



# GitHub Commands & Actions Visit --> Upcoming pages

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### BASIC COMMANDS

- 1. git init (to initialize a git repo)
- git status (tells you current status of git repo)
- git add filename.py | git add . (move work to staging area)
- 4. git commit -m "commit message"
- Create a .gitignore file and add files/folders that doesn't need tracking.

### **SEEING COMMITS**

- 1. git log (see details for all the commits)
- 2. git log --oneline (1 liner details for all commits)
- 3. git log --stat (details of changes on commit level)
- 4. git log -p (see code changes on commit level)
- git show <6 digit sha id> (see changes on specific commit)
- git diff (changes made within staging area before commit)

### BRANCHING AND MERGING

- 1. git branch <name> <sha id>(creates a new branch)
- 2. git branch (lists all branches)
- 3. git checkout <branch> (switch to another branch)
- git log --oneline --all (see commits of all branches)
  - 5 git log --oneline --all --graph (graph of commits from all branches)
- 6. git branch -d/-D <branch> (deletes a branch)
- 7. git merge <branch> (run from master/main)

### WORKING WITH REMOTE REPO

- 1. git remote add origin <url> (declaring remote repo)
- 2. git push origin master/main (sends local repo to origin)
- 3. git pull origin master (pull code from remote repo)
- 4. git clone <url> (download/copy remote repo)

## UNDERSTANDING SOFTWARE VERSIONS -> V.1.0.0

1. git tag -a v1.0.0 <sha(optional)>

Vim editor:

Fn+insert - write a message

:wq - save and quit

- 2. git log (check if tagging was done successfully)
- 3. git tag -d v1.0.0 (delete the mentioned tag)

shit is a ucs/scm i.e., version control system & Source Lode manager respectively - Download from git- Sem, com. in the state of the -> 70 open Us code from your local pe washingene So. Leften right click to open bon, then either sched us code on come to and I bash and and when "code." to gren it in us code. workspace is At this stage git has no access to work. So, in initial stage, as no git is involved so Olp => not a git repo. Jup => git init O/p >> Initial Ted empty of trops This step is done to analla git to access and Supervise the work Ip of git states O/p = s on brench masker. S ZIPS git add. untraced tily (x. ps. y.ps , etc) are works of the to make the and all untraced hiles to staging phase

olp => NO commits yets (so, now we are ready to Commit all the changes twenty to a local repo as workspace is now empty and all Files are in stuging Phase ready to be committed locally in our bys tom. My & git lommit -m "Eng done".

This message is werten as in fetture, our work may fail Contigue Snowthere, so this commit were and again that work and Entrant history to never there to track

Now, if we change any tike like add as modify code in tile X. Py. So again a git add tint py "or word git add. " if multiple files are modified or add. Now Commit again. Now if we want to noll back to original work in our worrspace as if we have made change unknowingly then "git gestare -- staged x.py" - It will dylard etranger

\* whenever "U" signibal in front of tilly in lighton

of VS wide it shakes that there are untracedor -s gl me have some detaily which me not want to push in public nego or not want git to trash it, so, make gitignare site and add pures of the such as deleteretet an ete in which some uselins / sensitive into in stored and add & Gommit git grove st. - git assigny a unique id called as "Ha-id" to each commit and using this id, we can more back to any commit l version of works ) = git checkent "sharid" - s to soll back at vorsion - 1 git Checkout mouster s to argain come bruk to main/muster 6 ran as merging helper 1 1 3 ] Skart Januard ) s complex