***Introducing Git and GitHub***

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***Git*** is an *open-source* *Distributed Version Control System*. Git is commonly used for both open source and commercial development with significant benefits to individuals ,teams etc.

It is a free software that can keep track of a file’s complete history and full version tracking. It was first created by Linus Torvalds 2005. The main reason for him to develop Git is to develop Linux kernel with other developers’ contributions. Core maintainer of this software is Junio Hamano.

The development of the software was first started on 3rd April, 2005 and its first version was released on 7th November, 2005. Torvalds names all his projects with funny names, and ‘Git’ was also one of them. ‘Git’ means “unpleasant person” in British. The man page (form of software documentation found on UNIX or UNIX like Operating System) describes Git as “the stupid content tracker”. The latest version of git is Git 2.31 which was originally released on 15, March 2021. We know that Git is a free and open-source software, anybody can download it. It is available for macOS, Windows and Linux operating systems.

***GitHub*** is a cloud-based service which hosts git repositories. It is a convenient web-interface that helps developers achieve version control and an efficient collaboration. Some basic terminologies associated with GitHub include repositories, commits, pull requests, branches.

A *repository* is the storage for the project files and folders. All the required resources are stored here.

A *branch* enables the users to work on different versions of the same repository simultaneously. When required, the changes made in the branches can be then merged with the main branch.

A *commit* is basically saving a change, or taking a snapshot of the current status of the project. A description can be added to the particular change for future reference and more clarity.

A *pull request* ensures the collaboration among various developers working on the project. Once the changes are committed, one can make a pull request to include their part of the code with the main branch.

More than 70% of developers use git , making it the most used Version Control System in the world.