

Article about GIT

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What is GIT?

Git is a popular open source version control system(VCS) that is at the heart of a wide variety of high-profile projects. It was first developed back in 2005. Git is installed and maintained on your local system and gives you a self-contained record of our ongoing programming versions. It can be used completely exclusive of any cloud-hosting service.

- **Control System:** This basically means that Git is a content tracker. So Git can be used to store content — it is mostly used to store code due to the other features it provides.
- **Version Control System:** The code which is stored in Git keeps changing as more code is added. Also, many developers can add code in parallel. So Version Control System helps in handling this by maintaining a history of what changes have happened. Also, Git provides features like branches and merges.
- **Distributed Version Control System:** Git has a remote repository which is stored in a server and a local repository which is stored in the computer of each developer. This means that the code is not just stored in a central server, but the full copy of the code is present in all the developers' computers. Git is a Distributed Version Control System since the code is present in every developer's computer.

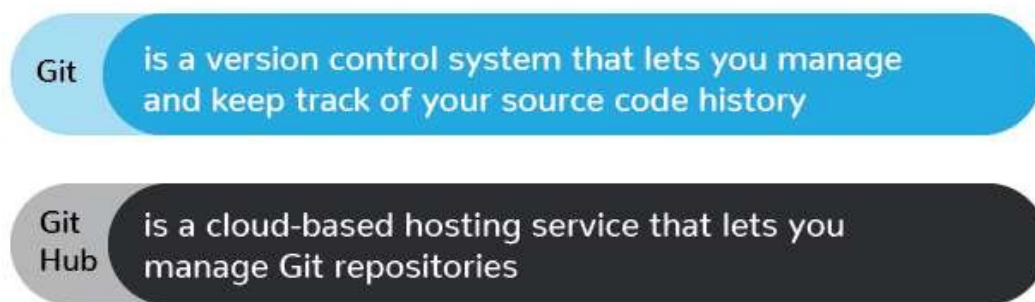
Advantages of GIT over other VCS:

- more responsive
- easy to use
- free
- branching model

GIT vs GitHub:

- Git is a version control system that lets you manage and keep track of your source code history.

- GitHub is a cloud-based hosting service that lets you manage Git repositories.



GIT vs GitHub

Branching:

Git supports *branching* which means that you can work on different versions of your collection of files. A branch allows the user to switch between these versions so that he can work on different changes independently from each other.

For example, if you want to develop a new feature, you can create a branch and make the changes in this branch. This does not affect the state of your files in other branches.

References:

- [freecodecamp.org](https://www.freecodecamp.org)
- [vogella.com](https://www.vogella.com)
- blog.devmountain.com