

Git Cheat Sheet

Create a Repository

From scratch -- Create a new local repository

\$ git init [project name]

Download from an existing repository

\$ git clone my_url

Observe a Repository

List new or modified files not yet committed

\$ git status

Show the changes to files not yet staged

\$ git diff

Show the changes to staged files

\$ git diff --cached

Show all staged and unstaged file changes

\$ git diff HEAD

Show the changes between two commit ids

\$ git diff commit1 commit2

List the change dates and authors for a file

\$ git blame [file]

Show the file changes for a commit id and/or file

\$ git show [commit]:[file]

Show full change history

\$ git log

Show change history for file/directory including diffs

\$ git log -p [file/directory]

Working With Branches

List all local branches \$ git branch List all branches, local and remote \$ git branch -av Switch to a branch, my_branch, and update working directory \$ git checkout my branch Create a new branch called new branch \$ git branch new branch Delete the branch called my_branch \$ git branch -d my_branch Merge branch_a into branch_b \$ git checkout branch b \$ git merge branch a Tag the current commit \$ git tag my_tag add Working

Make a Change

Stages the file, ready for commit \$ git add [file]

Stage all changed files, ready for commit \$ git add .

Commit all staged files to versioned history \$ git commit -m "commit message"

Commit all your tracked files to versioned history

\$ git commit -am "commit message"

Unstages file, keeping the file changes \$ git reset [file]

Revert everything to the last commit \$ git reset --hard

Synchronize

Get the latest changes from origin (no merge) \$ git fetch

Fetch the latest changes from origin and merge \$ git pull

Fetch the latest changes from origin and rebase \$ git pull --rebase

Push local changes to the origin \$ git push

Finally!

When in doubt, use git help \$ git [command] -help

Or visit training.github.com for official GitHub training.

