

WHY USE GIT




git

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Performance

- **Git provides the best performance when it comes to version control systems.**
 - **Committing, branching, merging all are optimized for a better performance than other systems.**
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Security

- **Git handles your security with cryptographic method SHA-1.**
 - **The algorithm manages your versions, files, and directory securely so that your work is not corrupted.**
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Branching Model


- ➔ **Git has a different branching model than the other VCS. Git branching model lets you have multiple local branches which are independent of each other.**
 - ➔ **Having this also enables you to have friction-less context switching (switch back and forth to new commit, code and back), role-based code (a branch that always goes to production, another to testing etc) and disposable experimentation (try something out, if does not work, delete it without any loss of code).**
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Staging Area

- **Git has an intermediate stage called "index" or "staging area" where commits can be formatted and modified before completing the commit.**

Distributed

- **Git is distributed in nature. Distributed means that the repository or the complete code base is mirrored onto the developer's system so that he can work on it only.**
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Open Source

- **This is a very important feature of any software present today.**
 - **Being open source invites the developers from all over the world to contribute to the software and make it more and more powerful through features and additional plugins.**
 - **This has led the Linux kernel to be a software of about 15 million lines of code.**
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