GIT _{gud}

Intro to git
Outcomes:
Understand what git is and the role it serves
Git removes the need to copy files to and from the class share and your H drive as you collaborate on a project
Git is like using your camera to take a snapshot of our files at a specific point in time that you can magically go back to if terrible things happen
In gaming terms: git is a checkpoint for your files
Git exists so you can: modify/change/break/improve your code, secure in the knowledge that you can not ruin your work too badly because you created save points along the way.
Git is a collaboration tool that allows different people to work on all the parts of a project at the same time.
Git is a tool that protects yourself and others from yourself and others.

Local workflow

Getting started
We need to tell git to start tracking our files
 3 states
Modified - files that re new or have changes not yet saved by git
Staged - the current version of a file, tagged to be included in the next commit
Committed - files that are safely stored by git
Git is tracking your files so when you checkout that file it reverts back to what it was when you saved in that branch

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What is a merge conflict?
A merge conflict is when a file has changed in both of the branches you are trying to combine and git can't automagically determine what you want to keep

Basically git is asking for help because it is confused

MERGING
Make sure your code works well before merging
Git merge (branch name) will merge the branches

BASIC START

Git init
Git add .
Git commit -m "initial commit"

QUESTIONS TO ANSWER
1.) If you and your friend are working on the same thing on the same line but don't know it, you can easily merge them with the command, if they are on the same line you will get a fatal error but you can easily fix the conflict with some simple deletions. You can also see what your partner is working on in their branch if you "check it out" then you will be able to see what he is doing so you can work on something else in your branch.

2:) I'd say a 3

3:) No.

4:) Getting together with my aunt and grandpa because i hadn't seen them in a while