

Beamer Slide Shows with RMarkdown

Preamble

- author:
 - title:
 - subtitle:
 - date:
 - fontsize: #XXpt
 - institute:
 - output:
- ```
beamer_presentation:
 incremental: true

 theme: "AnnArbor"

 colortheme: "dolphin"

 fonttheme: "structurebold", structuresmallcapsserif, "serif", "structureitalicserif"

 toc: true #outputs a table of contents

 slide_level: #overrides the default behavior of which heading level defines an individual slide

 fig_width:

 fig_height:

 fig_caption: #true by default

 fig_crop: #true by default

 highlight: # syntax highlighting; one of: default, tango, pygments, kate, monochrome,
 espresso, zenburn, or haddock
```

## Syntax

### Document structuring

- # section heading
- ## slide heading
- ### subsection heading (within one slide)

- ---- delimits slide if the following slide has no ##
- Bullet points:
  - - bullet point
  - 1. **numbered list**
  - > - if only some bullet points should be incremented (requires incremental=true)
  - \*
  - +
- Text formatting:
  - big skip
  - medium skip
  - vertical skip
  - horizontal skip
  - **TEXT**
  - $H_0$ : math mode!
  - this is an image
  - OR:
    - `includegraphics[height = 3cm]{FILEPATH.png}`
    - center this text

## Text formatting

- *italics*
- **bold**
- **bold with  $\LaTeX$  command**
- *italic with  $\LaTeX$  command*

## Advanced formatting

- blocks: `\begin{block}`{This is a block} This is a comment in a formatted block `\end{block}`

## Code Snippets

```
for(i < 10){
 print(i)
 i = i+1
}
```

## Compilation

regular markdown files can be compiled as follows:

```
pandoc -s SOURCE.md -t beamer -o OUTPUT.pdf
```

compilation of rmarkdown requires some custom scripting:

```
#!/usr/local/bin/Rscript --vanilla --default-packages=base,stats,utils
library(knitr)
library(rmarkdown)
file <- "20180621_lab_meeting.Rmd"
rmarkdown::render(file)
```