Create a GitHub Portfolio for Class Work Using GitHub Pages

A large portion of the class grade will be the work you upload to your portfolio. This will be a combination of code, code narrative, reports, and presentations. The three steps to set up and create the portfolio are described below.

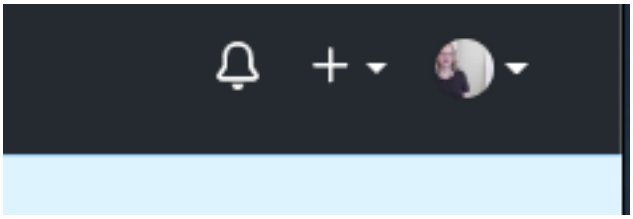
Step 1: Set up a GitHub account (if you don't have one) and a repo for your classwork

- Go to www.github.com and set up a username and password. The basic account is free.

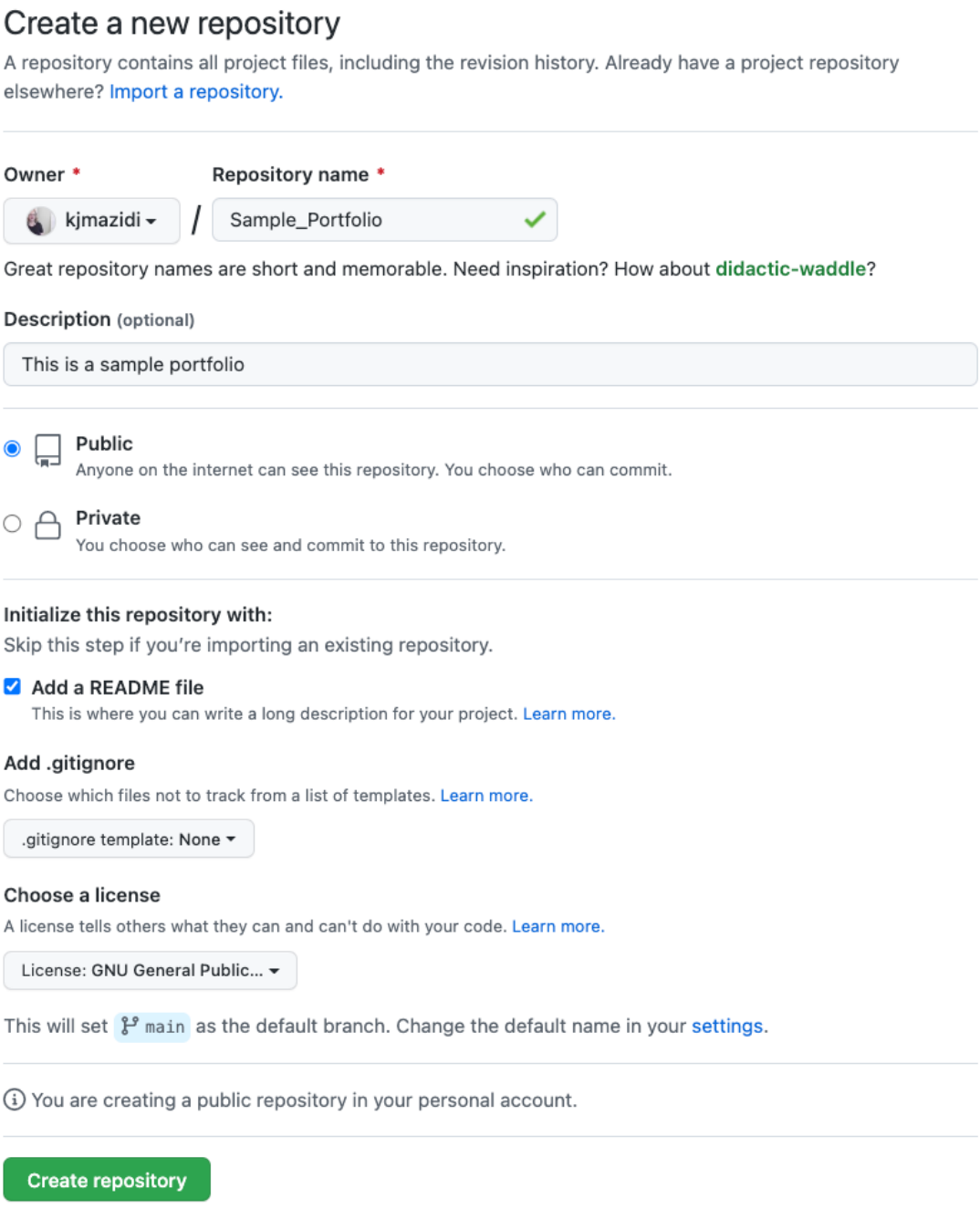
- Optional: set up your profile so that potential employers can find you. There is an option to show your contributions, and another one to check if you are available for hire. There are many other interesting options to read through.

- Install GitHub Desktop on your computer. If you are familiar with git commands, you can just use the command line options, but GitHub desktop makes uploading and modifying your work easier. Google Desktop: https://desktop.github.com/

- Create a repository specifically for this class. Click the + at the upper right and select "New repository".



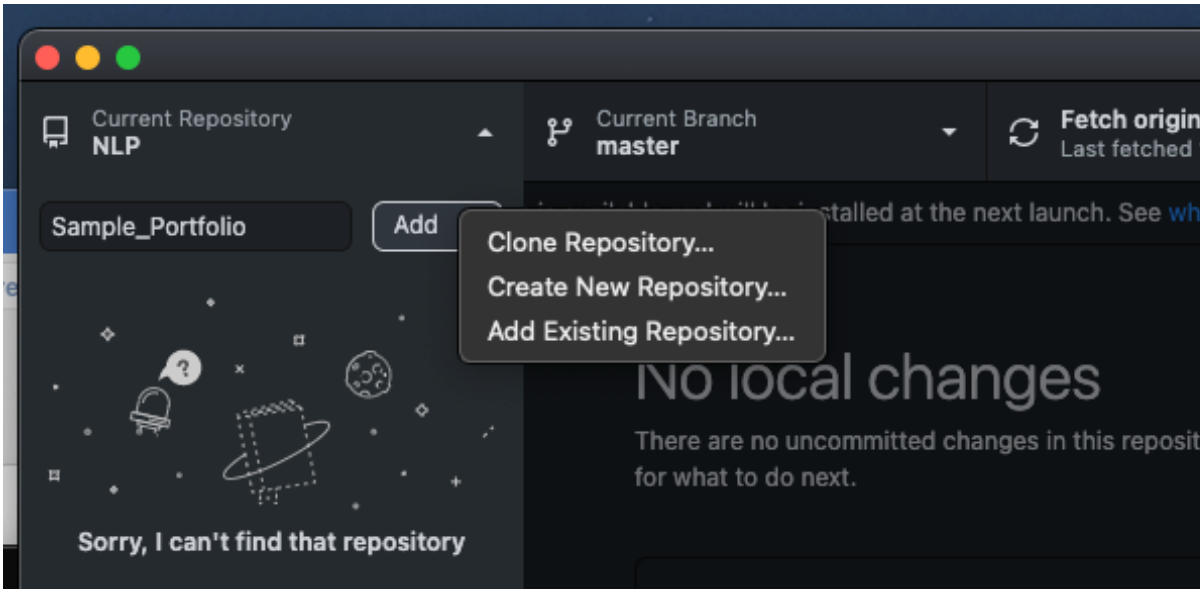
- Give it a name, description, and make it public. Also check that you want to set up a README, a gitignore and a License. The license you choose is up to you.
This screen looks like this:



Click Create when you are ready

You will see the repo with the README.md file.

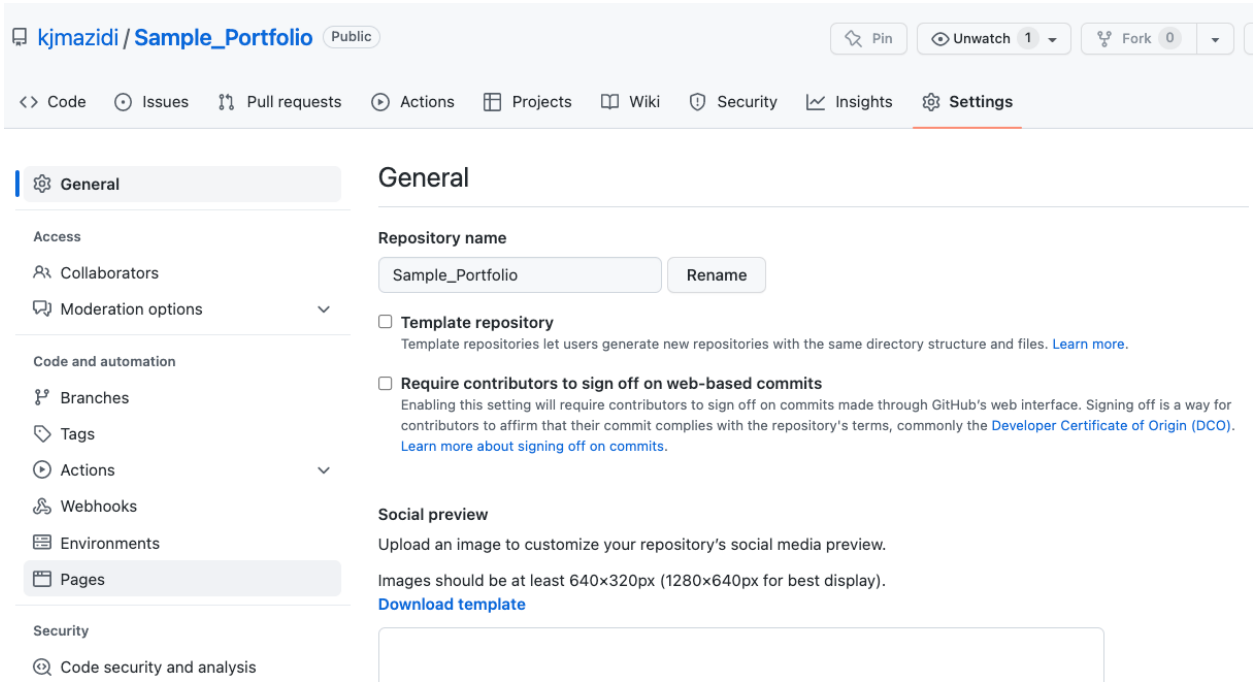
- Now that you have a repo, sync this with your GitHub Desktop app.
- In the left panel of GitHub Desktop, type in the name and click the arrow to the right of add. Choose Clone Repository.
- GitHub may take you to a second screen where you type in the name again.



Step 2: Enable GitHub Pages for this repo

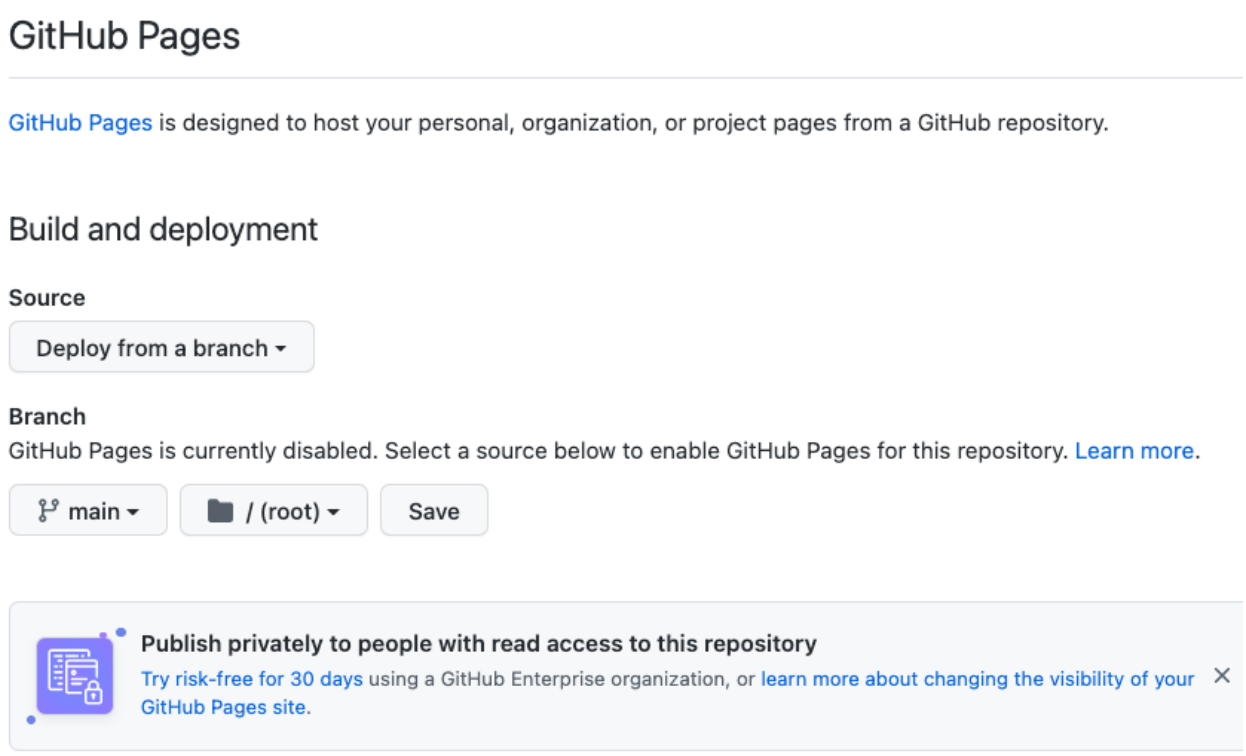
1. Enable GitHub Pages in your class repo. Go to your repo on github.com. Select settings for this repo and then click “Pages” in settings or in the sidebar

This screen shot is showing Settings for the repo. Select Pages.



Once you click “Pages” you end up on the screen below.

1. Source – choose Deploy from a branch
2. Branch – choose main



Click Save.
You are then taken to a page that lets you specify a custom domain. Ignore that.

If you go page to Settings -> Pages for your repo, you will see that GitHub Pages is live at your address. Mine was:
https://kjmazidi.github.io/Sample_Portfolio/

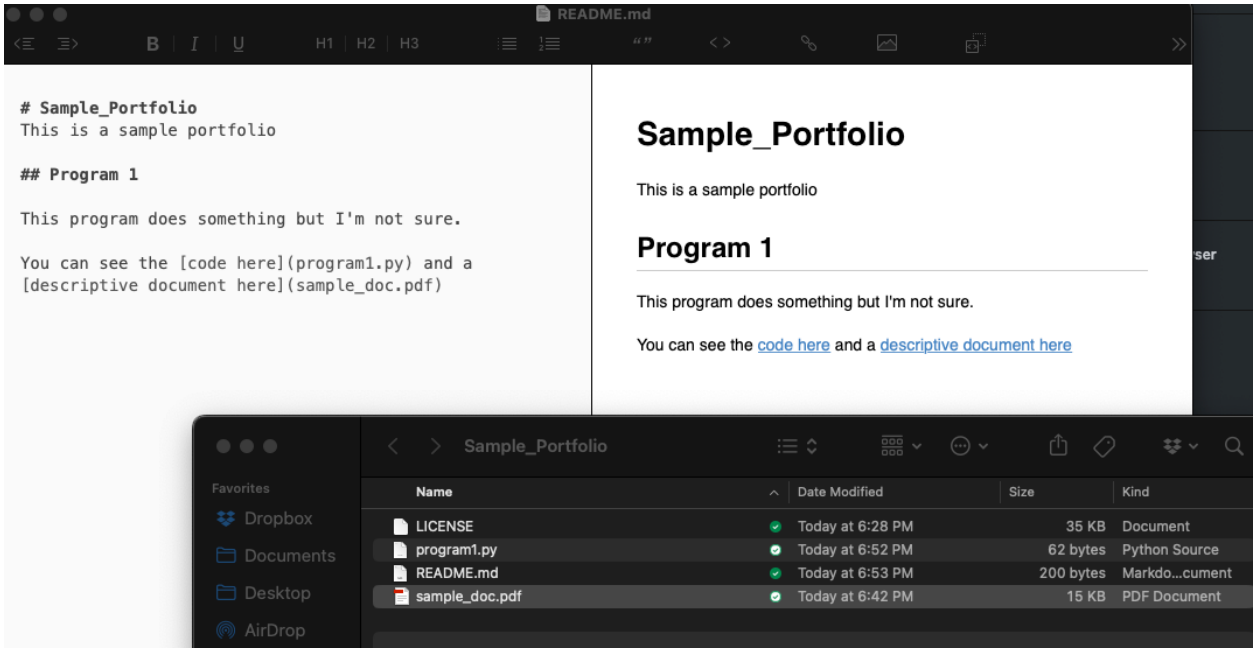
If you go back to your repo on GitHub you will see your README.md which is serving as the landing page for your GitHub pages.

Step 3: Organize and upload material as follows

1. As you add material, provide a link to it on your main page (the README)

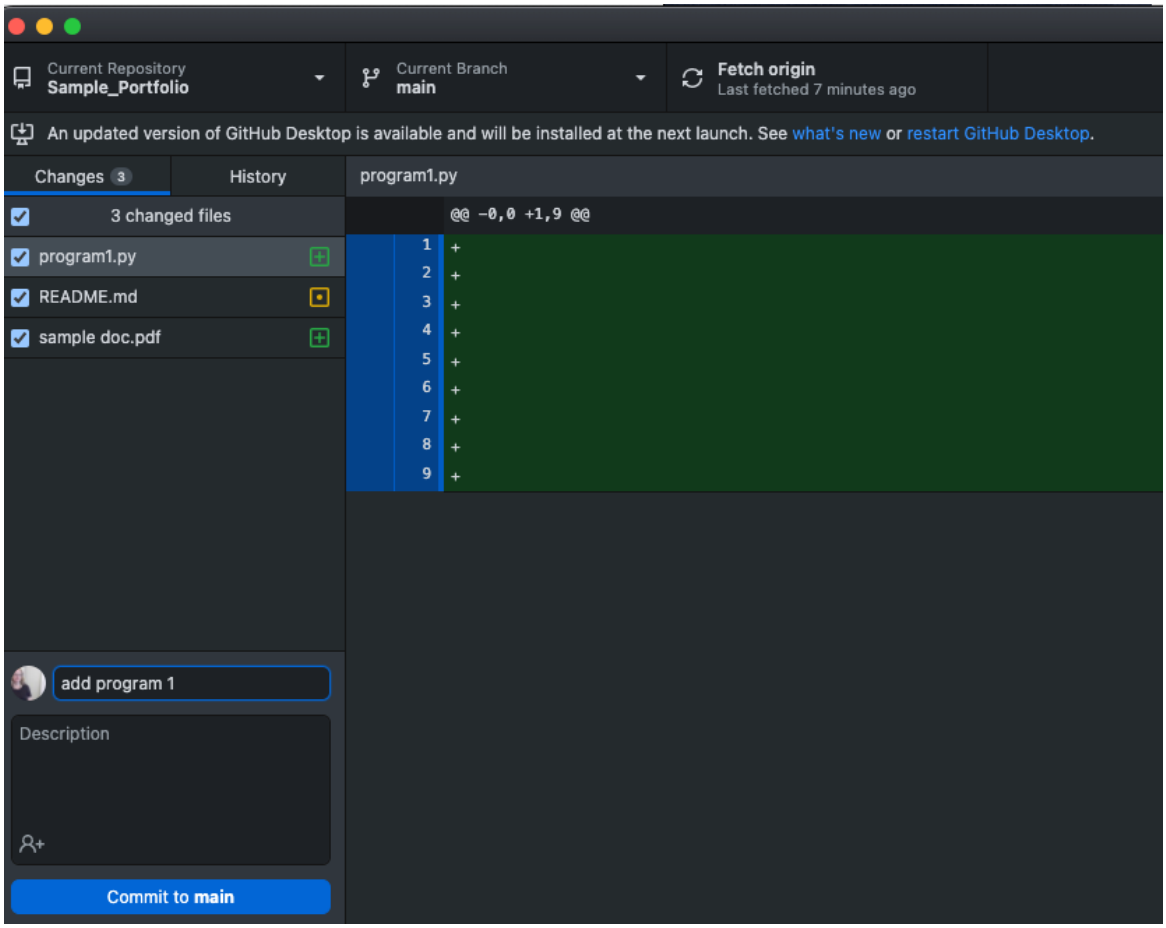
I think the easiest way is to add files to your local repo. Then push to origin in GH Desktop.

This screen shot shows the files I added to the repo in the dark box, and above that a markdown editor I use on the Mac called MacDown to edit the README. You can use a simple text editor as well. MacDown and similar editors show the markdown code on the left and how it will render on the right.

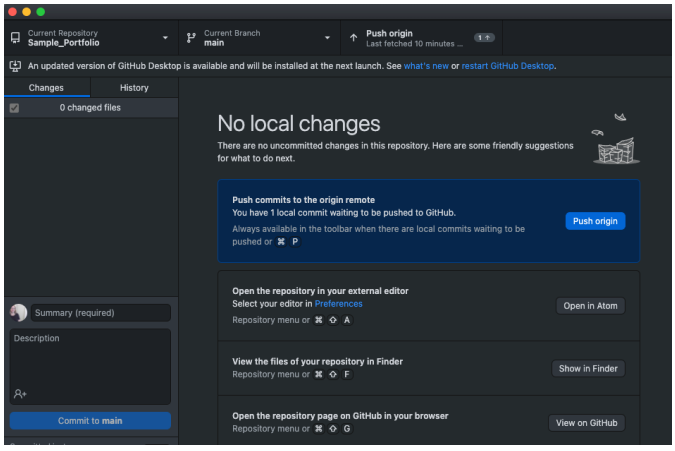


Now I'm ready to push these changes to GitHub. See next page.

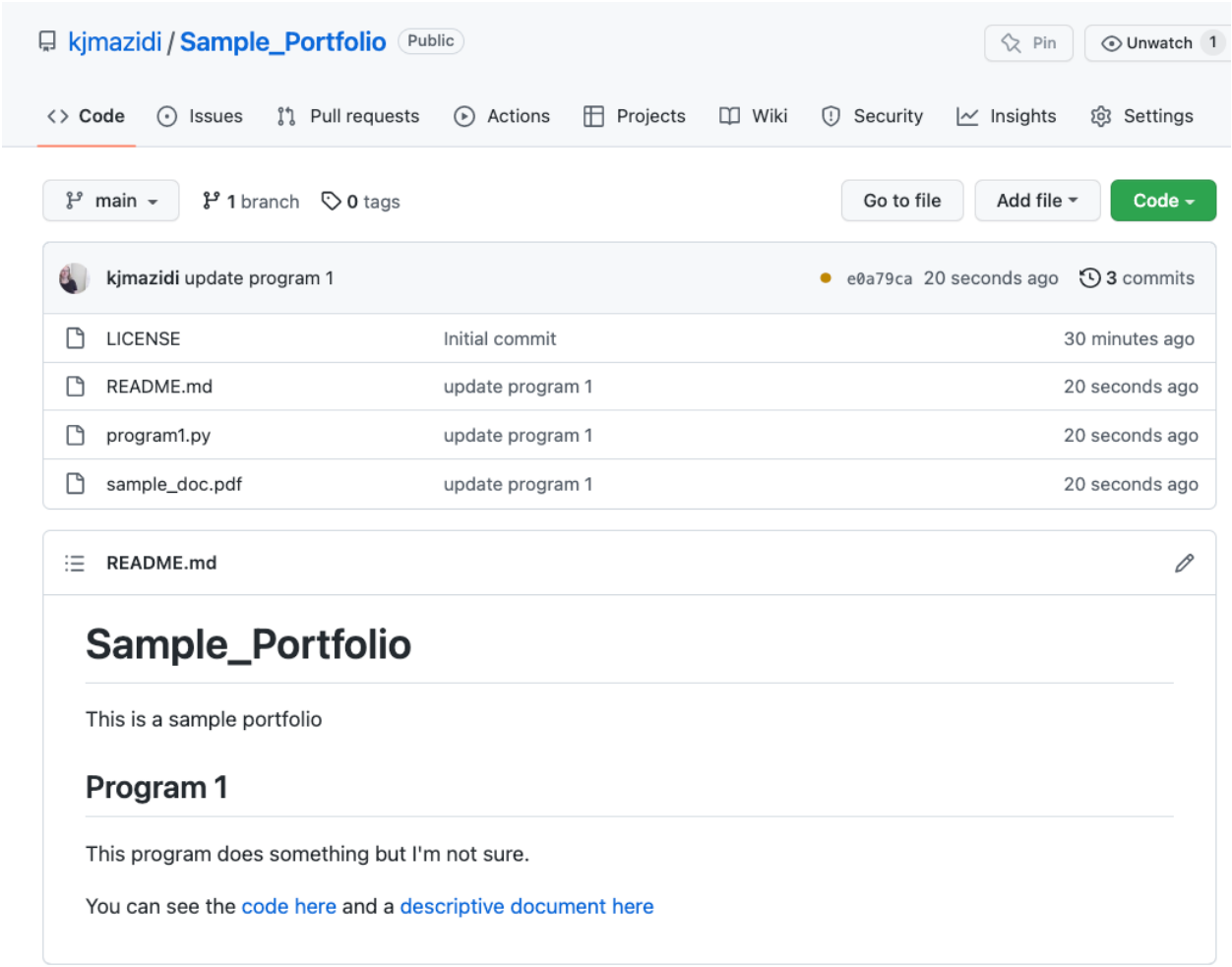
Here is a reference sheet for markdown: https://www.markdownguide.org/cheat-sheet/



The screenshot above shows GH Desktop telling me that I've made changes to the local repo. It wants a comment. I wrote "add program 1". Now all I have to do is click the blue "Commit to main", then the Push to Origin button which will pop up, as shown below:



Now when I go back to my GitHub repo online, I see this:



Notes:

1. Remember that assignments are uploaded to eLearning for the TA to grade, as well as being uploaded here for the portfolio.
2. GitHub does not play nicely with file names with spaces so_use_underscores.