

Git / Github.

Page No.

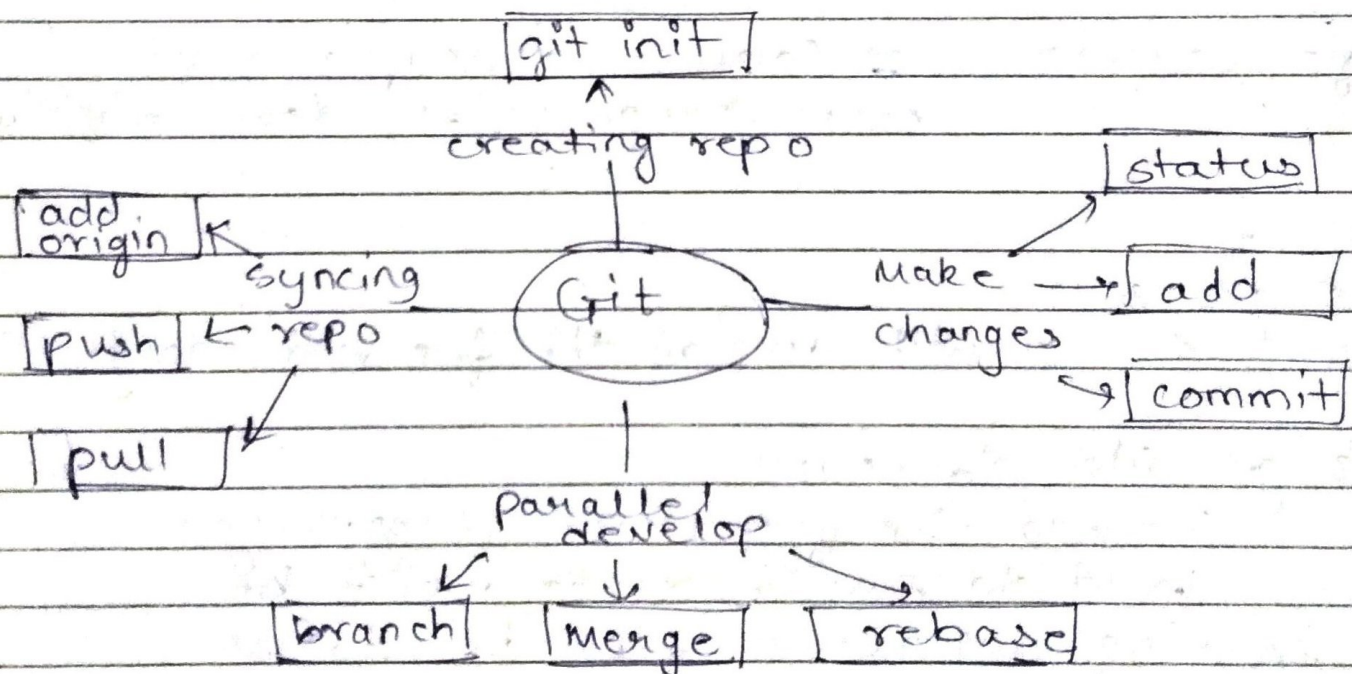
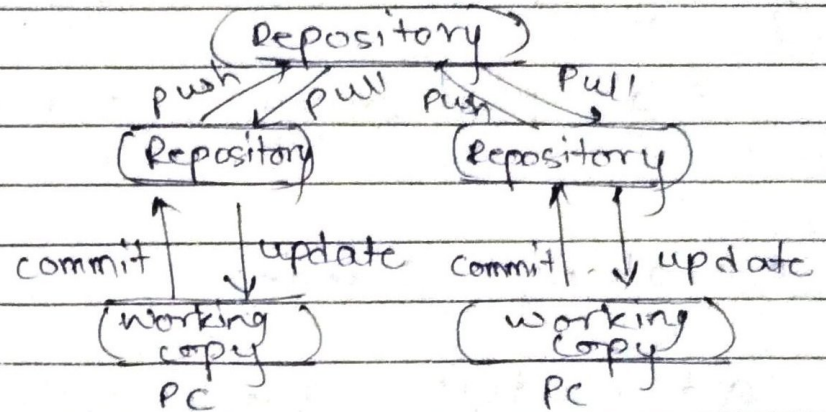
Date: / /

* Version control is the management of changes to documents, comp programs, large website etc.

* These changes are usually termed as "versions".

Features of Git

- Distributed
- Compatible
- Non-linear
- Branching
- Light weight
- speed
- Open source
- Reliable, Secure & Economic



- git init
create your local repo. [for new proj]
- git clone
Download or clone repo from github [for ongoing proj]

• Syncing Repos .

git add origin <link> to add remote repo

pull files with 'git pull'

push yr changes into central repo with 'git push'

eg \$ git remote add origin "https://github.com:username/repository.git"

\$ git pull origin master

• Making changes .

git status → files which are ready to commit

git add → Add files to your index (let you add it)

git commit → committed snapshots will never change unless does explicitly

eg:-

\$ git status

<-- it will display the file with changes-->

\$ git add <filename>

<-- add the file whose changes you want to save & now it won't be

showing untracked files in status

rather it will say changes to be committed

\$ git commit -m "added 1st commit"

<-- '-m' is message that will be visible to others as well -->

\$ git add -A

-- to add all the files which has to be staged i.e unchecked files -->

\$ git commit -a -m "adding 3 files together"

\$ git log

-- shows SHA key, Author, Date, message -->

• Parallel / Non-linear Development

Branches of 2 types

- Local branches (present in local repo)
- Remote-tracking (link local to central branches repo)

\$ git branch fbranch

\$ git checkout fbranch

-- Switched to fbranch -->

-- main branch is master -->

• Merging (combine the work of diff branches)

\$ git checkout master

-- present in the branch which is destination of merge -->

\$ git merge fbranch

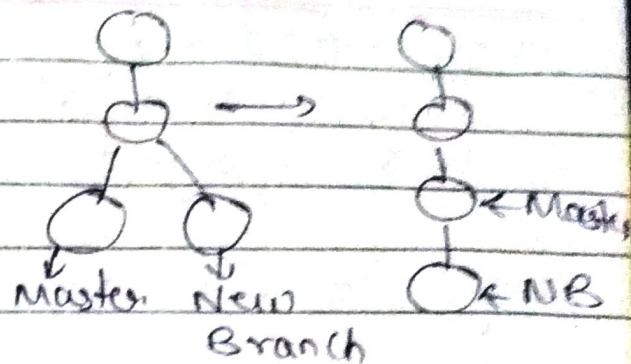
• Rebasing (also a way of combining b/w diff branches)

It can be used to make a linear sequence of commits

\$ git checkout master

\$ git rebase fbranch

1-- All the work of fbranch is available with master -->



\$ git push origin master

1-- to push the data in master branch -->

\$ git push origin fbranch 1-- to push in diff branch, it will create fbranch -->

\$ git checkout <SHA key's 1st 8 keys> <filename>

to go back to previous versⁿ

eg \$ git checkout 802d31b4 revert.txt