

Códe Boot Camps

Starting With Github and Git for an Apple Machine

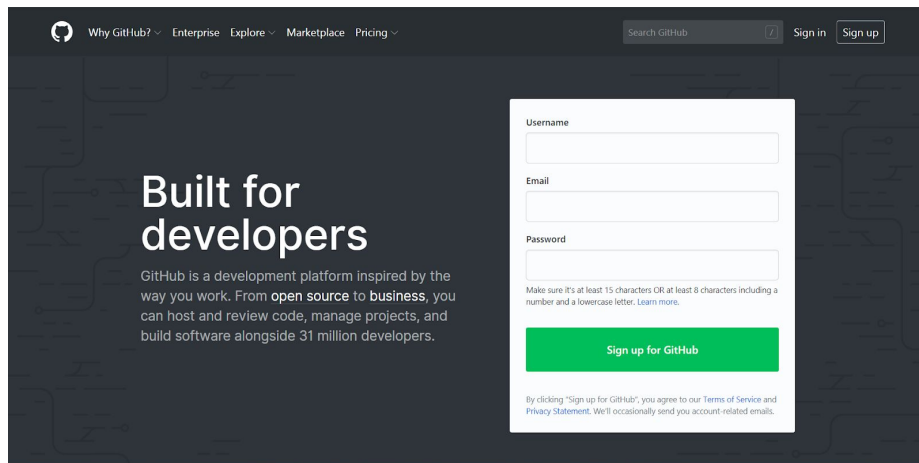
All of the materials used in our bootcamps will be found on [Github](https://github.com), you'll be able to download notes, jupyter notebooks, code, and data all onto your own laptop using [Git](https://git-scm.com/). It's okay if you don't know what those are yet, that's what this handout is for! We'll start off with getting you set up with a Github account.

Before The Boot Camp Starts

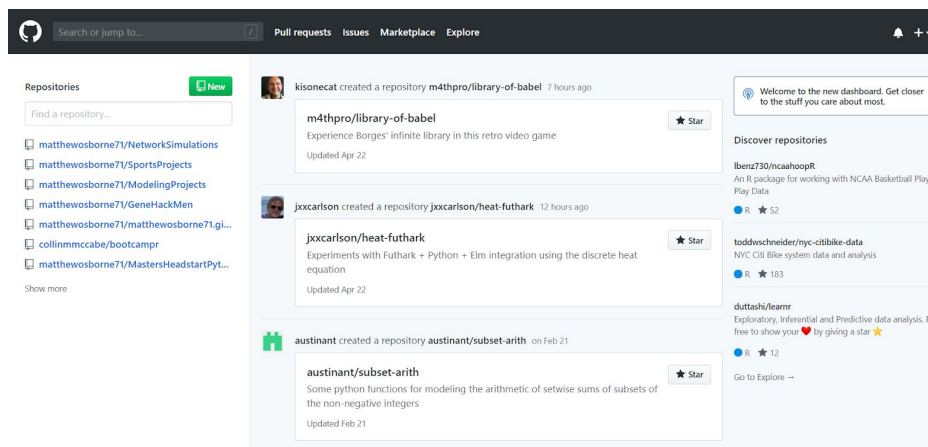
Getting A Github Account

You can skip this if you already have a github account.

Click on the following link, www.github.com, you should see the following:

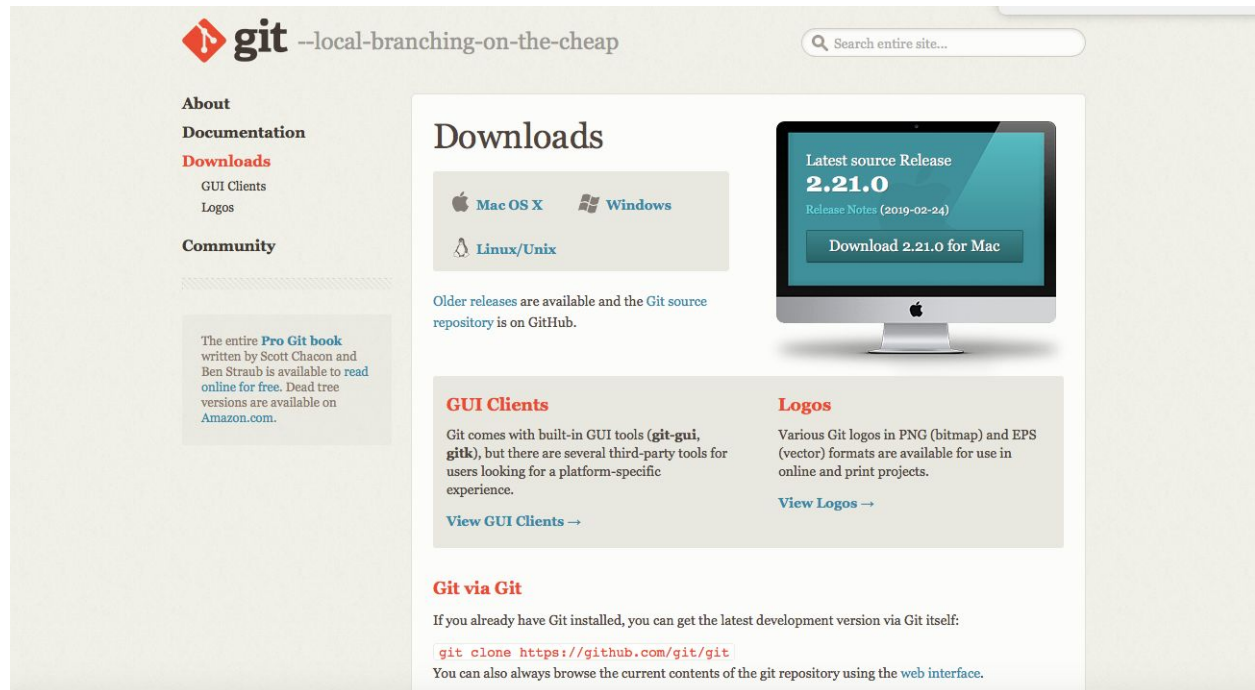


Sign up with a username, your preferred email, and password. Follow along with the website's step by step instructions. When you're done you should see something like the following when you go to www.github.com:

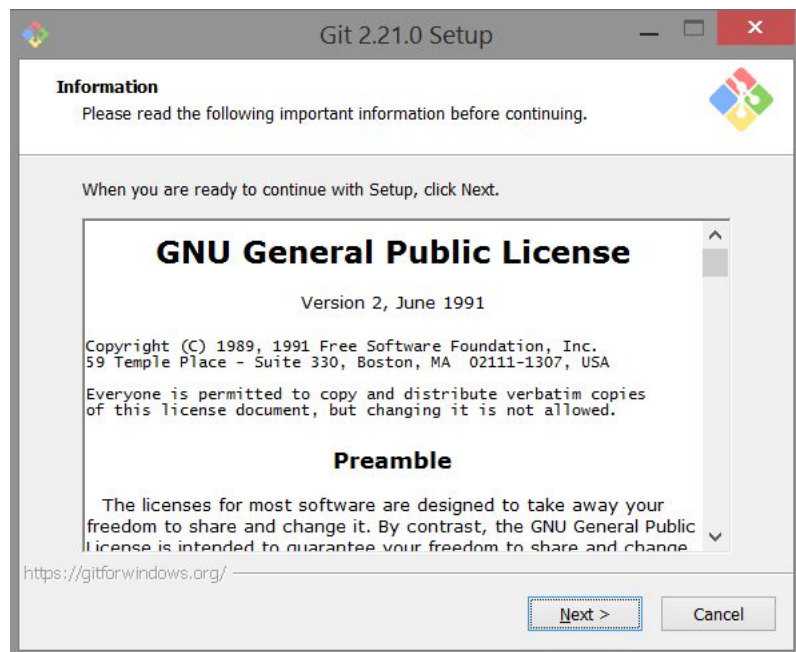


Getting Git

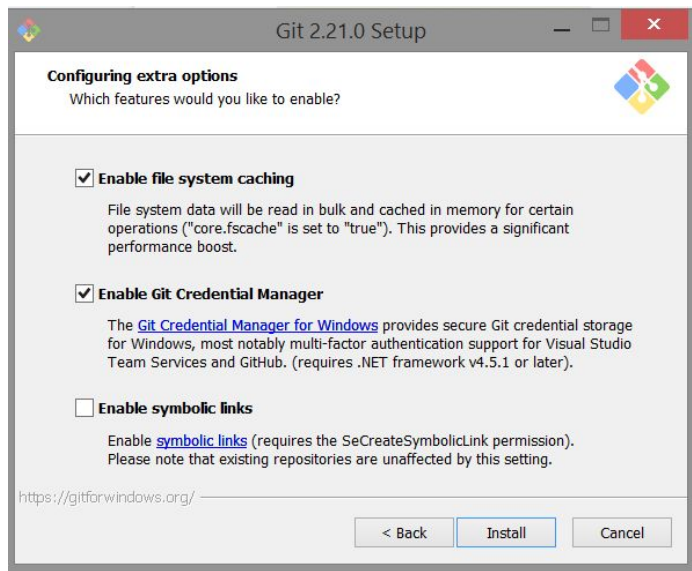
Git will be how you get course notes, go to the following link, <https://git-scm.com/downloads>. You'll see this:



Click on the box that says Download, this will download an executable file to your laptop, once downloaded click on it, you should see this (Note if a download does not occur when you click, scroll down):



Click through Next, keeping the default settings until you get to this screen:

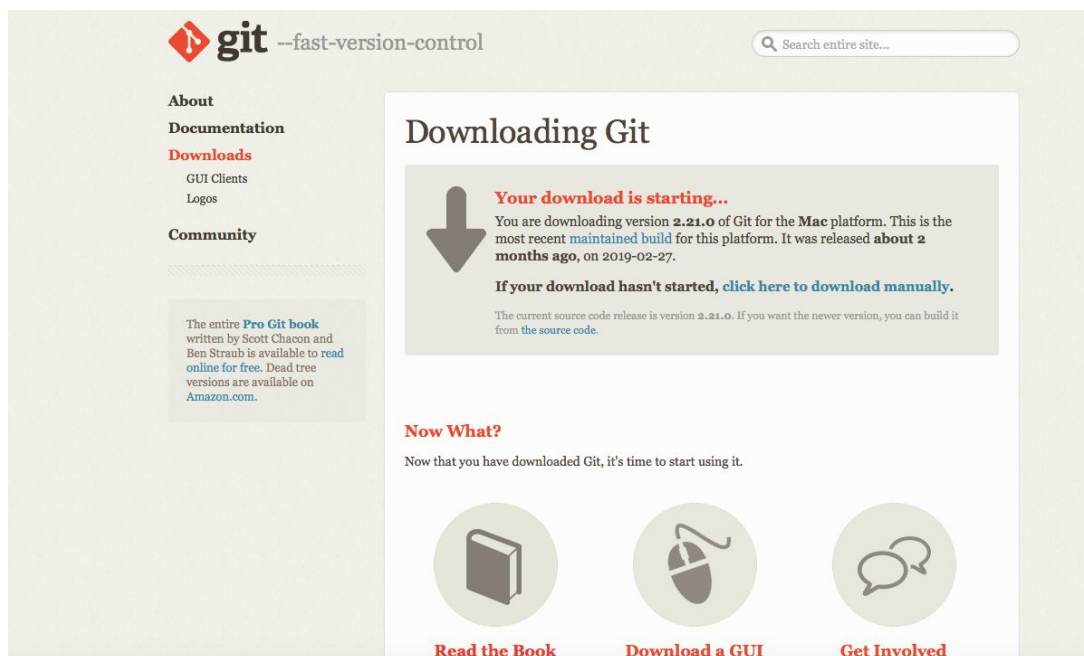


Click Install, This will install git onto your laptop.

If Download does not initially work:

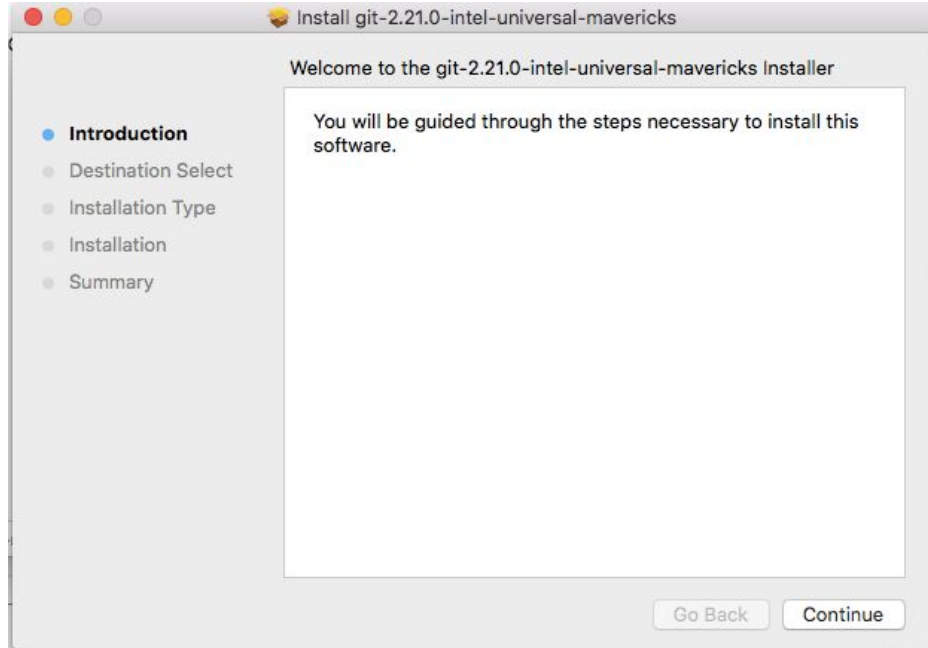
If the download didn't work when you clicked on the Download for Mac button do the following:

1. Click 'click here to download manually'



2. *Open the downloaded file and click on the cardboard box icon*

3. *Work through the steps of the installer*

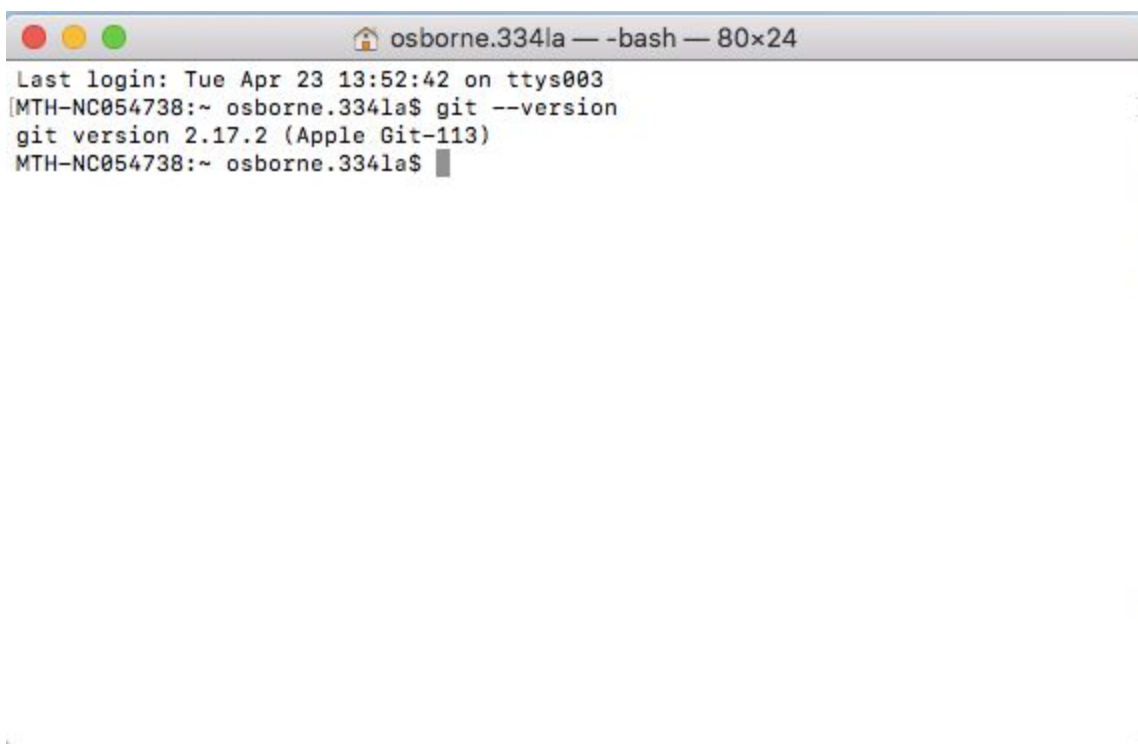


We'll check that it was properly installed now. Go to your terminal and type `git --version` like so:



```
osborne.334la — -bash — 80x24
Last login: Tue Apr 23 13:52:42 on ttys003
MTH-NC054738:~ osborne.334la$ git --version
```

You should see the following if it is properly installed (note the version number will probably be different)



```
osborne.334la — -bash — 80x24
Last login: Tue Apr 23 13:52:42 on ttys003
[MTH-NC054738:~ osborne.334la$ git --version
git version 2.17.2 (Apple Git-113)
MTH-NC054738:~ osborne.334la$
```

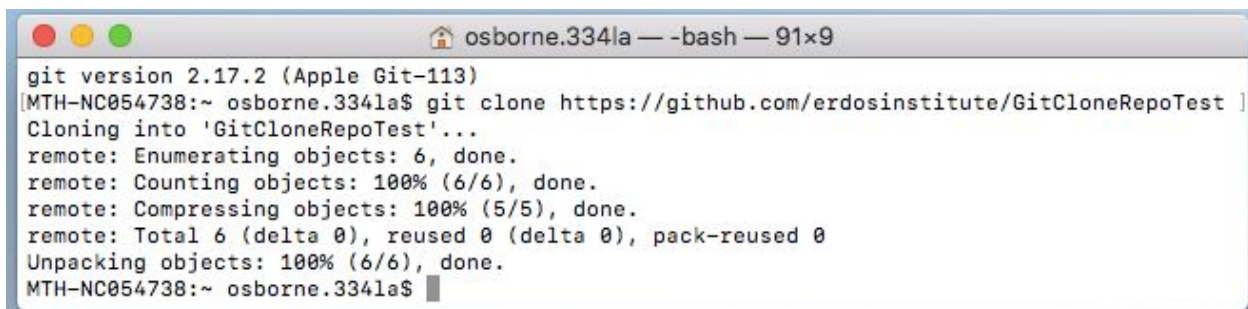
Cloning a Repository

The way you'll get course materials is by 'cloning' the instructor's repository. We'll practice this right now. Repository is just a fancy name for folder.

We're going to clone this repository <https://github.com/erdosinstitute/GitCloneRepoTest> into our laptops. Decide on a folder where you'd like to store this repository, a good default is just your Documents folder.

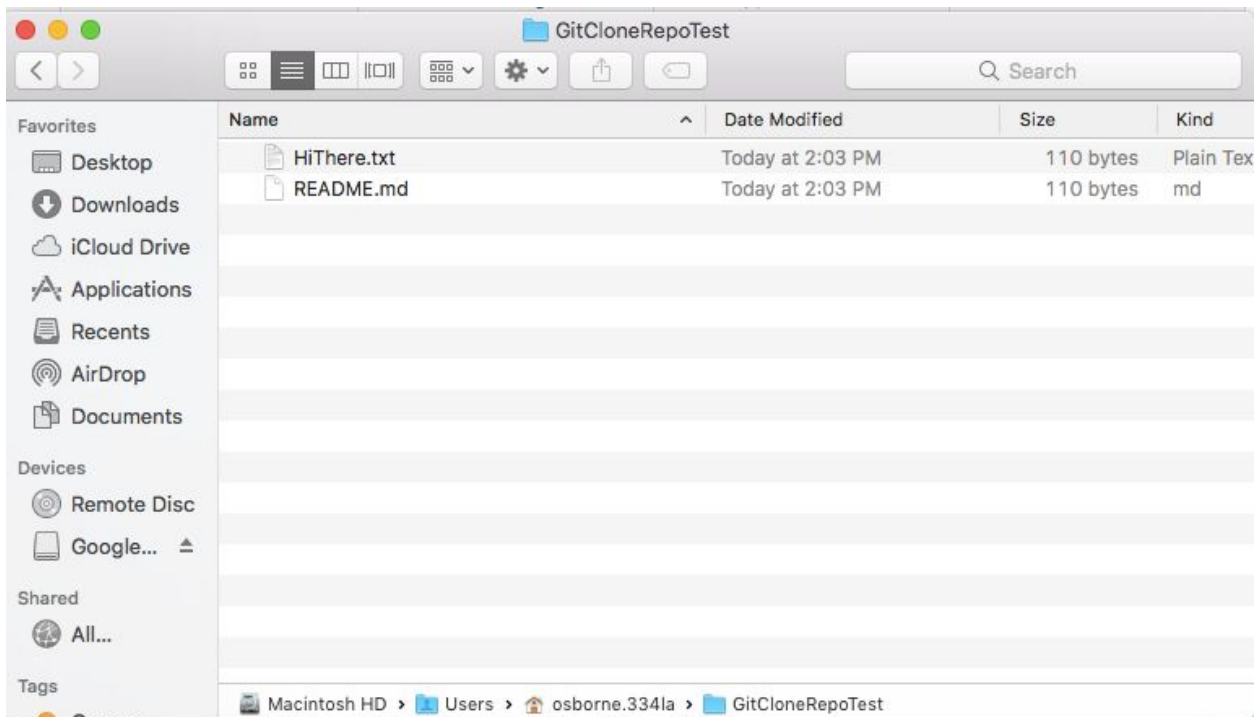
Go back to your terminal and change the working directory to your preferred storage location using `cd`. Now type the following:

git clone https://github.com/erdosinstitute/GitCloneRepoTest and hit *Enter*

A terminal window titled 'osborne.334la — -bash — 91x9'. The output shows the git version (2.17.2) and the successful cloning of the repository 'https://github.com/erdosinstitute/GitCloneRepoTest' into a folder named 'GitCloneRepoTest'. The progress shows enumerating, counting, and compressing objects, all completed. The final prompt is 'MTH-NC054738:~ osborne.334la\$'.

```
git version 2.17.2 (Apple Git-113)
[MTH-NC054738:~ osborne.334la$ git clone https://github.com/erdosinstitute/GitCloneRepoTest ]
Cloning into 'GitCloneRepoTest'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (6/6), done.
MTH-NC054738:~ osborne.334la$
```

Now check your the folder you cloned the repository in, you should see a new folder labeled 'GitCloneRepoTest'

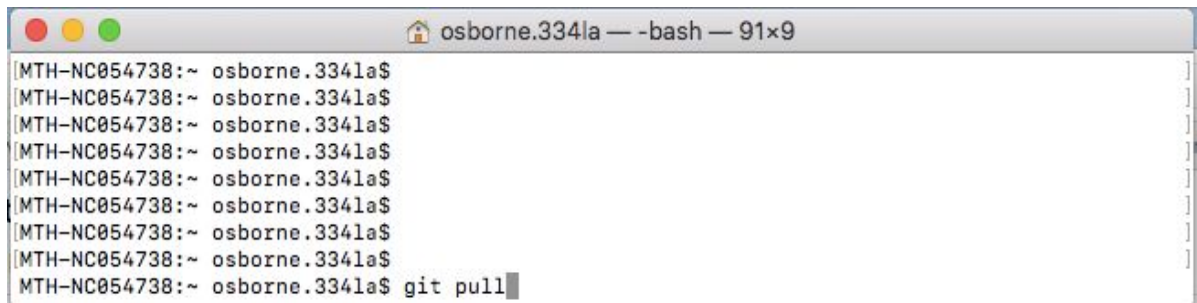


Updating The Cloned Repository

As the boot camps progress instructors will update the course repositories. You'll want to be able to keep your notes current with the most recent version. In order to do that you'll need to follow these steps:

1. 'Stash' the changes you've made to your copy of the repository (Note: When you do this, any changes you have made will seem to disappear, if you want to make sure you keep the edits you've made create a separate folder on your laptop where you copy and paste class notes before stashing)

Type *git stash* and hit *Enter*

A screenshot of a terminal window titled 'osborne.3341a — -bash — 91x9'. The terminal shows a series of commands entered by a user with the prompt '[MTH-NC054738:~ osborne.3341a\$'. The commands are: 'git pull', 'git pull', 'git pull', 'git pull', 'git pull', 'git pull', 'git pull', 'git pull', and 'git pull'. The output for each command is 'git pull'. The terminal window has a standard macOS-style title bar with red, yellow, and green window control buttons on the left.

2. 'Pull' the updates from the instructor's github repository onto your laptop.

Type *git pull* and hit *Enter*

This is just a starter. You'll need to know more about git and Github when it comes time for your group project. Watch the following youtube video series for a quick git introduction with the command prompt, <https://www.youtube.com/watch?v=DR7MLaAKcUk&list=PLfdtiltiRHWFEbt9V04NrBmksLV4Pdf3j>

We know that this can all be a tad confusing. That's okay! Just learn it a little bit at a time throughout the boot camp so you're ready for the group project.

Have a great boot camp!