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 for commit **\$ git add [file]**

Stage all files files \$ 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

and rebase

\$ git pull --rebase

Push local changes to the origin

\$ git push

Finally!

When in doubt, use git help

\$ git command --help

https://training.github.com/

