

Coding Boot Camp

Module 01





Git is a control system.

It is great at storing and managing files within a project and moving files around the internet.



Git is a version control system.

It is great at keeping track of file changes and attributing those changes to developers.



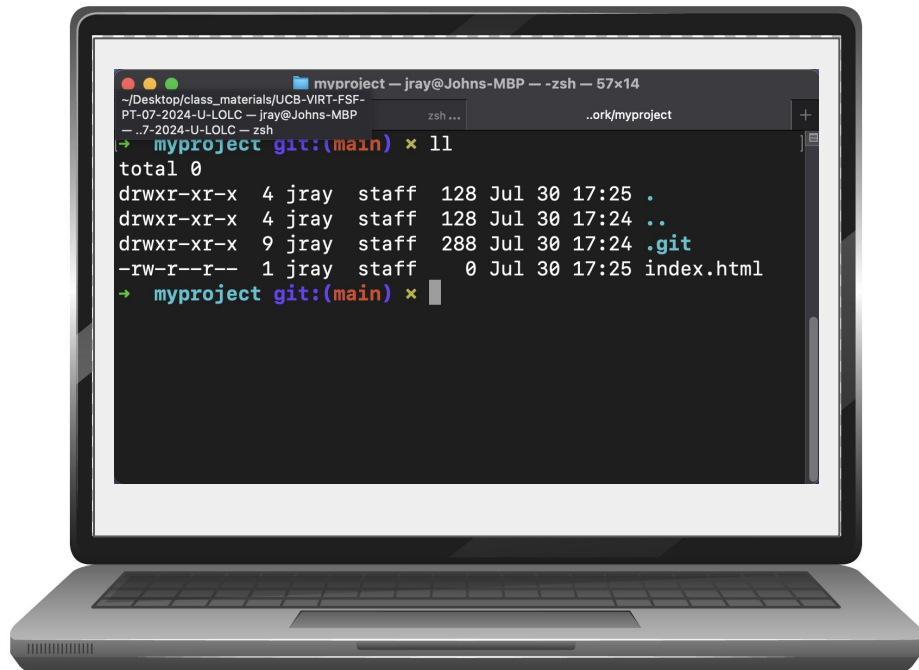
Git is a distributed version control system.

It is great at synchronizing file changes with project clones hosted remotely.

My local machine runs the git application

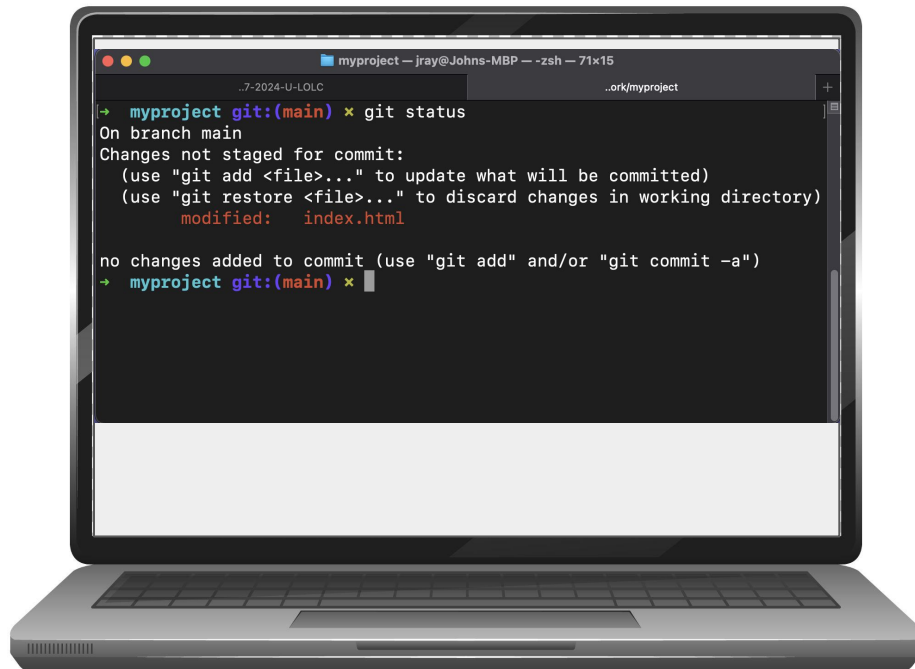


git can control a folder on my local machine



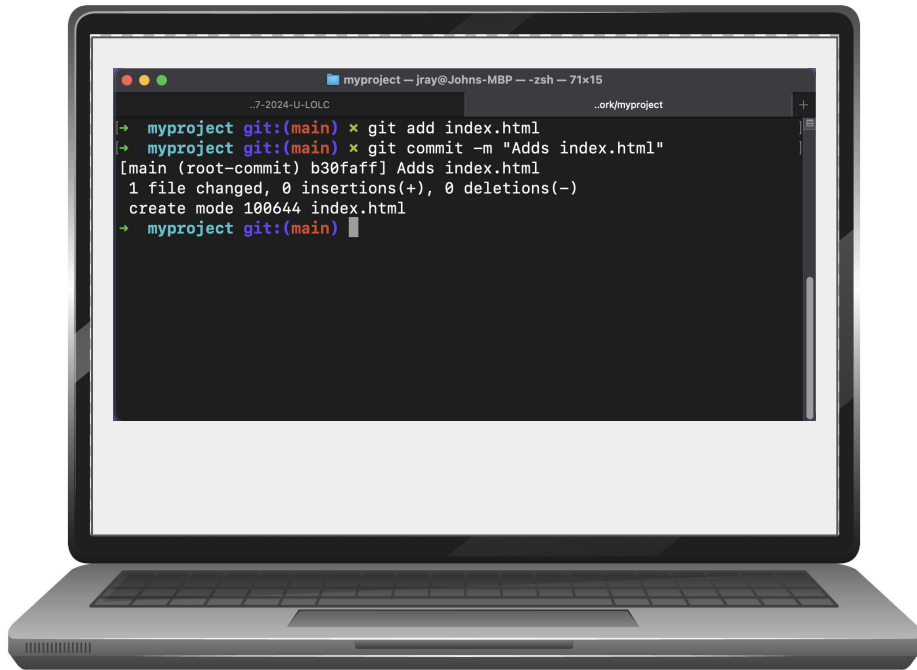
When I tell `git` to control a folder, `git` knows when a file has been added to the folder, removed from the folder, or changed in anyway.

git can keep track of changes over time



Git will notice any change to any file. **Git is interested in changes within the folder**

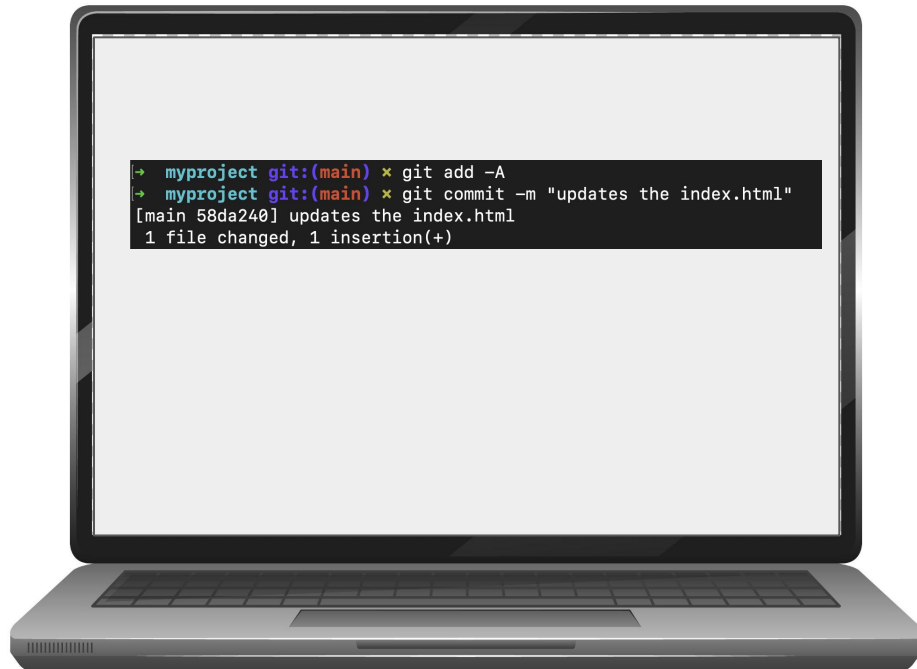
git can keep track of changes over time



Using `git` we can **add** and **commit** changes to our project. This allows us to go back to older version of our project.

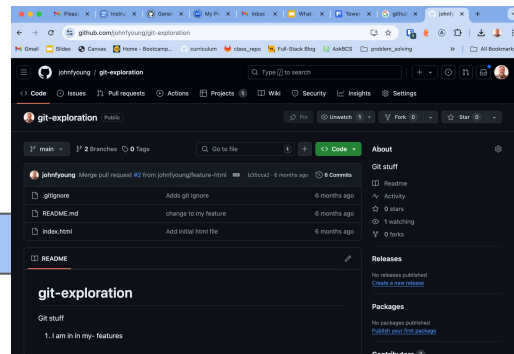
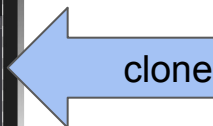
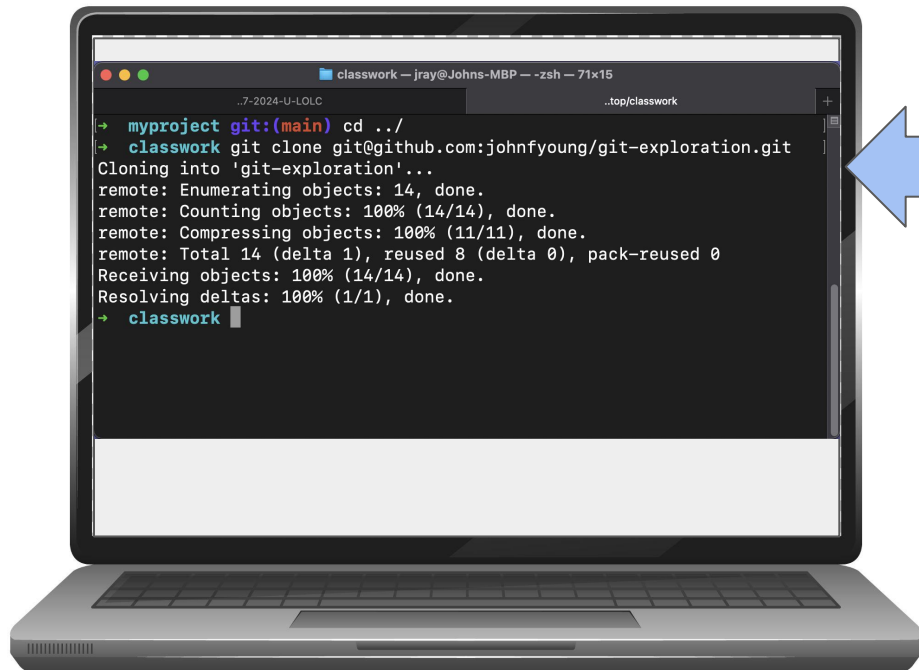
A change can be a new file, removing a file, or making a change to a file's contents.

git can keep track of changes over time



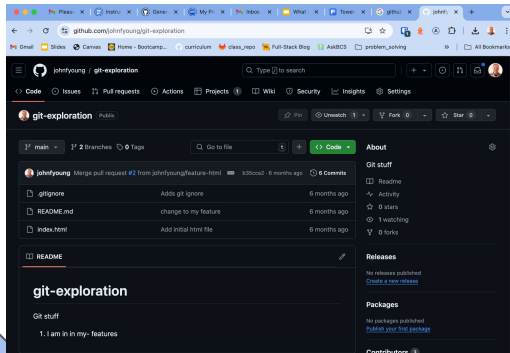
It's up to us which changes we want to keep. We instruct git to **add** changes to a **commit**.

git can synchronize with remotely hosted clones

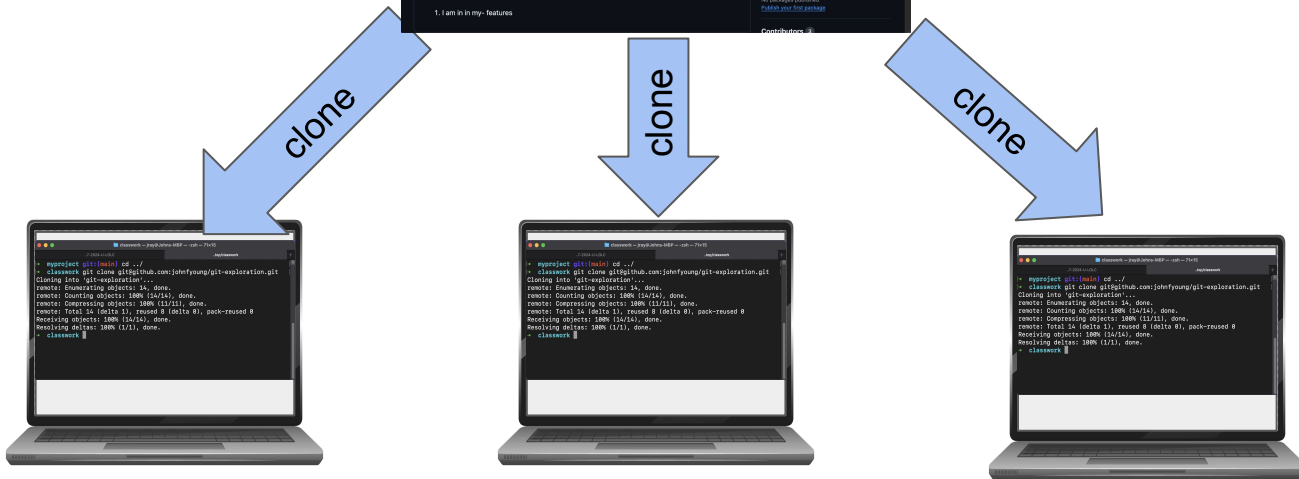


Instead of starting a project locally, we can **clone** one from a remote git host, like Github. Github also runs the git application and hosts git projects to the internet

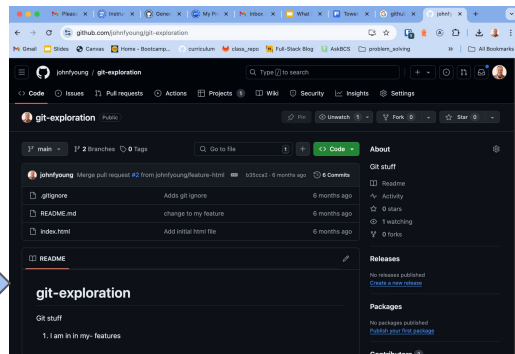
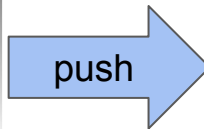
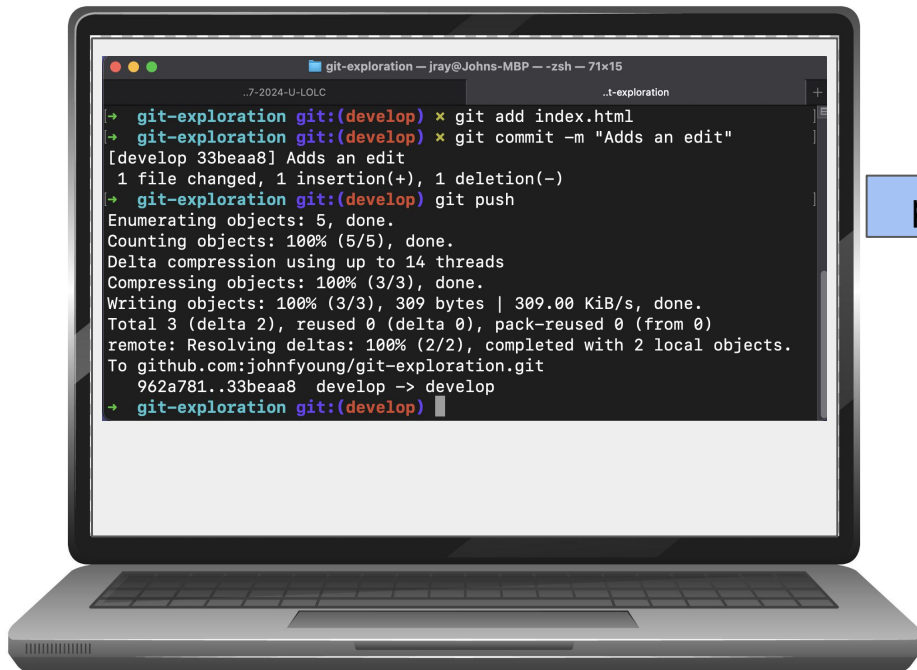
git can synchronize with remotely hosted clones



My teammates can also clone this repo to their local machines

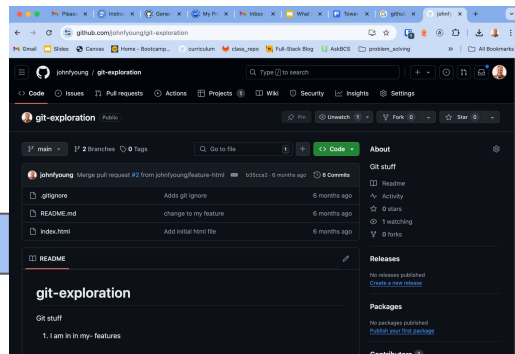
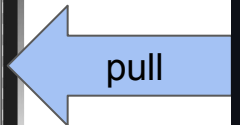
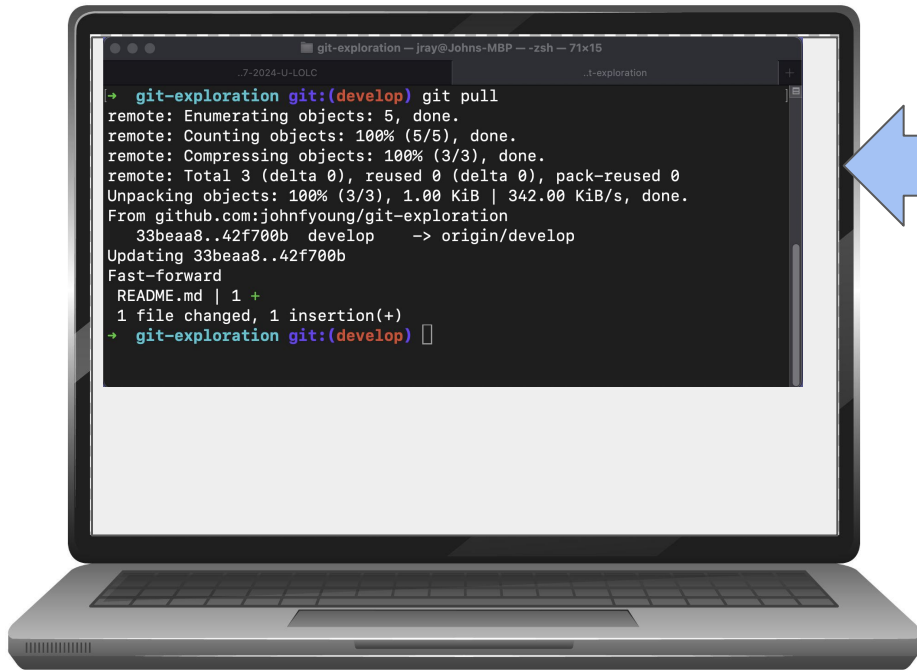


git can synchronize with remotely hosted clones



I can make changes to my local project clone and **push** the changes to to the remote clone.

git can synchronize with remotely hosted clones



I can also **pull** changes added to the remote clone by my teammates.