

AN OVERVIEW

COLLABORATION: GIT AND GITHUB

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VERSION CONTROL

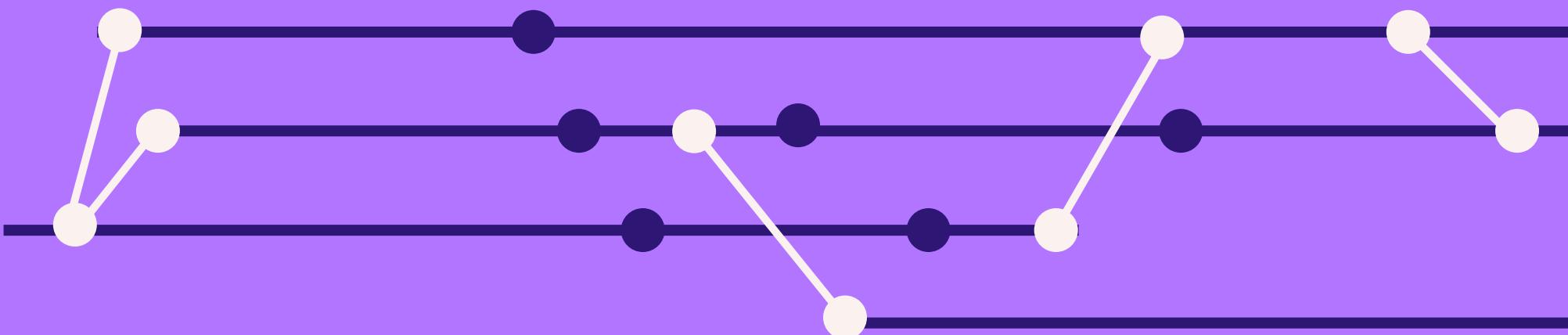
Version control (VC) software tracks and attributes every change to a project. It prevents conflicting changes and keeps a detailed timeline displaying every version of a project. Collaborators can "visit" any version of their project on the timeline.



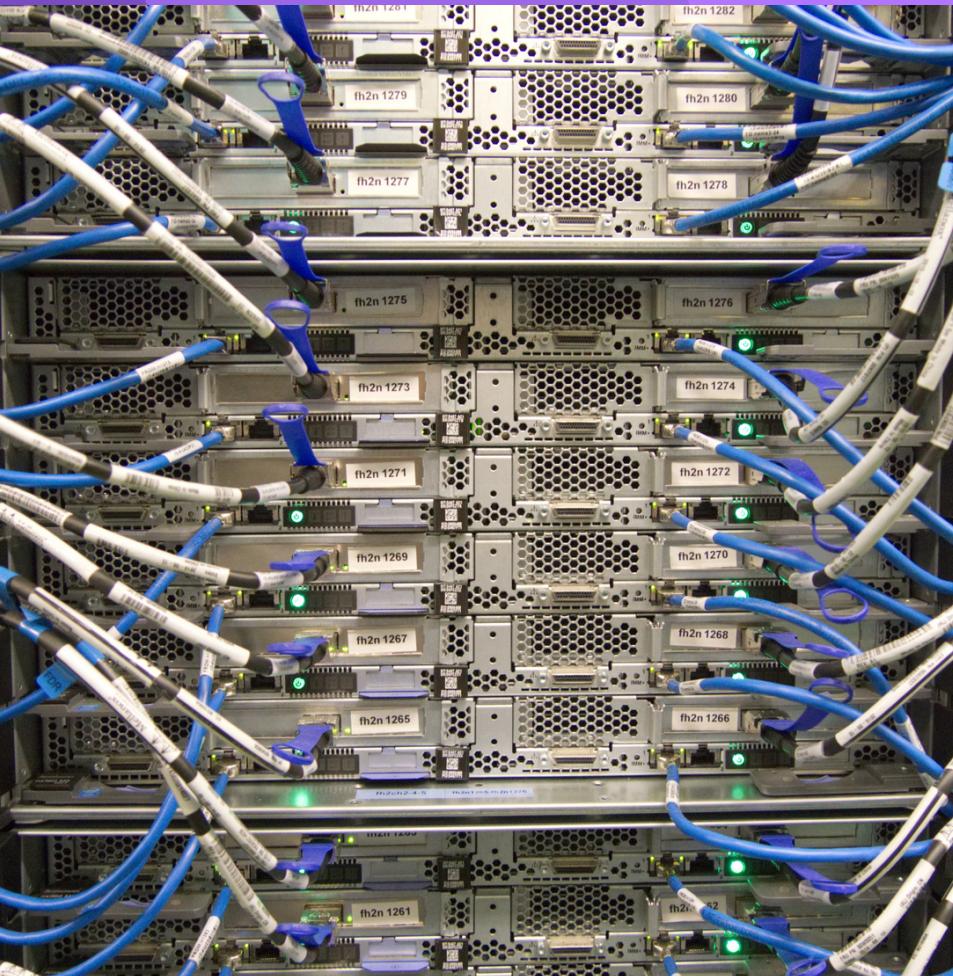
GIT



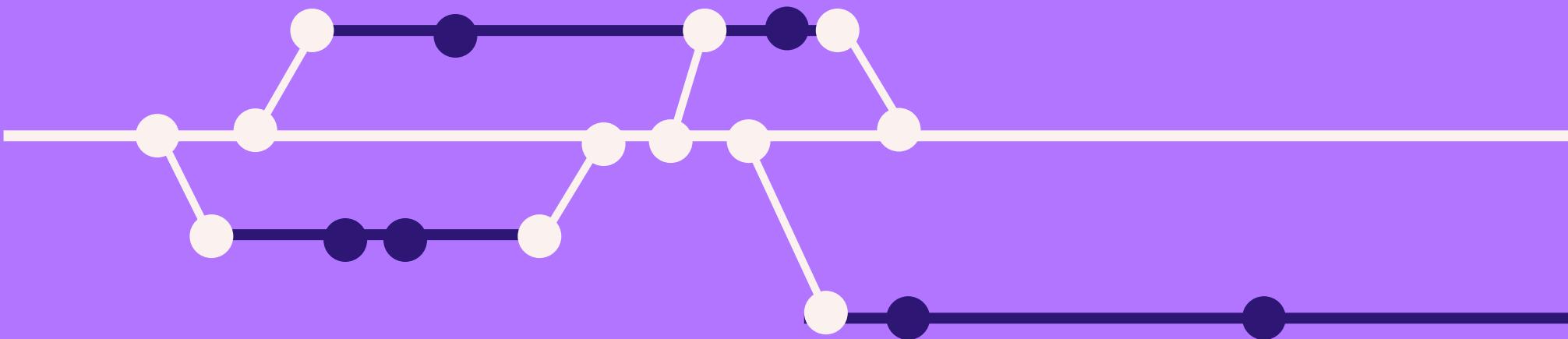
- Git is one of the most popular VC systems.
- Git is distributed. All collaborators have their own, complete copies of a project. A copy can be merged into another copy, creating two identical copies. Conflicts must be manually resolved during the merge.
- Git may be applied to an existing project, or a new project may be created using it.
- Projects are tracked by Git repositories, frequently called "repos". Any folder on a computer can be registered as a repository. All of the features of Git are then available in that directory.



GITHUB



GitHub is a cloud-based service that hosts projects and uses Git to manage them. GitHub serves as a remote repository that collaborators can pull from and contribute to. Its repositories can be public or private and it offers a web GUI to interact with them. It further enhances collaboration with a suite of organizational and security-focused features.





G I T



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