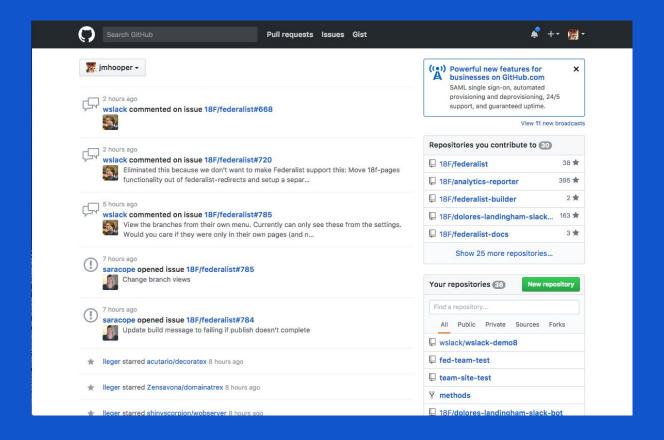
Intro to GitHub

What is git?

- A <u>version control</u> system popular amongst commercial and open source developers around the world
- A system that takes snapshots of your project as you work on it
- Allows developers to work collaboratively without having to sit next to each other the entire time, or email files back and forth

What is GitHub?



What is GitHub?

- A host for git repositories
- Provides a workflow around git that enables project management
 - Bug tracking
 - Code review
 - Integrations with 3rd party services
- A way for developers to showcase their work / portfolios

How to use git

- Git keeps your project in a <u>repository</u>
 - Keeps track of your project's files and their histories
- A file in a Git repository can be in 3 different states:
 - o <u>Committed</u>: The file's current state and history is saved
 - Staged: The changes to the file since it was last committed are ready to be written to the history
 - Modified: The file has been changes since the last commit and has not been staged

Push and pull

- <u>Pushing</u>: Pushing applies your changes to a remote git repository (i.e. the repo on GitHub)
- <u>Pulling</u>: Pulling fetches changes from a remote git repository and applies them to the files on your machine
- <u>Cloning</u>: The initial pull. Gets the files from the remote git repository and saves them to your machine