# Git?

Git is a version control system that helps track changes to source code and collaborate with others.

# 2. What is GitHub?

GitHub is a platform to host and share Git repositories online, allowing collaboration and project management.

# 3. Installing Git

The video demonstrates downloading Git from git-scm.com and configuring it using git config.

# 4. Git Basics

Includes initializing a repository (`git init`), checking status (`git status`), adding files (`git add`), and committing (`git commit`).

# 5. Git Logs

Use `git log` to see a history of commits, authors, and messages.

# 6. Branching

Create new branches with `git branch`, switch using `git checkout`, and merge with `git merge`.

# 7. Undoing Changes

Covers how to discard changes using `git checkout`, unstage with `git reset`, or revert commits.

# 8. GitHub Setup

Create an account on GitHub and set up a remote repository to push local changes.

# 9. SSH Keys

Setup SSH keys for secure, password-less GitHub authentication.

# 10. Remote Commands

`git remote add origin`, `git push`, `git pull`, and `git clone` for syncing with GitHub.

# 11. Pull Requests

Work on forks and use pull requests for team collaboration.

# 12. Merge Conflicts

How to identify and resolve merge conflicts manually.

# 13. Best Practices

Includes using `.gitignore`, writing clear commit messages, and frequent commits.