

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

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</i> [.. <i>to</i>]]	View commit log for a given revision range
--stat	List diffstat for each revision
-S' <i>pattern</i> '	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

**Remote repositories -
remotes:**

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

Tags:

git tag <i>name [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:

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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