommand*\contentsname{\centering \Huge Index \vskip 1cm} 190 \setcounter{tocdepth}{3} % Set the depth of the table of contents
191 \endinput

3 Change History

v1.00	v1.10
	General: Added documentation and
General: First public release	fixed bugs