

Git Cheatsheet

IO CODE2BITS

A Distributed Version Control System.

Create a Repository

Create new local repository

\$ git init

Create new local repository with name

\$ git init {repo name}

Download remote repository

\$ git clone {repo url}

Managing Branches

List the branches, current one highlighted **\$ git branch**

Create a new branch with name

\$ git branch {branch_name}

Delete the branch

\$ git branch -d {branch_name}

Switch to specified branch and update working directory

\$ git checkout {branch_name}

Join changes from branch into current branch

\$ git merge {branch_name}

Edit Repository

Add file contents to the index

\$ git add {filename}

Add all files (new, modified, deleted) to staging

\$ git add -A

Record changes to the repository with message

\$ git commit -m "{Message}"

Resets the index and working directory from HEAD.

\$ git reset --hard HEAD

Resets file in index, keep working tree

\$ git reset {file}

Resets the file in index and working tree

\$ git reset --hard {file}

Remove file from the working tree and index.

\$ git rm {file}

Remove file from the index and not index.

\$ git rm --cached {file}

Move or rename a file, directory or symlink

\$ git mv {old} {new}

Working Dir Staging / Index Local Repo Remote Repo reset checkout
 push checkout
 pull / rebase

Inspect Repository

Show the working tree status

\$ git status

View changes: Working Dir & Index

\$ git diff

View changes: Index & Local Repo

\$ git diff --cached

View changes: Working Dir & Local Repo (HEAD)

\$ git diff HEAD

View changes in Local Repo between HEAD & HEAD-1

\$ git diff HEAD HEAD^

View changes between Index & Local Repo (HEAD)

\$ git diff --cached HEAD

View changes in Local Repo between id1 & id2

\$ git diff {commit1} {commit2}

View changes in Local Repo between tag1 & tag2

\$ git diff {tag1} {tag2}

Show the commit history

\$ git log

Show commit history

\$ git log --oneline --graph --decorate -all

Show log message and textual diff for the commit

\$ git show {commit}

Show what was changed in file by whom

\$ git blame {filename}



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Git Configuration

Set user name property in global config

\$ git config --global user.name "{name}"

Set user email property in global config

\$ git config --global user.email "{email}"

Display user name property value

\$ git config user.name

Display user name property value

\$ git config user.email

Display all property values in global config

\$ git config --global --list

Open default editor to modify local config file.

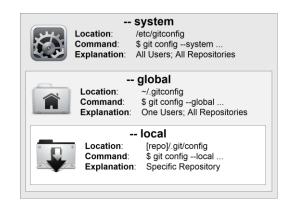
\$ git config -e --local

Open default editor to modify global config file.

\$ git config -e --global

Open default editor to modify system config file.

\$ git config -e --system



Sync Remote Repository

Shows a list of existing remote repositories

\$ git remote

Add a remote name for repository at url

\$ git remote add {name} {repo_url}

Shows list of existing remote repositories with urls

\$ git remote -v

Download objects and refs from another repository

\$ git fetch

Fetch from and integrate with another repository or a local branch

\$ git pull {alias} {branch name}

Push branch to upstream remote repository

\$ git push {alias} {branch_name}

Manage Tags

Create a tag reference

\$ git tag {tag name}

Create an "annotated" tag reference

\$ git tag -a {tag name}

List all the tags

\$ git tag --list

Delete specific tag

\$ git tag --delete {tag name}

Save / Stash Code Fragments

Record the current state of working directory

\$ git stash

Record the current state of working directory (Include untracked)

\$ git stash -u

List the stash entries with its name.

\$ git stash list

Remove stash state and apply to working tree

\$ git stash apply

Remove a single stash entry from the list of stash entries

\$ git stash drop

Same as git stash apply + git stash drop

\$ git stash pop

Remove all the stash entries.

\$ git stash clear

Git Help

Provide help on the different git commands

\$ git help

Provide help on the specific git command

\$ git help {command}

Provide help on the specific git command

\$ git {command} --help