

learning github to upload projects

[Github] Tutorial (code with Barry)

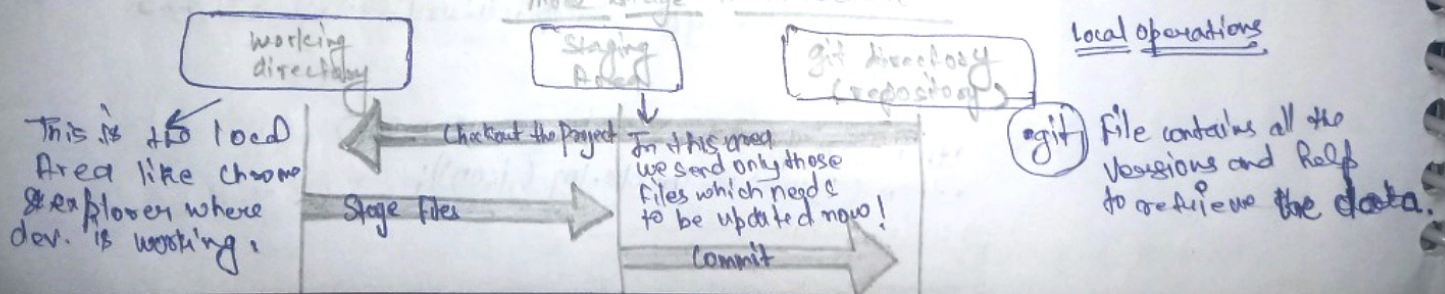
Git is a version control system (Distributed).

- ① It easily recovers files
- ② who introduced an issue and why?
- ③ Rollback to previously working state.

History:

- Local VCS → keep tracks in local system (Harddisk)
- Centralised VCS → keep tracks in Server.
- Distributed VCS → can mirror complete repository. (have complete backup in all systems)

Three Stage Architecture



→ Set your identity

✓ \$ git config --global user.name " " → set your username
✓ \$ git config --global user.email " " → set your email.

→ Command to initialise repository :-

\$ git init. (You need to select the path where your project is to start initialisation)

→ Command to check the status :-

\$ git status

→ Command to send files into staging area :-

\$ git add --a (This will send all files into staging area)

→ Command to make a snapshot

\$ git commit -m "Message".

→ command to check all the commits :-

\$ git log

→ Command to add particular file in staging area.

\$ git add file name.

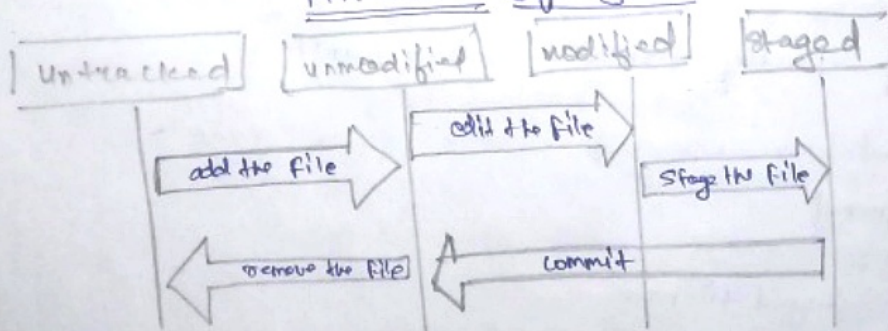
→ To delete complete git repository use :-

\$ rm -rf .git

→ Command to clone git repository :-

\$ git clone url, "New name" (if wanted)

File status life cycle :-



→ Command to make git ignore file

\$ touch gitignore → whatever file you will add in this

→ blank folders are ignored by default will get ignore by git and remain untracked.

→ command to ignore particular

extension file

write dir/file ext. name.

(inside git ignore)

→ command to ignore dir

dir/ write inside git ignore.

→ Command to compare working area and staging area

\$ git diff

→ Command to compare commits of staging area. (old & new)

\$ git diff --staged

→ Command to skip staging area

\$ git commit -a -m "Message".

→ Command to delete a file:

\$ git rm filename.extension.

→ Command to rename a file:

\$ git mv oldfile name New file name.

→ Command to untrack a file

\$ git rm --cached File name.

→ Command to view commits with changes:-

\$ git log -p

→ Command to view commits in short and brief

\$ git log --stat

→ Command to view all the commits in one line

\$ git log --pretty = oneline

in short view ⇒ \$ git log --pretty = short

to view author ⇒ \$ git log --pretty = full

→ Command to view commits of particular time/day/week/year

\$ git log --since = quantity, day/week/year etc.

→ Commands to view hash along with author name:-

\$ git log --pretty = format: "%h -- %an"

abbreviated
hash

author
name

→ Command to amend previous commit

\$ git commit --amend

→ Command to unstage any file.

\$ git restore --staged filename.

→ Command to match the previous commit and undo recent changes,

\$ git checkout -- filename.

→ Command to undo all the changes and match previous commit

\$ git checkout -f.

→ Command to add files on github

\$ git push -u origin master.

- Command to set remote repository and origin
\$ git remote add origin git@github.com:Username/repository.git.
- Command to set remote repository url after setting ssh keys
\$ git remote set-url origin git@github.com:Username/repository.git.
- Command to set the alias for the git commands
\$ git config --global alias.st status
- Command to restore changes in the current working directory
\$ git restore <filename> alias name ↓ command to be aliased.
- Command to create new branch
\$ git checkout -b branchname.
- Command to get back to the main branch
\$ git checkout master.
- Command to view all the branches
\$ git branch
- Command to switch between branches
\$ git checkout branchname
- Command to merge develop branch into main branch
\$ git merge branchname (but switch to main branch before)
- Command to show branches with all last commits
\$ git branch -v
- Command to view all merged branches & non merged branches
\$ git branch --merged
\$ git branch --no-merged
- Command to delete branch
\$ git branch -d develop (It will give error message if the branch is unmerged)
-D / It will not give error message even if it is unmerged.
- Command to make branch on profile (Github)
\$ git push origin bugfix → branchname
- Command to delete branch from profile (Github)
\$ git push -d origin branchname