PULL REQUESTS

to checkout a pull request — --> git fetch origin pull/\$NUMBER/head:pr-\$NUMBER git checkout pr-\$NUMBER

BRANCHES

to rename any (local) branch ---> git branch -m <oldname> <newname> show all remote branches (names) -----> git branch -r information about remote and local relationships -----> git remote show origin see the last commit on each local branch ------> git branch -v which branches are already merged into the branch you're on -> git branch --merged branches that contain work you haven't yet merged in ----> git branch --no-merged to do a fast forward when branch u are on is behind master --> git merge --ff-only origin/master push the local branch

branchname> to remote repo and make the local one to track the remote one -----> git push -u origin
branchname> delete branch remote ---> git push origin --delete
 oranchName> OR git push origin :
branchName>

local ---> git branch -d <branchName>

to create a branch that tracks a remote branch ----> git checkout -b refac origin/ Refactoring (Branch refac set up to track remote branch Refactoring from origin. Switched to a new branch 'refac')

reset local branch staging to latest snapshot at remote branch staging --->

- git fetch origin
- git reset --hard origin/staging

find recently deleted branches ---> git reflog

save changes in current workspace without committing them, switch to any other branch, do the work, come back to original branch and resume from where you left

save changes in current workspace ---> git stash apply most recent stash to the local branch ---> git stash apply or git stash apply stash@{0}

apply one of the older stashes (third most recent one in this example) ---> git stash apply stash@{2}

TAGS

checkout a tag ---> git checkout -b version2 v2.0.0 create a tag ---> git tag -a v1.4 -m 'my version 1.4' check/show tag ----> git show v1.4 push tag to remote: git push origin <tag_name>

to make a tag point to a particular commit after the tag has been created ----> git tag -a v1.2 9fceb02

to add a folder to gitignore : open the file named 'exclude' in the directory root\.git\info. add the name of the folder at the end - e.g. to get Git to ignore any changes to the directory named '.idea' or any file inside it, just write .idea/ at the end of (but at start of a new line in) the exclude file.

VIEWING CHANGES, COMPARING and MERGING

check what has changed after a pull ----> git diff @{1} check what has changed in a single file after a pull ---> git diff @{1} <filename> view a commit at github website when u just have the shortened hash of the commit -->

- first get the full commit hash by git log -p -1 <shortened_commit_hash>
- open any commit in the branch for which a full commit hash has was just found in and replace the last part of the url with the hash from pre step.

see changes made in a file and by whom and when --> navigate to the repo and then to the file on github and then press the "Blame" button in the upper-right part of the panel check branches that contain a commit --->

from local branches: git branch --contains <commit_hash>

from remote branches: git branch -r --contains <commit_hash>

FILE OPERATION

Reverting changes to a single file:

- from the file's (dirty) state in working directory to its state at the most recent commit
 git checkout -- file_path
- from the file's state in the last commit to its state in another commit in history ———>
 git checkout d4b87a3 file_path (will revive its state in commit d4b87a3).

stage deleted files -----> git rm \$(git ls-files —deleted)
delete/remove an untracked file ——> git clean -f file_path
check diff of file with its snapshot in last commit of current branch, when the file has not yet
been added to staging area ————> git diff -- filename.ext
but if the file has been added but not yet committed ———> git diff --cached -- filename.ext

COMMITING

change commit msg for last commit on a local branch ----> git commit --amend -m "New commit message"

revert to previous commit at local branch as well as at remote branch --->

- 1. git revert (for local)
- git push origin

 stranch_name> (for remote)

revert an old merge commit --->

git revert <merge_commit#> -m <parent_to_keep*>

*parent_to_keep is the parent that is kept. the other parent of the merge_commit is reverted. e.g. if we want to revert the merge commit with hash 2fa52cf1, we can check its parents using the command git show 2fa52cf1. This reveals the following info: commit 2fa52cf1db99b1293a309b213738959593f4676e

Merge: d4b87a3 53953b3

Now, if we wanted to revert the parent commit d4b87a3 and keep 53953b3 we would do it with *git revert 2fa52cf1 -m 2*. However, if we wanted to revert 53953b3 and keep d4b87a3 we would accomplish that by *git revert 2fa52cf1 -m 1*. so, parent_to_keep tells git which parent from the ones shown in the commit log of the merge_commit to keep.

find next/child commit of a know commit ———> git log --reverse --ancestry-path </ri>

CONFLICT RESOLUTION

The ----- sign marks the point that divides the implementations of the contentious code chunk among the two branches. The part above the ----- sign represents the code chunk as in the branch currently in focus, master in this case, while the part after the ---- sign represents the code chunk as in the branch that is to be merged.

QUERYING

View commit history with most recent on top ———> git for-each-ref --sort=-committerdate refs/heads/

