

Git Quick Reference

Getting help:

git help *command*
git *command* --help

or
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*
-f Remove file from the working tree
Force deletion of file(s) from disk
git mv *path destination*
-f Move file or directory to new location
Overwrite existing destination files
git checkout [*rev*] *file*
-f Restore file from current branch or revision
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*]
^*branch* View commit log, optionally for specific path
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*
-b *branch* Switch working tree to 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*]
-s Create tag for a given revision
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*