



Create a Repository

From scratch -- Create a new local repository

\$ git init [project name]

Download from an existing repository **\$ git clone my url**

Observe your 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

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 https://training.github.com/ for official GitHub training.

