R Markdown Workshop

Pretty Presentations

Presented by Emi Tanaka

School of Mathematics and Statistics

THE UNIVERSITY OF
SYDNEY

✉ dr.emi.tanaka@gmail.com 🐦 @statsgen

❗ These slides are viewed best by Chrome and occasionally need to be refreshed if elements did not load properly. See here for PDF 📄.

19th Nov 2019 @ SSA Vic | Melbourne, Australia

HTML Slides from Rmd

- There are a number of ways to make html slides in Rmd including `ioslides` and `slidy`.

- My favorite one is `xaringan` 📦!

- It's highly customisable.

- These slides are made by `xaringan`!

- `xaringan` uses `remark.js` to render the final html instead of `pandoc` (which means some `pandoc` features don't work)

Presentation Ninja

⚔️

with xaringan

Yihui Xie

2016/12/12 (updated: 2019-02-07)

https://slides.yihui.name/xaringan

🔍 Open and inspect the file

`first-xaringan.Rmd`

xaringan slides

```
---
title: "My first xaringan slide"
subtitle: "Not!"
author: "Emi Tanaka"
date: "4th October 2019"
output:
  xaringan::moon_reader
---

# Slide after title slide

---

# Next slide

We can use **markdown**!

---
```

YAML information used for title slide

No spaces after ---!

My first xaringan slide

Not!

Emi Tanaka

4th October 2019

1 / 5

To fully customise `xaringan` slides,
you need to know some HTML/CSS

We'll have a short intro 💻

HTML/CSS

html
```
<div class="bg-red">
This creates a box
with red background.
</div>
```

css
```
.bg-red {
    background-color: red;
}
```

output

This creates a box with red background.

But the box and text look too squished.

I increase the padding here.

```html
html
<div class="bg-red">
This creates a box
with red background.
</div>
```

```css
css
.bg-red {
    background-color: red;
    padding: 20px;
}
```

output
This creates a box with red background.

HTML/CSS III

But a white text suits better.

html
```
<div class="bg-red">
This creates a box
with red background.
</div>
```

css
```
.bg-red {
    background-color: red;
    padding: 20px;
    color: white;
}
```

output

This creates a box with red background.

In contrast to `div`, `span` is "inline".

```html
<span class="bg-red">
This creates a box
with red background.
</span>
```

```css
.bg-red {
    background-color: red;
    padding: 20px;
    color: white;
}
```

output

This creates a box with red background.

`remark.js`: div and span classes

`remark.js` makes it easier to write `div` and `span` elements.

Text in new line

```
.bg-red[
Some text
]
```

is converted to

```
<div class="bg-red">
Some text
</div>
```

Placing [ ] in the same line

```
.bg-red[Some text]
```

results in

```
<span class="bg-red">
Some text
</span>
```

Specifying CSS

You can specify the css file in the YAML:

```
output:
  xaringan::moon_reader:
    css:
      - "default" # in-built theme
      - "default_fonts" # in built theme
      - "custom.css" # your own
```

then define all custom classes in `custom.css`, e.g.

```
.bg-red {
  background-color: red;
}
```

Apply class to the whole slide

```
# Slide 1

---

class: bg-red

# Slide 2

This slide will have a red background

---

# Slide 3
```

Alternatively, you can use `xaringanthemer` to customise the look of a `xaringan`.

💻 Open and knit
`demo-xaringan.Rmd`

Customise the slide to your liking ✨

By the way, can you figure out what
`xaringan::inf_mr()` does?

Resources

- There are more features to R Markdown than can be taught in a 3 hour workshop.

- Please do let SSA know if you would be interested in having certain types of workshop!

- Thanks for coming!

ℹ️ All source files to this workshop can be found at
https://github.com/emitanaka/ssavic2019

Learn with the *community*

- Your local R-Ladies Meetup: Melbourne, Sydney, Canberra, Perth, Adelaide, Brisbane

- R4DS Community Slack

- Twitter with hastag #rstats

- RStudio Community

- Stackoverflow (I answer questions tagged with `xaringan` often)

```
devtools::session_info()

─ Session info ─────────────────────────
  setting   value
  version   R version 3.6.0 (2019-04-26)
  os        macOS Mojave 10.14.6
  system    x86_64, darwin15.6.0
  ui        X11
  language (EN)
```

These slides are licensed under