Making Extra Great Slides with xaringan

NY Open Stat Programming Meetup

About Me

👋 Hi, I'm **Garrick Aden-Buie**

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💼 RStudio Education: `gradethis`, `learnr`

🍹 `rsthemes`, `regexplain`, `shrtcts`

Try it Yourself (Later)

🍱 github.com/gadenbuie/slides

> 📂 extra-great-slides

💿 grrrck/extra-great-slides

> `docker pull grrrck/extra-great-slides`

xaringan crash course

xaringan

/ʃæ.ˈriŋ.gæn/

How To Get xaringan

```
install.packages("xaringan")
```

RMD
knitr
MD
pandoc
HTML

RMD
knitr
MD
~~pandoc~~
remark.js
HTML

Anatomy of a Slide

Anatomy of a Slide

```
---
class: middle right
background-image: url('banana.jpg')
background-size: cover


# Knock-Knock

## Who's there?

--

## Banana!
```

Anatomy of a Slide

new slide

```
---
class: middle right
background-image: url('banana.jpg')
background-size: cover


# Knock-Knock

## Who's there?

--

## Banana!
```

Anatomy of a Slide

```
---
class: middle right
background-image: url('banana.jpg')
background-size: cover

# Knock-Knock

## Who's there?

--

## Banana!
```

slide settings

Anatomy of a Slide

```
---
class: middle right
background-image: url('banana.jpg')
background-size: cover

# Knock-Knock

## Who's there?

--

## Banana!
```

slide content

Anatomy of a Slide

```
---
class: middle right
background-image: url('banana.jpg')
background-size: cover


# Knock-Knock

## Who's there?

--

## Banana!
```

pause (incremental slide)

Knock-Knock

Who's there?

Banana!

Slide Properties

class:

Horizontal

- left
- center
- right

Vertical

- top
- middle
- bottom

background-image:

`url('image.png')`

background-size:

`160px 90px`

background-position:

`top right`
`bottom left`
`5% 5%`

Using `layout: true`

```
---
layout: true

# Something I want to tell you

---

It's so important

--

And dramatic

--

And full of suspense

---

That it takes a few slides to get to my point
```

Something I want to tell you

It's so important

And dramatic

And full of suspense

Something I want to tell you

That it takes a few slides to get to my point

Something I want to tell you

Don't forget to reset!
`layout: false`

Slide Content Syntax

Markdown Text

What you see

The *fuzzy* bunny ran `foo::foo()` and promptly **disappeared**.

1. Flopsy
2. Cottontail
3. Peter
4. Bunnicula
5. Roger

How you write it

```
### What you see

The _fuzzy_ bunny ran `foo::foo()`
and promptly **disappeared**.
```

Markdown Lists

What you see

- Flopsy
- Cottontail
- Peter
- Bunnicula
- Roger

How you write it

```
- Flopsy
- Cottontail
- Peter
- Bunnicula
- Roger
```

Markdown Lists

What you see

1. Flopsy
2. Cottontail
3. Peter
4. Bunnicula
5. Roger

How you write it

```
1. Flopsy
1. Cottontail
1. Peter
1. Bunnicula
1. Roger
```

Markdown Lists

What you see

1. Flopsy
2. Cottontail
3. Peter
4. Bunnicula
5. Roger

How you write it

```
1. Flopsy
1. Cottontail
1. Peter
1. Bunnicula
1. Roger
```

Markdown Links

What you see

Check out xaringanthemer it's pretty 😎

How you write it

```
Check out
[xaringanthemer](https://...)
it's pretty &#x1F60E;
```

Markdown Images

What you see

How you write it

```
![](monday.gif)
```

Learn Markdown in 15 Minutes

commonmark.org/help/tutorial

Markdown remarkjs

You can put something on the left,
like a list of Beatrix Potter books.

The Tale of ...

- Peter Rabbit
- Jemima Puddle-Duck
- The Flopsy Bunnies
- Ginger and Pickles
- Timmy Tiptoes

Markdown remarkjs

```
.pull-left[
You can put something on the left,
like a list of Beatrix Potter books.

The Tale of ...

1...

2...

]

.pull-right[
![](Flopsy_Bunnies_cover.jpg)
]
```

Markdown remarkjs

```
<div class="pull-left">
  <p>
    You can put something on the left, like a list of Beatrix Potter books.
  </p>
  <p><strong>The Tale of ...</strong></p>
  <ul>
    <li><p>Peter Rabbit</p></li>
    <li><p>Jemima Puddle-Duck</p></li>
    <li><p>The Flopsy Bunnies</p></li>
    <li><p>Ginger and Pickles</p></li>
    <li><p>Timmy Tiptoes</p></li>
  </ul>
</div>
<div class="pull-right">
  <p><img src="Flopsy_Bunnies_cover.jpg"></p>
</div>
```

Markdown remarkjs

What you want to see

This word is purple.

Markdown remarkjs

What you want to see

This word is purple.

What you write

```
This .purple[word] is purple.
```

Markdown remarkjs

What you want to see

This word is purple.

What you could have written

```
This <span class="purple">word</span> is purple.
```

CSS Classes and Rules

CSS Styles

```
.title {
  font-size: 1.25em;
  font-style: italic;
  font-family: Georgia, serif;
}

.purple {
  color: #887ba3;
}
```

Markdown

```
.title[
The Tale of
The .purple[Flopsy Bunnies]
]
```

HTML

The Tale of The Flopsy Bunnies

xaringan's YAML

yet another mother loving thing to ~~learn~~ lookup

skip

```yaml
title: "Your Presentation Name"
subtitle: "Another tag line"
author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
    css: [default, default-fonts]
    seal: false
    nature:
      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

```yaml
title: "Your Presentation Name"
subtitle: "Another tag line"
author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
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      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

Enable "offline" use and make sure your slides work a year from now

```
xaringan::summon_remark()
```

```yaml
title: "Your Presentation Name"
subtitle: "Another tag line"
author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
    css: [default, default-fonts]
    seal: false
    nature:
      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

https://github.com/yihui/xaringan/wiki/Themes

```
[metropolis, metropolis-fonts]
[rladies, rladies-fonts]
[robot, robot-fonts]
```

```yaml
title: "Your Presentation Name"
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author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
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      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

I usually make my own title slides

```yaml
title: "Your Presentation Name"
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author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
    css: [default, default-fonts]
    seal: false
    nature:
      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

Pick the code syntax theme that works for you!

https://highlightjs.org/static/demo/

```yaml
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author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
    css: [default, default-fonts]
    seal: false
    nature:
      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

```r
data %>%
  filter(!boring) %>% #<<
  summarize(awesome = sum(fun))
```

```yaml
title: "Your Presentation Name"
subtitle: "Another tag line"
author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
    css: [default, default-fonts]
    seal: false
    nature:
      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

Every slide counts, but don't give away how many slides are in your presentation

```yaml
title: "Your Presentation Name"
subtitle: "Another tag line"
author: "Dr. Mrs. Fancy Pants"
date: '2021-03-10'
output:
  xaringan::moon_reader:
    lib_dir: libs
    chakra: libs/remark-latest.min.js
    css: [default, default-fonts]
    seal: false
    nature:
      highlightStyle: github
      highlightLines: true
      countIncrementalSlides: true
      slideNumberFormat: "%current%"
      ratio: 16:9
```

Either `4:3` or `16:9`

Check your venue!

Learning xaringan

Resources

1. Reference Pages
    - The xaringan intro slides
    - The xaringan wiki
    - The remarkjs wiki
2. Awesome xaringan resources
    - Meet xaringan | Alison Hill
    - Sharing Your Work with xaringan
    - Chapter 7 xaringan Presentations | R Markdown: The Definitive Guide
3. Finishing Up Your Slides
    - Sharing Your xaringan Slides · Garrick Aden-Buie
    - Sharing on Short Notice
    - xaringanBuilder

xaringanthemer

pkg.garrickadenbuie.com/xaringanthemer

Custom xaringan themes

```
install.packages("xaringanthemer")
```

In your slides `.Rmd`

```
```{r xaringan-themer, include=FALSE}
library(xaringanthemer)
style_mono_light()
```
```

In your slides YAML front-matter

```
---
output:
  xaringan::moon_reader:
     css: xaringan-themer.css
---
```

xaringanExtra

pkg.garrickadenbuie.com/xaringanExtra

Once upon a time...

00:10

xaringan plus something extra

```
remotes::install_github("gadenbuie/xaringanExtra")
```

In your slides `.Rmd`

```
```{r xaringan-extra, include=FALSE}
xaringanExtra::use_xaringan_extra()
```
```

xaringan plus something extra

Big list at pkg.garrickadenbuie.com/xaringanExtra/

- 🗺️ Tile View
- 📝 Editable
- 🗂️ Panelset
- 📼 Share Again
- 🔍 Search
- 👨‍🎨 Scribble
- 📡 Broadcast
- 🤳 Webcam

xaringan plus something extra

Utility Classes with Tachyons

- http://tachyons.io/
- https://roperzh.github.io/tachyons-cheatsheet/

Animations with Animate.css

- https://animate.style/

Bonus Round

metathis

Add metadata and social media cards to your slides

```
install.packages("metathis")
```

```
```{r metadata, echo=FALSE}
library(metathis)
meta() %>%
  meta_description(paste(
    "xaringan, xaringanthemer and xaringanExtra. Presented at",
    "the New York Open Statistical Programming Meetup on March 10, 2021"
  )) %>%
  meta_social(
    title = "Making Extra Great Slides",
    url = "https://gadenbuie.github.io/extra-great-slides",
    image = "https://gadenbuie.github.io/extra-great-slides/intro/extra-great-s
    twitter_card_type = "summary_large_image",
    twitter_creator = "grrrck"
```
```

xaringanBuilder

Build PDFs, images, and more

```r
remotes::install_github("jhelvy/xaringanBuilder")
```

```r
xaringanBuilder::build_all()

xaringanBuilder::build_pdf()

# etc...
```