

Markdown to Presentation

DigitalizeIT GmbH

Goal Convert `md` (Markdown) files to a presentation.

By using `pandoc`.

Pandoc is a very powerful tool and can convert almost any document format to another document format.

For all options run `pandoc --help` or checkout [Pandoc User's Guide](#)

On Debian/Ubuntu based distributions install following software

```
sudo apt-get install pandoc  
sudo apt-get install texlive-latex-base
```

If there should be missing software search in google for it.

To simply convert an md file run:

```
pandoc README.md -t beamer -o presentation.pdf
```

To generate a more beautiful presentation add metadata.

This can be done in the md file itself with a yaml block at the beginning

```
---  
title:  
- Markdown to Presentation  
author:  
- DigitalizeIT GmbH  
theme:  
- Copenhagen  
---
```

```
pandoc README.md -t beamer -o presentation.pdf
```

List with all [themes](#)

Using a template file

Modify the md with specific pandoc metadata is not always what you want. We can put all these metadata to a template file. E.g. `template.yaml`.

```
pandoc README.md -t beamer -o presentation.pdf \  
  --metadata-file=template.yaml
```

Code block highlighting

There are several code highlighting styles available:

```
pandoc --list-highlight-styles
```

An example by using the zenburn style

```
pandoc README.md -t beamer -o presentation.pdf \  
  --metadata-file=template.yaml \  
  --highlight-style=zenburn
```


Generate other document types

There are almost 50 output formats available. To list them:

```
pandoc --list-output-formats
```

Be aware that every generator has it's own options. For example the `theme` option in the `template.yaml` is only available in the `beamer` generator.

Generate a PDF document

```
pandoc README.md -t latex -o presentation.pdf \  
  --metadata-file=template.yaml \  
  --highlight-style=zenburn -V geometry:a4paper
```

Generate HTML

```
pandoc README.md -t html5 -o presentation.html \  
  --metadata-file=template.yaml \  
  --highlight-style=zenburn
```

If you analyze the generated HTML code all HTML tags have specific `class` attributes. So it's straight forward to generate a custom css.

Generate Microsoft Office documents

Unfortunately docx and pptx have no templates available.

Generate a PowerPoint

```
pandoc README.md -t pptx -o presentation.pptx \  
  --metadata-file=template.yaml \  
  --highlight-style=zenburn
```

Generate a word document

```
pandoc README.md -t docx -o presentation.docx \  
  --metadata-file=template.yaml \  
  --highlight-style=zenburn
```

Conclusion

Cons

Pandoc is in my opinion not a replacement for professional PowerPoint presentation or word documents.

Pro

Pandoc is a powerful tool to generate documents based out of Markdown files. Especial to document a software project. It can be easily integrated into a CI/CD pipeline and the documentation will be released at the same time as the software.

Hints

If you want to transform the Markdown be aware of it when writing. Especial the code snippets will not have a word wrap in the most cases. When generating a presentation (e.g. beamer). Be aware of the size of each slide. . .

Results Document

Preview of the generated document

Introduction

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Figure 1: generated document

Results Presentation

Preview of the generated presentation

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