Git and Github

A developer's best friend

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- Hosting repositories on Github facilitates the sharing of codebases among teams by providing a GUI to easily fork or clone repos to a local machine
- By pushing your repositories to Github, you will pretty much automatically create your own developer portfolio as well!

Confirm that you have git

- Open your terminal and run 'git'
- If you see a 'command not recognized' error, you probably haven't installed git yet.
- We can solve your issue when the lectures are over sit tight for now!

Configuring git

Your commits will have your name and email attached to them. To confirm that this information is correct, run the following commands:

```
$ git config --global user.name
> should be your name, i.e. Jon Rosado
$ git config --global user.email
> should be your email, i.e. jon.rosado42@gmail.com
```

To fix either, just add the desired value in quotes after the command:

```
$ git config --global user.name "Jon Rosado"
$ git config --global user.email "jon.rodado42@gmail.com"
```

Using Git / Github

Connecting git with Github

- In order to prevent having to enter your password each time you push up to Github, you must configure git and Github to recognize Secured Shell (SSH) keys that you generate.
- To check and see if you have any recognized SSH keys active on Github, go to https://github.com/settings/keys
- If you do not see any SSH keys listed, you do not have SSH configured with Github. We can assist with this later.
- If using Mac OS X, you can also configure your keychain to automatically enter your password via HTTPS.

Connecting git with Github

- From your project directory, run `git init` to initialize a git repository.
- Go to Github, and create a new repository with the name of your project.
- Follow the instructions on Github to connect your initialized git repository to the remote server on Github.
- *Please Note: you must have files in your project directory to commit in order to push anything to your remote server.

Basic git / Github workflow

- From your project repo on Github, navigate to the Issues tab and create a new Issue
- From the command line, use git to create a new branch off of master to make your edits to. To tie the branch to your issue on Github, make sure to include the issue number after the branch name, e.g. branchName #1
- Stage edits to be committed to your git repository by using `git add <file name>` to track the files that you want to add directly or `git add .` to add all files at the current directory level that you have worked on.
- Commit changes using `git commit -m <message>` and be sure to leave
 a short but descriptive message detailing what the commit will change when
 merged to the master branch.
- Push changes to save them by using `git push origin
branch name>`

Thank You 😇