

GitHub Authentication

1. Before accessing the repository from your computer and running the scripts you must have Git installed, which you can install here: <https://git-scm.com/download>
2. The process from here will differ depending on your computer (Mac or Windows), follow the steps below accordingly
3. In your terminal (also called command prompt window) type:
 - a. Note, add the email associate with your GitHub account

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```
4. The terminal will prompt you to enter a password and location, you don't need to do this. Simply click enter and you will see a randomart image generated
5. Here is the tricky part, you will now need to access your key. Mac has a nifty shortcut to pasting in in your clipboard, see the command below. However, the process is a little more complicated for Windows but there is a simpler method to do this
 - a. For Mac:
 - i. To copy the key to your clipboard type the following command

```
pbcopy < ~/.ssh/id_rsa.pub
```
 - ii. If you are prompted with an error about rsa not being found start over with the key generation with this command instead

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```
 - b. For Windows
 - i. When you first generated your key it was saved in the default Admin folder. Access this by doing the following
 1. In documents, go to "My PC"
 2. Open the "Users" folder
 3. You will have a folder called "Admin" or your name depending on how your computer was set up. Click on this and you should see a folder called ".ssh". If not, you are in the wrong folder
 4. Open the ".ssh" folder. Your keys are here
 5. Open the .pub extension file with Notepad and copy the key provided. It should end with your email
6. Once you have your key go to GitHub and go to "Settings" in the dropdown menu. You will see an option on the left called "SSH and GPG keys." Click on this.
7. Click the green "New SSH Key" button. Here, I recommend you name your key after the device you are using to help you keep track of it. Paste your key in the text box and save.
8. As one final step, go to your terminal again and type the follow command. This will test if your keys work

```
ssh -T git@github.com
```

 - a. The terminal will prompt you asking if you trust the host, type Y or yes
9. You will get a greeting message with your username confirming you have authenticated with GitHub. Congrats!