

Beamer themes for the University of Florida

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Pandoc Beamer

Formatting text

Thanks

Markdown + Pandoc

The `ufl` **Beamer theme** will be described in more detail in `ufl-theme-example.pdf`, generated from `ufl-theme-example.tex` using all four themes. (Currently, only the color and font themes are drafted.) This slideshow is generated instead from the **Markdown** file `ufl-theme-markdown.md` using the document conversion program **Pandoc**.

Note that Markdown syntax is not standardized, so much so that i decided not to link to any specific introduction or guide in the previous paragraph. Features may differ between the **Pandoc Beamer** converter and other engines, so beware that the syntax used here will not necessarily work in, say, GitHub.

Markdown to \LaTeX in Pandoc

Render this document directly into a PDF using Pandoc from the command line:

```
pandoc ufl-theme-markdown.md \  
  -t beamer \  
  --include-in-header=environment-shortcuts.tex \  
  --toc \  
  -o ufl-theme-markdown.pdf
```

Change the output format to \TeX by substituting the final option:

```
-o ufl-theme-markdown.tex \  
-s
```

(This will produce an intermediary standalone **\LaTeX source file.**)

Metadata

The **YAML front matter** at the top of `ufl-theme-markdown.md` contains several metadata, including the title, author, institution, and date. This document also sets the following variables:

```
aspectratio: 169
section-titles: false
theme: ufl
```

The `theme` variable calls the `ufl` Beamer theme. The `themeoptions` variable receives options that are passed to the theme.

Find a list of Beamer-specific variables that can be set in the front matter at the Pandoc User's Guide:

<https://pandoc.org/MANUAL.html#variables-for-beamer-slides>

Environment shortcuts

The Pandoc command above included one atypical option:

```
--include-in-header=environment-shortcuts.tex
```

This adds the contents of `environment-shortcuts.tex` to the \LaTeX preamble when rendering. The file contains several definitions like this:

```
\newcommand{\blockbegin}[1]{\begin{block}{#1}}  
\newcommand{\blockend}{\end{block}}
```

These allow to use \LaTeX environments without the use of `\begin{}` and `\end{}`, thereby enabling Pandoc to render Markdown syntax within these environments.

Blocks

Text Block

This text block is rendered using `\blockbegin{Block Title}` and `\blockend`. Since Pandoc interprets single carriage returns as spaces, two are required to separate these commands from the text they contain.

Block titles are rendered in **Cantarell extra bold**, a free alternative to the Gothic bold used for campus, college, and school woodmarks.

Theorem

*Likewise, a theorem can include **bold**, emphatic, and `fixed-width` font rendered from Markdown syntax. Note that `\emph{}` is required for emphatic text when italics are ignored in a theorem block, and notice the difference between `fixed-width` and inline verbatim code, which can still be rendered using `\verb`.*

Lists

Enumerated, itemized, and nested lists can be intuitively typed:

1. This is a first item.
2. This is a second, but it has
 - not one,
 - not two, but
 - three sub-items.

The code above renders as follows:

1. This is a first item.
2. This is a second, but it has
 - ▶ not one,
 - ▶ not two, but
 - ▶ three sub-items.

Code blocks

The code blocks on the preceding slides use either 4-space indentation (for command line code) or triple-back ticks with syntax highlighting specific to the language on display (`yaml`, `tex`, and `markdown`).

These and many other shorthands are documented in the Pandoc User's Guide.

Acknowledgments

Since i didn't recognize them in previous documents, i'll thank here the designers of $\text{T}_{\text{E}}\text{X}$ and \LaTeX , as well as those of Markdown and Pandoc, for making this exceedingly easy, while necessarily limited, plain text-to-PDF workflow possible.

As in the other example documents, suggestions are very welcome! Email Cory (jason.brunson@medicine.ufl.edu), raise an issue, or submit a pull request (on a new branch).