

SAD*

Simply Awesome Documents

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1 Idea

Wouldn't it cool to use the power of \LaTeX with the ease of writing a Markdown file and some json?

Pandoc makes at least the first part. So hacking together some Python to take part of the second was just a logical consequence.

*Thanks go out to John MacFarlane for pandoc

2 How to set Up

2.1 settings.json

There is a global settings.json, which goes into the same directory as the main.py.

2.2 user_settings.json

There can be a user_settings.json in the working directory, which overwrites the global settings.

2.3 settings.json example:

```
{
  "replacements":{
    "foo":"bar",
  },
  "variables":{
    "mainfont": "Linux Libertine O",
    "sansfont": "Linux Biolinum"
  },
  "extensions":["yaml_metadata_block"],
  "options":{
    "numbered_headings":"True",
    "toc":"True"
  },
  "loglevel":"DEBUG",
  "files": [
    {
      "in_file":"README.md",
      "out_file":"out.pdf",
      "template":"templates/shortcuts.tex"
    }
  ]
}
```

In detail:

2.3.1 replacements:

foo gets replaced by *bar* before calling pandoc, thats how I made the keyboard symbols using a set of replacements and Biolinum Keyboard font.

2.3.2 variables:

Variables for Pandoc PDF generation using Xe_{La}TeX:

papersize paper size, e.g. *letter*, *a4*

fontsize size for body text (e.g. *10pt*, *12pt*)

documentclass document class, e.g. *article*, *report*, *book*, *memoir*

classoption option for document class, e.g. *oneside*; may be repeated for multiple options

geometry option for geometry package, e.g. *margin=1in*; may be repeated for multiple options

margin-left, **margin-right**, **margin-top**, **margin-bottom** sets margins, if geometry is not used (otherwise geometry overrides these)

linestretch adjusts line spacing using the setspace package, e.g. 1.25, 1.5

mainfont, **sansfont**, **monofont**, **mathfont**, **CJKmainfont** font families for use with xelatex or lualatex: take the name of any system font, using the fontspec package. Note that if CJKmainfont is used, the xecjk package must be available.

mainfontoptions, **sansfontoptions**, **monofontoptions**, **mathfontoptions**, **CJKoptions** options to use with mainfont, sansfont, monofont, mathfont, CJKmainfont in xelatex and lualatex. Allow for any choices available through fontspec, such as the OpenType features *Numbers=OldStyle*, *Numbers=Proportional*. May be repeated for multiple options.

microtypeoptions options to pass to the microtype package

colorlinks add color to link text; automatically enabled if any of *linkcolor*, *citecolor*, *urlcolor*, or *toccolor* are set

linkcolor, **citecolor**, **urlcolor**, **toccolor** color for internal links, citation links, external links, and links in table of contents: uses options allowed by xcolor, including the *dvipnames*, *svgnames*, and *x11names* lists

links-as-notes causes links to be printed as footnotes

indent uses document class settings for indentation (the default LaTeX template otherwise removes indentation and adds space between paragraphs)

subparagraph disables default behavior of LaTeX template that redefines (sub)paragraphs as sections, changing the appearance of nested headings in some classes

thanks specifies contents of acknowledgments footnote after document title.

toc-depth level of section to include in table of contents

secnumdepth numbering depth for sections, if sections are numbered

bibliography bibliography to use for resolving references

biblio-style bibliography style, when used with *-natbib* and *-biblatex*.

biblio-title bibliography title, when used with *-natbib* and *-biblatex*.

biblatexoptions list of options for biblatex.

natbiboptions list of options for natbib.

pagestyle An option for LaTeX's *pagestyle*. The default article class supports *plain* (default), *empty*, and *headings*; *headings* puts section titles in the header.

Warning: I didn't test all the variables, the way the script works is just giving them to Pandoc, so you probably better try it before.

2.3.3 extensions

Adds Pandoc extensions to the call to Pandoc, by default *yaml_metadata_block* is set.

2.3.4 options

The part of the default *settings.json*, just to show you the possible options

```
{  
  "numbered_headings": "True",  
  "toc": "False",  
  "lof": "False",  
  "lot": "False",  
  "verbose": "False"  
},
```

2.3.5 loglevel

Sets the log level, possible values are *CRITICAL,ERROR,WARNING,INFO,DEBUG*. Default is *INFO*

2.3.6 files

Sets input file, outputfile and template(optional).

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T I L L O