Version Control - Github & Gut

GUI

Def: O A system of Interactive visual components of computer software (2) Displays objects that convey into, represents actions that users can take

Ex: icons, cursors, buttons

J_D Command Line Interface (CLI)
compare

Def: O Distributed version-control system

O (for) tracki anges in source code during software

-> understands mais tent one

purpose sundenstands plain text fill (machine readable)

R/. do/. tex/. md/. txt/, csv ...

Lis detect changes but can't show changes in binary files . docx/. x1xs/.pdf/.exe/.dta... human readable

Github

- · A webhosting service for an own files to be tracked
- · A GIVI software that provides user friendly access to git.

commands: GIT BASH

• git clone " nttp: " ... "> web address for the cloned download to local computer

git add =filename'txt

· get commet -m' message (haven't pushed to github. com) · git push (push to repo github) # git pull sync the cloud updates to local computer -> All commands need to be in the local folder cloned from O'cd" O'dir'="15"
Windows Apple · git checkout | "branch name" change to branch * 1 - b "branch name" create new branches After creating new branches, use (git push -- set-upstream origin "bn") to sync to github.com Ly "commit id" change the local file to a formerly committed version. (-- stat): shows specific changes output · gif 109 >>> shows log for each commit & the commit Id git log -- n # >>> shows last # of commits -- graph -- one line >> tree structure • git diff commit ID 1 ID 2 >>> Shows difference for --- commit a green: addition red: reduction + ++ commit b · git branch, -> look at all the branch names 4+ new name: create new branch git checkout -b "new name" = git branch "new name" + git checkout "new name" git merge master "branch name"

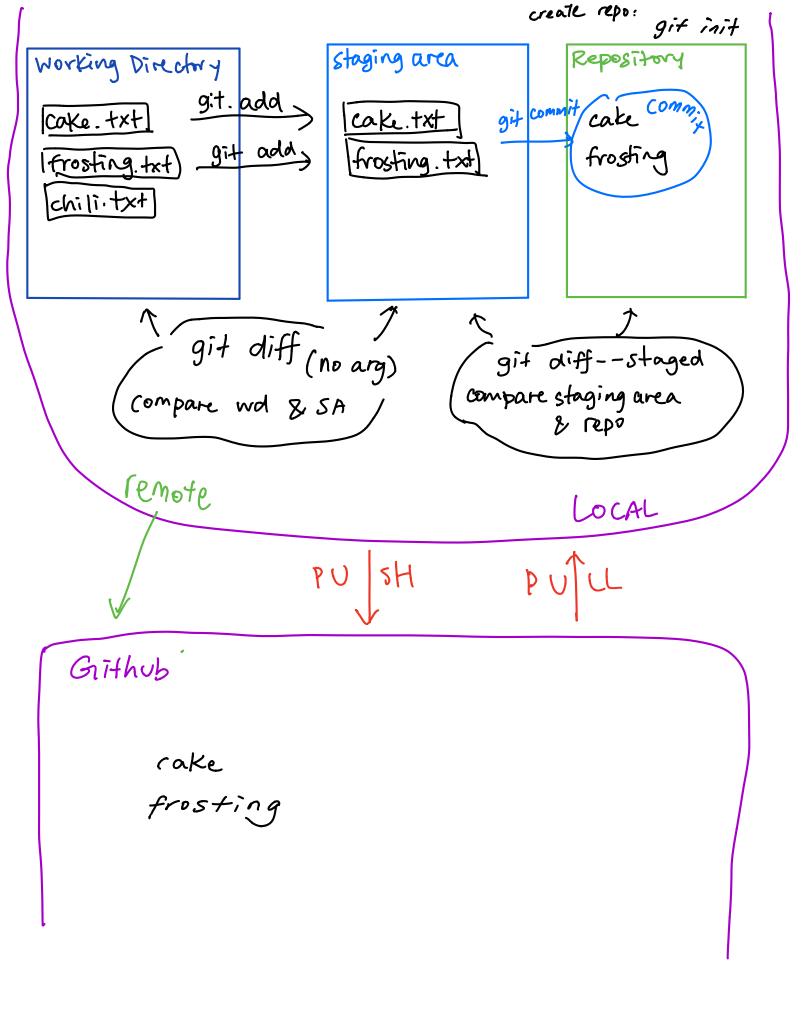
- ~ needs to be in master branch. ✓ merge "branch" → master
- git show t commit id compare the difference between commit id and its parent
- git branch -d "branch name"

 (remember to merge bit delete so

 no info is lost)

 D delete the label of the branch,

 not necessarily the commits.



Branches: switch between diff versions
"remote branch": a branch created by someone else
git remembers each commit to its parent

Reachability

(204) (3fc)

(3d)

(204) (7dc)

(10 branch here,

* Detached head error message committed thru an earlier committ.)

Lo could also create a new branch here to

Replace branch A w1 branch B (still the merge command)

- · git checkout branch B
- · git merge <u>-s ours</u> master --strategy = ours

"OURS" strategy:

Use everything in our current branches to replace the content in the other branch.

Making Pul Reguests

- · Name origin: requesting that the reviewer pull my branch to another branch to merge
- · Collaboration format! one owner, multiple pull reg.

How: a. checkout a new branch

- b. add, commit, push (git push origin new-branch)
- c. go to github.com, there win be pull reguest"
 in the repository so that the owner can
 review and make comments
- d. Make changes according to the comments & then repeat a-b.