Building a Portfolio Website

SoCal RUG + MAC

Github repo: XXXX

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 but powerful, customizable website

Not a deep dive into:

- R
- Python
- 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 work, competition projects
- Code available and well-documented.
- Compelling story

Why Quarto, Github?

It’s free

Quarto® is an open-source scientific and technical publishing system built on Pandoc. You can weave together narrative text and code to produce elegantly formatted output as documents, web pages, blog posts, books and more.

Quarto is at its core multi-language (Python, R, Julia, Javascript) and multi-engine (Knitr, Jupyter, and Observable).

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.

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Why GitHub Pages?

- It’s free
- Hosted directly on your GitHub repository
- Just edit, push, and the changes are live

Set up

- Git https://git-scm.com/
- RStudio
- GitHub Account https://github.com/

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

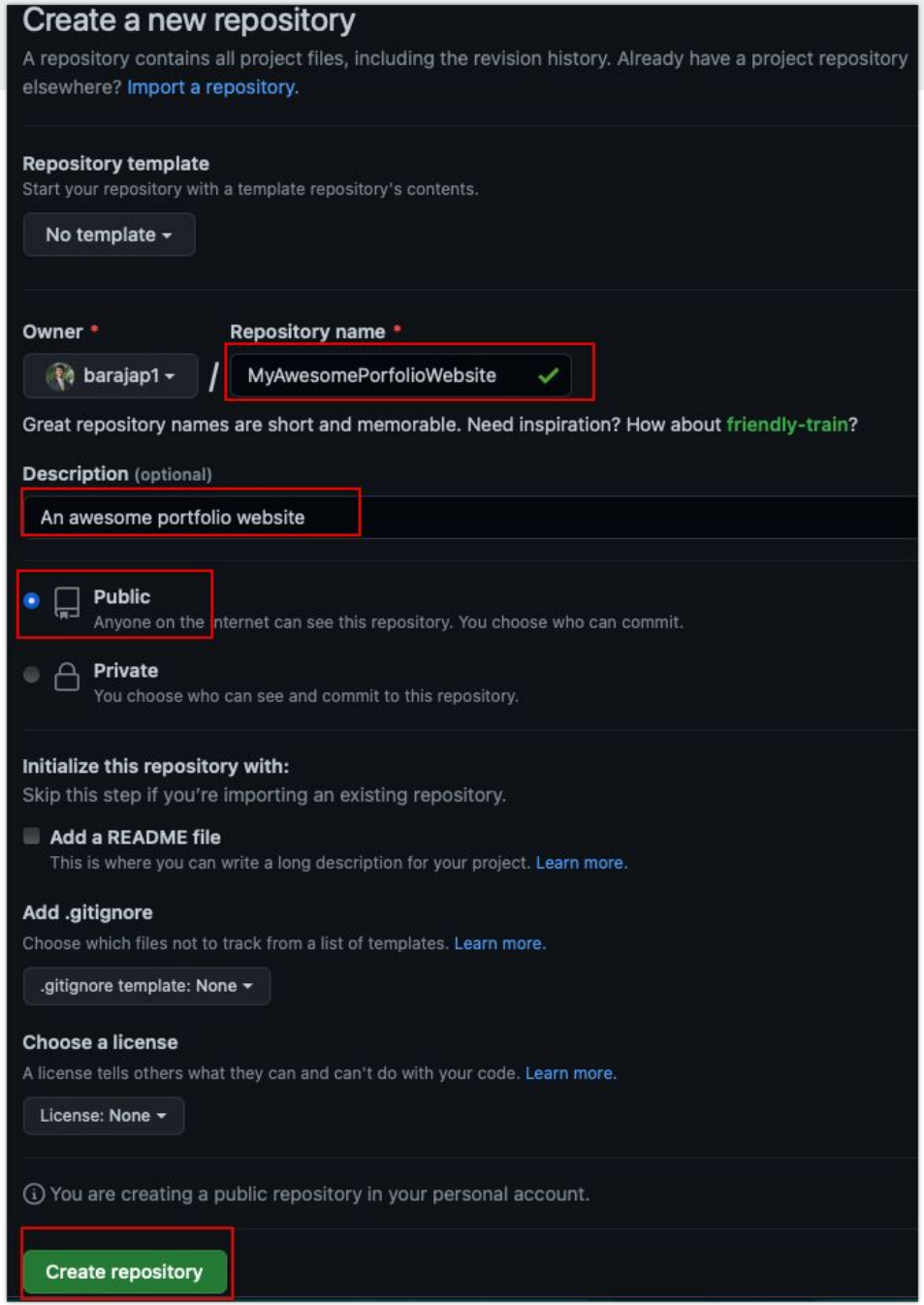
Tutorial on on how to do it here: link

Steps

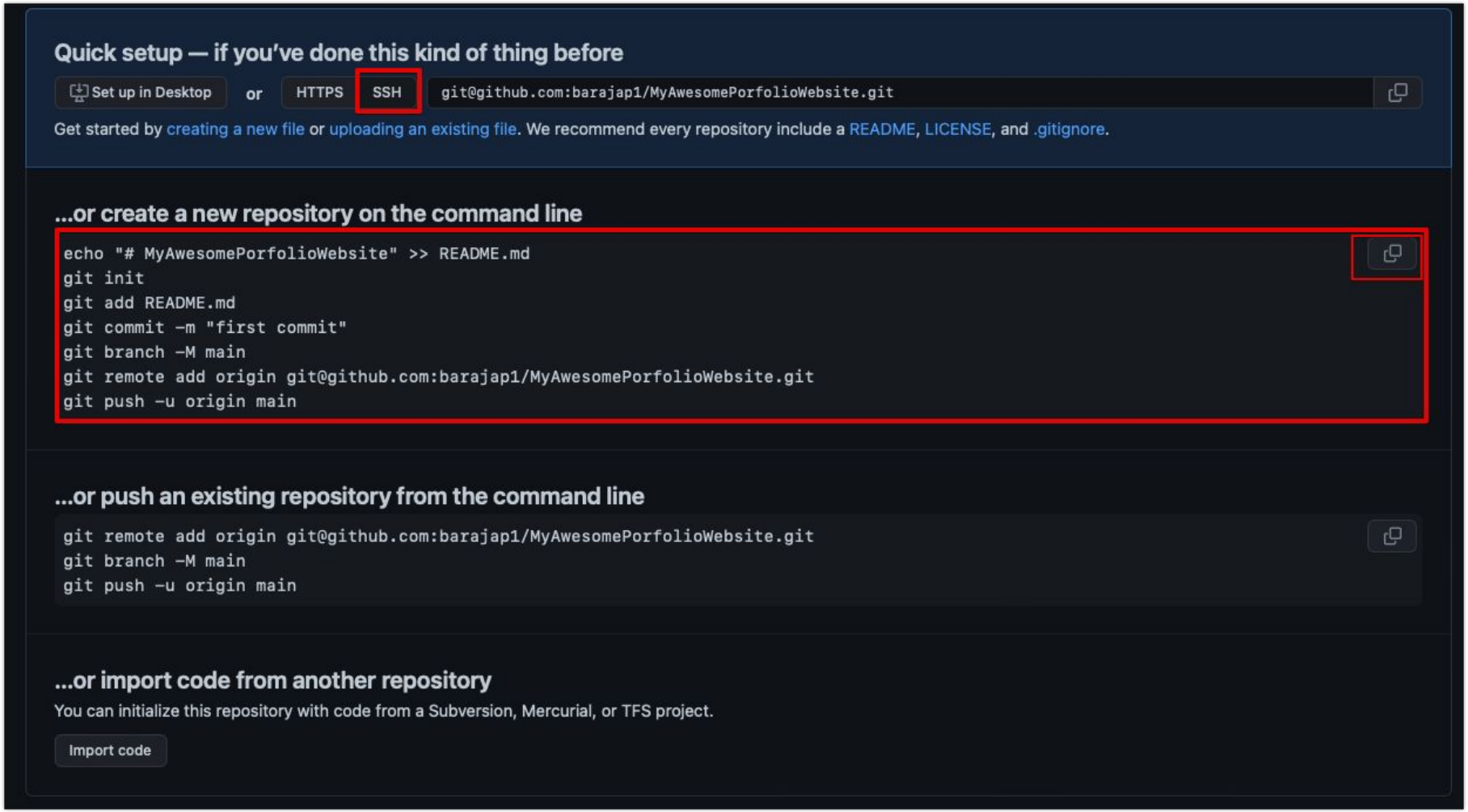
- GitHub
  - Create new Repository
  - Copy/clone SSH instructions
- R Studio:
  - Create new “R Project” -> New Directory -> “Quarto Blog”
  - Modify “quarto.yml” file
  - Create “.nojekyll”
  - Build -> Render Website
  - Add, commit and push changes
- Github
  - Settings -> Pages

Github

- Create a new repository

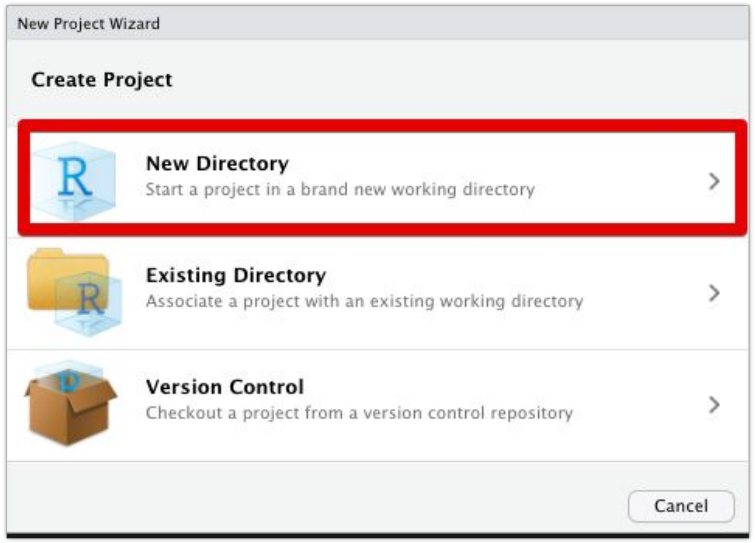


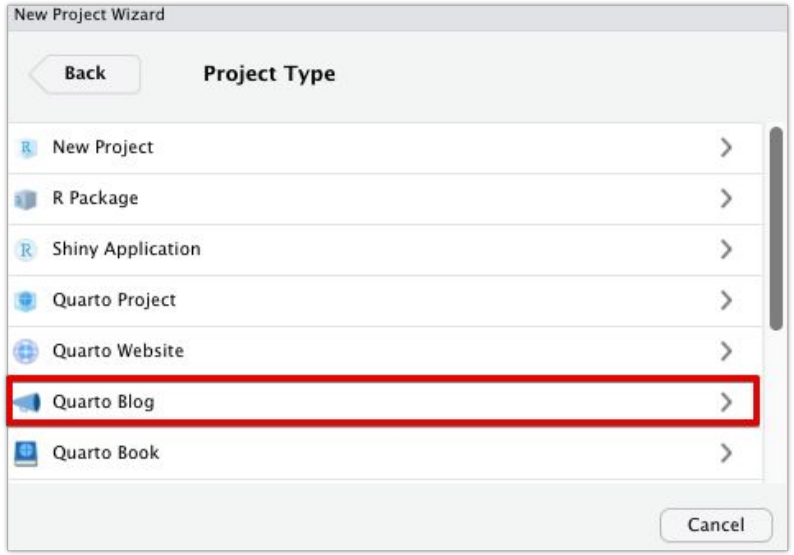
Github

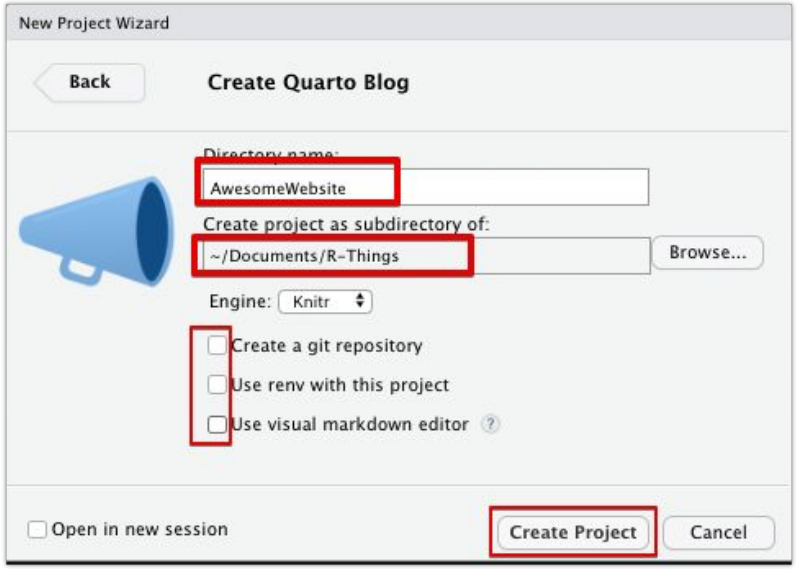

Quick setup — if you've done this kind of thing before
Set up in Desktop
or
HTTPS
SSH
git@github.com:barajap1/MyAwesomePorfolioWebsite.git
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.
...or create a new repository on the command line
echo "# MyAwesomePorfolioWebsite" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:barajap1/MyAwesomePorfolioWebsite.git
git push -u origin main
...or push an existing repository from the command line
git remote add origin git@github.com:barajap1/MyAwesomePorfolioWebsite.git
git branch -M main
git push -u origin main
...or import code from another repository
You can initialize this repository with code from a Subversion, Mercurial, or TFS project.
Import code

RStudio

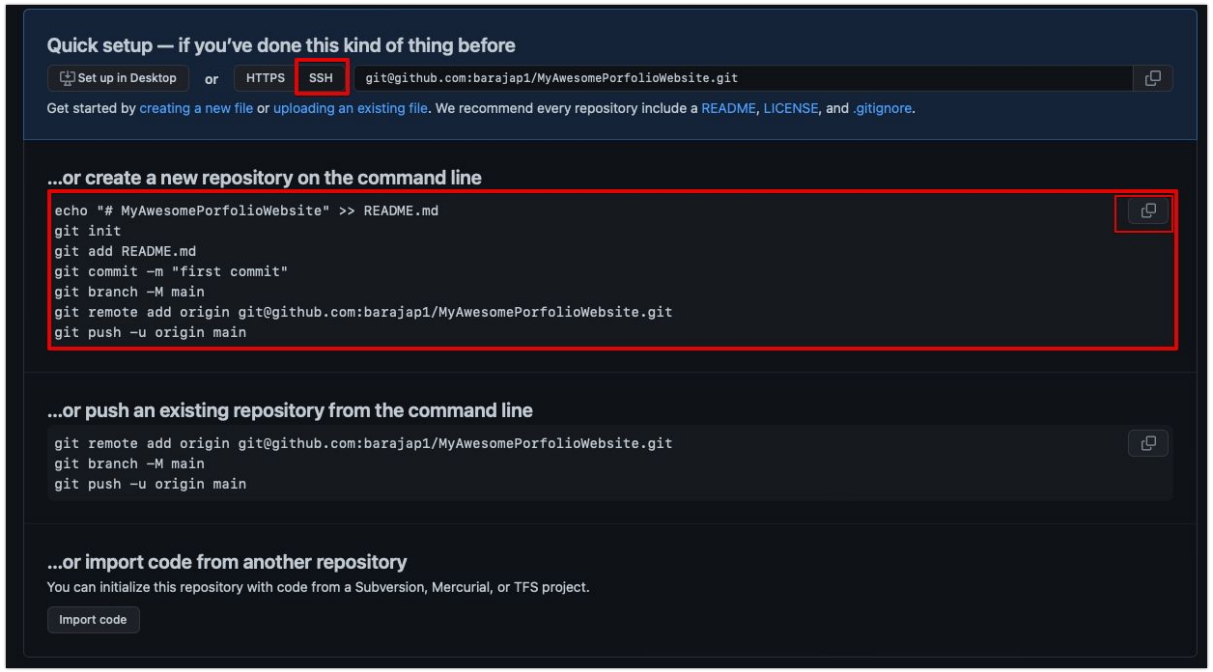
File -> New Project -> New Directory -> Quarto Blog





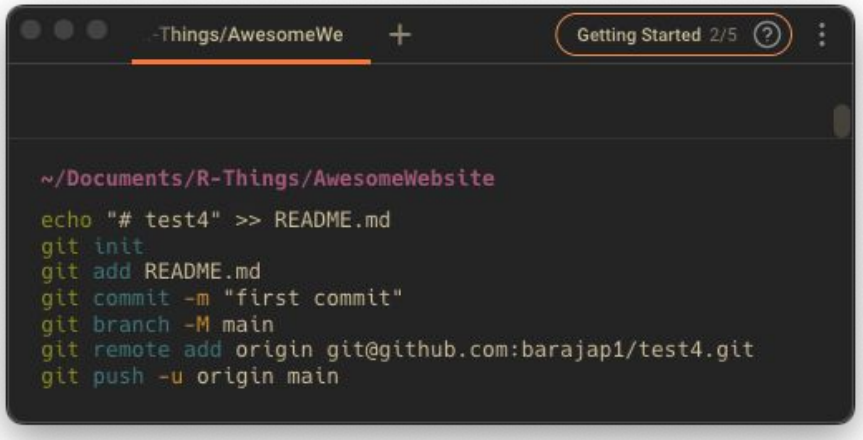


RStudio

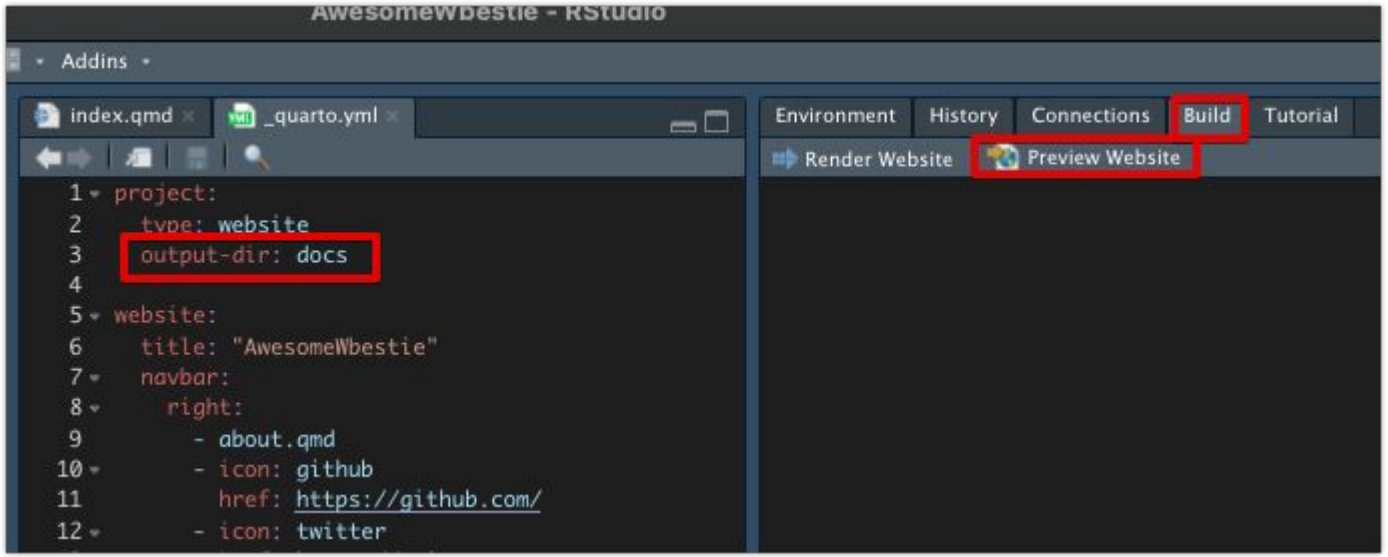


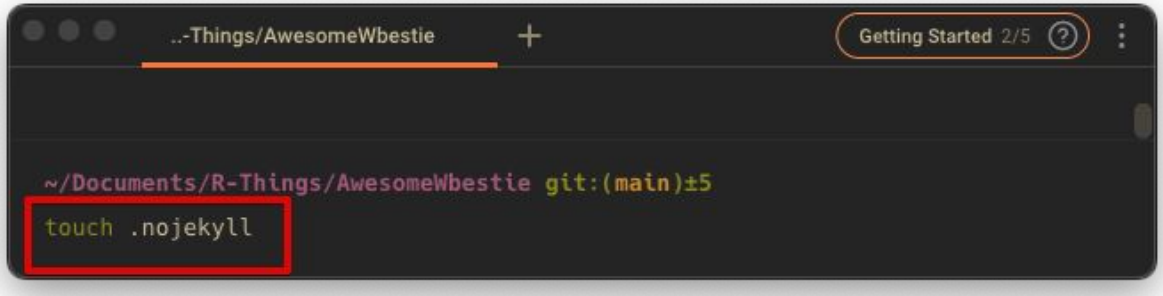
On terminal

- move to the directory where you saved the Quarto Blog
- Paste copied code from GitHub on terminal



RStudio


AwesomeWbestie - RStudio
Addins
index.qmd
_quarto.yml
Environment
History
Connections
Build
Tutorial
Render Website
Preview Website
project:
type: website
output-dir: docs
website:
title: "AwesomeWbestie"
navbar:
right:
- about.qmd
- icon: github
href: https://github.com/
- icon: twitter


..-Things/AwesomeWbestie
Getting Started 2/5
~/Documents/R-Things/AwesomeWbestie git:(main)±5
touch .nojekyll

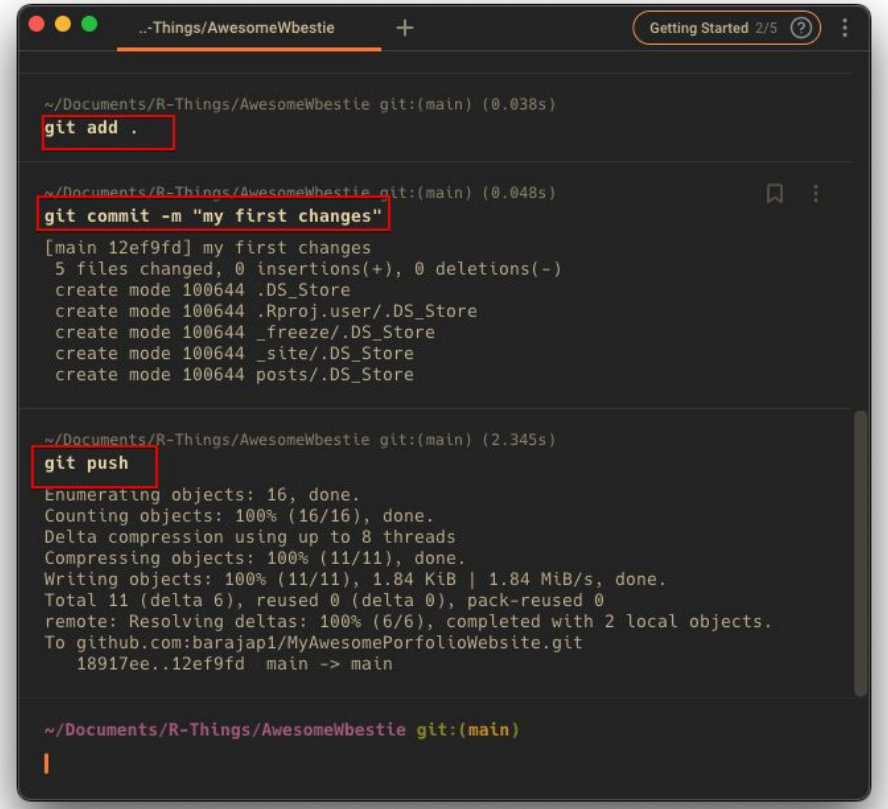
Make changes to the sample website

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

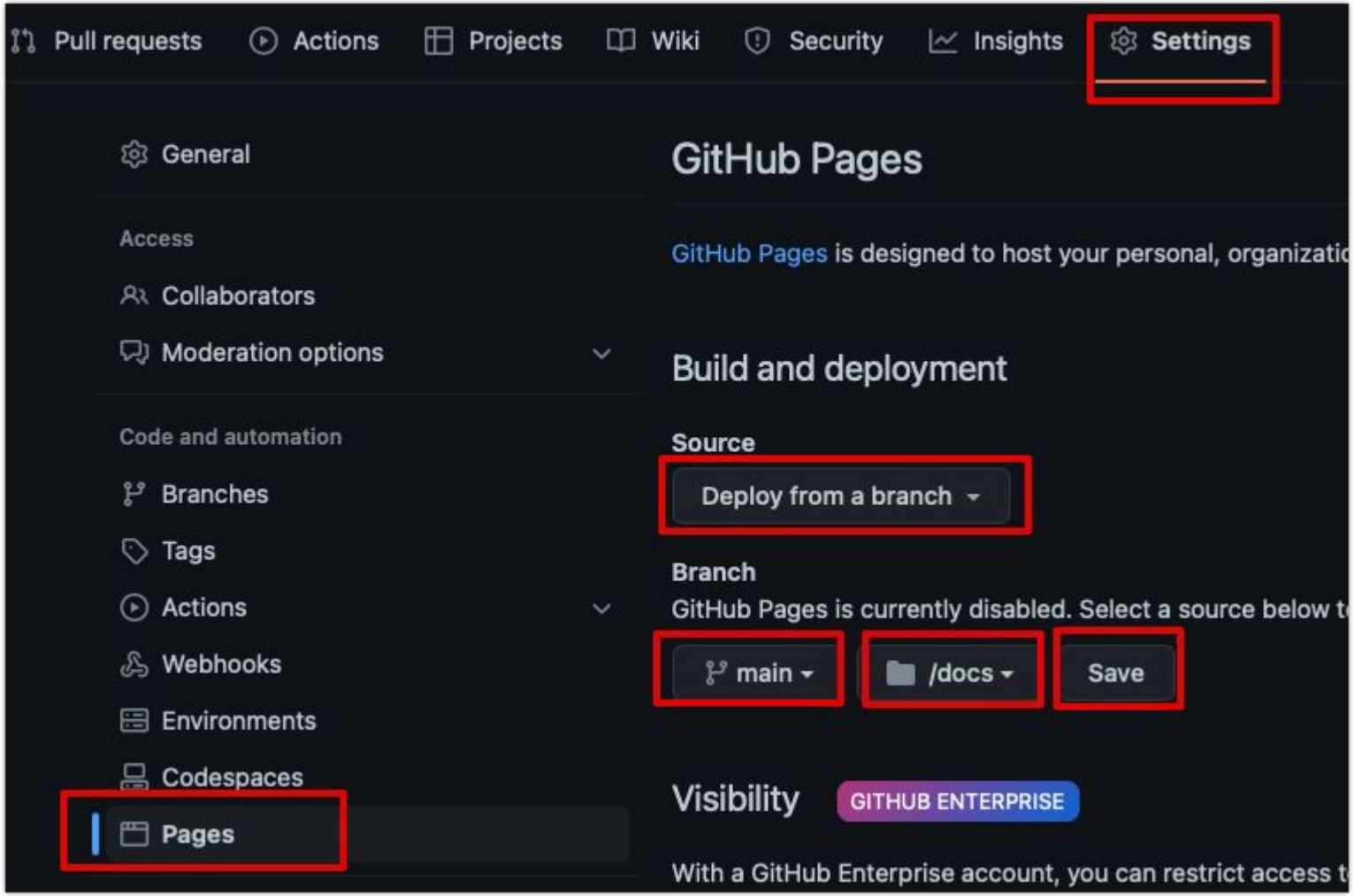
git add .

git commit -m “message”

git push

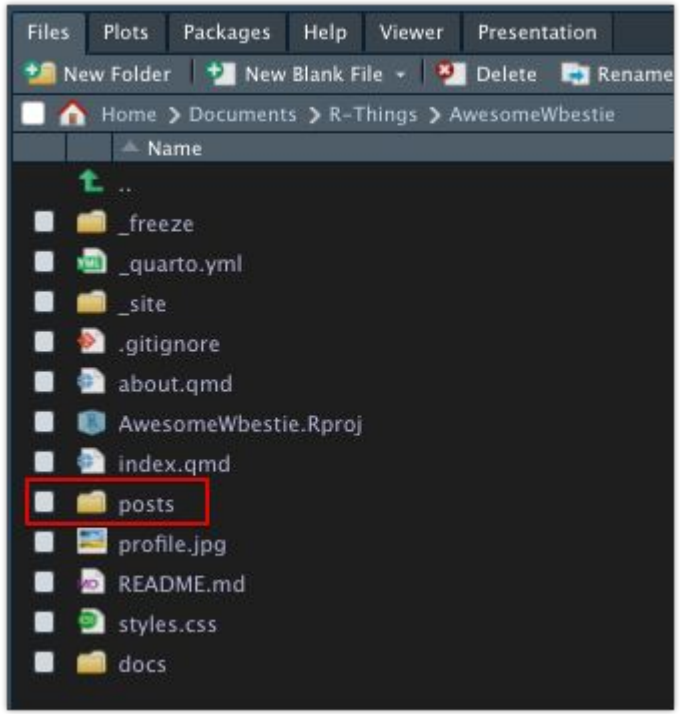


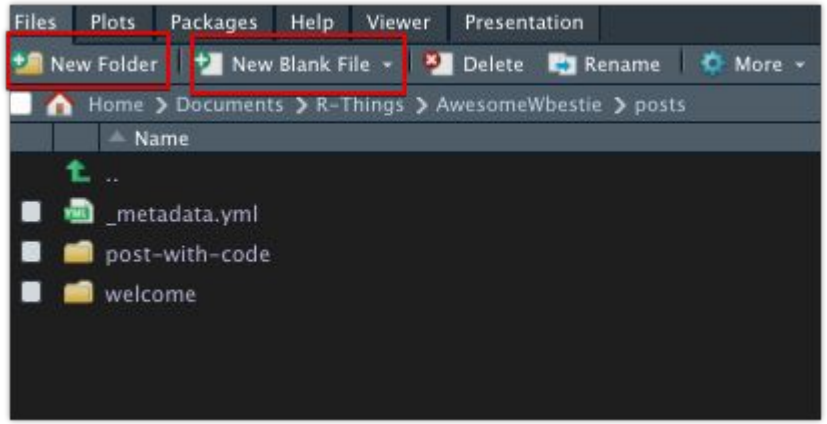
GitHub - on your repo

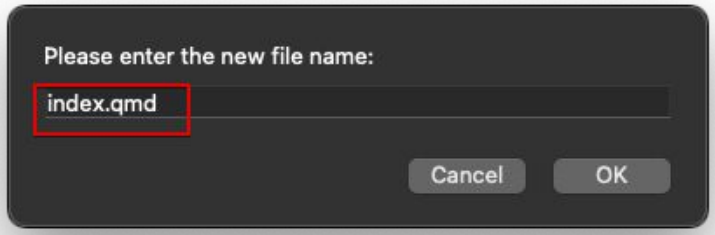


Create new posts

"posts" folder -> create new folder -> create new "index.qmd" file







Most important!!!!!

- **Read the documentation**

  https://quarto.org/

Reading the documentation will allow you to personalize your Website and learn more about how everything works

Bonus

I made a sample Website for you

Steps to clone the Website

- Create a new repo in GitHub
- Select the folder where you want to clone the repo
- Terminal:
  - git clone git@github.com:barajap1/quarto-test-web.git
  - cd quarto-test-web
  - git remote add origin2 *“https://github.com/user/example.git”*
  - git checkout main
  - git pull
  - git push origin2 main
  - git remote remove origin2

Python

python3 install pip (should be installed with Python installation)

- python3 -m pip install jupyter
- pip3 install matplotlib
- pip3 install numpy