

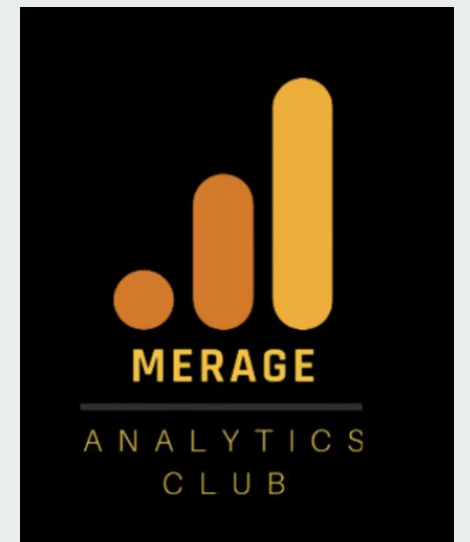


Building a Portfolio Website

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

Create a new repository

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

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *

barajap1 ▾

Repository name *

MyAwesomePortfolioWebsite ✓

Great repository names are short and memorable. Need inspiration? How about [friendly-train](#)?

Description (optional)

An awesome portfolio 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](#).

.gitignore template: None ▾

Choose a license

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


License: None ▾

 You are creating a public repository in your personal account.

Create 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
```



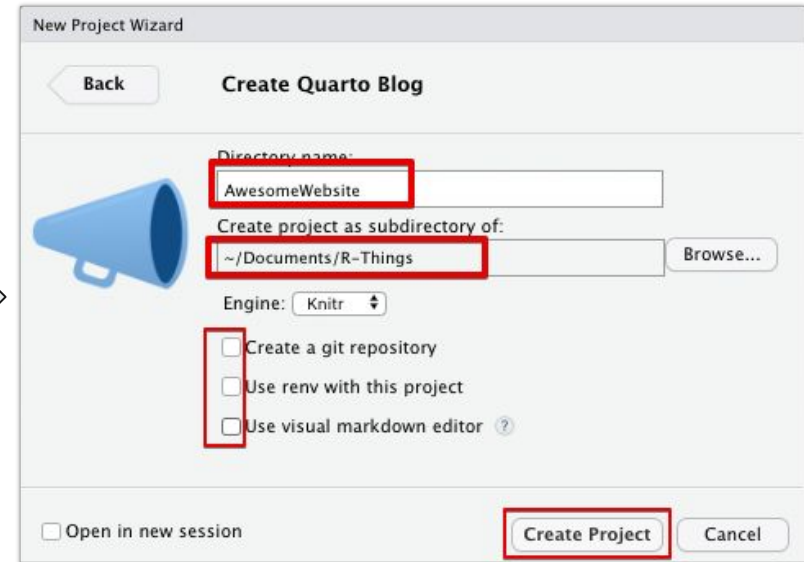
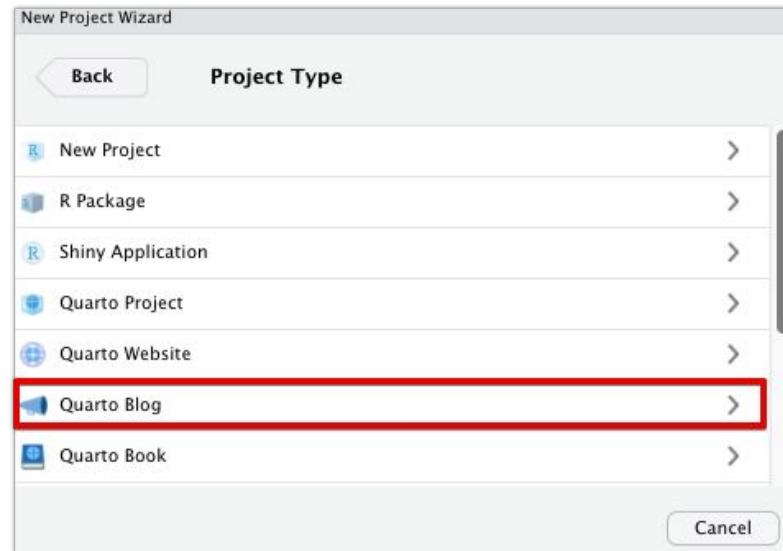
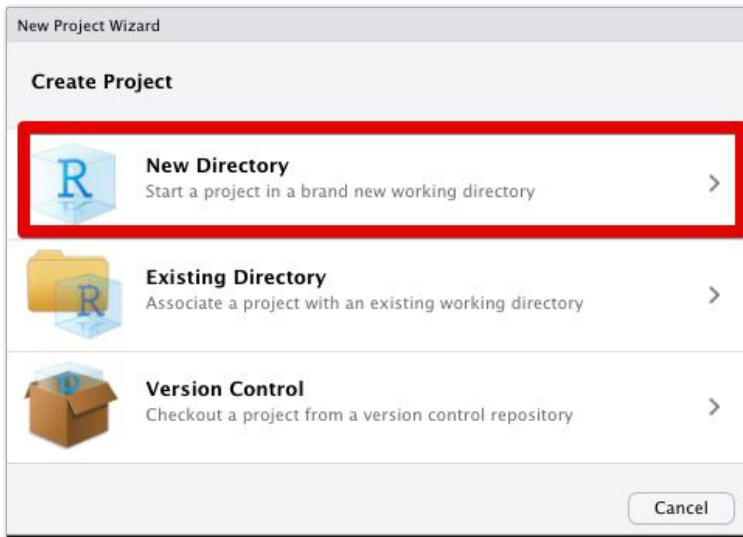
...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

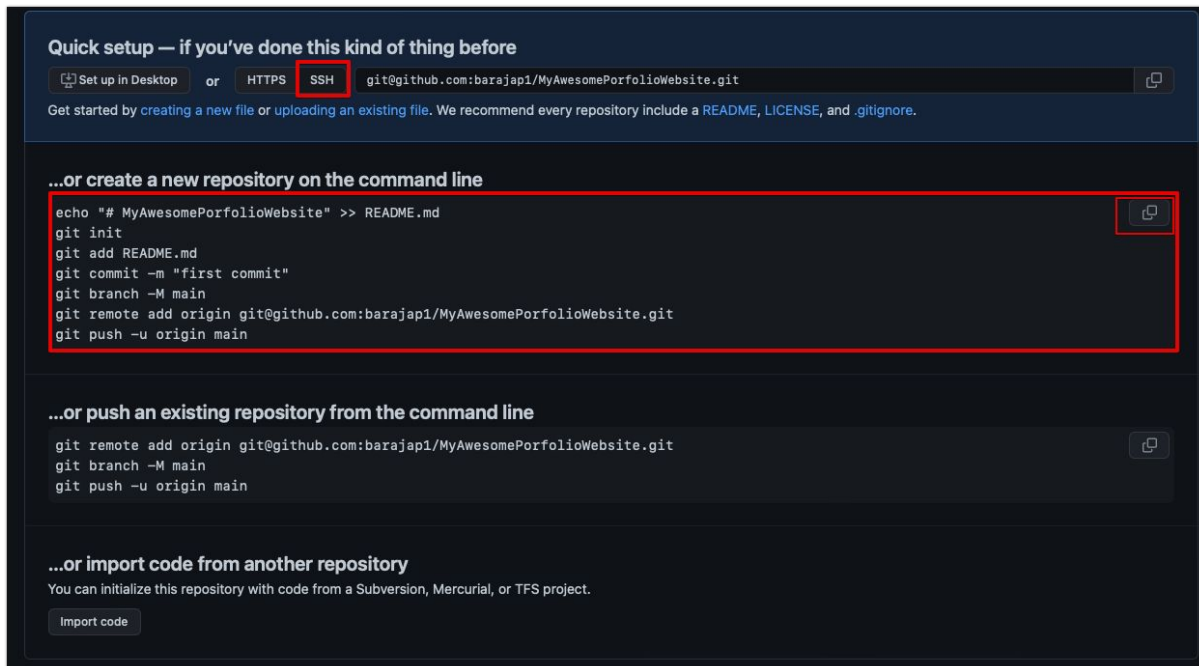
[Import code](#)

RStudio

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

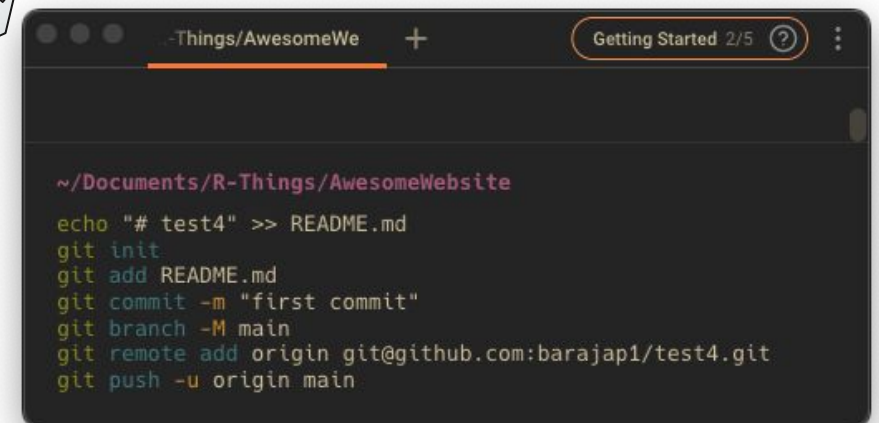


RStudio

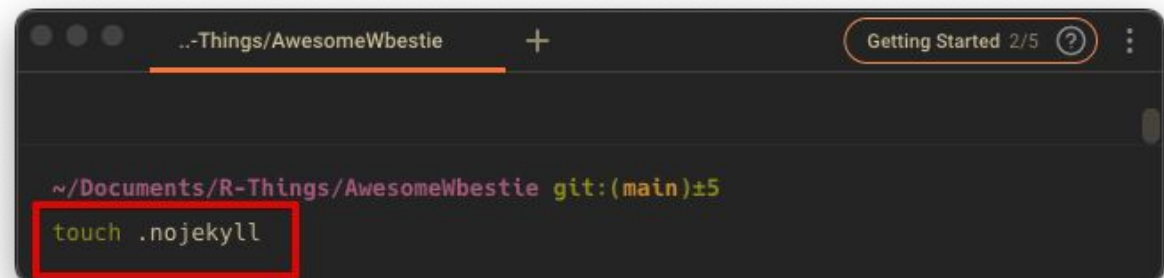
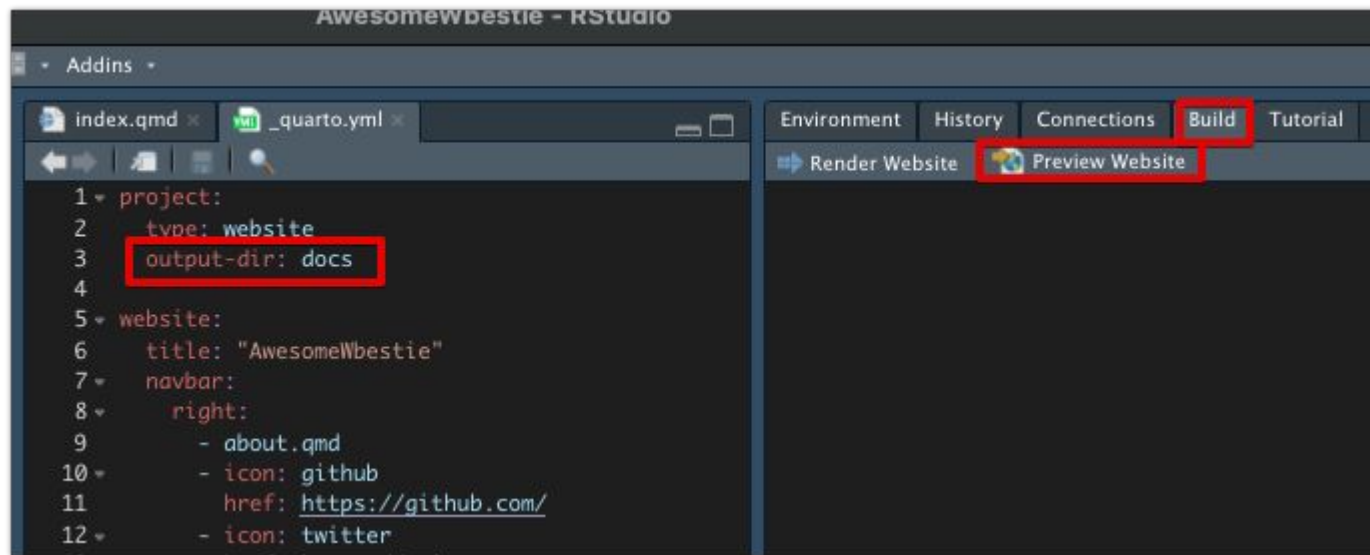


On terminal

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



RStudio



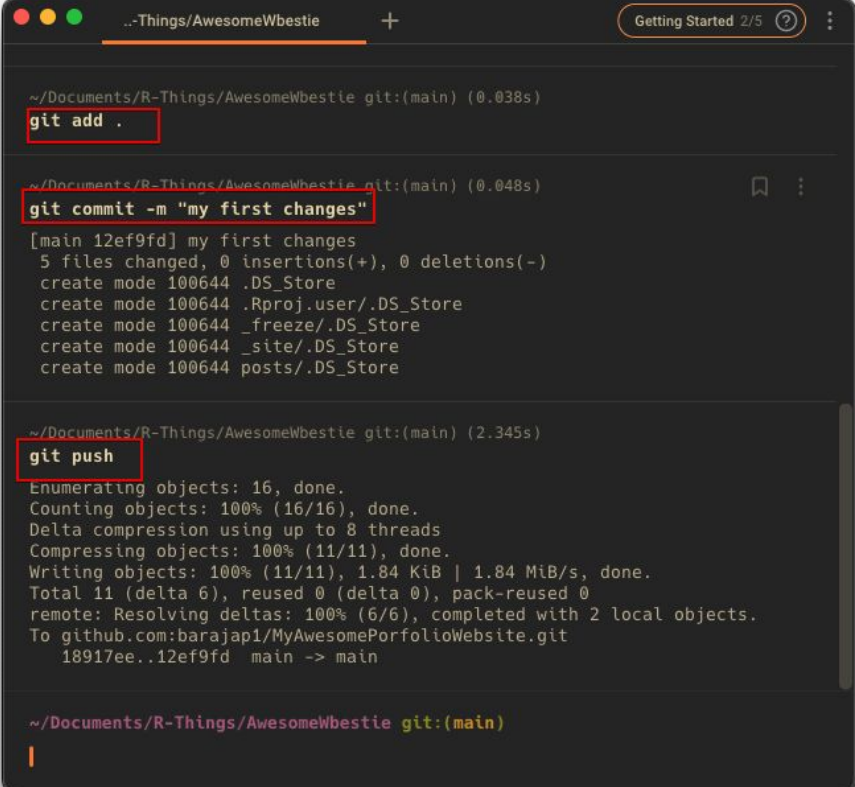
Make changes to the sample website

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

git add .

git commit -m "message"

git push

A terminal window with a dark background and light text. The window title is '..-Things/AwesomeWbestie'. The terminal shows three commands being executed: 'git add .' (highlighted with a red box), 'git commit -m "my first changes"' (highlighted with a red box), and 'git push' (highlighted with a red box). The output for the commit command shows 5 files changed, and the output for the push command shows the objects being enumerated, counted, compressed, and pushed to the remote repository. The terminal also shows the current directory as ~/Documents/R-Things/AwesomeWbestie and the current branch as git:(main).

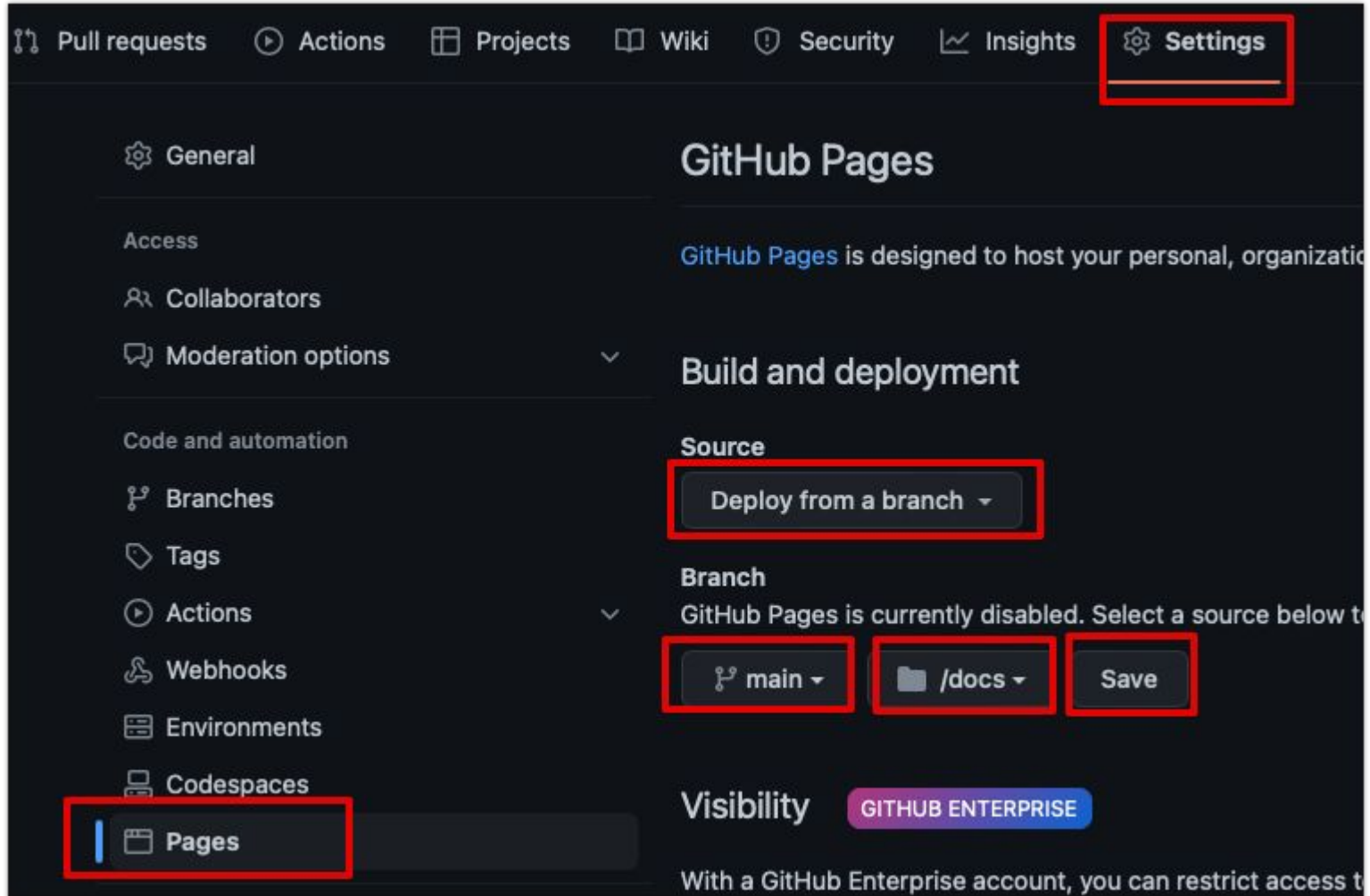
```
~/Documents/R-Things/AwesomeWbestie git:(main) (0.038s)
git add .

~/Documents/R-Things/AwesomeWbestie git:(main) (0.048s)
git commit -m "my first changes"
[main 12ef9fd] my first changes
5 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 .DS_Store
create mode 100644 .Rproj.user/.DS_Store
create mode 100644 _freeze/.DS_Store
create mode 100644 _site/.DS_Store
create mode 100644 posts/.DS_Store

~/Documents/R-Things/AwesomeWbestie git:(main) (2.345s)
git push
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 8 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (11/11), 1.84 KiB | 1.84 MiB/s, done.
Total 11 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (6/6), completed with 2 local objects.
To github.com:barajap1/MyAwesomePortfolioWebsite.git
18917ee..12ef9fd main -> main

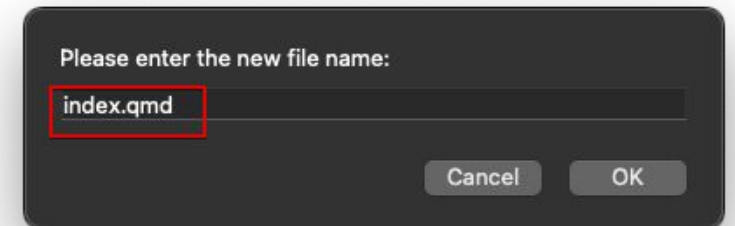
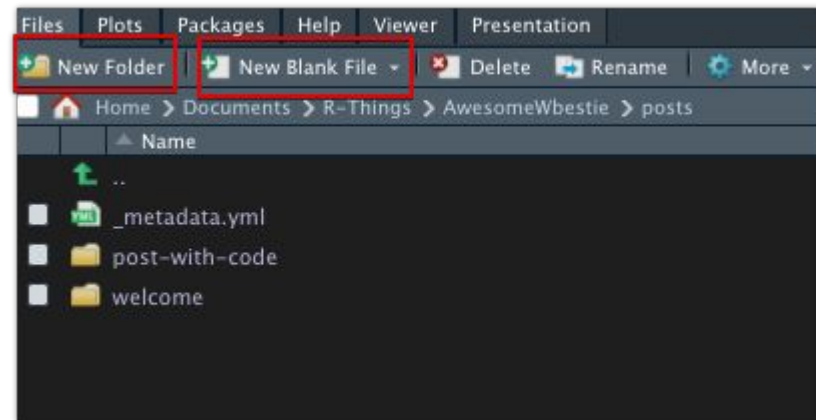
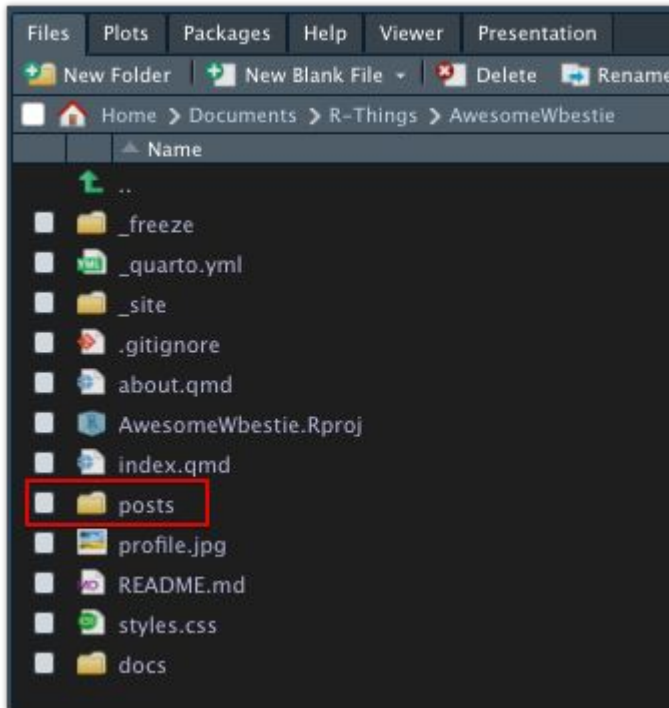
~/Documents/R-Things/AwesomeWbestie git:(main)
```

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`