# Markdown

One Template to rule them all

A template for all your markdown needs. Creating beautiful documents and slides by only using markdown.

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## 1 Markdown Template

One Template to rule them all A template for all your markdown needs. Creating beautiful documents and slides by only using markdown.

#### 2 Features

- · Beautiful title page
- · Table of contents
- Bibliography
- Full markdown support
- · Easy to use
- · Easy to extend

## 3 Usage

Write your document in the main. md file. Then compile it using the Makefile. You can use all features of markdown in this file. For a detailed description of the markdown syntax see the markdown guide or the markdown cheat-sheet.

In addition to the markdown syntax you can also use LaTeX commands in your document. For example you can use \newpage to enforce a page break or \cite to quote a source from a bibliography file. For a detailed description of the LaTeX syntax see the LaTeX Wikibook or the LaTeX cheat-sheet.

Presentations can be created in the slides.md. In contrast to the main document, it does not support LaTeX commands. But you can use all Markdown features in combination with CSS.

#### 3.1 Compiling

After you finished writing your document you can compile it to a PDF file using make.

#### 4 Setup

To automatically install all dependencies use the Makefile.

```
1 make setup
```

For editing, we recommend using Visual Studio Code. It is a free and open source text editor, that can be customized with extensions to fit your needs. We recommend the following extensions.

- Code Spell Checker
- Excel to Markdown table
- Image preview
- Markdown All in One
- Markdown Shortcuts
- Markdown+Math
- Marp for VS Code
- Prettier Code formatter
- Todo Tree

#### 4.1 Windows

If you are using Windows you can use Chocolatey[1] to install the dependencies through the command line. If you don't have Chocolatey installed already, you can install it by following the instructions on the Chocolatey website[1].

```
1 # Chocolatey2 choco install pandoc miktex strawberryperl make nodejs3 npm install
```

It is also possible to install the dependencies manually.

- Pandoc[2]
- MiKTeX[3]
- Strawberry Perl[4]
- Make[5]
- Node.js

#### 4.2 Linux

If you are using Linux you can use the package manager of your distribution to install the dependencies. The following examples are for Debian based distributions like Ubuntu.

```
1 # Debian/Ubuntu
2 sudo apt update
3 sudo apt-get install pandoc texlive-full perl make nodejs
4 npm install
```

It is also possible to install the dependencies manually.

- Pandoc[2]
- TeX Live[6]
- Perl[7]
- Make[8]
- Node.js

### 5 Customization

#### **5.1 Pandoc Options**

You can customize the template by changing the pandoc options in the Makefile. Some examples are given below.

```
pandoc -o output.pdf input.md --template assets/eisvogel.tex
3 # favorite template for general purpose
4 pandoc -o output.pdf .main.md --template assets/eisvogel.tex --listings
6 # optional highlight style to use instead of --listings
7 # to get a list of all available styles, use: pandoc --list-highlight-
      stvles
8 pandoc -o output.pdf .main.md --template assets/eisvogel.tex --
      highlight-style kate
9
10 # favorite template for bigger scientific documents
pandoc -o output.pdf .main.md --template assets/eisvogel.tex --listings
       --toc --toc-depth 2 --number-sections
12
13 # special options for setting a book
14 pandoc -o output.pdf .main.md --template assets/eisvogel.tex --listings
       --toc --toc-depth 2 --number-sections -V book -V classoption=
      oneside --top-level-division=chapter
```

- -o output.pdf: output file is output.pdf
- input.md: input file is input.md
- --template assets/eisvogel.tex: use eisvogel.tex[9] as template
- --listings: use listings package for code highlighting
- --top-level-division=chapter: use chapters instead of sections
- -- toc: generate table of contents
- --toc-depth 2: set depth of table of contents to 2

#### **5.2 Template Variables**

You can customize the template by changing the front matter of the main.md file. The following options are available.

titlepage (defaults to false)
 turns on the title page when true

titlepage-color

the background color of the title page. The color value must be given as an HTML hex color like D8DE2C without the leading number sign (#). When specifying the color in YAML, it is advisable to enclose it in quotes like so titlepage-color: "D8DE2C" to avoid the truncation of the color (e.g. 000000 becoming 0).

titlepage-text-color (defaults to 5F5F5F)
 the text color of the title page

titlepage-rule-color (defaults to 435488)
 the color of the rule on the top of the title page

titlepage-rule-height (defaults to 4)
 the height of the rule on the top of the title page (in points)

• titlepage-logo

path to an image that will be displayed on the title page. The path is always relative to where pandoc is executed. The option --resource-path has no effect.

· titlepage-background

the path to a background image for the title page. The background image is scaled to cover the entire page. In the examples folder under titlepage-background are a few example background images.

page-background

the path to a background image for any page. The background image is scaled to cover the entire page. In the examples folder under page-background are a few example background images.

page-background-opacity (defaults to 0.2)
 the background image opacity

caption-justification (defaults to raggedright)
 justification setting for captions (uses the justification parameter of the caption package)

toc-own-page (defaults to false)
 begin new page after table of contents, when true

listings-disable-line-numbers (defaults to false)
 disables line numbers for all listings

listings-no-page-break (defaults to false)
 avoid page break inside listings

disable-header-and-footer (default to false)
 disables the header and footer completely on all pages

header-left (defaults to the title)
 the text on the left side of the header

header-center

the text in the center of the header

header-right (defaults to the date)
 the text on the right side of the header

footer-left (defaults to the author)
 the text on the left side of the footer

• footer-center

the text in the center of the footer

footer-right (defaults to the page number)
 the text on the right side of the footer

footnotes-pretty (defaults to false)
 prettifies formatting of footnotes (requires package footmisc)

• footnotes-disable-backlinks (defaults to false)

disables making the reference from the footnote at the bottom of the page into a link back to the occurrence of the footnote in the main text (enabling requires package footnotebackref).

book (defaults to false)
 typeset as book

logo-width (defaults to 35mm)

the width of the logo. One needs to specify the width with a (TeX) unit e.g. 100pt or 35mm. The following units can be used:

- pt: Point
- pc: pica (12 pt)
- in: inch (72.27 pt)
- bp: Big point (72 bp = 1 in)
- cm: Centimeter
- mm: Millimeter
- dd: Didot point
- cc: cicero (12 dd)
- sp: Scaled point (65,536 sp = 1 pt)
- ex: Nomimal x-height
- em: Nominal m-width
- px: Pixel (only for pdfTeX and LuaTeX) The dimension given to the \pdfpxdimen primitive; default value is 1 bp, corresponding to a pixel density of 72 dpi.

A visual overview of the length units is available at https://github.com/tweh/tex-units.

• first-chapter (defaults to 1)

if typesetting a book with chapter numbers, specifies the number that will be assigned to the first chapter

• float-placement-figure (defaults to H)

Reset the default placement specifier for figure environments to the supplied value e.g. htbp. The available specifiers are listed below. The first four placement specifiers can be combined.

- 1. h: Place the float here, i.e., approximately at the same point it occurs in the source text.
- 2. t: Place the float at the *top* of the page.
- 3. b: Place the float at the *bottom* of the page.
- 4. p: Place the float on the next page that will contain only floats like figures and tables.
- 5. H: Place the float *HERE* (exactly where it occurs in the source text). The H specifier is provided by the float package and may not be used in conjunction with any other placement specifiers.
- table-use-row-colors (defaults to false)

enables row colors for tables. The default value is **false** because the coloring extends beyond the edge of the table and there is currently no way to change that.

code-block-font-size (defaults to \small)

LaTeX command to change the font size for code blocks. The available values are \tiny, \scriptsize, \footnotesize, \small, \normalsize, \large, \Large, \Large, \Large, \huge and \Huge. This option will change the font size for default code blocks using the verbatim environment and for code blocks generated with listings.

# **6 Credits**

- Pandoc[10]
- LaTeX[11]
- Eisvogel Template[9]

#### References

[1] choco, "Chocolatey - The package manager for Windows." [Online]. Available: https://chocolatey.org/

- [2] Pandoc, "Pandoc Installing pandoc." [Online]. Available: https://pandoc.org/installing.html
- [3] MiKTeX, "Getting MiKTeX." [Online]. Available: https://miktex.org/download
- [4] Perl, "Strawberry Perl for Windows." [Online]. Available: https://strawberryperl.com/
- [5] GNUwin, "Make for Windows." [Online]. Available: https://gnuwin32.sourceforge.net/packages/make.htm
- [6] TeXLive, "TeX Live TeX Users Group." [Online]. Available: https://www.tug.org/texlive/
- [7] Perl, "Perl Download www.perl.org." [Online]. Available: https://www.perl.org/get.html
- [8] GNU, "Make GNU Project Free Software Foundation." [Online]. Available: https://www.gnu.org/software/make/
- [9] P. Wagler, "Wandmalfarbe/pandoc-latex-template," Jan. 2024. [Online]. Available: https://github.com/Wandmalfarbe/pandoc-latex-template
- [10] Pandoc, "Pandoc index." [Online]. Available: https://pandoc.org/
- [11] LaTeX, "LaTeX A document preparation system." [Online]. Available: https://www.latex-project.org/