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 *[remote]*	Fetch changes from a remote repository
git pull *[remote]*	Fetch and merge changes from a remote repository
git push *[remote]*	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
git branch -f *branch rev*	Overwrite existing branch, start from revision
git merge *branch*	Merge changes from branch

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