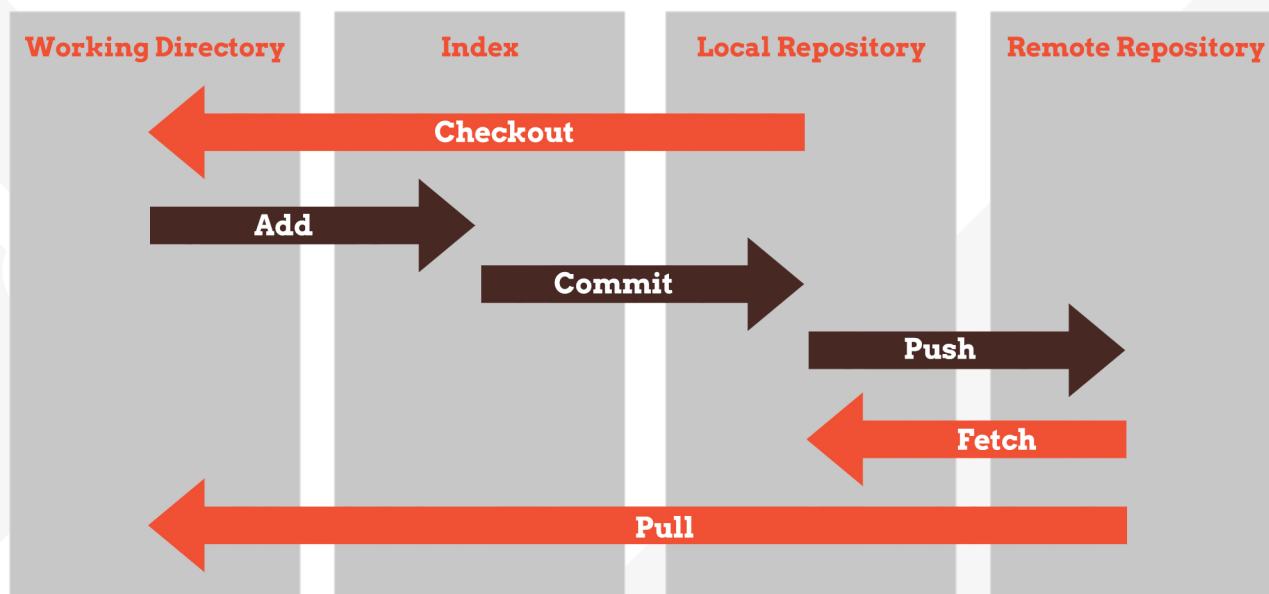




git Cheat Sheet

presented by  clearvision

Infrastructure



References

HEAD

Current working position, as shown by the contents of your working directory.

master

Default branch.

origin

Default upstream repository.

origin/master

Remote branch tracking the location of the master branch in the origin repository.

HEAD^ or HEAD~n

An ancestor of the current head where ^ = 1 or n = any number above 1.



Create

git init <path>

Turns the directory at <path> into a git repository, even if not empty. If <path> does not exist, this command will create it.

git clone <../existing/repo/path> <../new/repo/path>

Copies the repository at <../existing/repo/path> to <../new/repo/path> and records <../existing/repo/path> as the origin



Change

git add <file>

Stages a change to be included in the next commit.

git add * or git add .

Stages all changes.

git add -u .

Stages all local modifications, (recursively from the current directory, does not work on new (untracked) files).

git add -u :/

Stages all local modifications from the repository root, does not work on new (untracked) files.

git add -A

Stages all local modifications.

git commit

Converts staged changes into binary objects and puts a new commit at the top of current branch.

git commit -m <message>

Converts staged changes into binary objects and puts a new commit at the top of current branch with comment <message>.

git commit -a

Stages all local modifications and commits (does not work on new files).

git commit <file(s)>

Creates a new commit ignoring all changes other than <file(s)>.

git rm <file>

Deletes <file> and stages the change.

git mv <file> <newfile>

Move or rename <file> to <newfile>.

git stash save/apply

Save or re-apply local modifications to / from a stash.



Fixing Errors

git commit --amend

Creates a new commit in place of the current HEAD (correct the staging area first).

git reset <file>

Unstage <file>.

git reset --hard

Resets all modifications back to the HEAD, this cannot be undone unless you Stash first.

git revert <SHA-1>

Revert the delta of <SHA-1> creating a new commit at the top of current branch.

git checkout <SHA-1> <file>

recover <file> from specific commit <SHA-1>.



Log

git log (-n)

Shows the history of the current branch to the (nth) ancestor.

git log -p <file>

Shows the history of <file>

git show <SHA-1>

Show details of the object with the id <SHA-1>.

git show <SHA-1>:<file>

Show details of <file> referenced by commit <SHA-1>

git blame <file>

Show details of who changed <file> and when on a line by line basis.



Diff

git status

Show any changes in the working directory and/or index.

git diff

Show changes to unstaged files.

git diff --cached

Show changes to staged files.

git diff <SHA-1>

Show changes since <SHA-1>, this can also be HEAD or <branch>.

git diff <SHA-1><SHA-1>

Compare two commits.



Branching & Merging

git checkout <SHA-1>

Switch to the <SHA-1> or replace with a <branch>.

git merge <branch>

Merge <branch> into current branch.

git branch <branch>

Create branch named <branch> based on the HEAD.

git checkout -b <branch>

Create branch <branch> based on <SHA-1> and switch to it.

git branch -d

Delete branch <branch>.



Updates

git fetch <remote>

Recover remote changes to remote branches <remote>.

git pull <remote>

Recover remote changes to remote branches from <remote> and merge to local versions.

git push <remote> <branch>

send local changes up to remote server <remote> <branch>.



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Need further help with Git? Not a problem. Speak to us today about advice, support or training.

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