**GITQ--> quit (Git)**

**git diff: compares the working directory(red Marked) with staging area(green Marked in "git status")**.

**git diff --staged: compares last commit with staging area**

**/\***

**git commit -a -m "**Direct commit**" :  directly committed i.e. skipped staging area(won't work on untracked file)**

**\*/**

**git log -p : shows the changes made(in a committed file/ finalized file.)**

**git log -p -3:Number shows that number of diff/commit (here in this case it's 3).**

**git log --stat: shows all commits summary with author and date and its changes.**

**git log --pretty=oneline : All  the commits we get in one liners**

**git log --pretty=short : shows commit id, author & commit message.**

**git log --pretty=full & more…**

**author : give birth to file**

**committer : make changes in the file**

**git log --since=2.days/weeks/months/years ...**

**git log --pretty=format:"%h -- %an"**

**#git scm(Source Code Management) useful options for git log format :**

**git log & git log -p -2 → generally used**

**git commit --amend : convenient way to modify the most recent commit (generally edit the previous commit message without changing the snapshot).**

**vim editor opens => press "i" to insert => then "esc" => ":wq" => enter  --------> (Changes modifies that you want in last commit)**

**git remote: website or repository on web.**

**/\***

**git restore this.txt: discard all of the previous changes(be careful, risky command).**

**\*/**

**Merge conflict: We merge a branch and git wasn't able to merge it.**

**<<<<<<< ,  >>>>>>> :Conflict resolution Markers**

**/\***

**git add this.html**

**git commit -----> (Vim editor opens merge then finally done)**

**\*/**

**git branch -v : additionally give the last commit's hash & commit message of all branches.**

**git branch --merged**

**git branch --no-merged**

**Delete Branches**

**git branch -d branchname: gives error if branch is not merged**

**use "-D" to delete anyway the branch without merging.**

**# Branches dont get published, we have to explicitly do that.**

**#git checkout --filename : to revert the changes made to a specific file.**

**#git revert command is only for reverting a commit to a previous commit.**