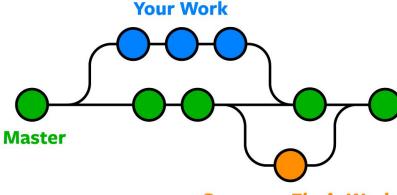


Abitha Thankaraj & Nancy Wen NYU Devops and Agile Methodologies February 2021

Why use Git?

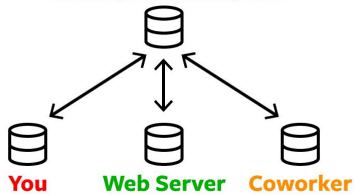
- Git is a version control system that allows you to keep track of the changes you have made the files AND allows you to revert to previous versions
- 2. Git allows multiple people to work collaboratively on the same project



Github

- Github is a website that hosts projects (called repositories or "repos" for short)
- Github hosts the remote copy of the repo, and each collaborator works on their own local copy
- You can push your local changes to the remote copy, and you pull changes from remote copy to your local copy

GitHub, Bitbucket, etc.



Let's walk through an example

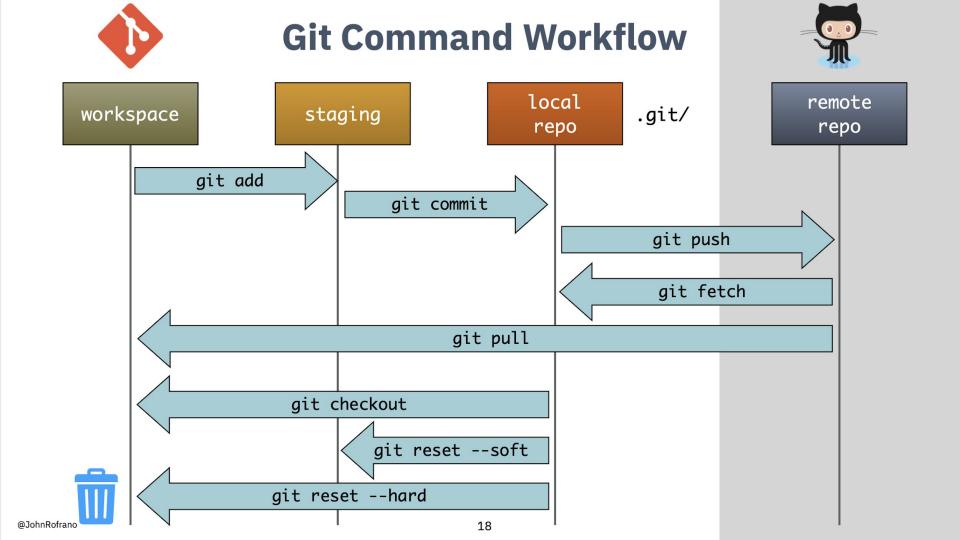
https://github.com/1um0s/devops-git-tutorial

Using Git in terminal

- git clone https-repo-url: make a local copy of a remote repository
- **git branch:** list out all the local branches
- git pull: download any changes from remote to local
- git checkout -b
branch-name>: create and switch to new branch
- git status: check what changes have been made
- git add <filename>: move file to staging area before commit
- git commit -m "<commit-msg>": add a commit message
- git push -u origin <branch-name>: push local branch to remote
- **git log**: displays previous commits

Useful terminal commands:

- pwd: print working (current) directory
- **Is <dirname>:** list files in current directory or given directory
- **cd <dirname>**: change directories
- cat <filename>: shows content of given filename
- head -n <filename>: shows the first n lines of given filename
- clear: clear the terminal
- touch <filename>: creates a new file with filename



Common Issues

- 1. You cannot clone one github repo into another repo
- 2. master → main
- 3. Set up your git config and ssh keys: refer to Slide 36 in NYU Classes > Resources > 02-Social-Coding-with-Git.pdf