

Github Setup

We'll use Github to share assignments for the majority of this course. Git is a powerful tool that we'll cover in more depth later. For now, though, we just need to focus on setting up your account to clone a repository.

1. Install Git

- Go to the official Git download page (<https://git-scm.com/downloads>).
- Download the appropriate installer for your operating system.
- Run the installer and follow the instructions to set up Git using the default settings.

2. Create a GitHub account

- Go to GitHub's website (<https://github.com/>) and click on the "Sign up" button in the top right corner of the page.
- Follow the instructions to create your account.
- Choose a plan – GitHub offers free plans for personal use.
- Verify your email address by checking your email and clicking on the verification link.

3. Generate an SSH key

- Open a terminal or command prompt on your computer. (On Windows, press Windows key, type "Command Prompt" or "cmd," and press Enter. On macOS, open Finder, go to Applications > Utilities, and open Terminal.)
- Enter the following command (replace the email with your own):

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

- Press "Enter" to accept the default location for the SSH key.
- Choose a password to secure your SSH key, and enter it twice when prompted. You won't see the password, but don't worry; it's there.

4. Add your SSH key to your GitHub account

- Go to your GitHub account settings by clicking on your profile picture in the top right corner of the page and then clicking on "Settings."
- Click on "SSH and GPG keys" in the left sidebar.

- Click on the "New SSH key" button.
- Enter a title for your SSH key (e.g. "My Laptop").
- Open the file that contains your SSH key (typically `~/.ssh/id_rsa.pub` on Linux/Mac or `C:\Users\username\.ssh\id_rsa.pub` on Windows) with a text editor like Notepad and copy all of the text.
- Paste the contents into the "Key" field on the GitHub website.
- Click on the "Add SSH key" button to save your SSH key.

5. Clone the Git repository

- Go to the GitHub page for the repository you want to clone.

<https://github.com/Hjhawley/NeuroDev-Tech-Class-Python1>

- Click on the "Clone or download" button on the right side of the page.
- Click on the "Use SSH" button to copy the SSH URL of the repository to your clipboard.
- Open a terminal (or command prompt) on your computer.
- Navigate to the directory (folder) where you want to clone the repository.
- Enter the following command (replace "username" and "repository"):

```
git clone git@github.com:username/repository.git
```

- Once the cloning process is complete, you should see a new directory containing the files from the repository.

6. Configure Git

- Open a terminal or command prompt on your computer and enter the following commands, replacing "Your Name" and "your_email@example.com" with your actual name and email address:

```
git config --global user.name "Your Name"
git config --global user.email "your_email@example.com"
```

These settings will be applied to all repositories on your computer. You should now be able to access the cloned repository from your file explorer. You can also add the directory to your workspace within VS Code.