

# 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 text format to another text format.

For all options run `pandoc --help`

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 howto.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

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

By using `pandoc`.

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

For all options run `pandoc --help`

## Setup

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.

Figure 1: generated document

# Results Presentation

Preview of the generated presentation

## Setup

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.