

# 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** *<dir><file1><file2>* Add file or files in directory recursively  
**git rm** *path* Remove file 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** -s 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 diff** --cached --stat Show diff of staged changes  
**git add** *path* Stage file for commit  
**git reset** HEAD *path* Unstage file for commit  
**git commit** [-m '*msg*'] Commit files that has been staged  
-a Automatically stage all modified files  
--amend Replace last commit for a new one  
**git reset** --soft HEAD^ Undo com. & keep changes in the workingtree  
**git reset** --hard HEAD^ Reset the working tree to the last commit  
**git clean** Clean unknown files from the working tree  
**git revert** *<rev>* Reverse commit specified by *<rev>*

## Examining History:

**git log** [*path*] View commit log, optionally for specific path  
^*branch* View commit log without branch  
**git log** [*from[..*to*]] View commit log for a given revision range  
--stat List diffstat for each revision  
--oneline --graph - -decorate Show recent commits with decoration  
**git blame** [*file*] Show who authored each line  
**git ls-files** List all files in the index  
**git whatchanged** Show logs with difference*

## Remote repositories - remotes:

**git fetch** [*repo*] Fetch changes **from** a remote repository  
**git pull** [*repo*] Fetch and merge changes **from** a remote repo.  
**git push** [*repo*] [*branch*] Push changes **to** a remote repository  
**git remote** List remote repositories  
**git remote add** *remote url* Add remote to list of tracked repositories

## Branches:

**git checkout** *branch* Switch working tree to branch  
-b *branch* Create branch before switching to it  
**git branch** List local branches  
-d *branch* Delete the branch  
**git branch** -f *branch rev* Overwrite existing branch, start from revision  
**git merge** *branch* Merge changes from branch to actual branch  
**git mergetool** Work through conflicted files

## Exporting and importing:

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

## Tags:

**git tag** *name [revision]* Create tag for a given revision  
-s Sign tag with your private key using GPG  
-l [*pattern*] 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

## Configuring:

**Ignoring:** Edit \$GIT\_DIR/info/exclude  
**git config** --global user.name '*name*'  
**git config** --global user.email *name@email.com*