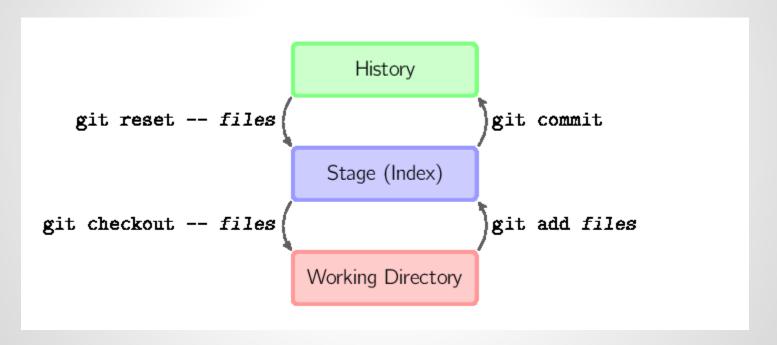
Git(hub) Crash Course

Basics and the GUI

What is Git(hub)?

- Version control system
 - As you make changes, it keeps track of your history
 - If you make a mistake...just go back
- Collaboration tool
 - Decentralized Every user has their own repository
 - All local repositories usually connected to a central one (Github)
 - Allows easy merging of changes to a project

How does it work (locally)



How does it work (remotely)?

- Downstream
 - git clone copies remote rep to local
 - o git pull merges remote changes to local
- Upstream
 - git push sends local changes to remote

How to collaborate - branch

- git pull
 - make sure you are up-to-date
- git branch working
 - create your working branch
- git checkout working
 - make your working branch the current branch
- git commit make your changes on your working branch and commit them

How to collaborate - merge

- git checkout master
 - change back to master (i.e., where you have not worked)
- git pull
 - make sure that your local master is the same as the remote master
- git merge working
 - merge the changes from working into master

How to collaborate - push

- git push
 - push your changes from your local master back to the remote master
- git branch -d working
 - delete your working branch