Getting Started - What is Git?

* **I can explain what version control is.**

Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later

* **I can explain what a "snapshot" is in Git.**

A snapshot is a representation of the current state of your tracked files in the form of a manifest, which can be compared with other manifests to see where the differences are. Git only tracks the differences between manifests from the first moment it was tracked.

* **I can explain the difference between Git and GitHub.**

Git is a version control system that lets you manage and keep track of your source code history. GitHub is a cloud-based hosting service that lets you manage Git repositories.

* **I know the three states of a file and am able to explain these.**

Modified means that you have changed the file but have not committed it to your database yet.

Staged means that you have marked a modified file in its current version to go into your next commit snapshot.

Committed means that the data is safely stored in your local database.

Command line Fundamentals

* I can track my local repository with git.

git status

* I can "stage" my files before a commit.
* I can commit my files.
* I can push my commits to a remote repository.
* I can use the .gitignore file.

.gitignore

* I know how to delete the .git directory.