

Git Quick Reference

Getting help:

git help <i>command</i>	or
git <i>command</i> --help	Show help for a command

Repository creation:

git init	Create a repository in the current directory
git clone <i>url</i>	Clone a remote repository into a subdirectory

File operations:

git add <i>path</i>	Add file or files in directory recursively
git rm <i>path</i>	Remove file or directory from the working tree
-f	Force deletion of file(s) from disk
git mv <i>path destination</i>	Move file or directory to new location
-f	Overwrite existing destination files
git checkout [<i>rev</i>] <i>file</i>	Restore file from current branch or revision
-f	Overwrite uncommitted local changes

Working tree:

git status	Show status of the working tree
git diff [<i>path</i>]	Show diff of changes in the working tree
git diff HEAD <i>path</i>	Show diff of stages and unstaged changes
git add <i>path</i>	Stage file for commit
git reset HEAD <i>path</i>	Unstage file for commit
git commit	Commit files that has been staged (with git-add)
-a	Automatically stage all modified files
git reset --soft HEAD^	Undo commit & keep changes in the working

	tree
git reset --hard HEAD^	Reset the working tree to the last commit
git clean	Clean unknown files from the working tree

Examining History:

git log <i>[path]</i>	View commit log, optionally for specific path
git log <i>[from[.to]]</i>	View commit log for a given revision range
--stat	List diffstat for each revision
-S'pattern'	Search history for changes matching pattern
git blame <i>[file]</i>	Show file annotated with line modifications

Remote repositories - remotes:

git fetch <i>[remote]</i>	Fetch changes from a remote repository
git pull <i>[remote]</i>	Fetch and merge changes from a remote repository
git push <i>[remote]</i>	Push changes to a remote repository
git remote	List remote repositories
git remote add <i>remote url</i>	Add remote to list of tracked repositories

Branches:

git checkout <i>branch</i>	Switch working tree to branch
-b <i>branch</i>	Create branch before switching to it
git branch	List local branches
git branch -f <i>branch rev</i>	Overwrite existing branch, start from revision
git merge <i>branch</i>	Merge changes from branch

Exporting and importing:

git apply - < <i>file</i>	Apply patch from stdin
git format-patch <i>from[.to]</i>	Format a patch with log message and diffstat
git archive <i>rev</i> > <i>file</i>	Export snapshot of revision to file

<code>--prefix=dir/</code>	Nest all files in the snapshot in directory
<code>--format=[tar zip]</code>	Specify archive format to use: <i>tar</i> or <i>zip</i>

Tags:

<code>git tag name [revision]</code>	Create tag for a given revision
<code>-s</code>	Sign tag with your private key using GPG
<code>-l [pattern]</code>	List tags, optionally matching pattern

File status flags:

M modified	File has been modified
C copy-edit	File has been copied and modified
R rename-edit	File has been renamed and modified
A added	File has been added
D deleted	File has been deleted
U unmerged	File has conflicts after a merge

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