

GIT Concepts

Ability to work with basic git flows.

Ability to rebase and resolve merge conflicts,

Ability to work on any review comments.

Follow commit message hygiene and consistency.

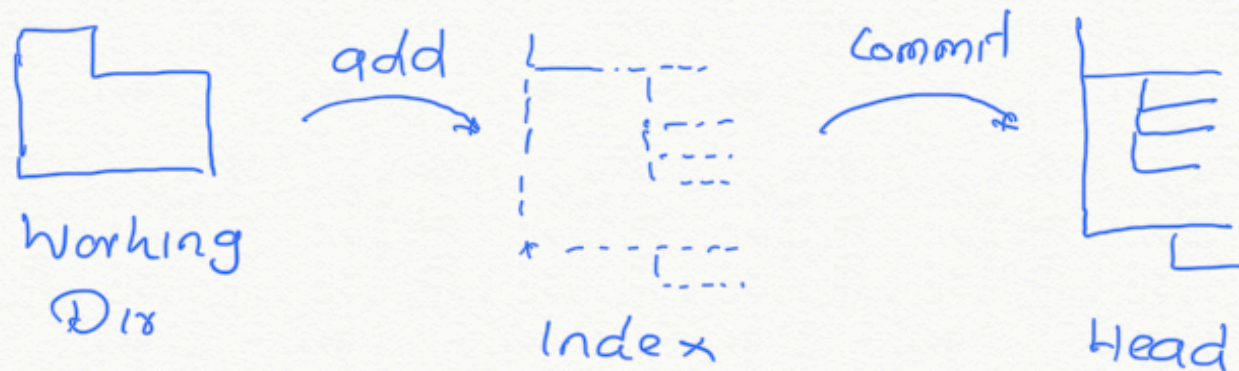
GIT Add Repository

Step 1 : Add Repository

A!) Create New Repo
git init

B!) Checkout a Repo
git clone path.

Th:1 : Local Repo Consists 3 Trees



GIT Add, Commit & Push Changes

Step 2 : Add & Commit

A:) `git add <FN>` or `git add *`

B:) `git commit -m "Commit Message"`



File is committed to head but not yet in REMOTE Repo

Step 3 : Pushing Changes

A:) `git push origin master`
⇓
or any Branch

B:) Add new Remote server & Push

a) `git remote add origin <server>`

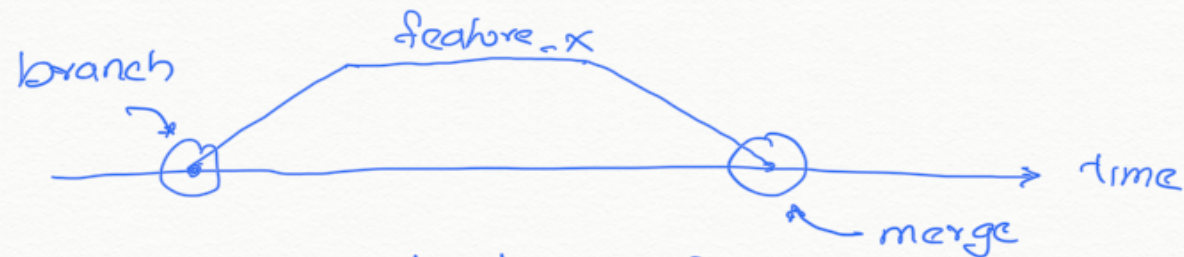
b) `git Push`

GIT Branching

Th2 : Branching

- Used to Develop Features & merge with master branch which is default on Completion

Step 4 : Branch



A!) git checkout -b feature-x

B!) git checkout master

C!) git branch -d feature-x

D!) git push origin <branch>

GIT Update and Merge

Step 5 : Update & merge

A!) `git pull` \Rightarrow in Wslly Dr to fetch & merge remote changes

B!) `git merge <branch>` \Rightarrow To merge another branch into your active branch

\Downarrow

Will show conflicts, in that case resolve & `git add`

C!) `git diff <source branch> <target branch>`
 \hookrightarrow preview the conflicts.

Th 3 \Rightarrow Tagging & Logging.. `git stash`,
`git ignore`..

GIT Scenarios and Workflows

- 1!) Create a new Repo or clone
- 2!) Add a new File
- 3!) Commit the Changes
- 4!) Push it to remote
- 5:) Change the File in remote
- 6!) Merge with local

GIT Scenarios and Workflows

- 7:) Change the File in local & remote
Create Conflict & Resolve
- 8:) Create Branch
- 9:) Change the File in Remote in master branch
- 10:) Change the file in branch,
Check the diff & merge the change
in the branch

GIT References

- [git - the simple guide.pdf](#)
- [Learn Git by Atlassian](#)