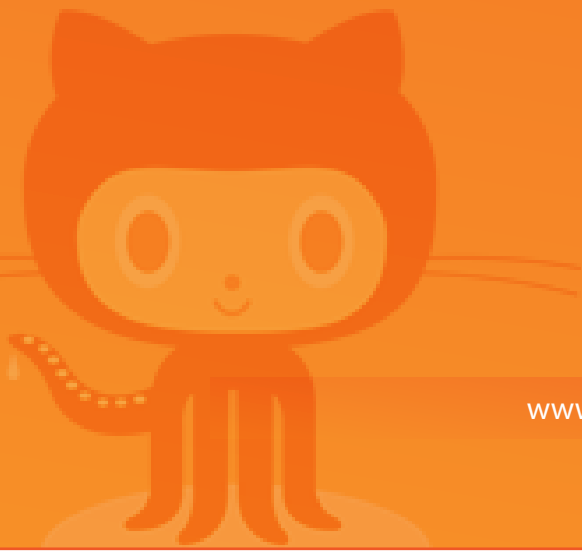




# git

## Cheat Sheet

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## 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

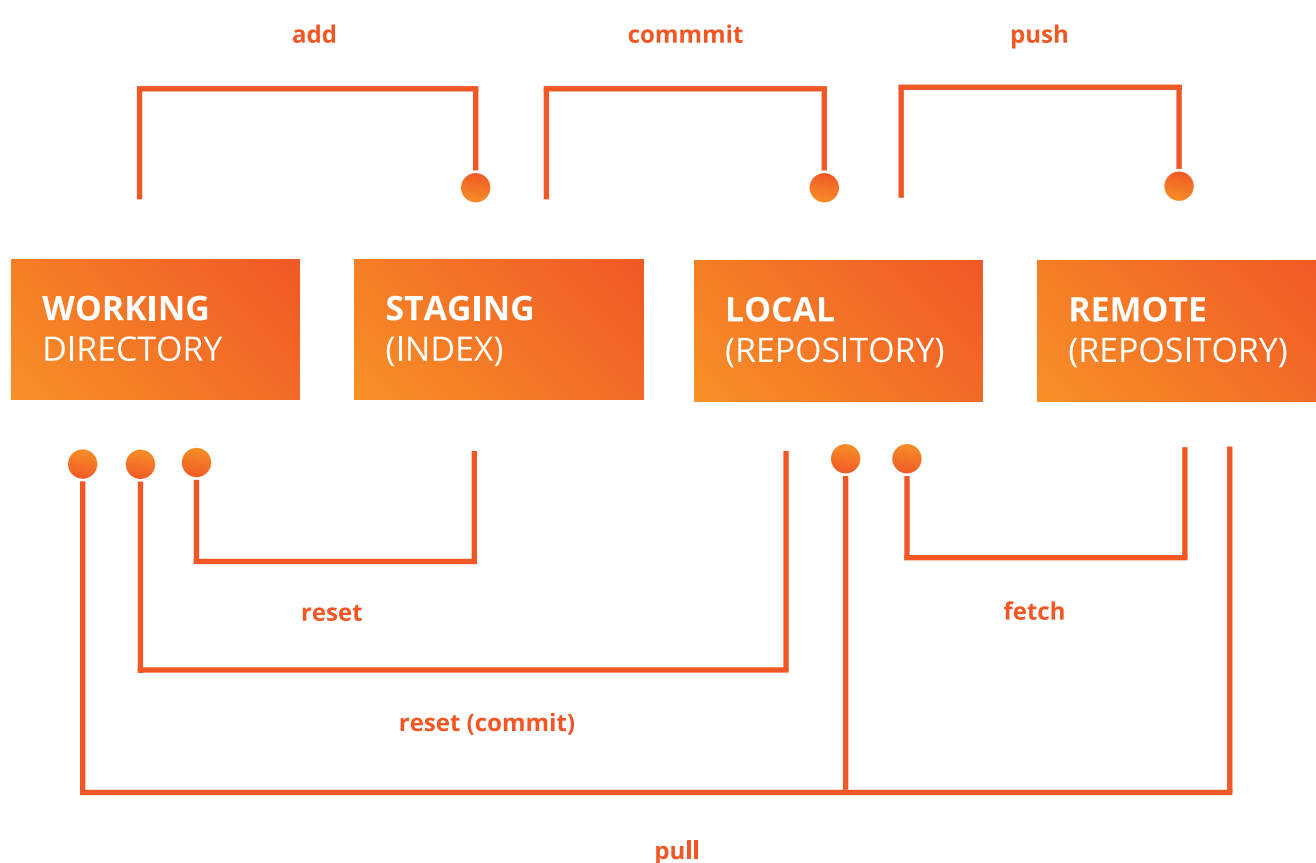
**\$ git push**

## Finally!

When in doubt, use git help

**\$ git command --help**

Or visit <https://training.github.com/> for official GitHub training.



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