



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



Benefits of GitHub

- It makes it easy to contribute to your open source projects
- Documentation
- Showcase your work
- Track changes in your code across versions
- Enable effective collaboration
- Easy evaluation of each other's work





Why GitHub so popular

- Powerful community
- The largest shared repository
- Easy version control
- Secure cloud storage

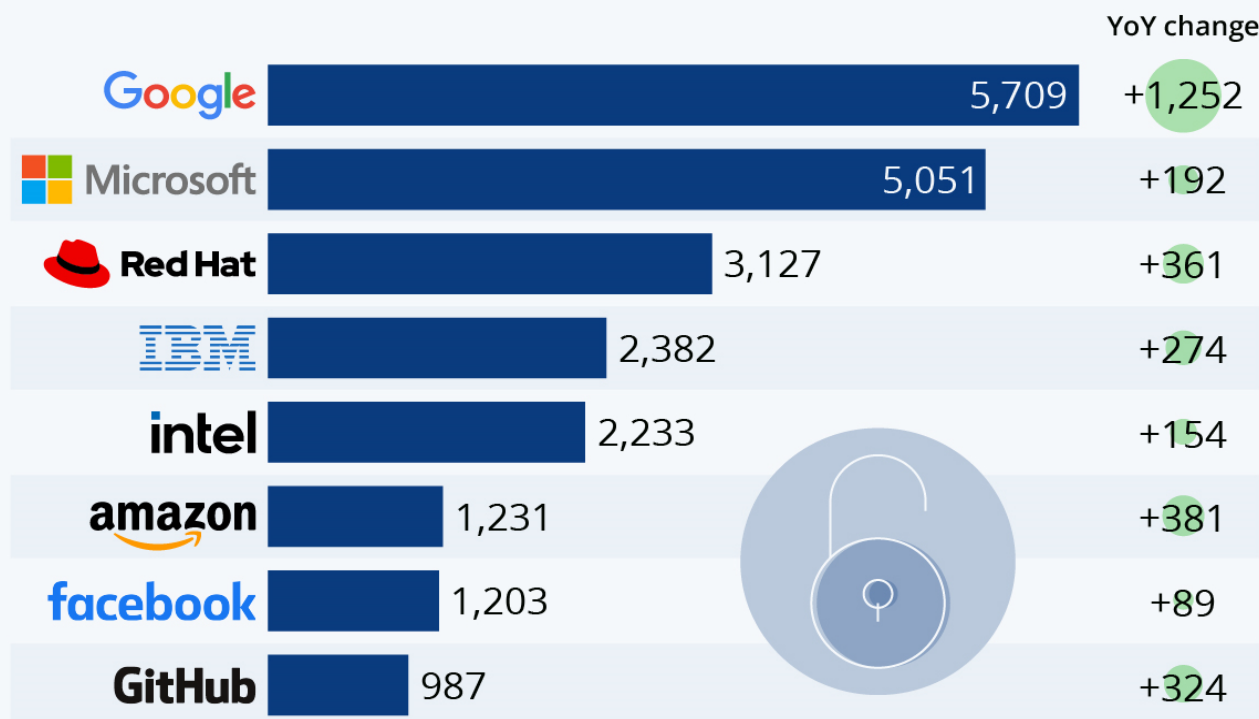
- Microsoft is number 1 contributor of GitHub
- Google IBM, SAP, PayPal and many companies are also contributing



According to GitHub, Microsoft is in a whole other universe of contributions with their high impact on the open source landscape through their large contributions to projects, estimated to be at around 4,550 contributors.

How Big Tech Contributes to Open Source

Active GitHub contributors by employer by Dec 31st 2020*



* Active contributors: More than ten commits on GitHub

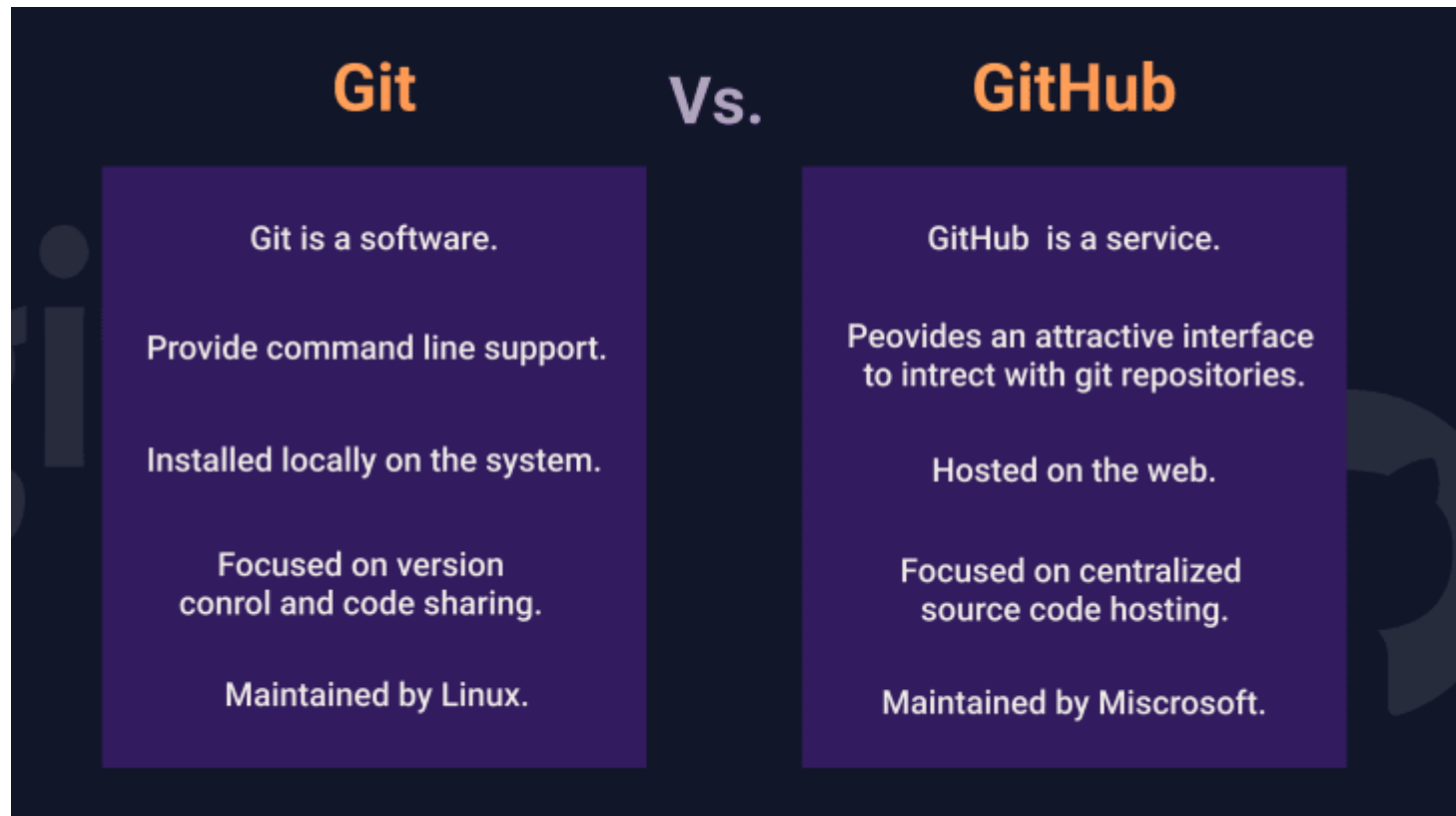
Source: GitHub

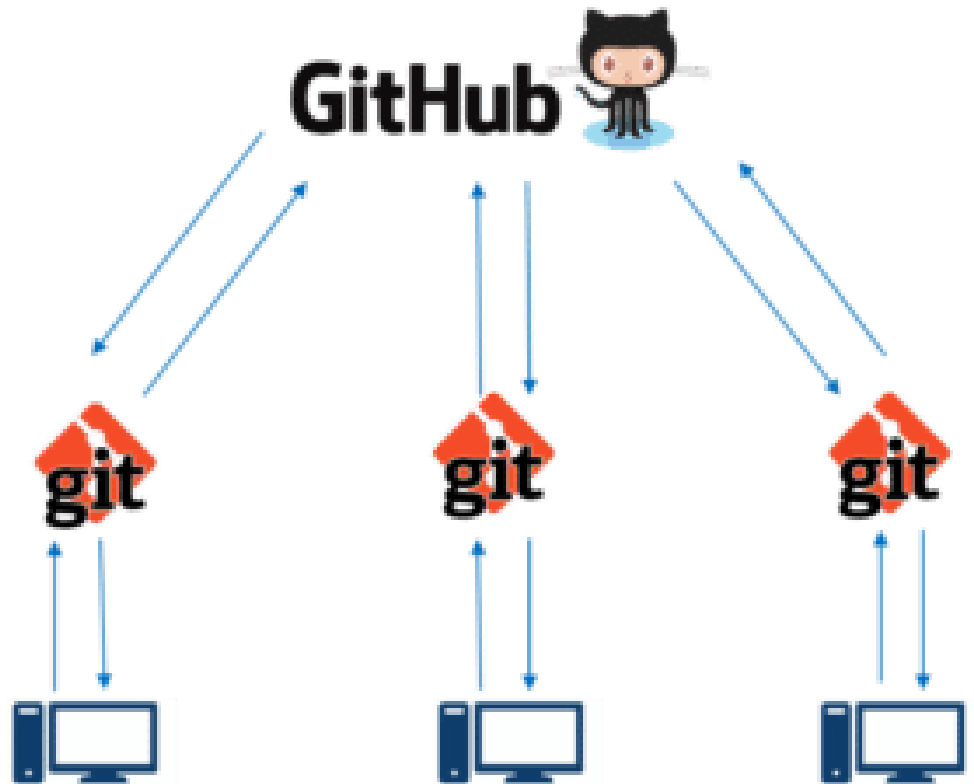




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Git is a version control system that lets you manage and keep track of your source code history.





- Git pushes or pull data from the central server
- GitHub is a core hosting platform for version control collaboration
- GitHub is a company that allows you to host a central repository in a remote server

Repository:

Storage space for your project

GitHub is very popular central repository that allows you to share your files

Push your local repo into GitHub and share it with other collaboration via the central repo



Commit:

Records changes to one or more file in your branch

Git Assigns each commit a unique ID, call SHA or hash, that identifies the specific changes

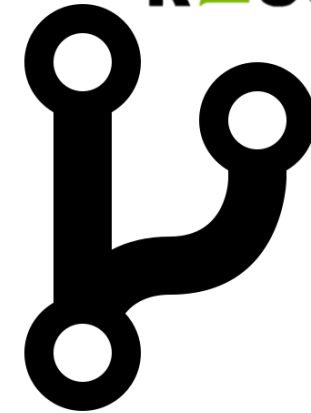


Branch:

Branch allow you to work on other features

They can be included with the main line of your project

The main branch – the one where all changes eventually get merged back into, and it's called Master Branch



Open & Merge Pull Request

Notifies developers about changes you have pushed to a branch in repository

Acknowledge and Review changes

You can create a pull request on

