

IT and GITHUB

- Git → Version - Control System
 - history of file - versions

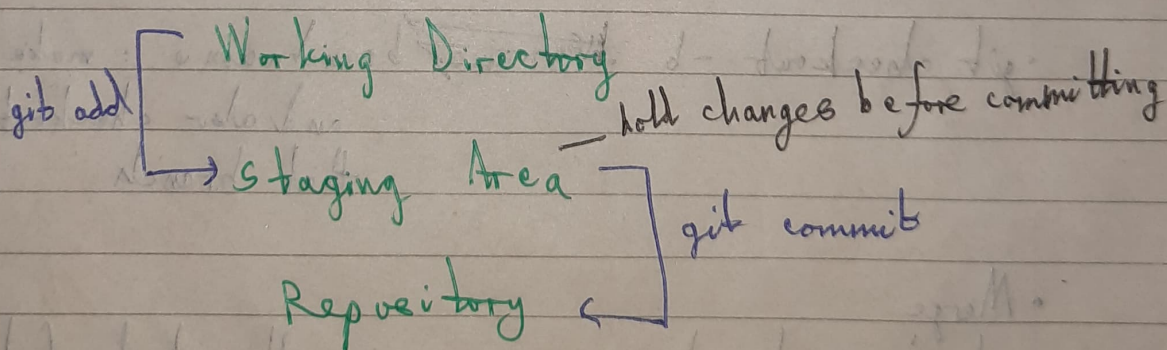
git -- version

- Repository

- git init → make empty repo
 - ls -a : .git file might be visible (which shows which files are tracked by git)
 - make no changes

Commands -

- git status : changes in given repo
- git add Filename : to track file (move file to staging area)



- git commit -m "Message of commit" : commit
- git log : log of commits
 - show position of head
 - each commit will have a hash code
- git add . : all modified/newly created files in staging area

②

also need to travel to different branches / switch

• git checkout ~~commit~~ hash code / branch name

go to prev version

• git branch : ~~head goes to specific branch~~ list no. of branches

Initially we start with master branch and make multiple branches

log, ... will be specific to a branch

Master branch

other branches derived from master branch

- branches not interconnected / related / affected
- make multiple branches from a branch tree-like structure

• git branch branchname : make branch

• git checkout -b ~~branchname~~ branchname : make branch and also checkout to that branch

• Merge

git merge branchname : merge all contents of derived branch in original branch

• note → this command is to be run from the original branch

• Git Ignore → not put a file in Git Ecosystem

• touch .gitignore
• .gitignore } and put filenames to be ignored from Git Ecosystem in .gitignore file

can also put .gitignore file inside .gitignore file and git will not track .gitignore file also

GITHUB -

• If we want to push a local Repo to Github for 1st Time -

from Github we get link
git remote add origin

(origin is convention) can give any name here which will correspond here

first time push local repo to Github we get origin for fetch/push

git branch -M master

git push -u origin master

To Push

- git add Filename or git add .
- git commit -m "Comment"
- git push

To Push the branch

- git checkout der
- git push -u origin der

Fork

- get a copy of repo in your github

Clone

- git clone repo url ← copied from github

- git config --global --edit

: displays account info

: can also be used to change account by changing information

- ~~vim~~ file name : I to go to insert mode

D or o changes

Esc → colon → w → ↓
To exit

After Fork Changes -

Pull request → to tell original repo owner to merge changes made by us

Contribute → then → Open pull request
→ then → Create pull request

Original Rep Owner Pull Request -

- Received Pull request
Go to File changes

Review changes → approve → and then
merge pull request