

→ checking difference b/w staged file & PWD and last Commit & Staged file :-

Let's you are working on a project and you have modified some files and you check Status then it shows you have

modified those files.

Now if you write `cmd 'git diff'`

It will show difference b/w staged file & present working file.

If you have added file to staged area & then modified it and then check difference you will see difference b/w them as that modified file & lines you have modified.

If you want to check difference b/w last commit & staged file, you have to write

`git diff -- staged`

It will show edited files with edited lines.

→ Skipping staging area:-

In a workflow to commit a file we have modified we have to first add them to staging area & then ~~make~~ have to make commit on it.

But if you want to commit directly by skipping staging area for a modified file

you have to write command

`git commit -a -m "message"`

but also note that you can skip staging area for modified files / folders only if you

have a new new untracked file then to commit it you have to add it to staging area then commit it, you can't directly commit an untracked file.

→ Removing any file/folder from git directory :-

If you want to remove file/folder from git directory you can delete it manually from git directory and you are good to go, but there is special command for it

`git rm file name`

We generally use this command as if you manually delete a file then you have to add it & then commit it

but if you do it by command it by default add it to staging area, so you don't need to bother it.

→ Renaming any file ~~from~~ in git directory! -

If you want to rename file in git directory you can manually rename it then add it to staging area then make commit.

but you can do it by command too.

`git mv file name new file name`

Using command make it easier ~~to~~ as it by default add new file in staging area.

Sometimes if you want to ignore a file and add that file to .gitignore, git then also track that file if you want to untrack that file just remove that file using rm Command.

`git rm --cached file name`
This Command also used to unstage a file.

→ Viewing & changing Commit by log Command:-

If you are working on a project with lots of contributors you needed log Command/ log related Commands to view Commits and their details.

- git log

This command tells up commits made on this project with ~~same~~ identity of editor & time. Also message with commit.

- `git log -p`

This command shows what code has been removed & added in this that particular commit.

So, basically it is used to see differences.

- `git log -p -n`

In this code `n` is an integer like 2, 3, 10 etc.

If you write `git log -p -3` it only shows 3 commits with differences.

- `git log --stat`

This command gives ~~short~~ short view on what happened in this commit.

i.e.

which file has been edited with how many lines has been edited.

- `git log --pretty=oneline`

each

This command shows ^ commits in one line. so that it is easier to move through each commit search for any specific commit.

- `git log --pretty=short`

each

This command shows ^ commits in short form.

Containing author name & message.

- `git log --pretty=full`

This show each commit in full form.

Containing author & committer name with message.

- `git log --since=2.days`

This command filter commits in blue two days.

- `git log --since=2.months`

This command filter commits in 2 months.

If you want to view log details in custom format you have to use

```
git log --pretty=format:"format  
code"
```

To know which format code you want visit

Git SCM website and you get different types of format codes like

```
git log --pretty=format:"%h --  
%.an"
```

This will show commits in form such that first it show hash value then -- then author name for all commits.

~~use~~ you can use different ~~open~~ format Coords which you want

%h → abbreviated hash of Commit

%an → author's name

%ae → author's email

etc.

There is another command

git commit --amend

which ~~then~~ used to amend/append in ~~older~~ older commit.

lets you have edited some files in your Coad and you don't want to commit it again but to merge it in last commit with new

It can also be used to change (commit messages of previous commit. (amend))

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message you first add that new edit in staging area then write

`git commit --amend`

this will open vim editor, to start writing in vim editor

type 'i' you can inter/write in vim editor

to exit from vim editor you have to type

`:wq` in terminal of vim.

To go back ~~to~~ ~~insert~~ to terminal from insert press escape button.