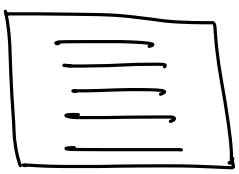
Agenda.

→ Intro to VCS (Version Control System)

→ Types of VCS

→ GIT.

Version Control System.

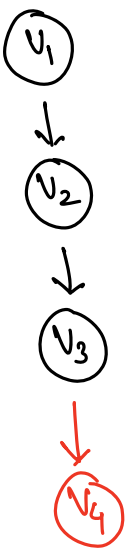


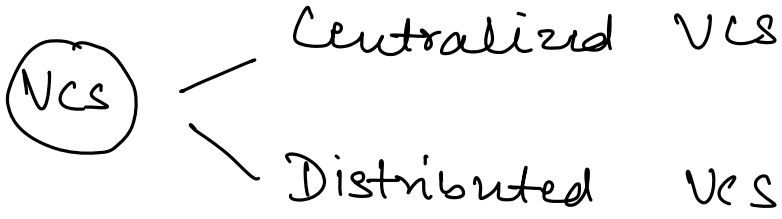
Amazon

→ VCS helps us to maintain different versions of our codebase.

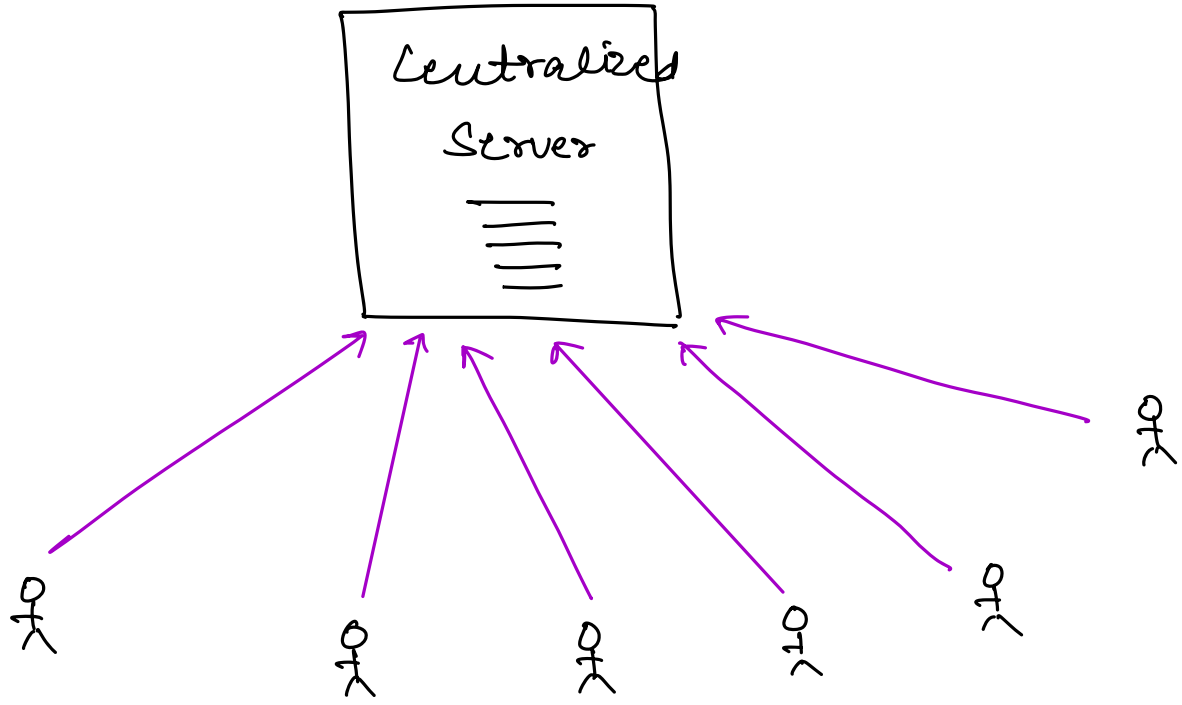
→ VCS helps to revert code changes faster in case of any issue.

→ Allows multiple developers to work on the codebase independently.





Centralized VCS



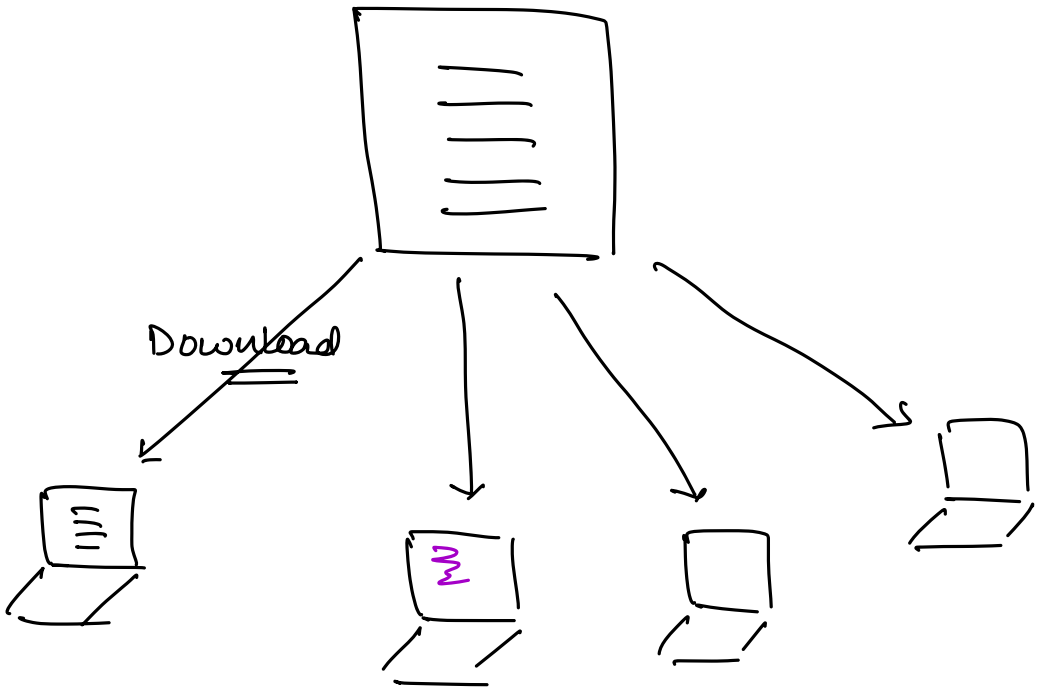
→ Network connection is required.

→ Slow

→ SPOF : Single Point of failure.

→ Ex: SVN, Perforce, ...

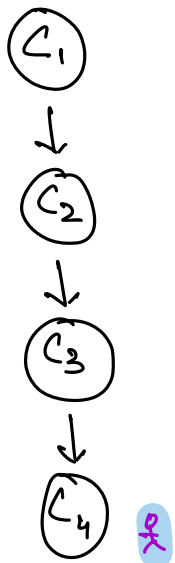
Distributed VCS.



⇒ GIT. ⇒ Linus Torvalds.

↳ Distributed VCS.

↳ Maintains the code history in the form of Commits.

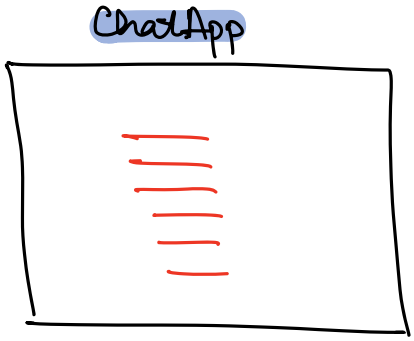


⇒ Each git commit stores the delta over the previous git commit.

⇒ Git commit is Immutable.

Working on GIT.

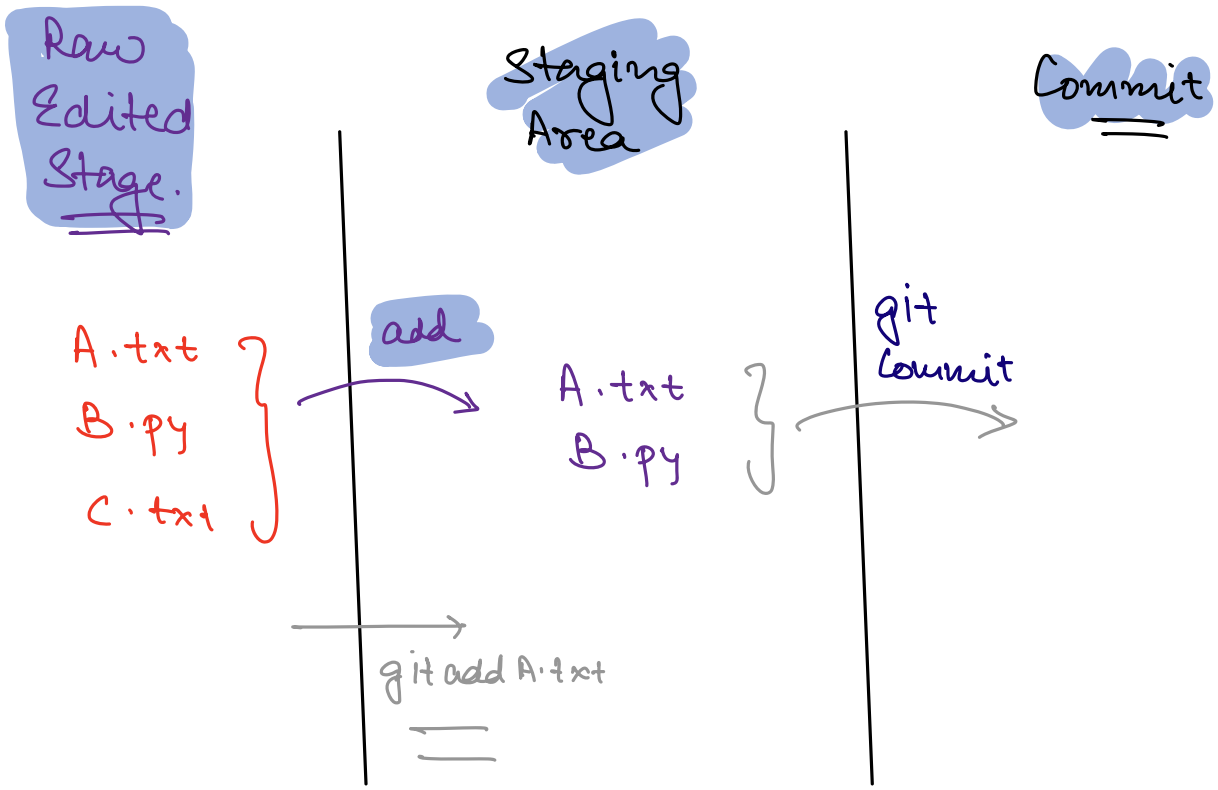
- Create a new project
- Work on existing git project by downloading into local.



⇒ Download git.

→ git init

↳ initialize



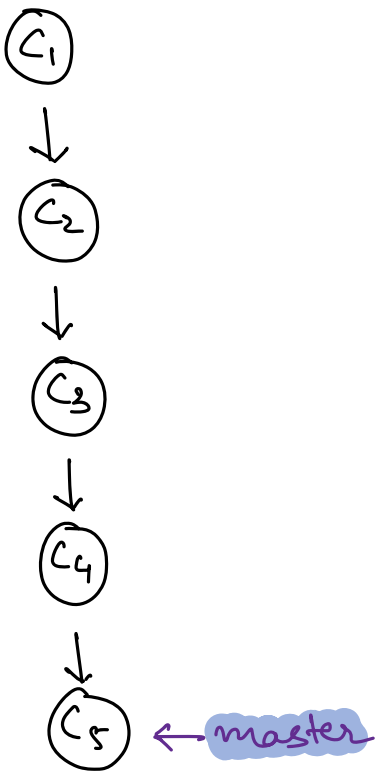
→ git add ——

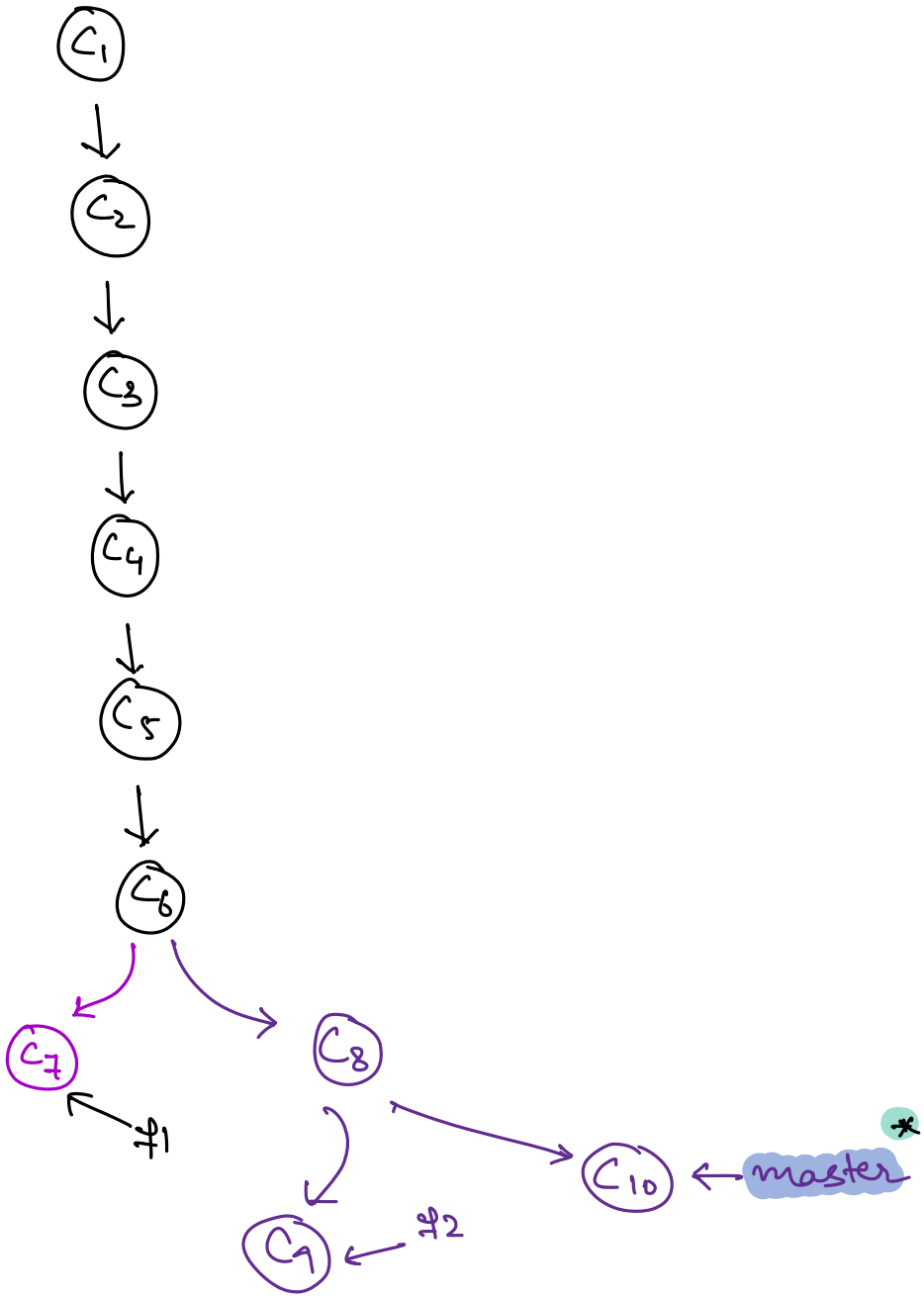
→ git commit -m " —————— "

Branching

main | master

↳ Production codebase.





1) git branch #1
2) git checkout #1

⇒ git checkout -b #1