

Beamer template

Using pandoc, knitr, but not Jmd

Joseph Stachelek March 15, 2018 Michigan State University

MAIN GOALS

- 1. Easy generation of slides
- 2. Integration with R
- 3. Looks nice

FONTS AND SPACING

The document uses the Ubuntu family

Main body Ubuntu

Maths Ubuntu

Code Ubuntu Mono

The linespread value has been increased to about 1.3

SERIF FONT THEME

The default font theme is sans serif. You can change the template/pl.tex first line to:

```
@@ -1,4 +1,4 @@
-\documentclass[11pt, compress, aspectratio=1610]{beamer}
+\documentclass[11pt, compress, aspectratio=1610, serif]{beamer}
\usetheme{pl}
```



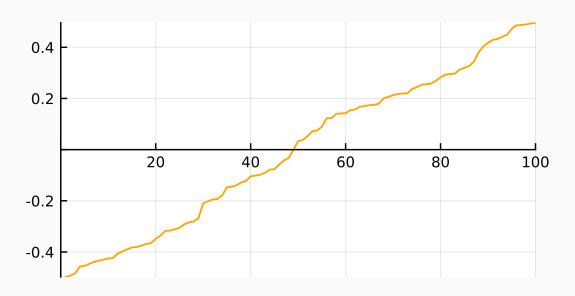
The structure elements are in green, inline code is in blue, and alerted text in orange.

The background is off-white: it will *look* like it's white, but with less eyestrain.

The foreground is not-quite-black either.

TABLES

PID	COMMAND	%CPU	TIME	#TH
25645	top	16.3	00:02.03	1/1
25642	bash	0.0	00:00.01	1
25641	login	0.0	00:00.02	2
25634	mdworker	0.0	00:00.07	3
25624	mdworker	0.0	00:00.14	4
25591	mdworker	0.0	00:00.14	3
25571	com.apple.iC	0.0	00:00.31	5
25414	installd	0.0	00:00.52	2
25366	com.apple.We	0.0	00:00.07	4



MATHS

The Input family of fonts has some support for Greek and mathematical symbols:

$$\frac{1}{N}\frac{d}{dt}N = N(r - aN)$$

You can use \alert within math blocks.

§ 1 Using sections

SECTION TITLES

Every section will have a small band with the background image.

They are first-level headers in markdown:

```
# Section

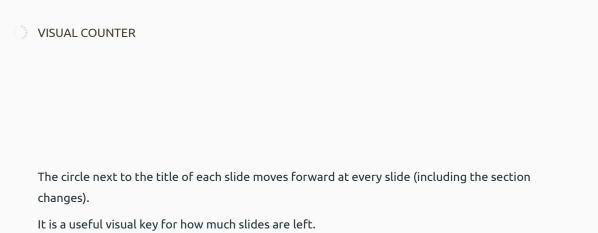
## Slide-title

Slide content
```

There is a customized color scheme for code highlighting.

```
a = 2.0
b, c = "abc", 'c'
# This code does nothing (useful)
for i in 1:10
  rand()
  @elapsed println("i:\t$i")
end
```

We can also use unicode characters.



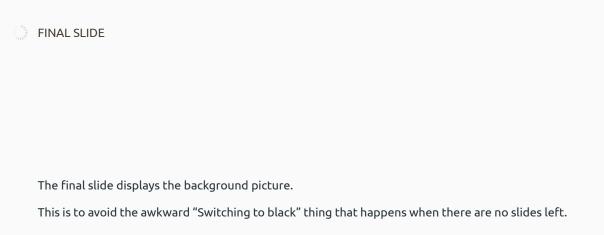
OUTPUT

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Morbi sollicitudin nisi vitae lorem interdum, eget elementum quam elementum. Curabitur quis leo eu metus consequat ultricies. Curabitur sit amet convallis risus. Cras vel arcu id risus efficitur commodo et eget velit. Curabitur consequat eleifend magna, ut ultricies lorem scelerisque eu. Mauris faucibus neque sit amet est elementum, suscipit placerat est interdum. Phasellus sed convallis est. Nunc fermentum convallis odio eget gravida. Duis venenatis dictum tempor.



The background image is generated from the makebackground.jl file. It's the k-nearest neighbour graph of a series of random points.

The file is background.png – it can be replaced by any file as long as the replacement file is in the 16:10 format (for example, a 1600×1000 image).



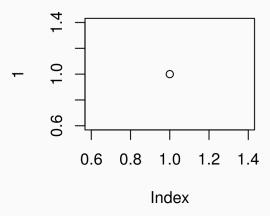
Reproducible documents

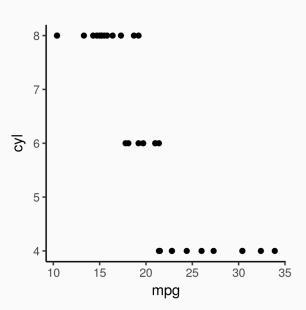




Documents slides. Rmd will be detected.

They will be converted to slides.md using either R/knitr.



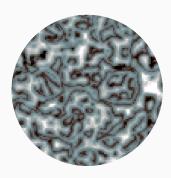


CROPPED IMAGES

The roundpicture command will display a picture, resized to fit into a circle:

\roundpicture{images/nb.png}{Optional text}

Note that the image must be a square.



PLAIN SLIDE

This will create a plain slide:

```
## {.plain}

\plain{This is large text on the background image.}
```

Note that the text within the \plain command must be \text{ET_EX.}

This is large text on the background image.

