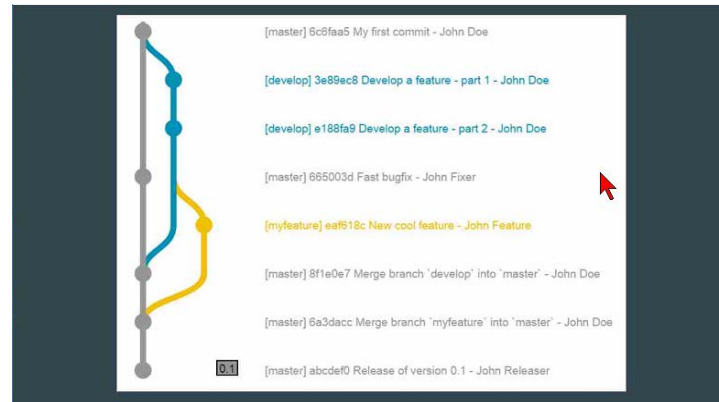


Git

- 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 a camera to take a snapshot of your files at a specific point in time
- Git is a checkpoint for your files.
- Git exists so you can: Modify/change/break/improve your code.
- Git is a collaboration tool that allows different people to work on all the parts of a project
- Git is a tool that protects yourself and others from yourself and others
- Git tracks files
- Git commit physically moves the box of copies into long-term storage
 - Status, Add, Commit
- A remote repository is a copy of our project that is stored “in the cloud”
- It is where we back up shared work and share it with others
- It is accessible anywhere there is an internet connection
- Git push tells git to upload all your changes to the server. It does not need to be done after every commit, because it will upload all
- Branches are smaller bit extending from a tree trunk
 - They represent different versions of our code
- Branches allow us to work on code fixes and features without breaking what we already have working
- Fixes and new features should always start on a branch

- The master branch is the “trunk” of your code tree and should only contain clean code ready for deployment.
- Git branch <name> tells git to maintain a new copy of our code with the given name

- Git branch on its own will list all branches available and display an asterisk next to the one we are currently working on



- Git checkout <branch> tells git to switch our working folder to the branch name specified.
- We use the merge command to combine branches
- Git merge <branch> combines the file changes in branch we name into our current working branch
- A merge conflict is when a file has changed in both of the branches
 - Basically, git is asking for help because it is confused
- I believe that today's topic was pretty simple to understand. I like how we learned what to do when we are were met with a merge error. I believe by me learning this it helps me learn to make things easier when working on projects. I also believe that this was a lot of fun. (4/4)