







Git

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 commited
$ 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 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 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]
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]
                                                                                    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
Remove a remote repository
$ git remote rm [remote repo name]
Change the URL of the git repo
$ git remote set-url origin [git_url]
                                                                          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
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/*
  !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
# Tricks
                                                                            Rename branch
  1. Rename the local branch
  $ git branch -m <new_name>
  2. Push and reset the upstream branch
  $ git push origin -u <new_name>
  3. Delete the <old_name> remote branch
  $ git push origin --delete <old_name>
  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>
                                                                                 Commit
 Rewrite last commit message
$ git commit -v --amend
                                                                              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
POPULAR
                                             RECENT
```

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