Intro to Terminal

The Basics

GUI stands for .....

CLI stands for .....

A few ideas

- Navigating the file system
- Creating, copying, moving and renaming files
- Working with git
- Installing system applications (eg. homebrew, npm)
- Working with Node Package Manager
- Running local servers
- Running build scripts
- Deployment of apps (eg. heroku, netlify, github, AWS)
- Connecting to and controlling remote machines

Intro to Git and GitHub

Our Objectives

- Explain basic git commands like init, add, commit, push, pull and clone
- Distinguish between local and remote repositories
- Create, copy, and delete repositories locally, or on GitHub
- Fork and clone remote repositories

Discussion:

What is Git?

Write your best definition in teams

(I don’t know is an acceptable answer)

Interesting Fact

What do Git and Linux have in common?

Discussion:

What is Git Hub?

Write your best definition in teams

(I don’t know is an acceptable answer)

Why is Git Tricky to Understand

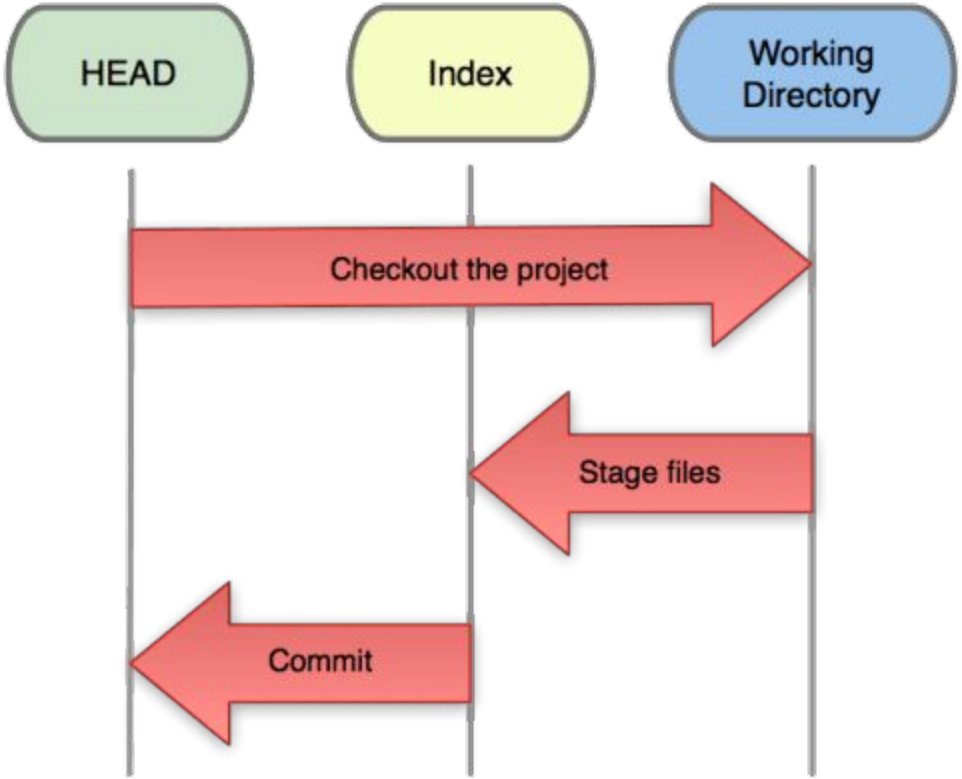
Git is tricky to understand because describing 'how' it works would require the use of strange and technical-sounding words like:

- Directed acyclic graph
- SHA-1
- blob
- tree

Trees?!

Even though you don't need to know how they work, it is useful to know that your local repository consists of three "trees" maintained by Git.

- Working Directory: like any other folder on your machine; just holds the actual files
- Index: acts as a staging area (an area that holds files "ready" to be versioned)
- HEAD: points to the last commit you've made (the last "version" of the code you've stored using git)


HEAD
Index
Working Directory
Checkout the project
Stage files
Commit

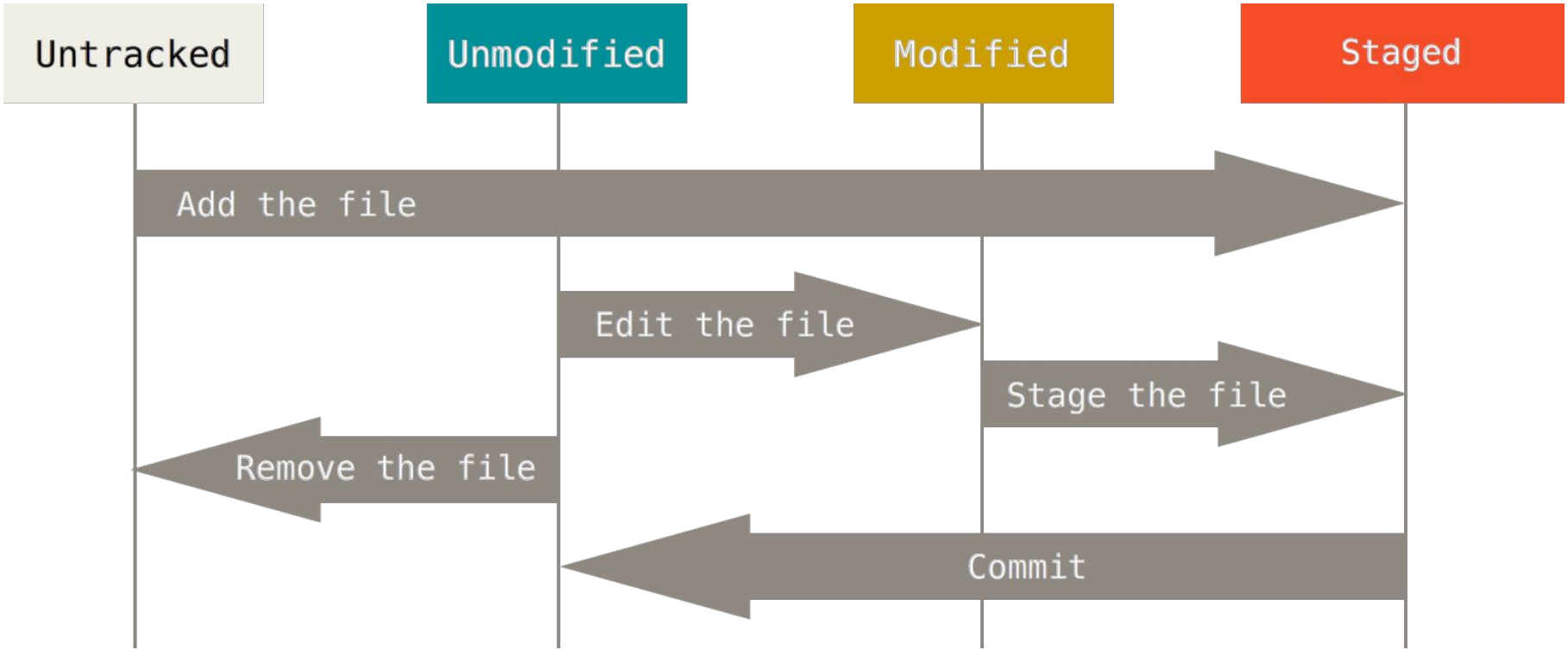
Commands

There are also a lot of commands you can use in Git. You can take a look at a list of the available commands by running:

```
$ git help -a
```

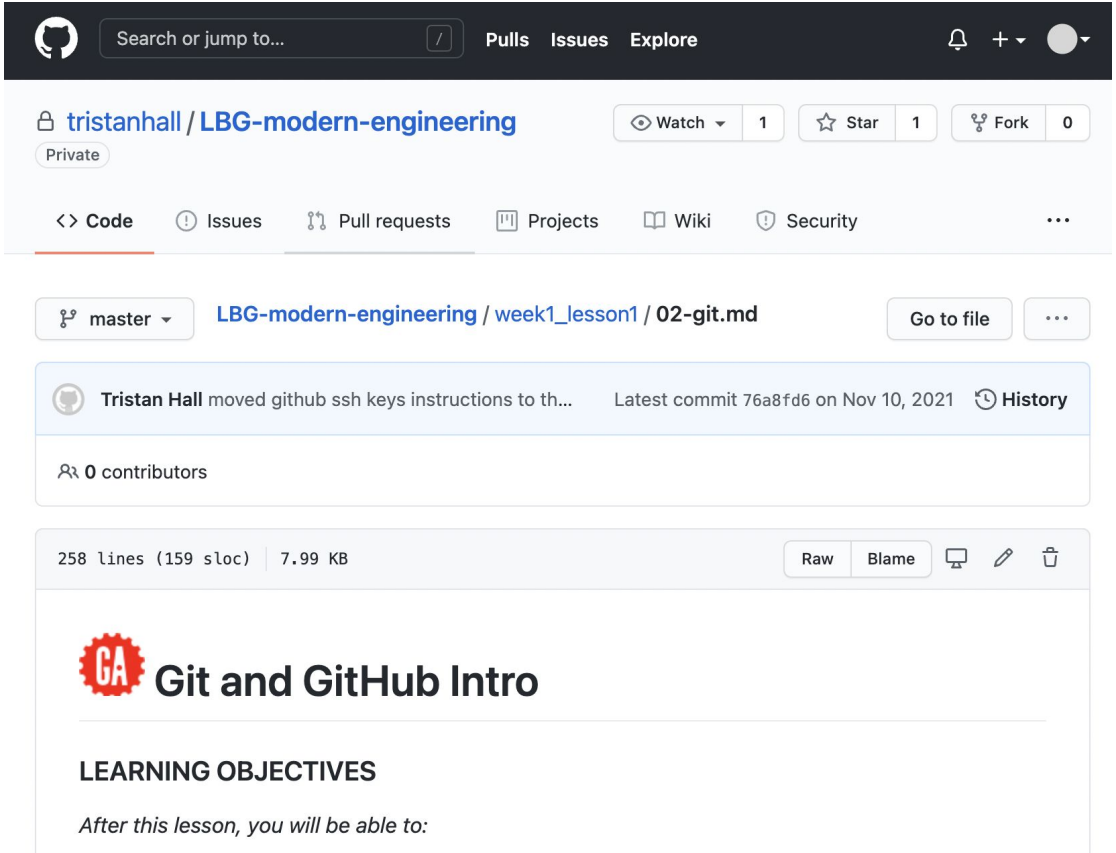
Even though there are lots of commands, on the course we will really only need about 10.

Git File Lifecycle



Lesson material

Lessons can be found in a github repository that you can follow along with or revisit throughout the course.



Guided Walk-Through:
Let’s get started

Follow along here:

week1_lesson1/02-git.md