

# Websites with R Markdown and Radix

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*Week 8, Class 1*



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# Agenda

- Introduce Radix
- Deployment

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- Deployment

## *Learning objectives*

- Get at least a basic site deployed

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# Announcements

- For this week's lab, we'll participate in [#tidytuesday!](#)
  - Note - I have no idea what the dataset will be
- Goal for lab
  - Play with unfamiliar data and produce something you're proud of
  - Should be highly collaborative

# Radix

<https://rstudio.github.io/radix/>

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# Disclaimer and assumptions

- This is a very basic (and probably fast) intro
  - Radix can do a lot that we won't get to
- I assume most of you have never created or deployed a website before
  - If you have, some of this might be slow but you can help others
- This "lecture" will be highly interactive

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# Please follow along

```
install.packages("radix")
```

- Go to GitHub and create a repo to store your website (which you'll also use for deployment)

# Back to RStudio



Don't clone your repo yet!

*Create new project*

New Project

Back

Project Type

R Package using RcppArmadillo	>
R Package using RcppEigen	>
 Website using blogdown	>
 Book Project using bookdown	>
R Package using devtools	>
Radix Blog	>
Radix Website	>

Cancel



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# The steps

- Create a new RStudio Project
- Select Radix blog
- Use gitkraken (or command line if you're comfortable with that) to initiate a repo locally and link it with your remote
- Commit/push
- Change GH settings for deployment

[demo]

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# Author a new article

- `radix::create_post()`
- Create another one!

---

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## *Listings*

Make sure your index file as

```
---  
listing: posts  
---
```

- Note that galleries are also possible

---

# Categories

- You make up the category names. Tag posts with those categories, and they will be linkable

```
---  
categories:  
  - dataviz  
  - class  
---
```

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# Navigation

All controlled with `_site.yml`

- Let's add a github log that links to our repo

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- Let's add a github log that links to our repo

```
---
navbar:
  right:
    - text: "Home"
      href: index.html
    - text: "About"
      href: about.html
    - icon: fa fa-github
      href: https://github.com/datalorax/class-site-example
---
```

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# Create drop-down menus

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```
navbar:
  left:
    - text: "Labs"
      menu:
        - text: "Getting Started with R"
          href: "lab1.html"
        - text: "Visualizing Distributions"
          href: "lab2.html"
  right:
    - text: "Home"
      href: index.html
    - text: "About"
      href: about.html
    - icon: fa fa-github
      href: https://github.com/datalorax/class-site-example
```

---

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# Base URL

Once your site is deployed (or you know the link it will be deployed to), change the `base_url` in the `_site.yml`

- Gives some nice sharing features (twitter cards)
- Allows you to use [citations](#)



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# Drafts

If you want to work on a post for a while without it being included in your website, use `draft = TRUE`

```
radix::create_post("My new post", draft = TRUE)
```

```
---  
title: "My work on Lab 3"  
description: |  
  This lab was hard!  
draft: true  
---
```

---

# Figures

Change figure options with chunk options

- `layout = "l-body"` (default)
- `layout = "l-body-outset"`
- `layout = "l-page"`
- `layout = "l-screen"`
  - `layout = "l-screen-inset"`
  - `layout = "l-screen-inset shaded"`

*Let's go try!*

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# Additional figure options

- Rather than using `![]()`, you can use `knitr::include_graphics()` to have the same options.
- Use `fig.cap` in chunk options to give nice figure captions.
- Note these options should work for tables as well

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# Side notes

`<aside>`

This is some text that will appear in the margin - similar to Tufte's style. It is

`</aside>`

---

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`</aside>`

You can also use this to show small plots

`<aside>`

```
ggplot(mtcars, aes(mpg)) +  
  geom_histogram() +  
  labs(title = "Distribution of Miles Per Gallon")
```

`</aside>`

---

# Customizing the theme

- Create a `style.css` file (or whatevs)
- Modify `_site.yml` to

```
output:  
  radix::radix_article:  
    css: style.css
```

- 
- Start with default CSS, and modify small elements

```
.radix-site-nav {  
  color: rgba(255, 255, 255, 0.8);  
  background-color: #455a64;  
  font-size: 15px;  
  font-weight: 300;  
}
```

becomes

```
.radix-site-nav {  
  color: rgba(255, 255, 255, 0.8);  
  background-color: #FF5FDD;  
  font-size: 15px;  
  font-weight: 300;  
}
```

---

# This can be fun!

Just be careful not to go too far





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# Equations

Use latex notation and it should "just work"

`$$ \mu = \frac{1}{n} \sum_{i=0}^n x_i $$`

becomes

$$\mu = \frac{1}{n} \sum_{i=0}^n x_i$$

---

# Other features

- Table of Contents
- Appendices
- Citations
  - Both how to cite your article and bibliographies

# Go forth and share your work!

