USING GIT

2019.03.19 SWPP Practice Session Juneyoung Lee

Assignment

- https://github.com/aqjune/swpp202001-assn1
- · In order to do this, you need to sign up for GitHub
- Due date: Mar. 25 (Wed) midnight
- Submit your GitHub link through the Google form

LET'S INSTALL GIT!

- · Ubuntu: `sudo apt install git`
- Windows: https://git-scm.com or enable WSL
- Mac: https://git-scm.com or `brew install git`



Commit

Branch

Merge

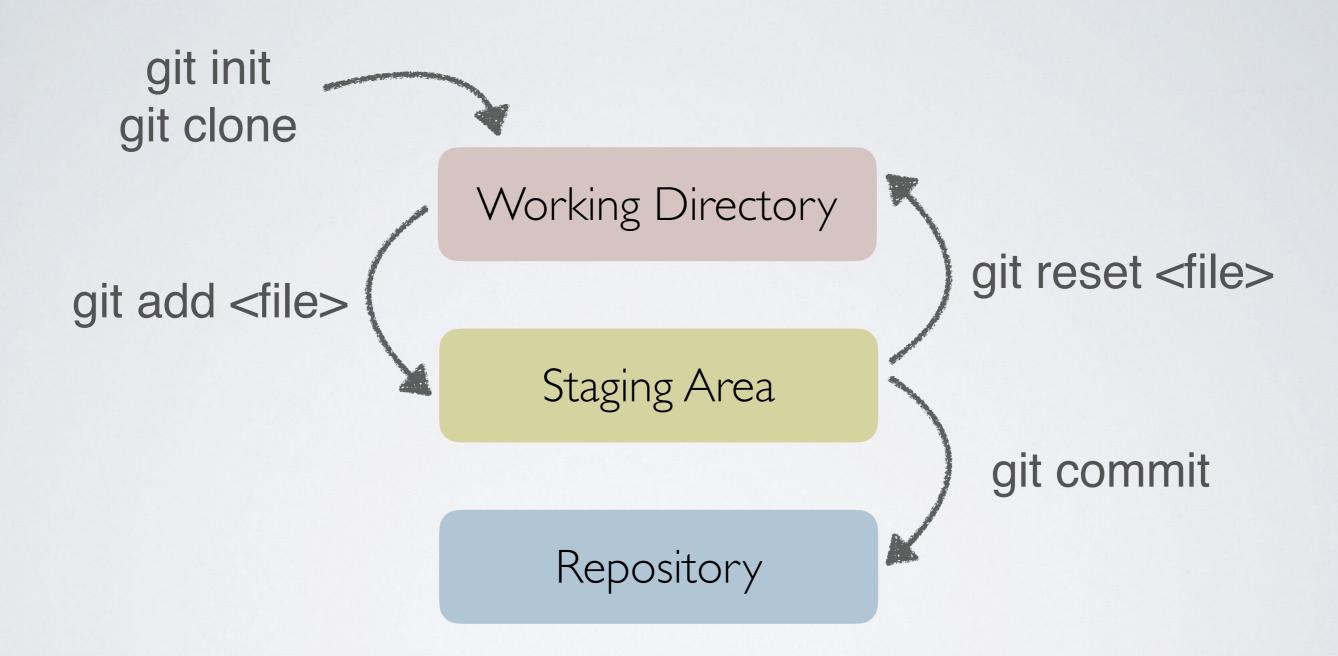
Rebase

Checkout branches from a remote repo

GIT COMMIT

- Let's update hello.cpp so it prints your GitHub ID
 (If you didn't sign up yet, use your name)
- Then, run `git commit`
- See 'git log'

Git 101



MAKE A BRANCH

- · Branch 'food': Let's print your favorite food
- · git checkout -b food
- · git add hello.cpp
- git commit
- git checkout master # Let's come back to master

MAKE A BRANCH - 2

- · Branch 'drink': Let's print your favorite drink
- git checkout -b drink
- git add hello.cpp
- git commit
- git checkout master # Let's come back to master

MERGE FOOD

- git branch # should be 'master'
- git merge food
- git log

MERGE DRINK

- git merge drink
- Fix conflict
- git add hello.cpp
- git commit

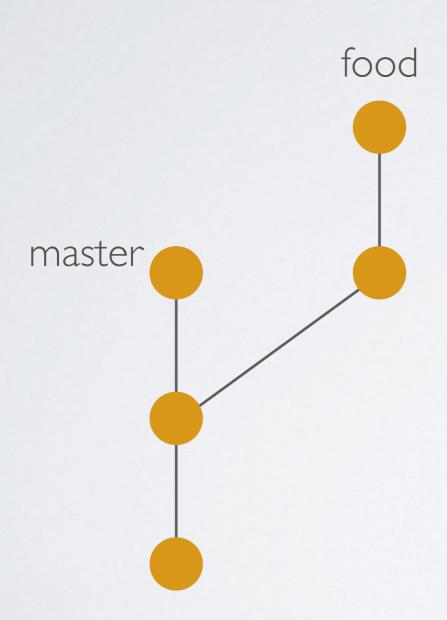
Git

- git init <directory>
 - initializes a new git repository
- git clone <url>
 - initializes a new git repository
- git add <file>
 - stages a change
- · git commit
 - saves the snapshot
- git status
 - shows the status of changes
- git log
 - shows commit log (history)

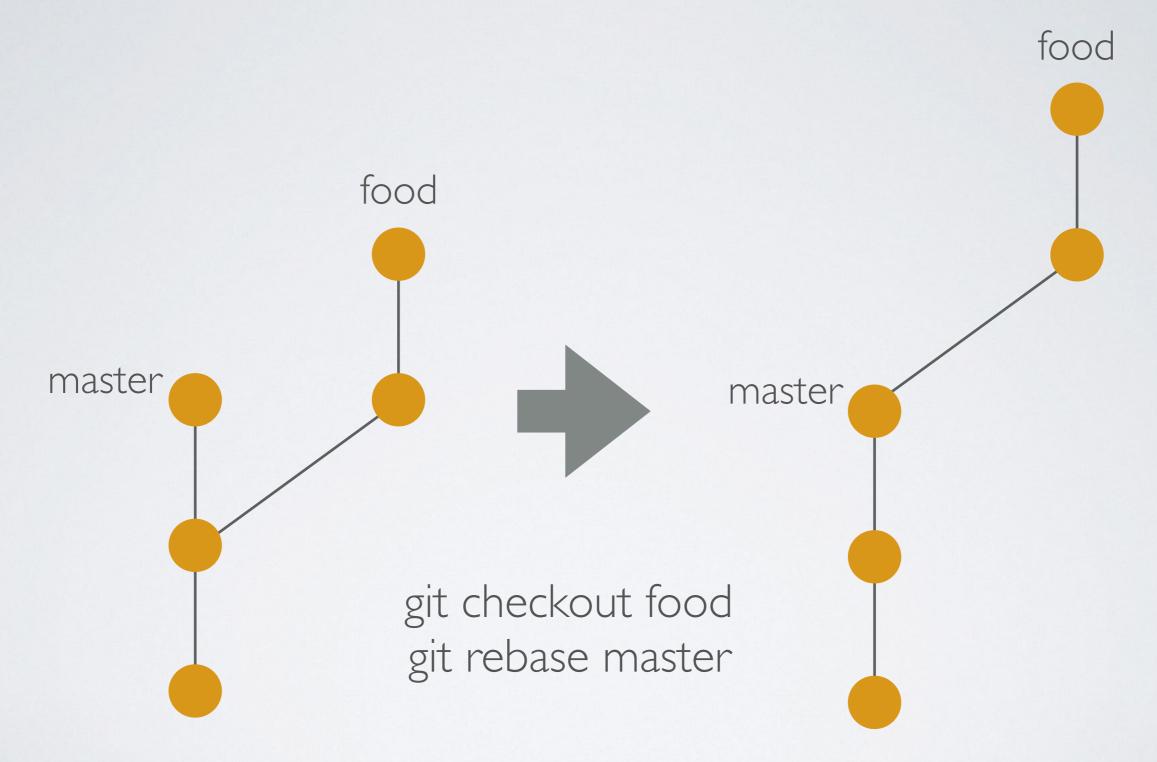
MERGE COMMITS ARE UGLY!

- Can we make the history of master linear after merge?
- · Yes, but you should do 'git rebase' first

REBASE



REBASE



Now, 'git merge food' does not make a merge commit

GIT REBASE IS USEFUL

- 'git rebase -i' allows you to edit commit history
- · Change commit messages, delete commits, etc..

GETTING BRANCHES FROM REMOTE REPO

- 'git branch' won't show bugfix/usemap branches that are needed for your homework
- You need to checkout them from remote
- git checkout -b bugfix origin/bugfix
- git checkout -b usemap origin/usemap