

Git Quick Reference

Getting help:

git help *command* or
git *command* --help Show help for a command

Repository creation:

git init Create a repository in the current directory
git clone *url* Clone a remote repository into a subdirectory

File operations:

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

Working tree:

git status Show status of the working tree
git diff [*path*] Show diff of changes in the working tree
git diff HEAD *path* Show diff of stages and unstaged changes
git add *path* Stage file for commit
git reset HEAD *path* 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 [*path*] View commit log, optionally for specific path
git log [*from*[..*to*]] View commit log for a given revision range
--stat List diffstat for each revision
-S'pattern' Search history for changes matching pattern
git blame [*file*] 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
<i>-b 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
<i>--prefix=dir/</i>	Nest all files in the snapshot in directory
<i>--format=[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
<i>-s</i>	Sign tag with your private key using GPG
<i>-l [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