JULIA EVANS

https://wizardzines.com

getting started

start a new repo: git init

clone an existing repo:

git clone \$URL

know where you are

git status

prepare to commit

add untracked file: (or unstaged changes)

git add \$FILE

add ALL untracked files and unstaged changes:

git add .

choose which parts of a file to stage: git add -p

delete or move file:

git rm \$FILE git mv \$OLD \$NEW

tell git to forget about a file without deleting it:

git rm --cached \$FILE

unstage everything: git reset HEAD

make commits

make a commit:

(and open a text editor to write the message)

git commit

make a commit:

git commit -m 'message'

commit all unstaged changes:

git commit -am 'message'

move between branches

switch branches:

git switch \$NAME OR git checkout \$NAME

create a branch:

git switch -c \$NAME OR git checkout -b \$NAME

list branches:

git branch

delete a branch git branch -d \$NAME

force delete a branch: git branch -D \$NAME

list branches by most recently committed to:

git branch --sort=-committerdate

look at a branch's history

log the branch

git log main

show how two branches relate to each other:

git log --graph a b

one line log:

git log --oneline

code archaeology

show who last changed each line of a file:

git blame \$FILENAME

show every commit that modified a file:

git log \$FILENAME

find every commit that added or removed some

git log -S banana

git has 17 million options but this is how I use it!



ait cheat sheet

diff commits

show diff between a commit and its parent:

git show \$COMMIT ID

show diff between a merge commit and its merged parents:

git show --remerge-diff \$COMMIT_ID

diff two commits:

git diff \$COMMIT_ID \$COMMIT_ID

just show diff for one file: git diff \$COMMIT_ID \$FILENAME

show a summary of a diff:

git diff \$COMMIT_ID --stat git show \$COMMIT_ID --stat

diff staged/unstaged changes

diff all staged and unstaged changes:

git diff HEAD

diff just staged changes:

git diff --staged

diff just unstaged changes: git diff

configure ait

set a config option:

git config user.name 'Julia' name value

see all possible config options:

man git-config

set option globally:

git config --global ...

add an alias:

git config alias.st status

important git files

local git config:

.git/config

global git config:

~/.gitconfig

list of files to ignore:

.gitignore

trash your changes 🦍



delete all staged and unstaged changes to one file:

git checkout HEAD \$FILE

delete unstaged changes to one file:

git checkout \$FILE

delete all staged and unstaged changes:

git reset --hard

delete untracked files:

git clean

"stash" all staged and unstaged changes (pretend I might get them back later)

git stash

edit history



"undo" the most recent commit (Keep your working directory the same):

git reset HEAD^

squash the last 5 commits into one:

git rebase -i HEAD^^^^^

(and change "pick" to "fixup" for any commit I want to combine with the previous one)

undo a failed rebase:

Ogit reflog BRANCHNAME ②do a painstaking search 3git reset --hard \$COMMIT_ID

change a commit message: (or add a file you forgot)

git commit --amend

restore an old file



get the version of a file from another branch or

git checkout \$COMMIT ID \$FILE

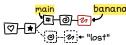
git restore \$FILE --source \$COMMIT_ID

combine diverged branches

how the branches look before:



- combine with rebase: git switch banana git rebase main



→ combine with merge:

git switch main

git merge banana git commit



-combine with squash merge:

git switch main git merge --squash banana git commit



bring a branch up to date with another branch (aka "fast-forward merge")



git switch main git merge banana

copy one commit onto another branch



git cherry-pick \$COMMIT_ID



add a remote

git remote add \$NAME \$URL

push your changes

push the main branch to the remote origin: git push origin main

push a branch to the remote origin that you've never pushed before:

git push -u origin \$NAME

push the current branch to its remote "tracking branch": git push

force push: / git push --force-with-lease

push tags: git push --tags

pull changes

fetch changes:

(but don't change any of your local branches)

git fetch origin main

fetch changes and then merge them into your current branch:

git pull origin main OR git pull

fetch changes and then rebase your current branch:

git pull --rebase

fetch all branches: git fetch --all

ways to refer to a commit

every time we say \$COMMIT_ID. you can use any of these:

⋆ a branch main v0.1 * a tag

★ a commit ID 3e887ab

* a remote branch origin/main a current commit HFAD HEAD^^^

★3 commits ago HEAD~3

★3 commits ago