

Websites with Distill

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Week 8, Class 2

Data viz in Wild

Anwasha

Ping

Makayla on deck

Agenda

- Introduce Distill
- Deployment

Learning objectives

- Get at least a basic site deployed

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

Distill

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

Disclaimer and assumptions

- 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, among other things. Checkout the [website](#) for the most complete and up-to-date info
- This "lecture" will be highly interactive

Please follow along

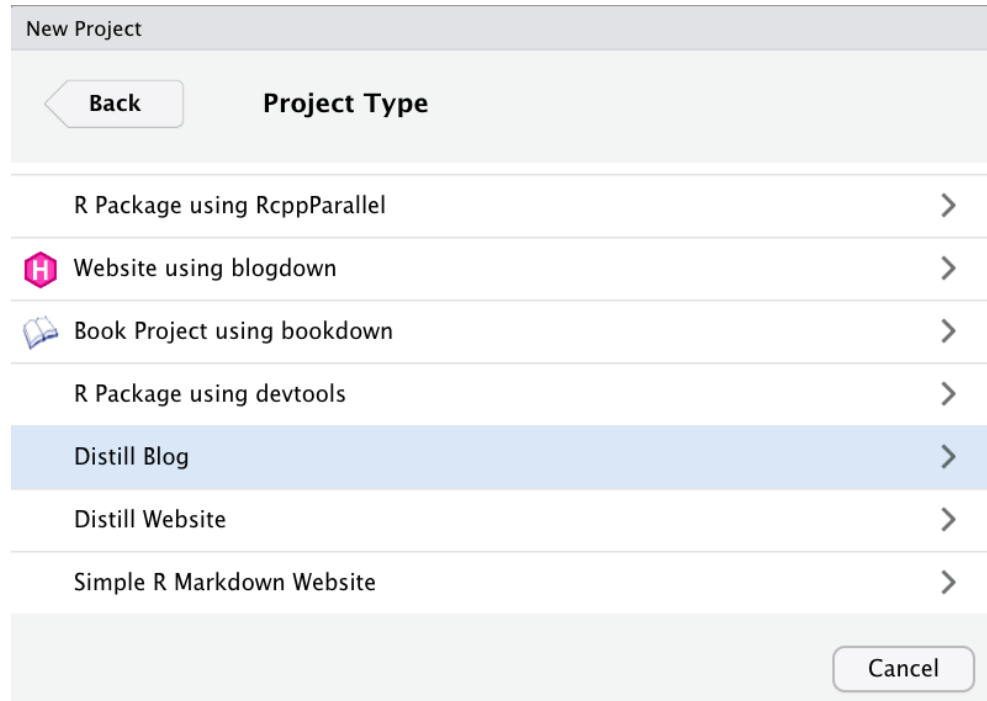
```
install.packages("distill")
```

```
# or
```

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

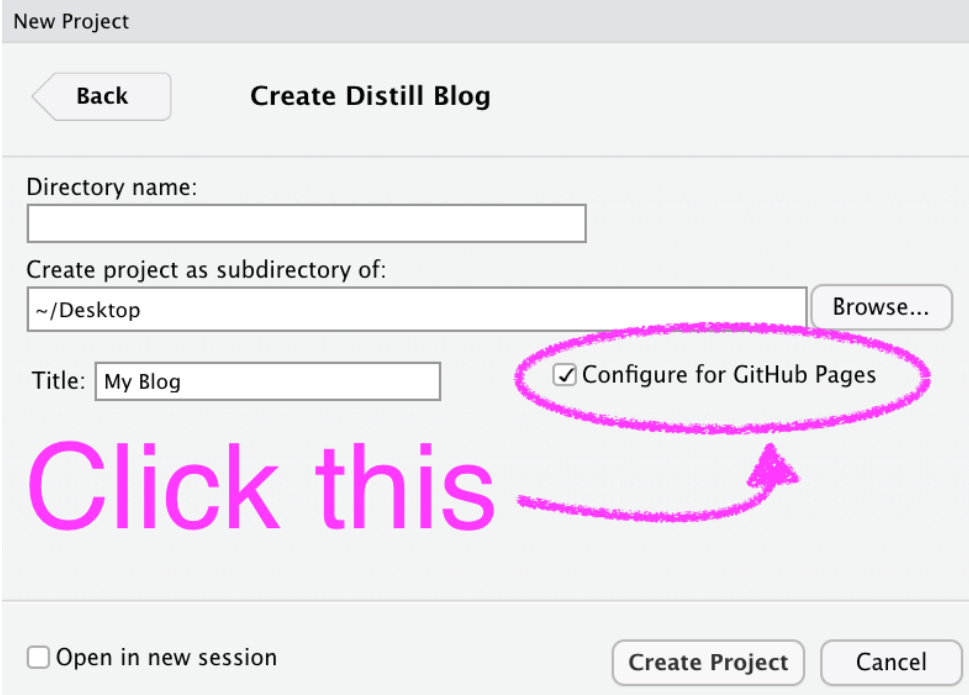
Back to RStudio

Create new project



The steps

- 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: My Blog

☒ Configure for GitHub Pages

Click this

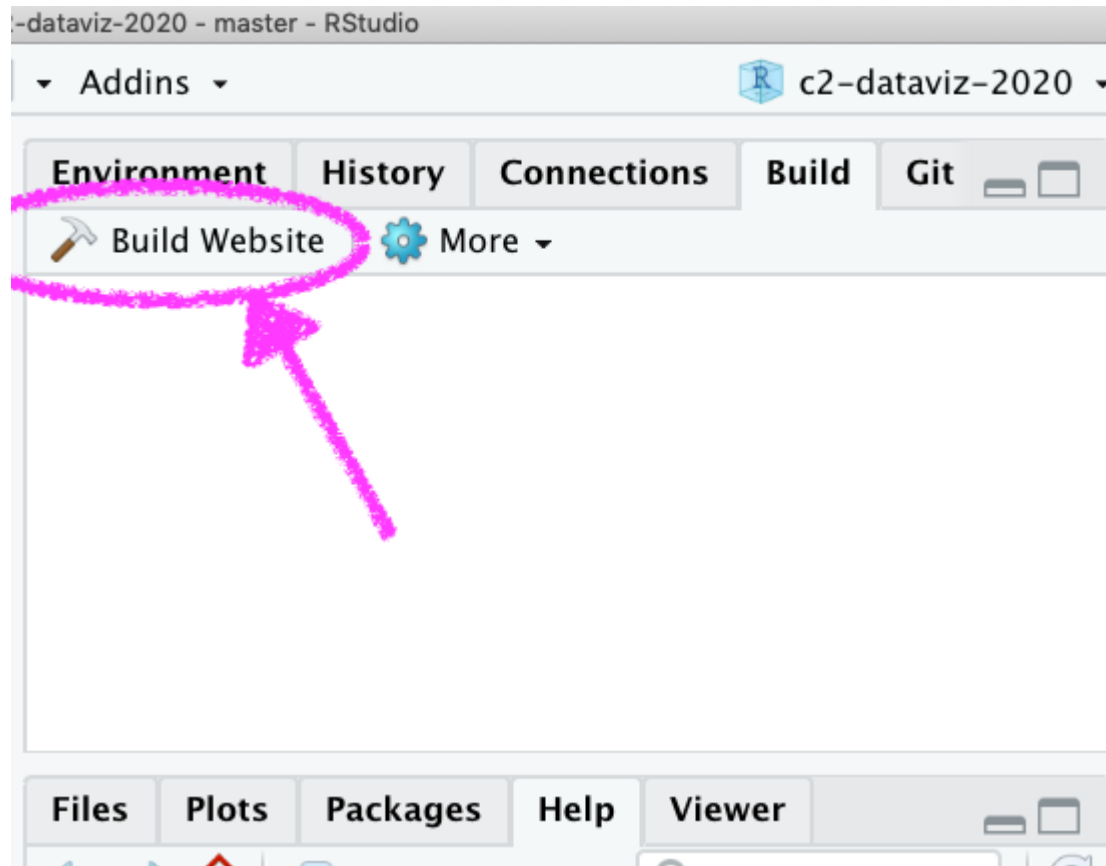
☐ Open in new session

Create Project Cancel

Author a new article

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

Build your website



Connect to GitHub

Use the project-first workflow and
publish the docs folder

[Demo]

That's
basically it!



A few additional features

Categories

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

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

Navigation

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

```
---
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

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

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

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

- 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

```
<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

Use `distill::create_theme("style")`

- Creates a `style.css` file (or whatever you want to call it in the above)
- Modify `_site.yml` to

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

- Modify small elements

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

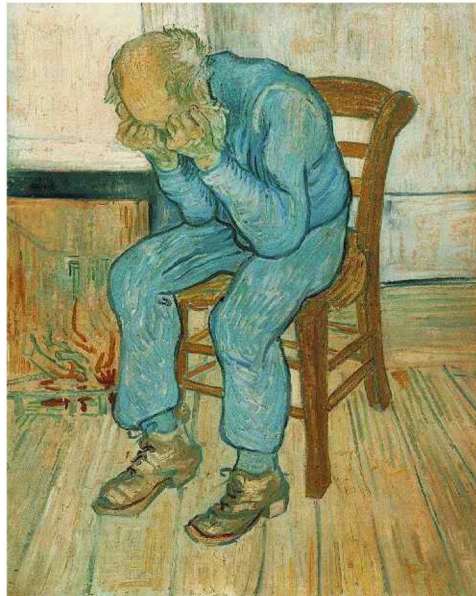
becomes

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

This can be fun!

Just be careful not to go too far: from Yihui

Debugging CSS, van Gogh (1890)



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!

