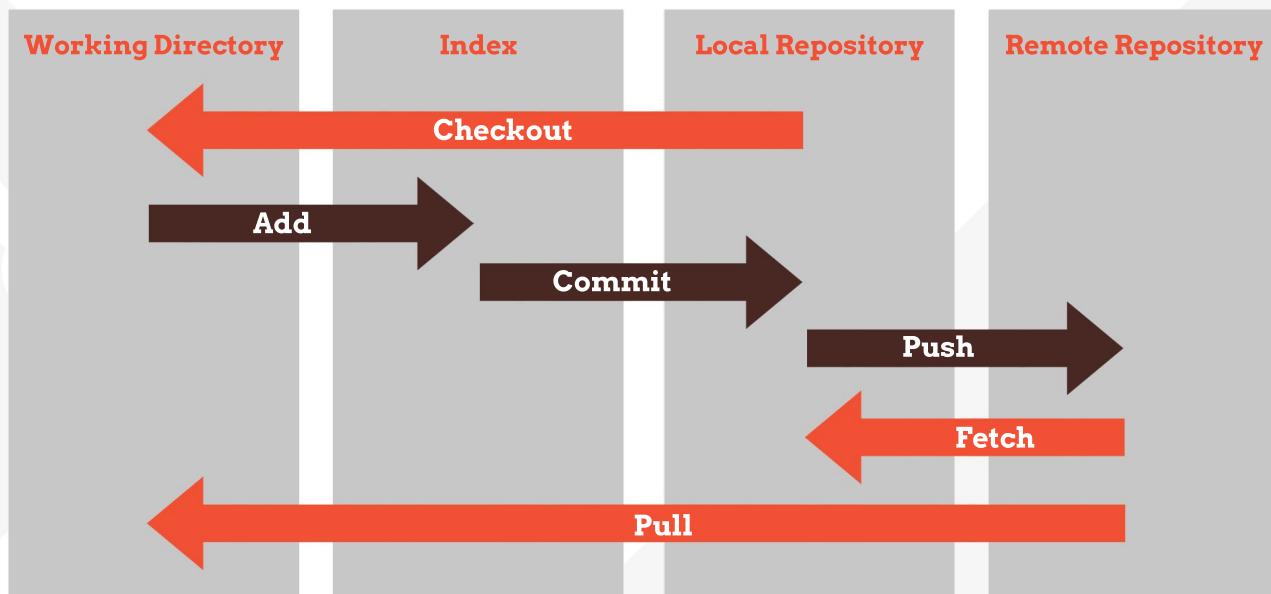


git Cheat Sheet

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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