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Git Explained in 100 Seconds: A Summary

This transcript provides a rapid overview of Git, a version control system essential for software development. It explains fundamental concepts like repositories, commits, branches, and merging, highlighting how Git enables efficient collaboration and change tracking.

-> Git tracks changes across a set of files within a directory, creating a repository (repo).

-> Snapshots, or commits, capture the current state of files with unique IDs, allowing time travel to previous versions.

-> Files are staged using `git add` and then committed with `git commit` along with a descriptive message.

-> Branches enable parallel development without affecting the main codebase (master branch) until a merge.

-> `git branch` creates a new branch, and `git checkout` switches between branches.

-> `git merge` integrates the changes from a feature branch into the master branch.

In conclusion, Git facilitates organized and collaborative software development by tracking changes, enabling branching for parallel work, and merging those changes back into the main codebase.