

Git Basics Cheat Sheet by MKoe via cheatography.com/174546/cs/36666/

Getting a Git Repository - p. 26

Initializing Repository in Existing Directory

Go to \$ cd C:/Users/user/my_pdirectory roject Initialize .git \$ git init

subdirectory Begin file

\$ git add *.c

tracking \$ git add LICENSE

Initial Commit \$ git commit -m <messa-

Cloning Existing Repository

Clone \$ git clone <url> <directory directory name>

Tracking File Status - p. 28

Tracked files

Files that were in last snapshot + any newly staged files

can be unmodified, modified, or staged

Untracked Files

any files in working directory that were not in your last snapshot and are not in your staging area.

won't be included in your commit snapshots until explicitly told

\$ git status check status \$ git add <file/directory track new file. name> stage file

If you modify a file after you run git add, you have to run git add again to stage the latest version of the file

\$ git status -s check status (short)

new untracked

newly staged files

modified files

lefthand column indicates status of staging area and the right-hand column indicates

Ignoring Files

Tracking File Status - p. 28 (cont)

repository might have a single .gitignore file in its root directory, which applies to the entire repository

additional .gitignore files in subdirectories possible

specifies which files are ignored by version control

View and Commit Changes - p. 33

git diff view unstaged changes git diff -compare staged changes to staged last commit If all changes are staged, git diff will give no output. git difftool view changes in graphical

difftool git commit commit changes, launches

editor for commit message git commit add message in command -m

staging

git commit

git rm remove file from tracked files git rm -f force removal of already

commit all changed files, skip

git rm -remove file from Git track. cached keep it on hard drive

staged file

If you simply remove the file from working directory, it shows up under the "Changes not staged for commit"

Move/Rename File git mv file_from file_to

Git doesn't explicitly track file movement

Viewing the Commit History - p. 40	
git log	list commits made in chronological order
git log -p	show difference introduced in each commit
git log -2	show last two log entries
git logstat	show abbreviated stats for each commit
git logpretty	change log output format
pretty=format: "%h - %an, %ar : %s"	format specifier for log output
%h	abbreviated commit hash
%an	author name
%ar	author date, relative
%s	Subject
git loggraph	display ASCII graph for merging history
git log since=x	limit log output to time x
git log author=x	limit log output to author x
git logall match	limit output to those that match all limiting patterns
git log -S	Only show commits adding or removing code matching string
path/file	limit log output to changes introduced in specified files
Is always the last option and is generally preceded by double dashes () to separate paths from the options	

status of working tree



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--no-merges

prevent display of merge

commits

