

Git &GitHub by Girish Godbole





- ➤ Version Control What & Why?
- ➤ Version Control Tools
- ➤ GitHub & Git
- ➤ Case Study: Dominion Enterprises
- ➤ Git Features
- ➤ Git Operations & Commands



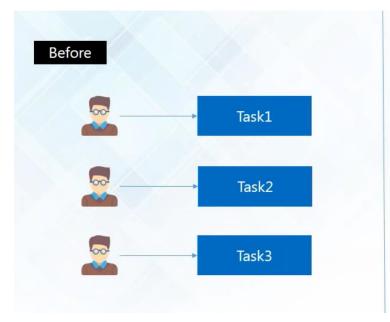


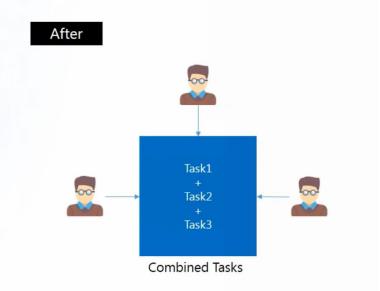


Version control is the management of changes to documents, computer programs, large web sites, and other collections of information.

These changes are usually termed as "versions".



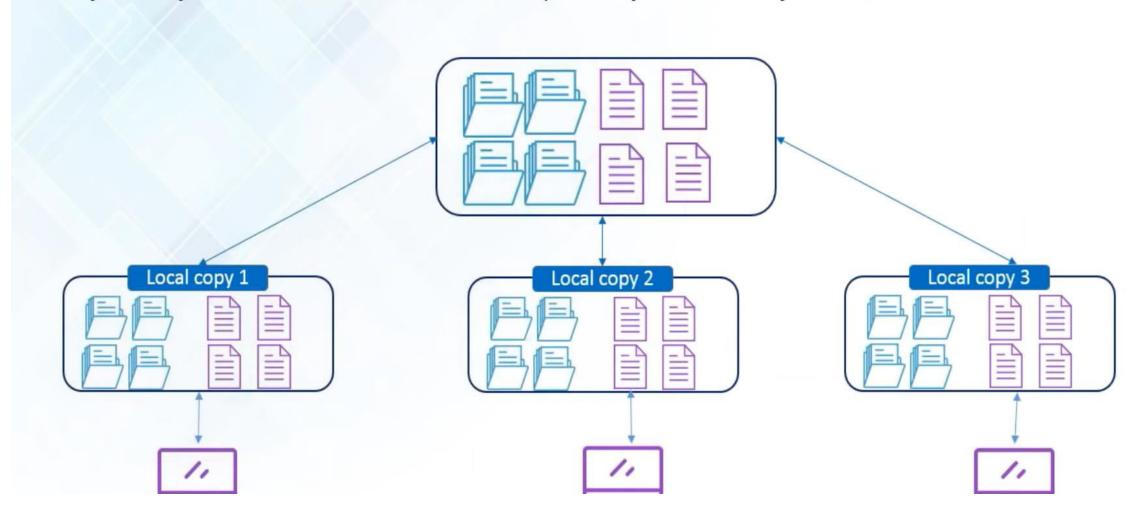




- > Snapshots of all versions are properly documented and stored.
- Versions are also named accurately.



In any case if your central server crashes, a backup is always available in your local servers.



When you change version -

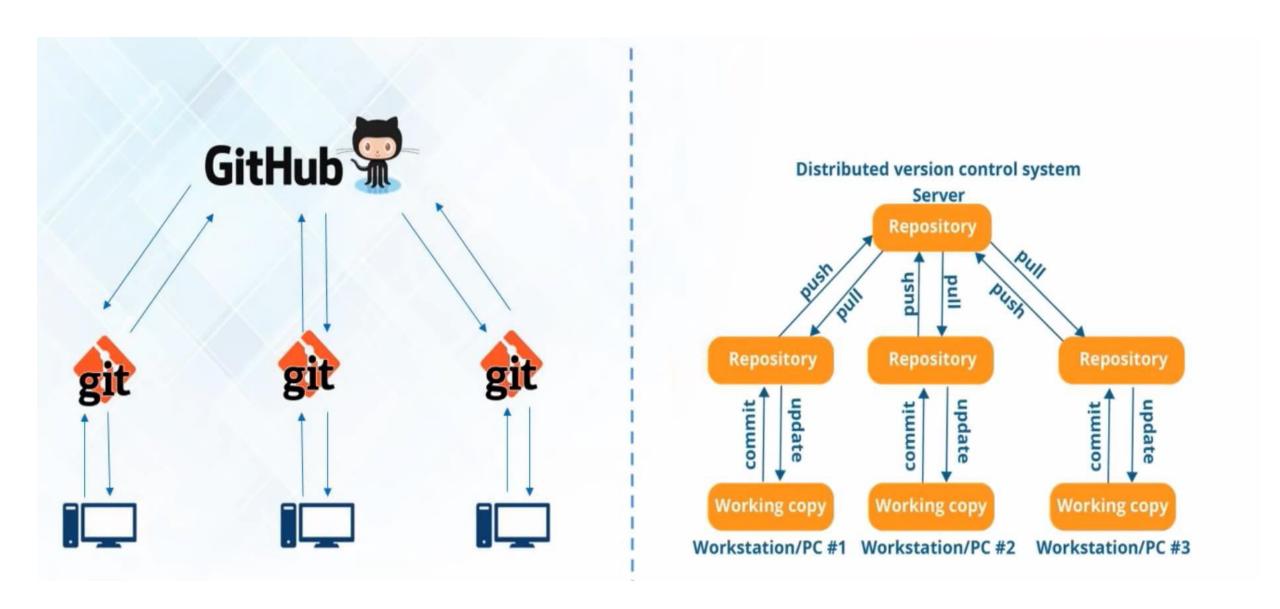
- VCS provides you with proper description
- What exactly was changed
- When it was changed

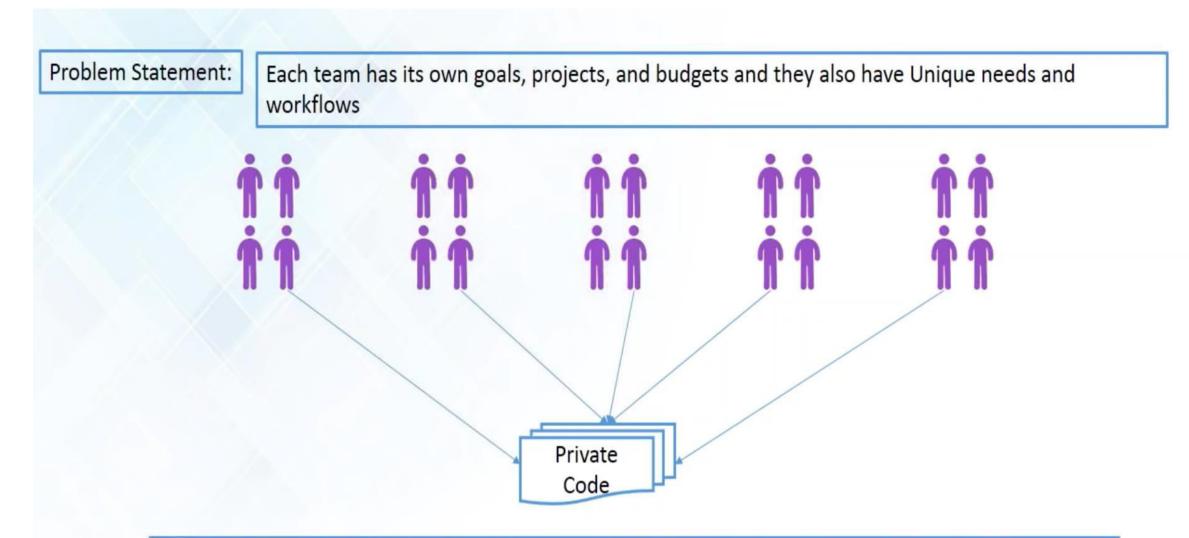
And hence, you can analyze how your project evolved between versions.







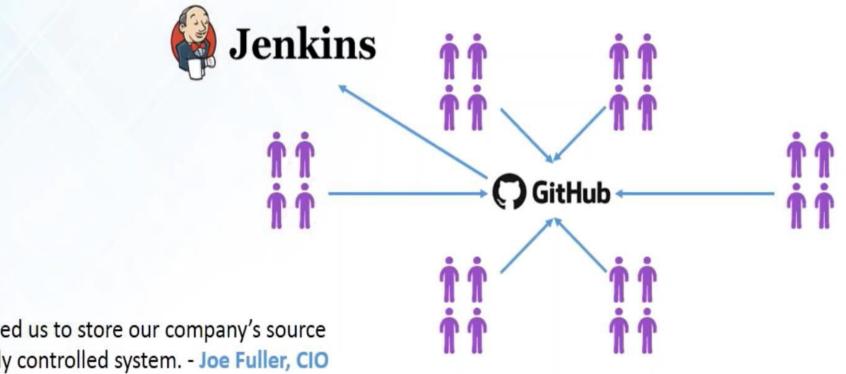




They wanted to make private code "publicly" to make their work more transparent across the company

Reason for using GitHub as the solution:

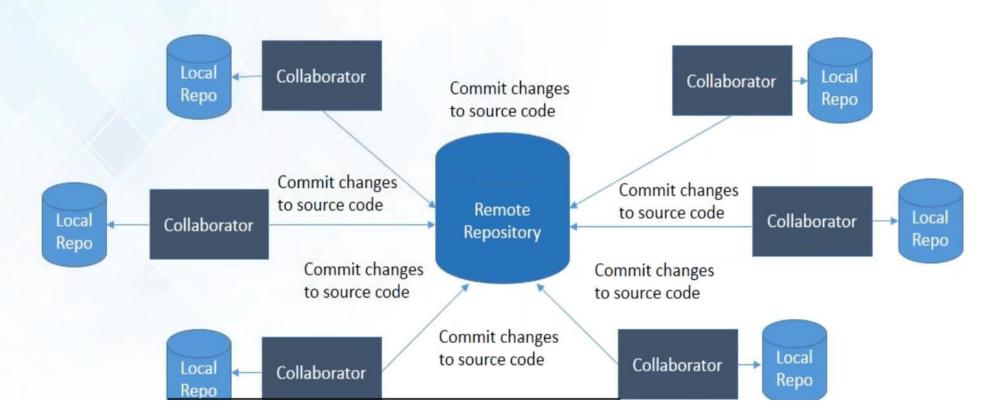
- ☐ They noticed that few of the teams were already using GitHub. Adopting a familiar platform has also made onboarding easier for new employees.
- ☐ Having all of their code in one place makes it easier for them to collaborate on projects.



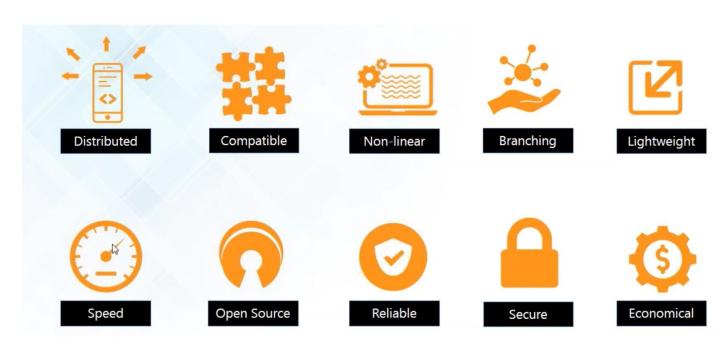
GitHub Enterprise has allowed us to store our company's source code in a central, corporately controlled system. - Joe Fuller, CIO



Git is a Distributed Version Control tool that supports distributed non-linear workflows by providing data assurance for developing quality software.







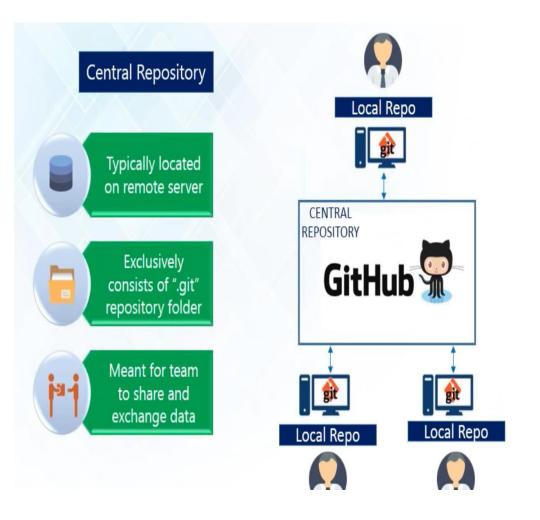


A directory or storage space where your projects can live. It can be local to a folder on your computer, or it can be a storage space on GitHub or another online host. You can keep code files, text files, image files, you name it, inside a repository.

There are two types of repositories:

- 1. Central Repository
- 2. Local Repository





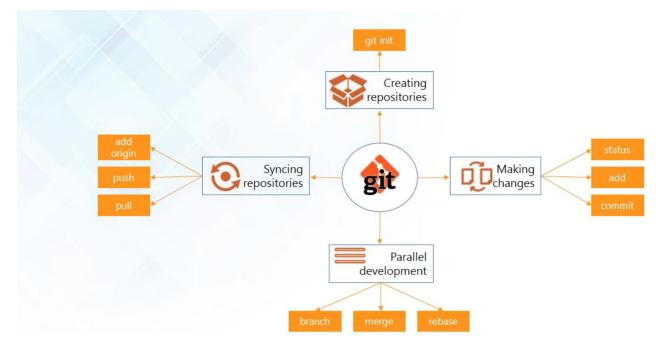
Local Repository



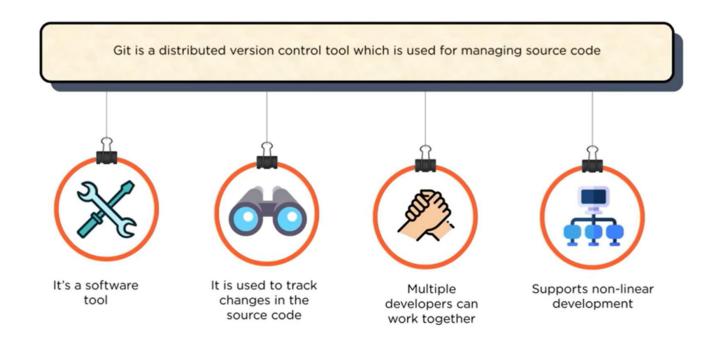














Architecture of Git

