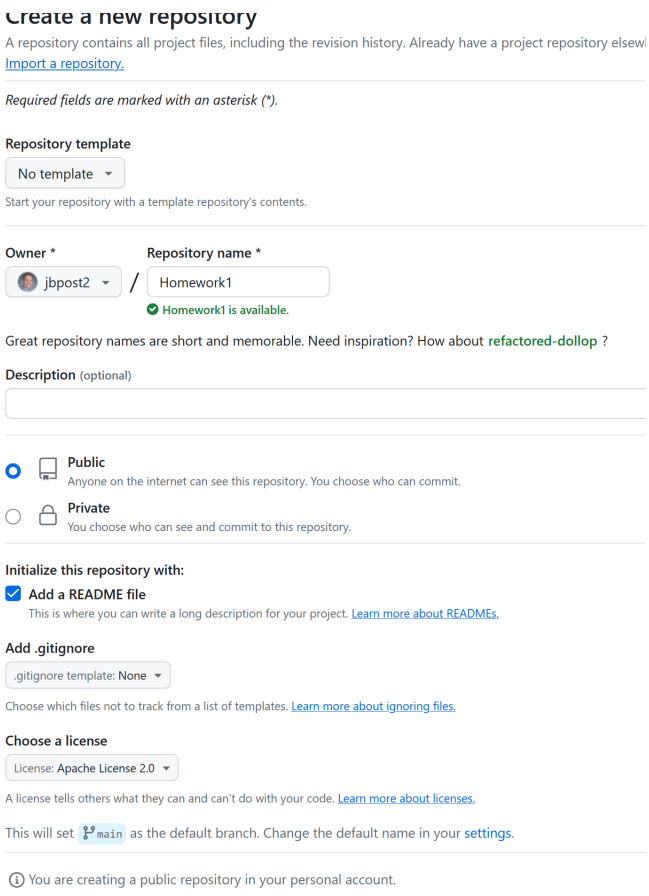
Homework 1

For this homework you will create a github repo, set up github pages, clone the repo to your computer as an R project, create a `.qmd` file, and push those changes back to github to create a webpage! You'll submit the link to your github pages site (the one that looks like a nice website).

Sounds like a lot. We'll get through it! (We're going to follow the process outlined for 'render to docs' from here.)

Step 1

- Head to github and create a new repo.
  - Be sure to make the repo puble and **do not** choose a `.gitignore`



Step 2

- Create a new R project from version control (as we did in the notes/videos) that clones this repository locally.
  - Recall you can click on the green button on the github.com repo website to copy the repo link.
  - A `.gitignore` file may be created in this process. That isn't a worry!

Step 3

- Create a new `.qmd` document that outputs to HTML. You can give this a title about data science. Save the file in the main repo folder.
- In this document, we want to do two things (separate them with headers):
  - First, write text to answer the question:
    - What do you think being a data scientist is about?
    - What differences/similarities do you see between data scientists and statisticians?
    - How do you view yourself in relation to these two areas?
  - You can write in a conversational tone or more formally (however you want to represent yourself). **Use a markdown list at some point.** There is no word count or anything like that, just make sure you answer the prompts above to receive full credit.
  - Second, include a section with the following R code:

```
y <- density(iris$Sepal.Length)
```

    - Create an R code chunk to determine the class, type, and structure of the object `y`
    - Create an R code chunk that uses the plot function on `y`. Hide the R code in the final document by setting echo to false.
    - Include some markdown test between these code chunks explaining what you are doing with the R code.
  - You can render the document to check things are looking good.

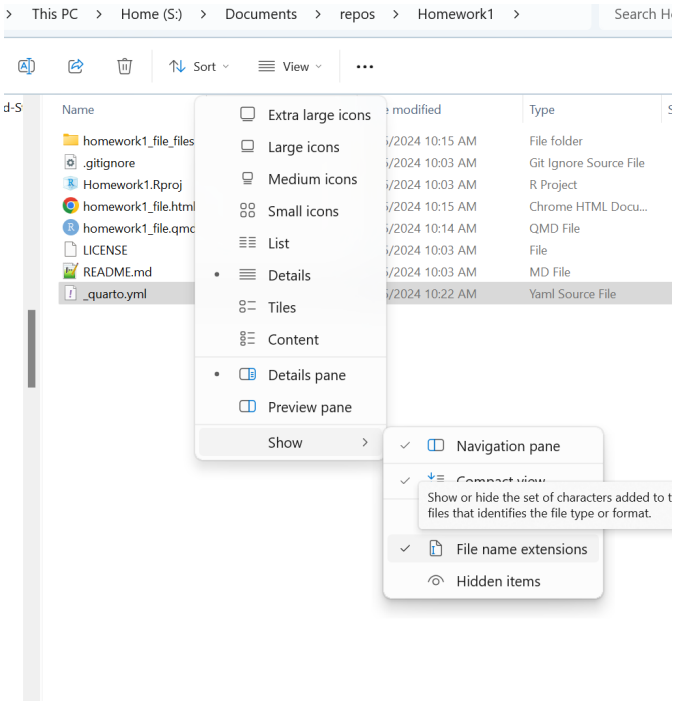
Step 4

In your repo folder (locally), create a file called `_quarto.yml`. Open this file (perhaps in RStudio or a text editor) and place the following in the file (spacing is important!):

```
project:
  type: website
  output-dir: docs
```

To create the file, you can just navigate to the folder and create a new file.

- On windows, first make sure that file extensions show when you look at files in folders.



  - Now right click in the folder area, select 'New' –> 'Text Document'. Change the file name and file extension (the `.txt` part) to `_quarto.yml`. Now you can open the file in RStudio or a text editor and add the text.

- On a mac, you should be able to create a file using TextEdit in your R project folder. Save it as a `.doc` or whatever. Then you should be able to rename the file as `_quarto.yml`. Now you can open the file in RStudio or a text editor and add the text.

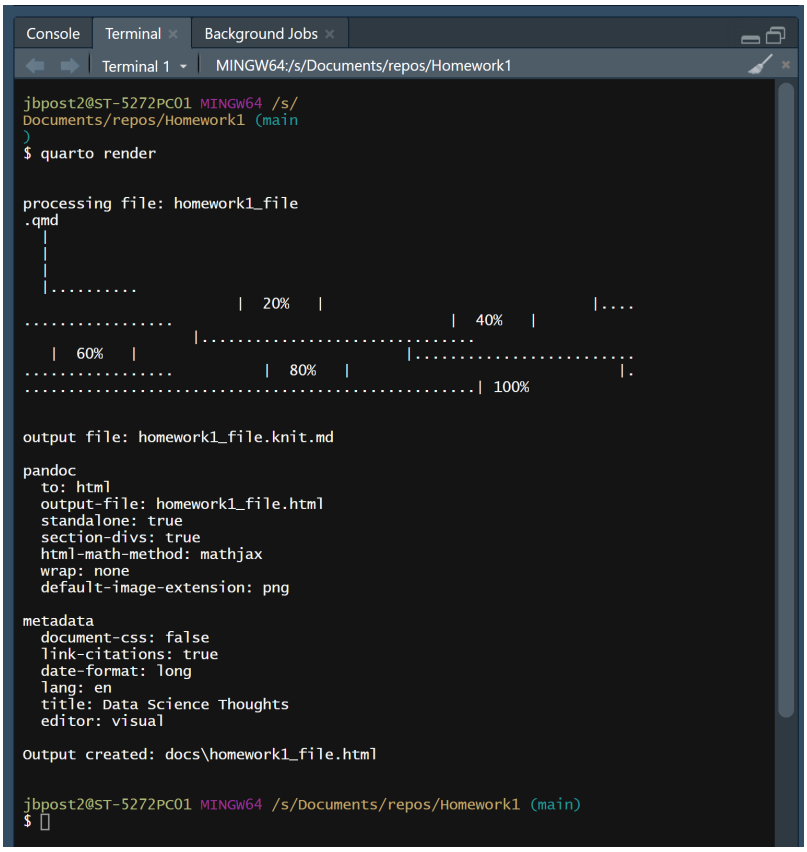
Step 5

Now create a file called `.nojekyll` in your project repo. This file doesn't need to have anything in it! You just need that file there (it may be a hidden file after you create it. Github should still track it.)

Step 6

Open the terminal in RStudio and run the following code:

```
quarto render
```

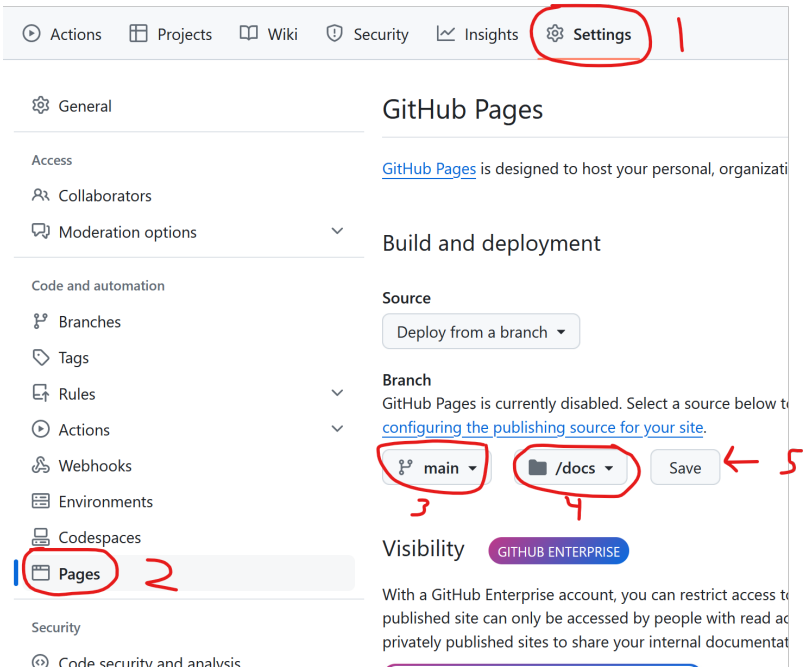


Step 7

Push all changes up to your repo! You can do this via menus or the command line (or via the github web interface).

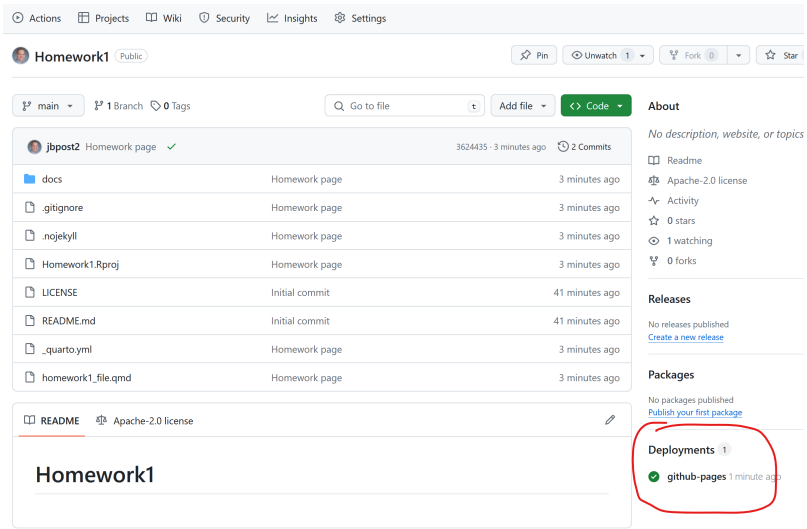
Step 8

Head to your github repo page. Go to settings, choose pages, and under “Branch” choose ‘main’ and change the folder to /docs. Then hit save!

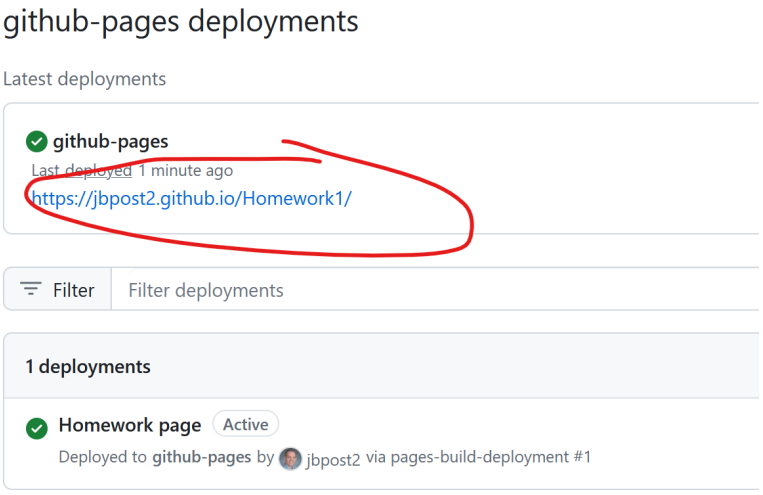


Step 9

Wait about 2 minutes... Head back to your main github repo page. You'll now see a 'Deployments' section on the bottom right.



Click on that. Hopefully, after a minute you see a green check and something that says your site is ready!



Click on that and you should see a nicely rendered website! Copy the link to that site and that is what you'll turn in for this assignment!