

# Git Quick Reference

## Getting help:

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

## Repository creation:

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

## File operations:

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

## Working tree:

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

## Examining History:

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

## Remote repositories - remotes:

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

## Branches:

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

## Exporting and importing:

<b>git apply</b> - < <i>file</i>	Apply patch from stdin
<b>git format-patch</b> <i>from</i> [.. <i>to</i> ]	Format a patch with log message and diffstat
<b>git archive</b> <i>rev</i> > <i>file</i>	Export snapshot of revision to file
--prefix= <i>dir</i> /	Nest all files in the snapshot in directory
--format={ <i>tar</i> / <i>zip</i> }	Specify archive format to use: <i>tar</i> or <i>zip</i>

## Tags:

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

## File status flags:

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