

## What is git?

- Removes the need to copy files and shares the information
- Gets a checkpoint for your files
- Git exists so that you can: modify/change/break/improve your code, secure in the knowledge that you
- Git is a collaboration tool that allows different people from all around the world
- Git is a tool that protects yourself and others from yourself and others

## The local workflow

- Git init creates a repository in the folder you ran the command on. Often shortened to repo, this is a hidden location where file checkpoints will be stored.
- Repo: hidden files
- Committed: files that are safely stored by git
- Staged: current version of a file, tagged to be included in the next commit
- In order to save our progress, we need to tell git to stage our file, We do this by adding the file git
- Git commit -m "description goes here"

## Outcomes

- Set up a remote repository
  - A remote repository is a copy of our project that is stored in the cloud
  - It is where we backup our work and share it with others
  - It is accessible anywhere there is an internet connection.
  - 1.locate your project in file explorer
  - 2.initialize your local repository
  - 3. Add and commit your existing files
  - A. git add.
  - B. git commit -m "initial commit"
  - Git push tells git to upload all your changes to the server. It does not need to be
- Branches represent different versions of our code Branches allow us to work on code and features without breaking what we already have (presumably) working.
  - The master branch is the trunk of your code tree and should only contain clean ready to use code.
  - Git branch <name> tells git to maintain a new copy of our code with the given name
  - Git checkout <branch> tells git to switch our
  - 1. Create a new branch so we don't break our working code: git branch mobile
  - 2. We have to switch to our new branch git checkout mobile
- Learn how to push our local files to the remote server
  - Merging branches
    - Checkout the master branch

- Look at your flex.css files in brackets
- Merge the mobile branch into the master branch with: git merge mobile
- Git merge <branch>
- A merge conflict is when a file has changed in both branches you are trying to combine and git can't automatically

1. I think that using GIT can facilitate collaboration because it is a program that can be easily used and shared among people to all focus on one project. With GIT you can save work a lot more efficiently and not worry about losing your code. It also helps with the organization of your work. It also acts as a placeholder for your work so that your coding doesn't get erased by other people.

2. 2, I understand the basics of GIT

3. None I asked my partner most of my questions

4. Spending time with my family, sleeping in and playing games.