README.md

Github Contributions

Fork vs Clone:

- ***Fork***: Merge with original repo is possible with a pull request.
- ***Clone***: Merge with original repo is only achieved by pushing to fork and then a pull request.

Contributions without permissions:

Note: It is better to fork a repository before cloning it due to copyrights when the *user is NOT declared as a contributor*.

General steps:

1. Fork repository.
2. Clone forked repository.
3. Make Changes in Local.
4. Push to Personal Remote.
5. Pull Request to Original Remote.

Contributions with permissions:

Note: It is a faster option to clone the original repository without a previous fork of the project if the *user IS declared as a contributor*.

General steps:

1. Clone
2. Make Changes in Local.
3. Push to Personal Remote.

Refer to Github official documentation for more information related to contributions.

Git Commands

The following is a list of common git commands based on the Git Documentation.

Basic	Command	Description
1. help	1. git help 2. git help `<command>` 3. git help -a	1. **List *common commands***. 2. **Display help** on git ***command***. 3. **List all** available ***commands***.
2. init	1. git init 2. git init -b `<branch>` 3. git init `<subdir.>`	1. **Initialize *git*** repo in folder. 2. **Override *branch name*** *(config. default set if none)*.

Basic	Command	Description
	4. git init --bare `<subdir.>` 5. git init --template= `<template-dir.>` 6. git init --shared `[=(-options)]`	3. **Initialize** a **git repo** inside a new subdir. 4. **Initialize** a **git bare** repo inside new subdir. 5. **Specify** *dir.* from which ***templates*** will be used. 6. Make **git *readable/writable*** by users *(see options)*.
3. clone	1. git clone `<URL>` 2. git clone --no-hardlinks `<dir.>` 3. git clone `<URL>` `<dir.>` 4. git clone `<URL>` --branch `<branch>` --single-branch 5. git clone --bare 6. git clone --mirror 7. git clone --template= `<temp_dir.>` `<dir.>` 8. git clone --depth= `<depth>`	1. **Clone *remote*** default branch with ***URL*** . 2. **Clone *local*** repo for *backup* purposes. 3. **Clone *remote*** *default branch* in ***dir***. 4. **Clone *remote*** *single branch* with repo ***URL***. 5. **Clone *remote*** with ***no remote-tracking*** & ***config.*** 6. **Clone *--bare*** with *remote tracking & config.*. 7. **Clone** set ***template*** in dir. (see *2.git init*). 8. **Clone truncated** to a number of ***revisions***.
4. config	1. git config 2. git config --global pull.rebase true 3. git config --global ff no 4. git config ff no 5. git config remote.origin.prune true 6. git config --global fetch.prune true 7. git config --global user.name `<username>`	1. **Display** git ***global config*** *(create if none)*. 2. **Set** the ***pull*** command ***as rebase*** *globally*. 3. **Disable *fast-forward*** merge for ***local*** repos. 4. **Disable *fast-forward*** merge in ***local*** repo. 5. **Set *auto-prune*** with ***fetch*** & ***pull***. 6. **Set *auto-prune*** w/ ***fetch*** for ***local*** repos.

Basic	Command	Description
	8. git config --global user.email `<e-mail>` 9. git config --system user.name `<project>` 10. git config --get user.name 11. git config -l 12. git config -e	7. **Set *author*** to commits for ***local*** repos. 8. **Set *email*** to commits for ***local*** repos. 9. **Set *author*** for all git users. 10. **Get *author/email*** from ***global/system***. 11. List all variables set in config. file. 12. **Edit config** files from ***global/system***
5. checkout	1. git checkout `<branch>` 2. git checkout -b `<feature>` 3. git checkout -b `<branch>` `<origin/branch>` 4. git checkout -- `<file>` 5. git checkout - 6. git checkout `<branch>~n <file>`	1. **Switch** to ***branch*** in working tree. 2. **Create** and ***switch*** to ***feature*** (or any) branch. 3. **Clone *remote*** branch and *switch*. 4. **Discard *changes*** in file to *match current branch*. 5. **Switch** to ***last checkout***. 6. **Reverts local** file in branch *n* ***commits*** *(e.g. n=2)*.
6. fetch	1. git fetch `<origin>` 2. git fetch `<origin>` `<branch>` 3. git fetch --all 4. git fetch --dry-run 5. git fetch --append 6. git fetch --depth= `<depth>` 7. git fetch -f 8. git fetch --prune	1. **Fetch *all***. 2. **Fetch *branch***. 3. **Fetch** all ***branches*** in repo. 4. **Show output** but ***without fetching***. 5. **Fetch *without overwriting*** (.git/FETCH_HEAD). 6. **Limit fetching** to ***n depth*** commits *(e.g. n=3)*.

Basic	Command	Description
		7. **Fetch even** if it's ***not descendant*** of *remote branch*. 8. **Remove *unexistant remote-tracking*** branches.
7.merge	1. git merge `<branch>` 2. git merge `<branch>` `<target_branch>` 3. git merge --no-ff `<branch>` 4. git merge --continue 5. git merge --allow-unrelated-histories 6. git merge -base [-a] `<commit_id>` `<commit_id>` 7. git merge -s resolve `<branch-1>` `<branch-2>` 8. git merge -s recursive -X ours OR theirs `<branch>` 9. git merge -s octopus `<branch-1>` `<branch-n>` 10. git merge -s ours `<branch-1>` `<branch-n>` 11. git merge -s subtree `<branch-1>` `<branch-2>`	1. **Fast-forward** merge branch with ***HEAD*** *(linear)*. 2. **Fast-forward** merge branch to tip of ***target***. 3. **Maintain** commit ***history***, may not fast-fwd. 4. **Conclude** *conflicting* ***merge***. 5. **Merge *indep. projects*** by overriding safeties. 6. **Find ancestor** on ***n commits*** for a *3-way merge*. 7. **3-way merge** *2 branch HEADs*. 8. **3-way merge *>1 common ancestors*** for *tree*. 9. **Merges *more than 2*** branch *HEADs*. 10. **Merges *multiple branches tip*** in HEAD. 11. **Reflect B tree *structure*** as *subtree of A*.
8. pull	1. git pull 2. git pull `<URL>` 3. git pull `<origin>` `<branch>`	1. **Fetch** & **merge** *remote-tracking* with local. 2. **Clone, fetch** & **merge** remote's *URL* with local.

Basic	Command	Description
	4. git pull --rebase `<origin> <branch>` 5. git pull --ff-only 6. git pull --no-ff 7. git pull -s `<strategy>` -X `<option>`	3. **Fetch** & **merge** *remote branch* with local. 4. **Fetch** & **rebase** *branch*. 5. **Update** *branch* without a merge commit. 6. **Pull** & **commit** even for *fast-forwards (linear)*. 7. Same strategies and options as for merge last 5.
9. add	1. git add -A 2. git add . 3. git add `<file>` 4. git add -n `<file>` 5. git add --v 6. git add -force 7. git add -p 8. git add -i 9. git add -e	1. **Add *all changes*** in files to stage. 2. **Add *changes*** without *deletions* for stage. 3. **Add *file*** to stage. 4. **Show** if ***file*** is ***unexistant***. 5. **Ignore** indexing ***errors*** for git add. 6. **Allows** to add ***ignored*** files. 7. **Patch hunks *interactively*** from *index to tree*[1]. 8. **Patch changes *interactively*** from *index to tree*. 9. Interactive patch mode vs diff editor.
10. commit	1. git commit -m `<msg>` 2. git commit --date= `<date>` 3. commit -i `<msg>` 4. git commit --dry-run 5. git commit -v 6. git commit --amend	1. **Overwrite** commit ***msg*** . 2. **Override** author's ***date*** in commit. 3. **Commit *changes*** & ***unstaged*** content. 4. **List** only ***commited, uncommited*** & ***untracked*** paths.

Basic	Command	Description
	7. git commit -s	5. **Show differences** between ***HEAD*** and ***commit***. 6. **Modify** the most *recent* commit ***msg***. 7. Add **author signature** at the ***end*** of *commit msg*.
11.push	1. git push 2. git push -u `<origin> <branch>` 3. git push --all 4. git push `<origin>` --delete `<branch>` 5. git push --force 6. git push --force-with-lease 7. git push --prune `<origin refs/heads/*>` 8. git push --mirror	1. **Push** *commits*. 2. **Push** *commits* and set as ***upstream***. 3. **Push** ***all*** *commits*. 4. **Delete** ***remote-tracking*** branch. 5. **Push** commits and ***destroy all unmerged*** changes. 6. **Push** and ***destroy personal unmerged*** changes. 7. **Remove** ***remote*** *without local counterpart*. 8. **Overwrite** ***remote*** *with* ***local*** branches.
12.pull request	1. git request-pull `<branch> <URL> <feature>`	1. **Pull request** for changes between tag and feature.
13. branch	1. git branch 2. git branch -r 3. git branch -a 4. git branch `<branch>` 5. git branch -d `<branch>` 6. git branch -D `<branch>`	1. **See** ***local*** branches. 2. **See** ***remote*** *branches*. 3. **See** ***local and remote*** *branches*. 4. **Create** ***branch*** and *name it*. 5. **Delete** ***unmerged*** branch. 6. **Delete** ***merged*** & ***unmerged*** branches.

Basic	Command	Description
	7. git branch -f `<branch>` `<feature>` 8. git branch --show-current 9. git branch --set-upstream-to 10. git branch / grep -v `<branch(es)>` / xargs git branch -D	7. **Rewrite** local ***branch*** with ***feature*** branch. 8. **Show *current*** branch in local. 9. Make an existing git branch **track** a ***remote***. 10. **Delete *all*** branches *excepting* selected.
14. diff	1. git diff 2. git diff --staged 3. git diff HEAD 4. git diff --color-words 5. git diff `<branch> <feature> <file>` 6. git diff `<commit_id> <commit_id> <file>` 7. git diff --stats 8. git diff-files 9. git diff stash@{n} `<branch>`	1. **Check** for **differences** in ***local*** & ***remote-tracking***. 2. **Check** for **differences** in ***local*** & ***staged*** changes. 3. **Check** for **differences** in ***work dir.*** & ***last commit***. 4. **Highlight *changes*** with *color* granularity. 5. **Check** for **differences** in a file between ***two branches***. 6. **Check** for **differences** in a file between ***two commits***. 7. **Show *insertions*** & ***deletions*** in *staged* and *local*. 8. **Compare *files*** in the *working tree*[2]. 9. **Compare stash *n*** with *branch*.
15. log	1. git log -n 2. git log --oneline 3. git log -p --follow -- `<file>` 4. git log --oneline --decorate	1. **Display *logs*** from last 1,2,..*n* commits. 2. **Show *IDs*** from commits. 3. **Show *commits*** on a *file*. 4. **Display *commits~branches***.

Basic	Command	Description
	5. git log --stats 6. git shortlog 7. git log --pretty=format:"%cn committed %h on %cd" 8. git log --after=`<yyyy-m-d>` --before=`<yyyy-m-d>` 9. git log --author=`<username>`	5. **Show *insertions* & *deletions***. 6. **Display *commits*** *first coding line* by author. 7. **Customized log** (*show author, hash & date*). 8. **Search** for ***commits*** in *range*. 9. **Search** for ***commits*** by *author*.
16. revert	1. git revert `<commit_id>` 2. git revert `<commit_id>` --no-edit 3. git revert -n `<commit_id>` 4. git revert -n `<HEAD>~n` 5. git revert -n `<HEAD>~n` .. `<HEAD>~m`	1. **Invert commit** & ***commit*** *undone changes*. 2. **Reverts** *without* a new ***commit msg***. 3. **Invert *changes*** & ***stage*** *only*. 4. **Revert *n commits***. 5. **Revert** from ***n→m commits*** *[n,m]*.
17. reset	1. git reset `<file>` 2. git reset --mixed `<HEAD>~n` 3. git reset --mixed `<commit-id>` 4. git reset --hard `<HEAD>~n` 5. git reset --soft `<HEAD>~n` 6. git reset -p	1. **Untrack *file***. 2. **Unmerge** & **uncommit** but ***don't unstage*** *(default)*. 3. **Mixed** with ***commit hash*** *(default)*. 4. **Undo** all ***n*** *changes*. 5. **Hard reset** but able to ***recover*** *changes* with ***git commit***. 6. **Patch interactively** (***git add -p*** *inverse*).
18. stash	1. git stash 2. git stash push -m `<msg>` 3. git stash list	1. **Saves work dir.** from ***local*** & *hard reset*. 2. **Saves work dir.** from local ***with msg*** & *hard reset*.

Basic	Command	Description
	4. git stash list --stat 5. git stash apply 6. git stash pop -n 7. git stash drop -n	3. **List *stashed*** changes as an *index [n]* 4. **Show summary** of ***changes*** in *stash list* 5. **Recover *stash[0]*** from *work dir*. 6. **Recover *stash n*** & *delete it* from *stash* list. 7. **Delete *stash n*** from *stash list*.
19. status	1. git status 2. git status -s 3. git status -b	1. **List (un)staged, (un)tracked** changes (work dir.,stage & modif.). 2. **Status** in ***short*** *format*. 3. **Status** on a ***branch***.
20. touch	1. git touch `<name.ext>`	1. **Create file** with ***extension*** *(e.g test.txt)*.
21. switch	1. git switch `<branch>` 2. git switch -c `<branch>` 3. git switch -c `<branch>` `<commit_id>`	1. **Switch** to ***branch***. 2. **Create** a new ***branch*** and *switch*. 3. **Grow branch** from ***commit***.
22. cd	1. cd ~/ `<home>` 2. cd ~/ `<home>` / `<dir.>` 3. cd ~/ `<home>` / `<dir.>` / `<subdir.>`	1. **Change dir.** to ***home*** *(e.g ~/Desktop)* 2. **Change dir.** to a ***folder*** in *home*. 3. **Change dir.** to n ***sub-folders*** in *home*.
23. ls	1. ls 2. ls -la	1. **List subfolders** in ***dir***. 2. **List subfolders** in ***dir*** with *hidden files*.
24. rm	1. git rm `<file>` 2. rm `<file>`	1. **Remove file** from ***git tracking*** & ***local***. 2. **Remove file** from ***local*** *only*.

Basic	Command	Description
25. mv	1. git mv `<file.ext>` `<new-filename.ext>` 2. git mv `<file.ext>` ~/`<home>`/`<dir.1>`/`<subdir.>`	1. **Rename file** with the same ***extension***. 2. **Move file** from dir.1 to subdir. (inside dir.1)
26. mkdir	1. git mkdir ~/`<home>`/`<dir.>`/`<subdir.>/<new_dir.>`	1. **Create dir.** ***in path***.
27. remote	1. git remote 2. git remote -v 3. git remote rename `<old-name> <new-name>` 4. git remote add `<URL>`	1. **List** ***remote*** *branches*. 2. **List** ***remote*** *branches* with *URL*. 3. **Rename** ***remote***. 4. **Connection** with ***repo*** with *URL*.
28. gitk	1. gitk 2. gitk HEAD...FETCH_HEAD	1. **Show Git GUI** for ***commits***. 2. **Show Git GUI** for ***all users*** since last push.

Note: Remember to call branches by their names in your commands (*see 13. branch*).
Tip: `<main>` is the default name for remote repositories as `<master>` is for local.

Definitions:

origin: Primary ***working dir.*** of ***remote*** repositories by ***default***.
fetch: Fetch is the ***safe*** version of ***pull*** because local ***files aren't merged*** until they are reviewed, checked out & merged.
revert: Revert is ***safer*** than doing git ***reset***, checkout to *discard* (*see 5.4*), etc. This is because commit ***history isn't erased*** but a new inverted commit is appended.
feature: Feature represents a ***branch of developments*** in progress with their descriptions.

See Also:
Glossary

Author:

EstebanMqz

Contact:

Feel free to send me an email if you have any questions.
Contributions are greatly appreciated!

Note: If you are interested in learning more about git commands you can check out the list below and refer to the git documentation for more options on these commands.

Other Commands:

- **git am** ~ Splits patches from a mailbox into commit msg, author and patches to apply them to branch.
  e.g: `git am --keep-cr --signoff < a_file.patch` *to apply patch as commit.*
- **git apply** ~ Apply a patch to files and add them to the index.
  e.g: `git apply < a_file.patch` *to apply patch to files.*
- **git archive** ~ Combine multiple files in a single file but removes git data.
  e.g: `git archive --format=zip --output=archive.zip HEAD` *to create a zip file with all files in HEAD.*
- **git bisect** ~ Binary search algorithm to find commit in project history which caused a bug.
  e.g: `git bisect start` *to start the search.*
- **git blame** ~ Show what revision and author last modified each line of a file.
  e.g: `git blame <file>` *to show the last author of each line in file.*

- **git bugreport** ~ Create a report to send to git mailing list.
  e.g: `git bugreport -o report.txt` *to create a report and save it to report.txt.*
- **git bundle** ~ Move objects and refs by archive.
  e.g: `git bundle create <file> <branch>` *to create a bundle with branch.*
- **git cat-file** ~ Provide content or type and size information for repository objects.
  e.g: `git cat-file -p <commit>` *to show the content of commit.*
- **git check-attr** ~ Display git attributes.
  e.g: `git check-attr -a` *to show all attributes.*
- **git check-mailmap** ~ Show canonical names and email addresses of contacts.
  e.g: `git check-mailmap <name>` *to show the canonical name of name.*
- **git check-ref-format** ~ Ensure that a reference name is well formed.
  e.g: `git check-ref-format --branch @{-1}` *print the name of the previous branch.*
- **git check-ignore** ~ Debug gitignore files.
  e.g: `git check-ignore -v <file>` *to show the gitignore file that ignores file.*
- **git cherry** ~ Find commits not merged upstream.
  e.g: `git cherry -v <branch>` *to show the commits not merged in branch.*
- **git cherry-pick** ~ Apply the changes introduced by some existing commits.
  e.g: `git cherry-pick <commit>` *to apply the changes of commit to current branch.*
- **git citool** ~ Graphical alternative to git-commit.
  e.g: `git citool` *to open the graphical commit tool.*
- **git clean** ~ Remove untracked files from the working tree.
  e.g: `git clean -n` *to show what files what files would be removed without removing them.*
- **git clone** ~ Clone a repository into a new directory.
  e.g: `git clone <repo>` *to clone repo into current directory.*
- **git column** ~ Display data in columns.
  e.g: `git column --mode=html <file>` *to display file in html columns.*
- **git commit** ~ Record changes to the repository.
  e.g: `git commit -m <msg>` *to commit with msg.*

- **git commit-graph** ~ Write and verify a commit-graph file.
  e.g: `git show-ref -s | git commit-graph write --stdin-commits` *to write a commit-graph file for reachable commits.*
- **git commit-reach** ~ Find commits that are reachable from a commit.
  e.g: `git commit-reach <commit>` *to show the commits that are reachable from commit.*
- **git commit-tree** ~ Create a new commit object.
  e.g: `git commit-tree <tree> -m <msg>` *to create a commit with tree and msg.*
- **git config** ~ Get and set repository or global options.
  e.g: `git config --global user.name <name>` *to set the global user name.*
- **git count-objects** ~ Count unpacked number of objects and their disk consumption.
  e.g: `git count-objects -v` *to show the number of objects and their size.*
- **git credential** ~ Retrieve and store user credentials.
  e.g: `git credential fill` *attempt to add "username" and "password" attributes by reading config credential helpers.*
- **git credential-cache** ~ Helper to temporarily store passwords in memory.
  e.g: `git credential-cache exit` *exit early, forgetting all cached credentials before their timeout.*
- **git credential-store** ~ Helper to store credentials on disk to reduce time to fill.
  e.g: `git credential-store <file>` *to store credentials in file.*
- **git cvsexportcommit** ~ Export a single commit to a CVS checkout.
  e.g: `git cvsexportcommit <commit>` *to export commit to a CVS checkout.*
- **git cvsimport** ~ Create a new git repository from a CVS checkout.
  e.g: `git cvsimport -v -d <cvsroot> <module> <project>` *to create a new git repository from a CVS checkout.*
- **git cvsserver** ~ Server for CVS clients to connect to and use Git repositories.
  e.g `git cvsserver --base-path=<path> <repo>` *to start the git cvsserver.*
- **git daemon** ~ A really simple server for Git repositories.
  e.g: `git daemon --reuseaddr --base-path=<dir.> --export-all` *to restart server & look for repos in dir. to export.*
- **git describe** ~ Describe specific commits with their hash.
  e.g: `git describe commit` *to describe commit with its hash (HEAD by default).*
- **git diff** ~ Show changes between commits, commit and working tree, etc.
  e.g: `git diff --stat` *to show the summary of the changed files.*

- **git diff-files** ~ Show changes between index and working tree.
  e.g: `--diff-algorithm={minimal}` *to include the smallest possible diff are included.*
- **git diff-index** ~ Show changes between commits, commit and working tree, etc.
  e.g: `git diff-index --compact-summary HEAD` *to show the summary of the changed files in HEAD.*
- **git diff-tree** ~ Show changes between commits, commit and working tree, etc.
  e.g: `git diff-tree --s7hortstat HEAD` *to show the summary of the changed files in HEAD.*
- **git difftool** ~ Show changes using common diff tools.
  e.g: `git difftool --tool-help` *to show the list of available tools.*
- **git fast-export** ~ Git data exporter.
  e.g: `git fast-export --all` *to export all data.*
- **git fast-import** ~ Git data importer.
  e.g: `git fast-import --max-pack-size=1G` *to import data into a packfile of size 1G (default is unlimited)*
- **git fetch** ~ Download objects and refs from another repository.
  e.g: `git fetch <repo>` *to fetch objects and refs from repo.*
- **git fetch-pack** ~ Receive missing objects from another repository.
  e.g: `git fetch-pack --prune --all` *to fetch all objects and prune refs that are missing on the remote.*
- **git filter-branch** ~ Rewrite branches.
  e.g: `git filter-branch --tree-filter 'rm -f *.txt' HEAD` *to remove all .txt files.*
- **git fmt-merge-msg** ~ Produce a merge commit message.
  e.g: `git fmt-merge-msg <file>` *to produce a merge commit message from file.*
- **git for-each-ref** ~ Iterate over references.
  e.g: `git for-each-ref --format='%(refname)' refs/heads` *to list all branches.*
- **git format-patch** ~ Prepare patches for e-mail submission.
  e.g: `git format-patch -root <commit>` *to format everything up from start until commit.*
- **git fsck** ~ Verifies the connectivity and validity of the objects in the database.
  e.g: `git fsck --cache` *to check the connectivity and validity of the objects in the cache.*
- **git gc** ~ Cleanup unnecessary files and optimize the local repository.
  e.g: `git gc --force` *to force garbage collection.*

- **git get-tar-commit-id** ~ Extract commit ID from an archive created using git-archive.
  e.g: `git get-tar-commit-id <file>` *to extract most recent commit ID from file.*
- **git grep** ~ Print lines matching a pattern.
  e.g: `git grep -n 'print' <file>` *to print lines containing 'print' and their line numbers.*
- **git gui** ~ A portable graphical interface to Git.
  e.g: `git gui citool --nocommit` *Checks for unmerged entries on index and exits gui without committing.*
- **git hash-object** ~ Compute object ID and optionally creates a blob from a file.
  e.g: `git hash-object -w --path <file>` *write the blob to the object database and print its hash.*
- **git help** ~ Display help information about Git.
  e.g: `git help -all` *to display all git commands.*
- **git http-fetch** ~ Download objects and refs from another repository via HTTP.
  e.g: `git http-fetch -v <[URL]/refs>` *to report all refs downloaded in repo.*
- **git http-backend** ~ Server side implementation of Git over HTTP.
  e.g: `git http-backend` *serve git repo to clients over HTTP(s) protocols.*
- **git imap-send** ~ Send a collection of patches from stdin to an IMAP folder.
  e.g: `git imap-send <repo>` *to send a collection of patches from stdin to an IMAP folder.*
- **git index-pack** ~ Build pack index file for an existing packed archive.
  e.g: `git index-pack <file>` *to build pack index file for file.*
- **git init** ~ Create an empty Git repository or reinitialize an existing one.
  e.g: `git init -b <branch-name>` *to create an empty local Git repository with given branch name.*
- **git init-db** ~ Create an empty Git repository or reinitialize an existing one.
  e.g: `git init-db --config <config-file>` *to create an empty local Git repository with given config file.*
- **git instaweb** ~ Instantly browse your working repository in gitweb.
  e.g: `git instaweb --httpd=python --port=8080` *to start a python web server on port 8080.*
- **git interpret-trailers** ~ Parse trailer lines from text.
  e.g: `git interpret-trailers --check <file>` *to check if file contains trailer lines (similar to RFC 822 e-mail headers)*
- **git log** ~ Show commit logs.
  e.g: `git log --follow <file>` *to show commit logs beyond renames for file.*

- **git ls-files** ~ Show information about files in the index and the working tree.
  e.g: `git ls-files -u` *to show unmerged files.*
- **git ls-remote** ~ List references in a remote repository.
  e.g: `git ls-remote <[URL]/refs>` *to display references in a remote repository associated with commits IDs.*
- **git ls-tree** ~ List the contents of a tree object.
  e.g: `git ls-tree <tree>` *to list the contents of tree with its id*
- **git mailinfo** ~ Extracts patch and authorship from a single e-mail message.
  e.g: `git mailinfo <file>` *to extracts patch and authorship from file.*
- **git mailsplit** ~ Splits a single mailbox into mboxrd format.
  e.g: `git mailsplit <mbox>` *to splits mbox into mboxrd format.*
- **git merge** ~ Join two or more development histories together.
  e.g: `git merge --allow-unrelated-histories <branch>` *to join two or more development histories together.*
- **git merge-base** ~ Find as good common ancestors as possible for a merge.
  e.g: `git merge-base <branch1> <branch2>` *to find as good common ancestors as possible for a merge.*
- **git merge-file** ~ Run a three-way file merge.
  e.g: `git merge-file <file1> <file2> <file3>` *to run a three-way file merge.*
- **git merge-index** ~ Run a merge for files in the index.
  e.g: `git merge-index -a` *to run a merge for files in the index that need merging.*
- **git merge-tree** ~ Show three-way merge without touching index.
  e.g: `git merge-tree <file>` *to show three-way merge without touching index.*
- **git mergetool** ~ Run merge conflict resolution tools to resolve merge conflicts.
  e.g: `git mergetool--tool-help` *to list available tools.*
- **merge-index** ~ Run a merge for files in the index.
  e.g: `git merge-index -o <file>` *to run a merge for files in the index that need merging and write the result to file.*
- **git mktag** ~ Create a tag object.
  e.g: `git mktag <file>` *to create a tag object.*
- **git mktree** ~ Build a tree-object from ls-tree formatted text.
  e.g: `git mktree <file>` *to build a tree-object from ls-tree formatted text.*

- **git mv** ~ Move or rename a file, a directory, or a symlink.
  e.g: `git mv <file1> <file2>` *to move or rename file1 to file2.*
- **git name-rev** ~ Find symbolic names for given revs.
  e.g: `git name-rev --all <commit>` *to find symbolic names for given commit.*
- **git notes** ~ Add or inspect object notes.
  e.g: `git notes add -m "note" <commit>` *to add a note to commit.*
- **git pack-objects** ~ Create a packed archive of objects.
  e.g: `git pack-objects <file>` *to create a packed archive of objects in file.*
- **git pack-redundant** ~ Find redundant pack files for piping to xargs rm.
  e.g: `git pack-redundant --all` *to find redundant pack files for piping to xargs rm.*
- **git pack-refs** ~ Pack heads and tags for efficient repository access.
  e.g: `git pack-refs --all` *to pack heads and tags that are already packed*
- **git patch-id** ~ Compute unique ID for a patch.
  e.g: `git patch-id <file>` *to compute unique ID for a patch.*
- **git prune** ~ Prune all unreachable objects from the object database.
  e.g: `git prune` *to prune all unreachable objects from the object database.*
- **git prune-packed** ~ Prune loose objects that are already in pack files.
  e.g: `git prune-packed` *to prune loose objects that are already in pack files.*
- **git pull** ~ Fetch from and integrate with another repository or a local branch.
  e.g: `git pull` *to fetch from and integrate with another repository or a local branch.*
- **git push** ~ Update remote refs along with associated objects.
  e.g: `git push` *to update remote refs along with associated objects.*
- **git range-diff** ~ Show changes between two commit ranges.
  e.g: `git range-diff <file>` *to show changes between two commit ranges.*
- **git read-tree** ~ Reads tree information into the index.
  e.g: `git read-tree <file>` *to read tree information into the index.*
- **git rebase** ~ Reapply commits on top of another base tip.
  e.g: `git rebase` *to reapply commits on top of another base tip.*

- **git receive-pack** ~ Receive what is pushed into the repository.
  e.g: `git receive-pack <file>` *to receive what is pushed into the repository.*
- **git reflog** ~ Manage reflog information.
  e.g: `git reflog` *to manage reflog information.*
- **git remote** ~ Manage set of tracked repositories.
  e.g: `git remote` *to manage set of tracked repositories.*
- **git remote-ext** ~ External helper to communicate with a remote repository.
  e.g: `git remote-ext <file>` *to communicate with a remote repository.*
- **git remote-fd** ~ Helper to communicate with a remote repository.
  e.g: `git remote-fd <file>` *to communicate with a remote repository.*
- **git repack** ~ Pack unpacked objects in a repository.
  e.g: `git repack` *to pack unpacked objects in a repository.*
- **git replace** ~ Create, list, delete refs to replace objects.
  e.g: `git replace` *to create, list, delete refs to replace objects.*
- **git request-pull** ~ Generates a summary of pending changes.
  e.g: `git request-pull` *to generate a summary of pending changes.*
- **git rerere** ~ Reuse recorded resolution of conflicted merges.
  e.g: `git rerere` *to reuse recorded resolution of conflicted merges.*
- **git reset** ~ Reset current HEAD to the specified state.
  e.g: `git reset` *to reset current HEAD to the specified state.*
- **git resolve-undo** ~ Undo the last cherry-pick, revert or merge.
  e.g: `git resolve-undo` *to undo the last cherry-pick, revert or merge.*
- **git rev-list** ~ Lists commit objects in reverse chronological order.
  e.g: `git rev-list` *to list commit objects in reverse chronological order.*
- **git rev-parse** ~ Pick out and massage parameters.
  e.g: `git rev-parse` *to pick out and massage parameters.*
- **git revert** ~ Revert some existing commits.
  e.g: `git revert` *to revert some existing commits.*

- **git rm** ~ Remove files from the working tree and from the index.
  e.g: `git rm` *to remove files from the working tree and from the index.*
- **git send-email** ~ Send a collection of patches as emails.
  e.g: `git send-email` *to send a collection of patches as emails.*
- **git shell** ~ Restricted login shell for git-only SSH access.
  e.g `git-shell -c '<command>'` *to run a git-shell command.*
- **git shortlog** ~ Summarize 'git log' output.
  e.g: `git shortlog` *to summarize 'git log' output.*
- **git show** ~ Show various types of objects.
  e.g: `git show` *to show various types of objects.*
- **git show-branch** ~ Show branches and their commits.
  e.g: `git show-branch` *to show branches and their commits.*
- **git stage** ~ Stage file contents for the next commit.
  e.g: `git stage` *to stage file contents for the next commit.*
- **git stash** ~ Stash the changes in a dirty working directory away.
  e.g: `git stash` *to stash the changes in a dirty working directory away.*
- **git status** ~ Show the working tree status.
  e.g: `git status` *to show the working tree status.*
- **git stripspace** ~ Remove unnecessary whitespace.
  e.g: `git stripspace` *to remove unnecessary whitespace.*
- **git submodule** ~ Initialize, update or inspect submodules.
  e.g: `git submodule` *to initialize, update or inspect submodules.*
- **git tag** ~ Create, list, delete or verify a tag object signed with GPG.
  e.g: `git tag --annotate` *to create, list, delete or verify a tag object signed with GPG.*
- **git tar-tree** ~ Show the contents of a tree object as a tar archive.
  e.g: `git tar-tree` *to show the contents of a tree object as a tar archive.*
- **git unpack-file** ~ Unpack a packed archive.
  e.g: `git unpack-file` *to unpack a packed archive.*

- **git unpack-objects** ~ Unpack objects from a packed archive.
  e.g: `git unpack-objects` *to unpack objects from a packed archive.*
- **git update-index** ~ Register file contents in the working tree to the index.
  e.g: `git update-index` *to register file contents in the working tree to the index.*
- **git update-ref** ~ Update the object name stored in a ref safely.
  e.g: `git update-ref` *to update the object name stored in a ref safely.*
- **git update-server-info** ~ Update auxiliary info file to help dumb servers.
  e.g: `git update-server-info` *to update auxiliary info file to help dumb servers.*
- **git upload-archive** ~ Send archive back to git-upload-archive on the other end.
  e.g: `git upload-archive` *to send archive back to git-upload-archive on the other end.*
- **git upload-pack** ~ Send objects packed back to git-upload-pack on the other end.
  e.g: `git upload-pack` *to send objects packed back to git-upload-pack on the other end.*
- **git var** ~ Show a Git logical variable.
  e.g: `git var` *to show a Git logical variable.*
- **git verify-commit** ~ Check the GPG signature of commits.
  e.g: `git verify-commit` *to check the GPG signature of commits.*
- **git verify-pack** ~ Check the GPG signature of packed objects.
  e.g: `git verify-pack` *to check the GPG signature of packed objects.*
- **git verify-tag** ~ Check the GPG signature of tags.
  e.g: `git verify-tag` *to check the GPG signature of tags.*
- **git web--browse** ~ Show a file or directory from a web browser.
  e.g: `git web--browse` *to show a file or directory from a web browser.*
- **git whatchanged** ~ Show logs with difference each commit introduces.
  e.g: `git whatchanged` *to show logs with difference each commit introduces.*
- **git write-tree** ~ Create a tree object from the current index.
  e.g: `git write-tree` *to create a tree object from the current index.*
- **git zcat-file** ~ Show the contents of a file from a blob object.
  e.g: `git zcat-file` *to show the contents of a file from a blob object.*

- **git zip-archive** ~ Create a zip archive of files from a named tree.
  e.g: `git zip-archive` *to create a zip archive of files from a named tree.*
- **git zstd** ~ Compress or decompress files using zstd.
  e.g: `git zstd` *to compress or decompress files using zstd.*

References:

1. Git
2. *Linux Man*
3. **Official Git Pro** *ebook*. *Chacon,S and Straub, B. (2022).*

Text-Editor: VISUAL STUDIO CODE