



Building a Portfolio Website

SoCal RUG + MAC

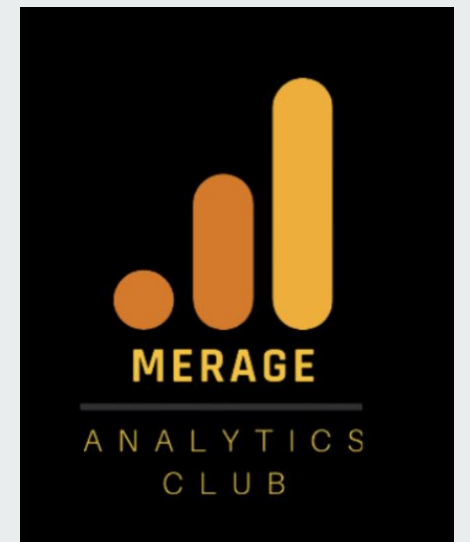
Github repo: <https://bit.ly/3qTk0IC>



WiFi access:

Connect to SSID: UCInet Mobile

Go to <https://oit.uci.edu/reg>





Agenda

Tutorial ~ 1.5 Hour

Questions ~ 30-45 mins

What this is and what this is not



This workshop will give you the tools for a simple, customizable website

Not a deep dive into:

- R
- Git
- Github
- Websites
- Data Science projects

Motivation



Why have a portfolio website?

One way to build trust with others is to prove you can do the work. In data science, you can show that work by building a portfolio of projects.

What to include in your website? (Some ideas)

School work, Hackathon projects, workshop, competition projects

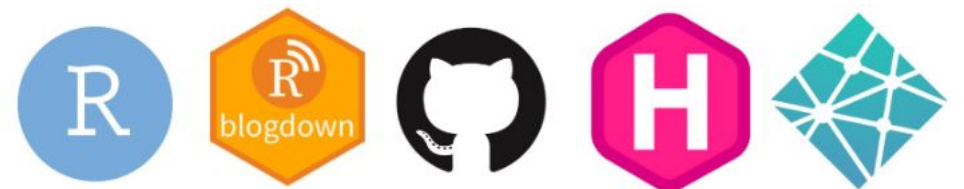
Code is available and well-documented.

Compelling story

[AwesomeBlogdown](#) is a collection of websites built with Blogdown

Why Hugo, Github, Blogdown, Netlify?

- It's free
- **Simple editing.** Instead of using HTML to write your content, you can write using popular Markdown and LaTeX math expressions.
- **Multiplatform.** Build your site on the cloud or locally on a Mac, Linux, or Windows computer.
- **Lightning fast to generate.** Hugo builds the site, piecing together all the various parts and converting the content to HTML in less than a second
- **Lightning fast to access.** The inherent advantage of using a static site generator is that each page and asset can immediately be served to the client without any dynamic processing.



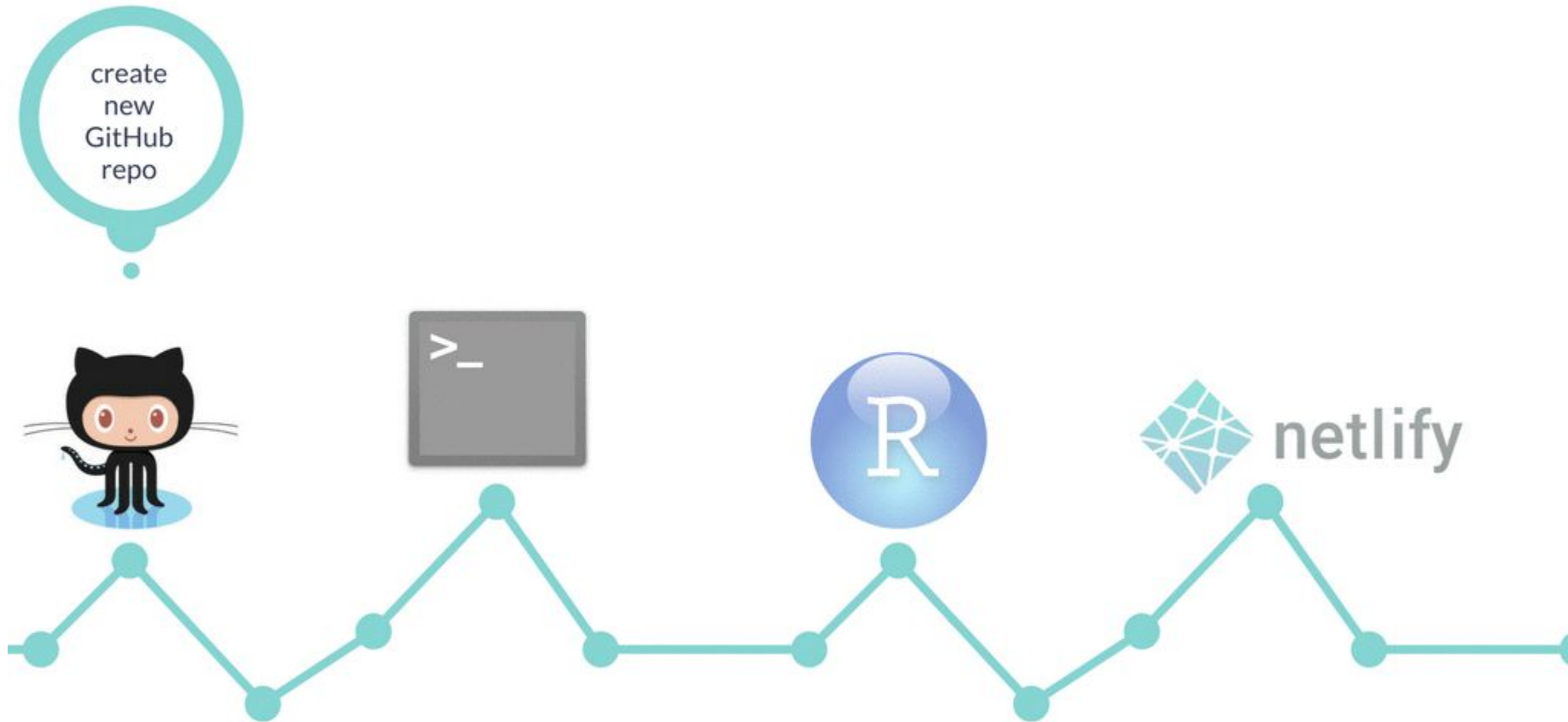


Image from Allison Hill

Set up



- Git <https://git-scm.com/>
- RStudio
- GitHub Account <https://github.com/>
- Netlify Account <https://www.netlify.com/>

Steps



- GitHub
 - Create new Repository
 - Copy/clone url
- R Studio:
 - Install blogdown: `install.packages("blogdown")`
 - `blogdown::install_hugo()`
 - Create new "R Project" -> New Directory -> "Website using blogdown" -> Hugo Theme: Default (can be changed)
 - Serve Site
 - Modify "config.toml" file
 - Addins -> New Post
 - Add, commit and push changes
- Netlify
 - Connect to GitHub and serve site
 - Change domain

Git



- Need to configure git for first time users

```
$ git config --global user.name "John Doe"
```

```
$ git config --global user.email johndoe@example.com
```

Need to setup SSH keys



Tutorial on on how to do it here: [link](#)


Github

- Create a new repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *

 barajap1 ▾

Repository name *

websitetest55 ✓

Great repository names are short and memorable. Need inspiration? How about **legendary-engine**?

Description (optional)

My Website



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ **Add a README file**

This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**

Choose which files not to track from a list of templates. [Learn more.](#)

☐ **Choose a license**

A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository

Github

We will create a local copy of this repository.

Quick setup — if you've done this kind of thing before

or

HTTPS

SSH

git@github.com:barajapl/website2021.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

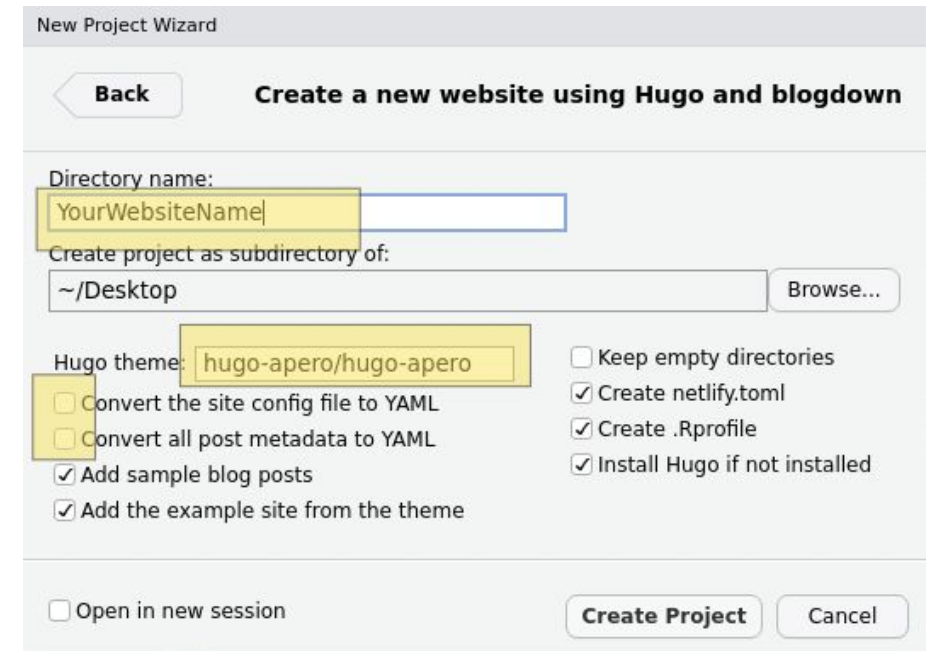
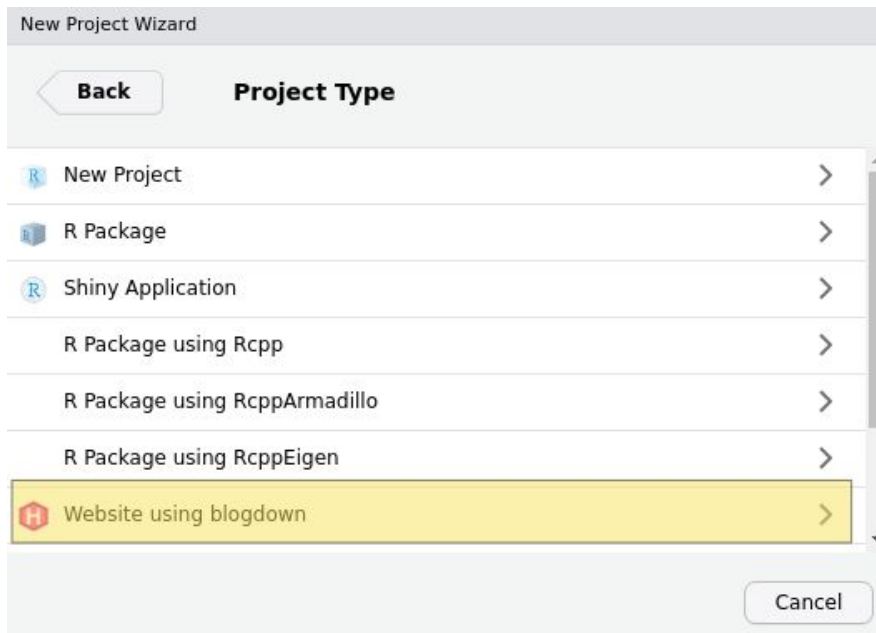


RStudio

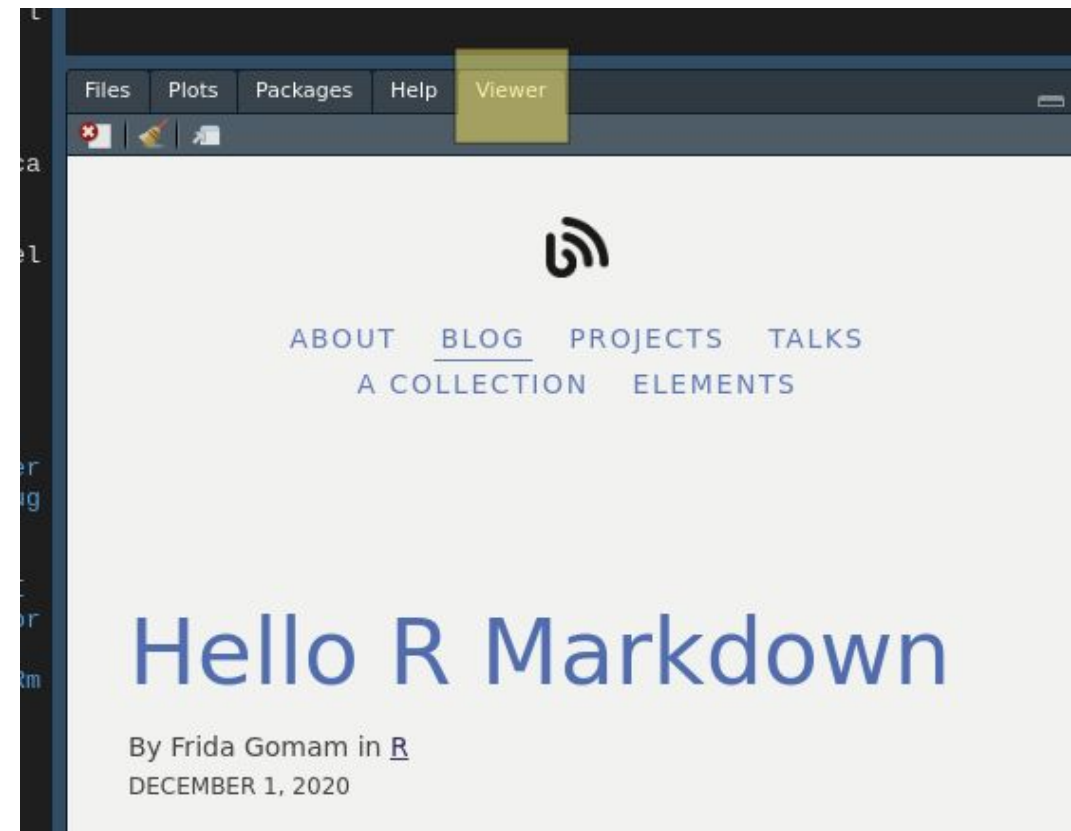
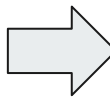
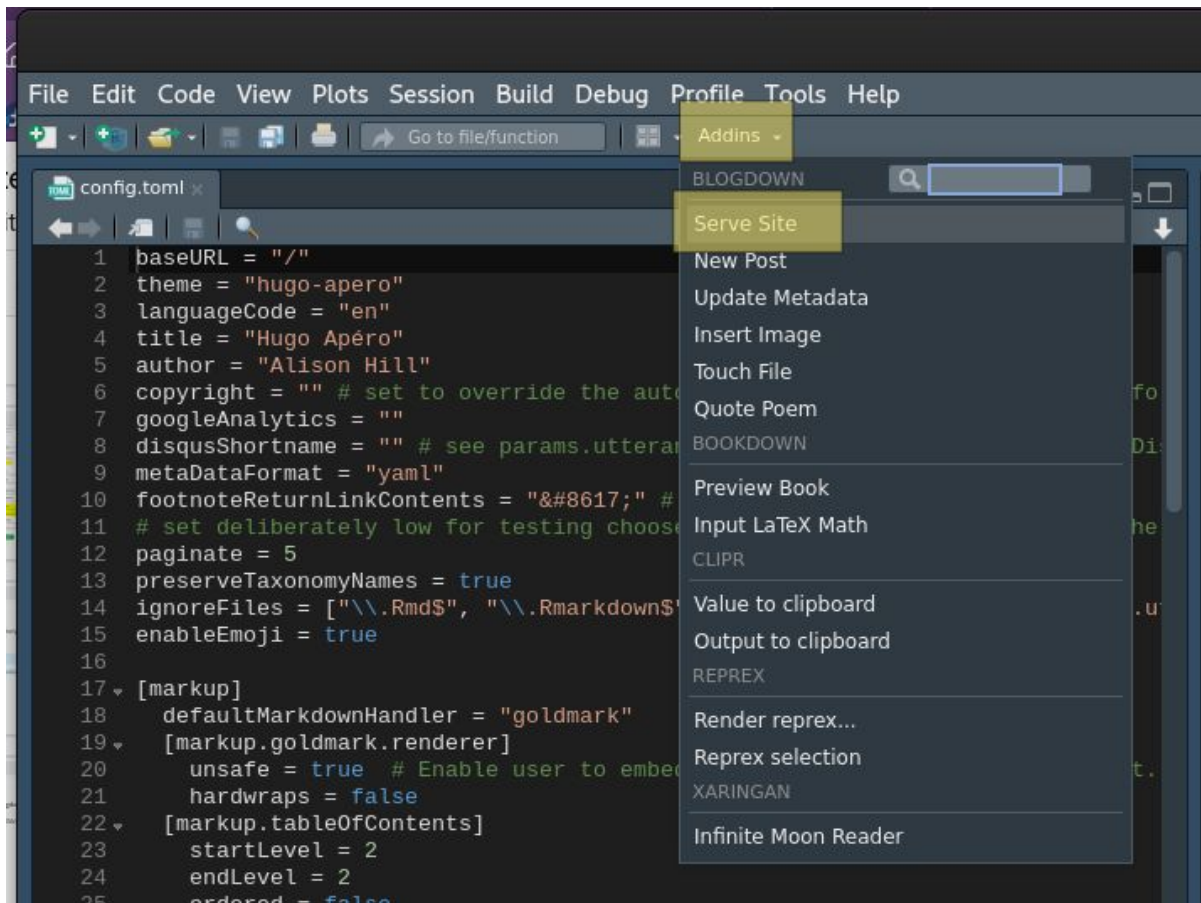
- Install blogdown: `install.packages("blogdown")`
- `blogdown::install_hugo()`

File -> New Project -> New Directory -> Website Using Blogdown

- Hugo theme: `hugo-aperro/hugo-aperro`



RStudio



Git Terminal



Tools -> New Terminal

Move to the folder where you saved the R Project:

`cd Your Path`

Write the following:

`echo "# test" >> README.md`

`git init`

`git add .`

`git commit -m "first commit"`

`git branch -M main`

`git remote add origin (SSH-link from Github repository)`

`git push -u origin main`

Netlify



Go to: <https://www.netlify.com/>

- Login with your GitHub account
- Github settings -> Applications -> Netlify -> Configure -> Repository Access
 - New site from Git
 - Select your website repo
 - Deploy the site

Get to know your site



- config.toml
- content
- resources
- static

Let's explore

Make changes to the sample website



Change the name, posts, make changes and remember to:

```
git add .
```

```
git commit -m "message"
```

```
git push
```

Resources and Extras



- Tutorial here: [link](#)
- Find different Themes:
 - <https://themes.gohugo.io/>
- blogdown: Creating Websites with R Markdown:
 - <https://bookdown.org/yihui/blogdown/>
- Making a Website Using Blogdown, Hugo:
 - <https://amber.rbind.io/2016/12/19/website/>
 - <https://alison.rbind.io/post/2017-06-12-up-and-running-with-blogdown/>
 - <https://arm.rbind.io/slides/blogdown.html#2>
 - <https://summer-of-blogdown.netlify.com/>
- R Markdown:
 - <https://bookdown.org/yihui/rmarkdown/>
 - <https://ymlthis.r-lib.org/articles/introduction-to-ymlthis.html>
- rbind.io subdomain
 - <https://support.rbind.io/about/>
- Git and github for R users
 - <https://happygitwithr.com/>



Questions?