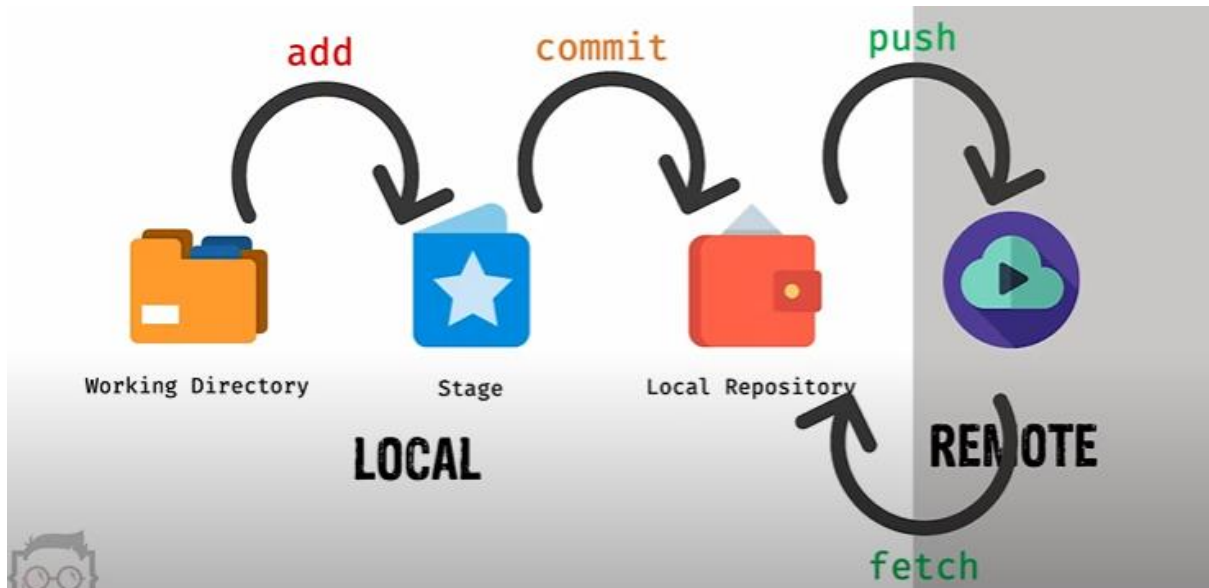
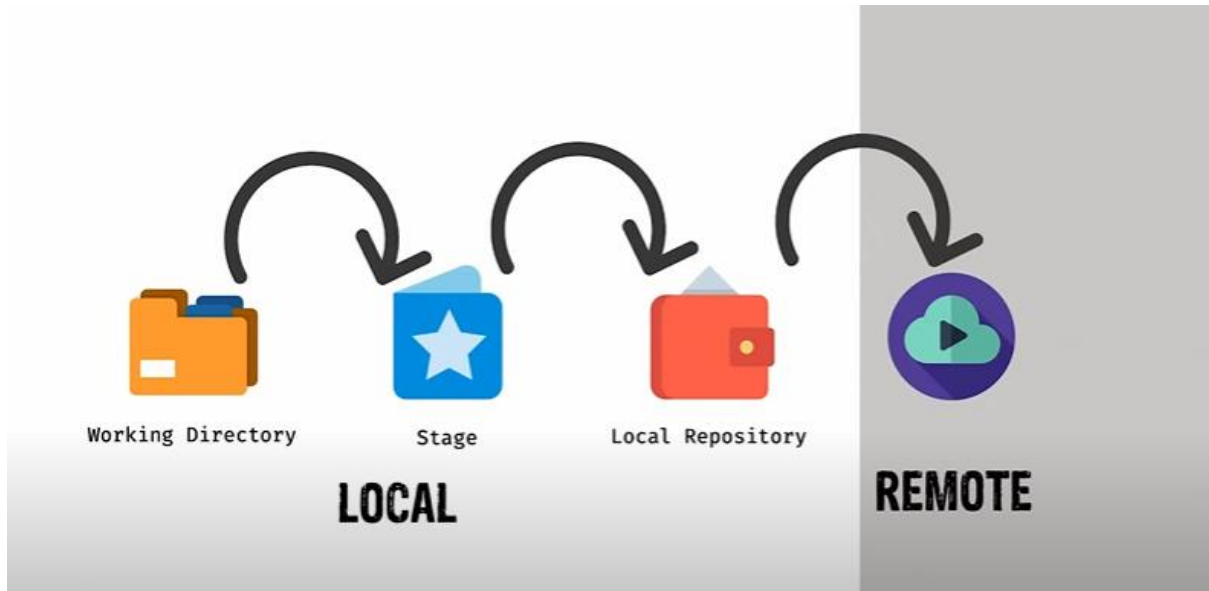


Creator of git - Linus Torvalds

Basic Concept of Git

Working Directory -> Stage -> Local Repository -> Remote



Add -> Send the changes to the stage

Commit -> Finally determine to commit the changes from the stage

Push -> Send the changes of local repository to the remote repository in (GitHub)

Fetch -> Fetch the changes of remote repository (GitHub) to the local repository but file not reflect to the working directory

Pull -> (**Fetch + Merge**) -> Update the changes and reflect the file

Git Basic Command

1. **git init** - initialized an empty git repository and a local repository
2. **git clone URL** (<https://github.com/jabed15578/gitone.git>) - clone a repository from remote / cloud (GitHub) by using URL
3. **git status** - show the what changes in git folder
4. **git add -all/-A** - add all file to the stage from all folder
5. **git reset** - restore to Unstage / reset the stage / Unstaged changes after reset
6. **git add . (Recommended to use all time)** - add all file to the stage from only the current working folder or present working folder
7. **git add *** - add all file to the stage without a deleted file (if one file was deleted than it will not to the stage by this command but all other file will be staged)
8. **git add filename.extension** - add an individual file to the stage
9. **git add *.extension** - add all file to the stage with this extension in current working directory
10. **git commit -m "message"** - commit file finally with a message from the stage
11. **git reset HEAD~ (work after commit)** - Reset all track and return to working directory (this command work after committed else not)
12. **git reset --hard (work if remove a file manually and want to return back)** - return the changes also return the remove file hardly
13. **git rm filename** - Remove a file and send the changes to the stage
14. **git rm filename -f** - Remove a file with forcedly if it not wants to be deleted (Occur if there have any change in file)
15. **git rm --cached filename** - send the change to the stage but not remove the file on the other hand **git rm filename -f** send the change to the stage also remove the file from the repository
16. **git rm folder-name** - remove a folder from a repository
17. **git rm -r folder name** - remove all folder recursively that means remove folder/folder/folder.....

Branching With Git

18. **git branch** - to know how many branches we have in our repository / application
19. **git branch branch-name** (Ex- **git branch development**) - create a new branch in our repository
20. **git checkout branch-name** (Ex- **git checkout development**) - switch into branch (must be committed before switch to another branch)
21. **git merge branch-name -m "message"** (Ex1- **git merge master -m "merging on development branch with master branch"**) (Ex2- **git merge development -m "merging on master branch with development branch"**)- merge with one branch to another branch in a project

Git Push, Fetch and Pull

1. **git push origin branch-name** (Ex1- **git push origin master**) (Ex2- **git push origin development**) (Ex3- **git push origin staging**)- push a branch with all changes to the remote repository (GitHub)
2. **git fetch** - get the changes of remote repository to the local repository (but not update or impact file in working directory)
3. **git merge** - update or impact file of local directory after **git fetch**
4. **git pull** - (**git fetch** + **get merge**) - get changes of remote repository and also update the changes of file in working directory