

Git/GitHub Setup Guide

Penn Spark Spring 2022

1. Use [this guide](#) to download Git on your local system (section under either 'Install Git on Windows' or 'Install Git on Mac'). If you're successful, running ``git version`` on the command line should return the current git version.
2. Create a GitHub account [here](#) if you don't already have one.
3. Connect to GitHub via SSH using the following [guide](#) (separate tabs for different operating systems). You'll have to generate a new SSH key for your device and add it to your GitHub account in order to push local commits to GitHub repos.
4. Test your SSH connection as follows:
 - a. Open Terminal (or Git Bash for Windows).
 - b. Enter the following:
 - i. `ssh git@github.com`
 - c. You might see a warning like this:

```
> The authenticity of host 'github.com (IP ADDRESS)' can't be
established.
> RSA key fingerprint is
SHA256:nThbg6kXUpJWG17E1IGOCspRomTxdCARLviKw6E5SY8.
> Are you sure you want to continue connecting (yes/no)?
```
 - d. Verify that the displayed RSA key fingerprint matches [GitHub's RSA public key fingerprint](#) and type yes if so.
 - e. If all goes well, you should see the following message with the username replaced with your GitHub username.

```
> Hi username! You've successfully authenticated, but GitHub does
not provide shell access.
```
 - f. If you receive a "Permission denied" message, you may have forgotten to add your SSH key to your GitHub account at the end of step 3. See ["Error: Permission denied \(publickey\)"](#) for more information.

5. Check your global configuration by inputting the following in your terminal:

- a. `git config --list`
- b. Verify that “user.name” and “user.email” exactly match what exists in your GitHub account (i.e user.name is your GitHub username and user.email is your GitHub email).
- c. If that is not the case or if username/email don't show up, run the following commands in your terminal:
 - i. `git config --global user.name "Your GitHub username"`
 - ii. `git config --global user.email "Your GitHub email"`

6. Congrats! You have successfully set up Git!