GIT Concepts

Ability to work with basic git flows.

Ability to rebase and resolve merge conflicts,

Ability to work on any review comments.

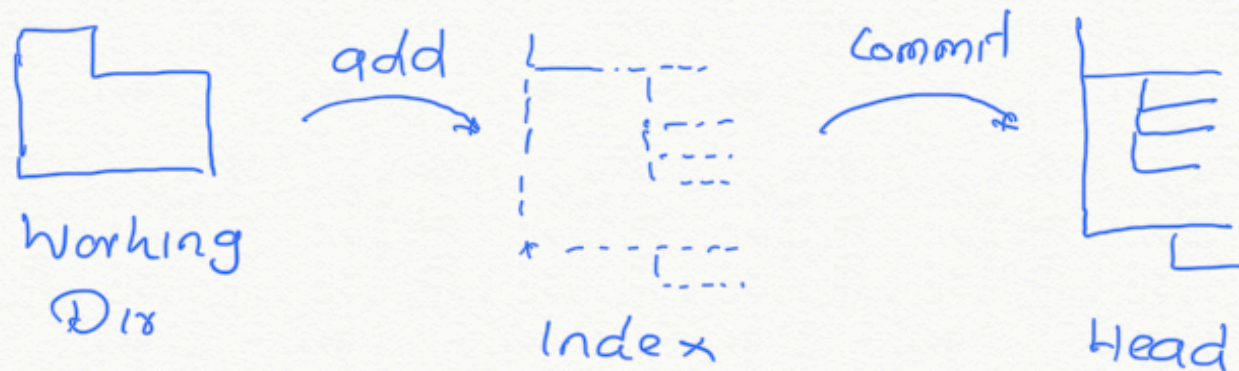Follow commit message hygiene and consistency.

GIT Add Repository

Step 1 : Add Repository

A:) Create New Repo

git init

B:) Checkout a Repo

git clone path.

Th:I : Local Repo Consists 3 Trees

Working Dir   add   Index   Commit   Head

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

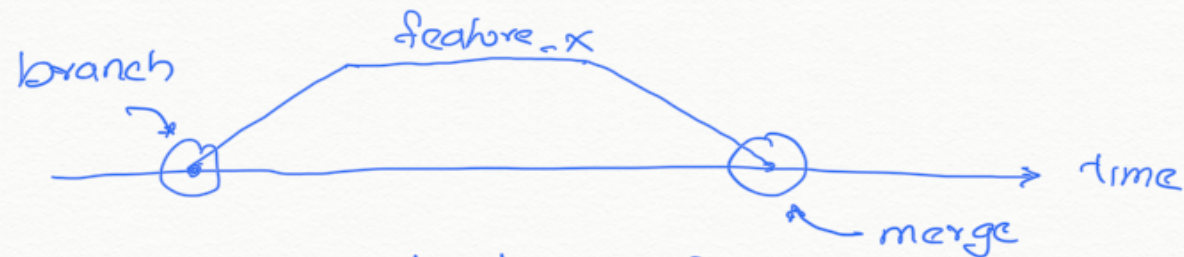B:) Add new Remote Server & Push

a:) git remote add origin <Server>

b:) git Push

GIT Braching

Th2 : Branching

 - Used to Develop Features & merge
   with __master__ branch which is __default__
   on <u>Complehon</u>

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 poll ⇒ in Working Dir to fetch & merge remote changes

B!) git merge <<branch>> ⇒ To merge another branch into your active branch

⇓

Will show Conflicts. In that case resolve & git add

C!) git diff <source branch> <target branch>

↳ preview the conflicts.

Th 3 ⇒ 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.) Posh 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