

# Websites with Distill

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Week 8, Class 2

# Data viz in Wild

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Anwasha

Makayla on deck

# Agenda

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- Introduce Distill
- Deployment

## Learning objectives

- Get at least a basic site deployed

By the end of the day! You will have a site!

# Distill

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

# Disclaimer and assumptions

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- This is a very basic intro
  - Distill 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
- Distill was recently updated to include newer themeing features. Checkout the website for the most complete and up-to-date info
- This "lecture" will be highly interactive

# Please follow along

---

```
install.packages("distill")
```

```
# or
```

```
remotes::install_github("rstudio/distill")
```

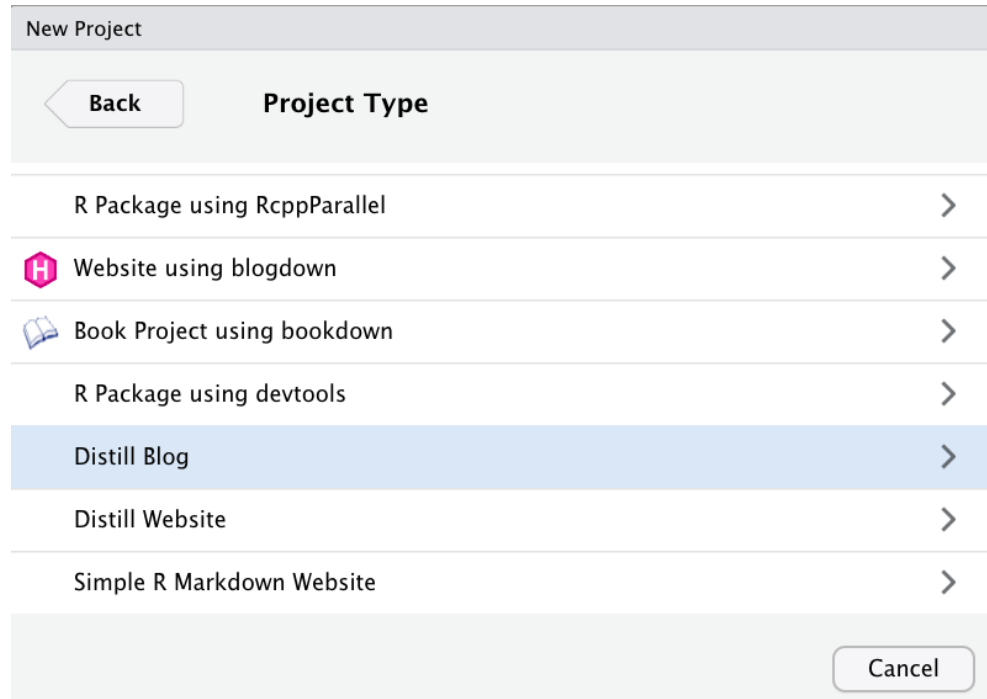
- Go to GitHub and create a repo to store your website (which you'll also use for deployment)
- Make sure you don't start it with a README or LICENSE or anything else. It should be **totally** empty.

# Back to RStudio

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Don't clone your repo yet!

Create new project



# The steps

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- Create a new RStudio Project
- Select distill blog
  - Make sure to Select "Configure for GitHub Pages"

New Project

[Back](#) **Create Distill Blog**

Directory name:

Create project as subdirectory of:

~/Desktop [Browse...](#)

Title:

☒ **Configure for GitHub Pages**

**Click this** →

☐ Open in new session [Create Project](#) [Cancel](#)



- 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]

# Author a new article

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

## Listings

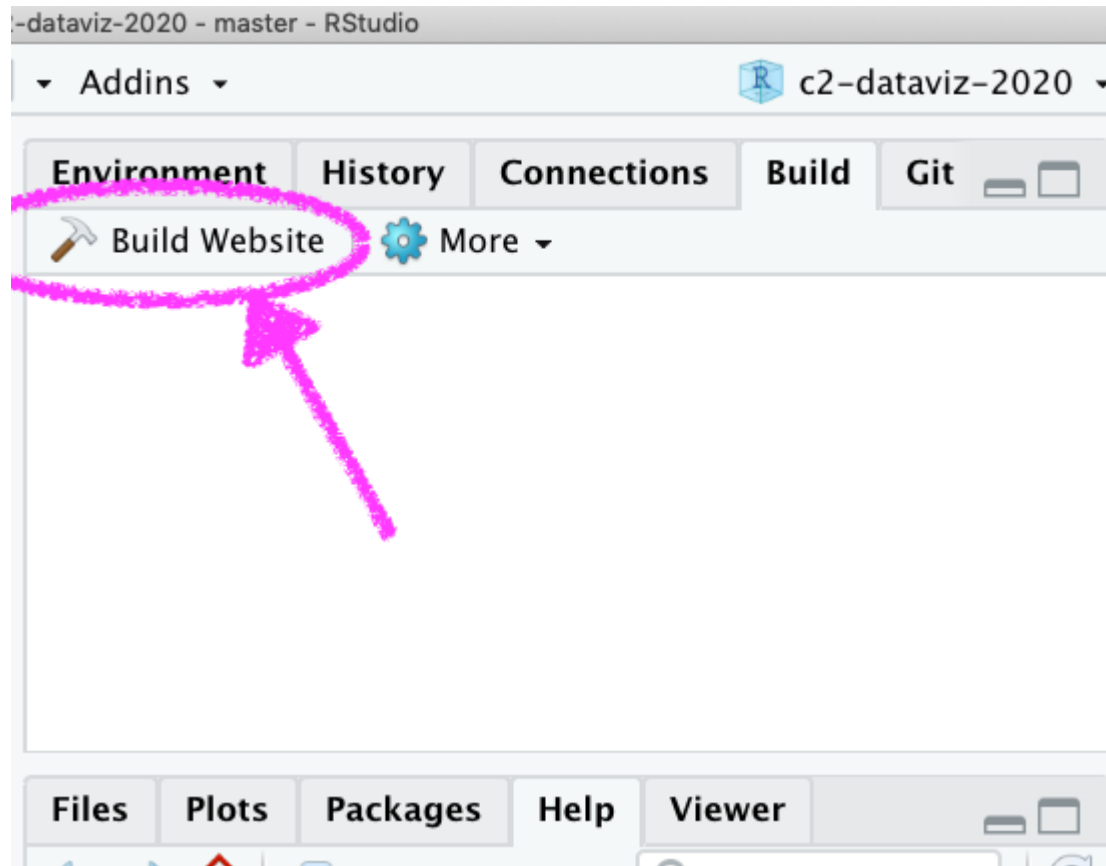
Make sure your index file has

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

- Note that galleries are also possible

# Build your website

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That's  
basically it!

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A few additional features

# Categories

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

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

# Navigation

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All controlled with `_site.yml`

- Let's add a github logo 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
---
```

# 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
---
```

# Base URL

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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



# Drafts

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

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

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

# Figures

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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"`

Try it out!

# Additional figure options

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- 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

# Side notes

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```
<aside>
```

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

```
</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

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

```
output:  
  distill::distill_article:  
    css: style.css
```

- Start with default CSS, and modify small elements

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

becomes

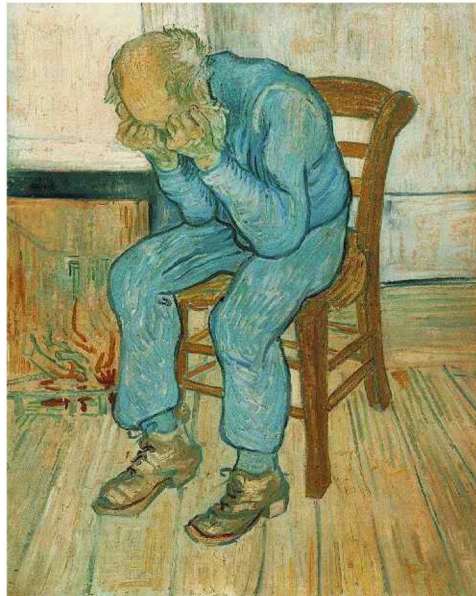
```
.distill-site-nav {  
  color: rgba(255, 255, 255, 0.8);  
  background-color: #FF5FDD;  
  font-size: 15px;  
  font-weight: 300;  
}
```

# This can be fun!

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Just be careful not to go too far: from Yihui

Debugging CSS, van Gogh (1890)



# Equations

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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

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

Go forth and share your  
work!

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