

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

Stage all [redacted] files [redacted]
\$ 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

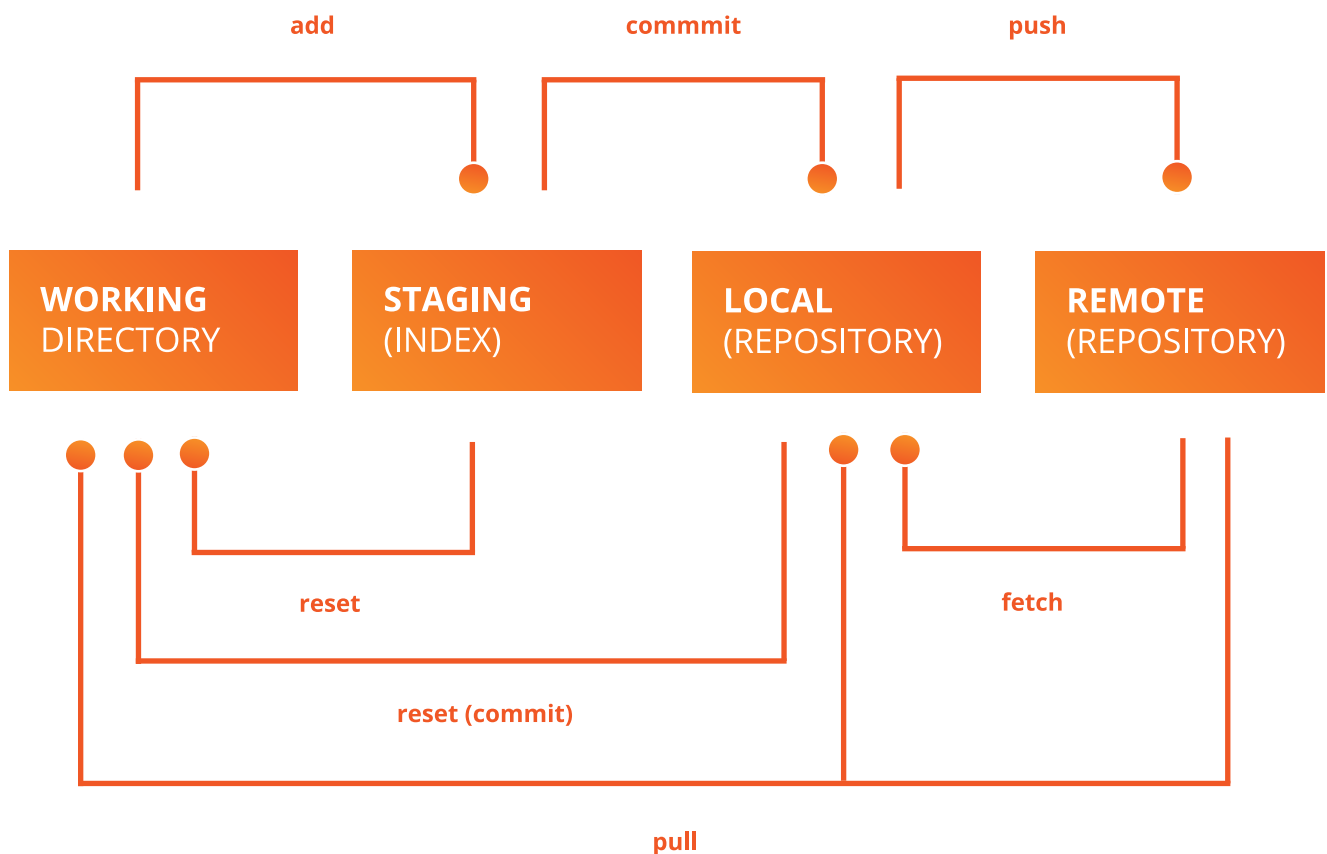
\$ git push

Finally!

When in doubt, use git help

\$ git command --help

<https://training.github.com/>



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