

Git cheatsheet

This cheat sheet summarizes commonly used Git command line instructions for quick reference.

Getting Started

Create a Repository

Create a new local repository

```
$ git init [project name]
```

Clone a repository

```
$ git clone git_url
```

Clone a repository into a specified directory

```
$ git clone git_url my_directory
```

Make a change

Show modified files in working directory, staged for your next commit

```
$ git status
```

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
```

Diff of what is changed but not staged

```
$ git diff
```

Diff of what is staged but not yet committed

```
$ git diff --staged
```

Apply any commits of current branch ahead of specified one

```
$ git rebase [branch]
```

Configuration

Set the name that will be attached to your commits and tags

```
$ git config --global user.name "name"
```

Set an email address that will be attached to your commits and tags

```
$ git config --global user.email "email"
```

Enable some colorization of Git output

```
$ git config --global color.ui auto
```

Edit the global configuration file in a text editor

```
$ git config --global --edit
```

Working with Branches

List all local branches

```
$ git branch
```

List all branches, local and remote

```
$ git branch -av
```

Switch to my_branch, and update working directory

```
$ git checkout my_branch
```

Create a new branch called new_branch

```
$ git checkout -b new_branch
```

Delete the branch called my_branch

```
$ git branch -d my_branch
```

Merge branchA into branchB

```
$ git checkout branchB  
$ git merge branchA
```

Tag the current commit

```
$ git tag my_tag
```

Observe your Repository

Show the commit history for the currently active branch

```
$ git log
```

Show the commits on branchA that are not on branchB

```
$ git log branchB..branchA
```

Show the commits that changed file, even across renames

```
$ git log --follow [file]
```

Show the diff of what is in branchA that is not in branchB

```
$ git diff branchB..branchA
```

Show any object in Git in human-readable format

```
$ git show [SHA]
```

Synchronize

Fetch down all the branches from that Git remote

```
$ git fetch [alias]
```

Merge a remote branch into your current branch to bring it up to date

```
$ git merge [alias]/[branch]  
# No fast-forward  
$ git merge --no-ff [alias]/[branch]  
# Only fast-forward  
$ git merge --ff-only [alias]/[branch]
```

Remote

Add a git URL as an alias

```
$ git remote add [alias] [url]
```

Show the names of the remote repositories you've set up

```
$ git remote
```

Show the names and URLs of the remote repositories

```
$ git remote -v
```

Temporary Commits

Save modified and staged changes

```
$ git stash
```

List stack-order of stashed file changes

```
$ git stash list
```

Write working from top of stash stack

```
$ git stash pop
```

Transmit local branch commits to the remote repository branch

```
$ git push [alias] [branch]
```

Fetch and merge any commits from the tracking remote branch

```
$ git pull
```

Merge just one specific commit from another branch to your current branch

```
$ git cherry-pick [commit_id]
```

Remove a remote repository

```
$ git remote rm [remote repo name]
```

Change the URL of the git repo

```
$ git remote set-url origin [git_url]
```

Discard the changes from top of stash stack

```
$ git stash drop
```

Tracking path Changes

Delete the file from project and stage the removal for commit

```
$ git rm [file]
```

Change an existing file path and stage the move

```
$ git mv [existing-path] [new-path]
```

Show all commit logs with indication of any paths that moved

```
$ git log --stat -M
```

Ignoring Files

```
/logs/*
```

```
# "!" means don't ignore  
!logs/.gitkeep
```

```
/* Ignore Mac system files  
.DS_store
```

```
# Ignore node_modules folder  
node_modules
```

```
# Ignore SASS config files  
.sass-cache
```

A `.gitignore` file specifies intentionally untracked files that Git should ignore

Git Tricks

Rename branch

1 Renamed to new_name

```
$ git branch -m <new_name>
```

2 Push and reset

```
$ git push origin -u <new_name>
```

3 Delete remote branch

```
$ git push origin --delete <old>
```

Log

Search change by content

```
$ git log -S'<a term in the source>'
```

Show changes over time for specific file

```
$ git log -p <file_name>
```

Print out a cool visualization of your log

```
$ git log --pretty=oneline --graph --  
decorate --all
```

Branch

List all branches and their upstreams

```
$ git branch -vv
```

Quickly switch to the previous branch

```
$ git checkout -
```

Get only remote branches

```
$ git branch -r
```

Checkout a single file from another branch

```
$ git checkout <branch> -- <file>
```

Rewriting history

Rewrite last commit message

```
$ git commit --amend -m "new message"
```

See also: [Rewriting history](#)

Git Aliases

```
git config --global alias.co checkout  
git config --global alias.br branch  
git config --global alias.ci commit  
git config --global alias.st status
```

See also: [More Aliases](#)

Top Cheatsheet

Python Cheatsheet
Quick Reference

Vim Cheatsheet
Quick Reference

Google Search Cheatsheet
Quick Reference

Kubernetes Cheatsheet
Quick Reference

JavaScript Cheatsheet
Quick Reference

Bash Cheatsheet
Quick Reference

ES6 Cheatsheet
Quick Reference

ASCII Code Cheatsheet
Quick Reference

Recent Cheatsheet



QuickRef.ME

Share quick reference and cheat sheet for developers.

中文版 #Notes

f t w a s u



Starting a new job search?
Easily generate a beautiful
resume for free in minutes!

ADS VIA CARBON

