**Git Versioning Overview**

Git versioning is a system for tracking changes in source code during software development. Here are the key concepts and practices:

**Key Concepts**

1. **Repository**: A repository (repo) is a storage space where your project's files and the entire revision history are stored. It can be local (on your computer) or remote (on a server like GitHub, GitLab, or Bitbucket).
2. **Commit**: A commit is a snapshot of your repository at a specific point in time. It includes a message describing the changes and metadata like the author and timestamp.
3. **Branch**: A branch is a separate line of development. The default branch name in Git is usually main or master. Branches allow you to work on different features or fixes in isolation from each other.
4. **Merge**: Merging is the process of combining changes from different branches into one. This is typically done when a feature is complete and needs to be integrated into the main branch.
5. **Clone**: Cloning a repository means creating a copy of a remote repository on your local machine.
6. **Pull**: Pulling means fetching changes from a remote repository and merging them into your local repository.
7. **Push**: Pushing means sending your local changes to a remote repository.
8. **Remote**: A remote repository is a version of your project that is hosted on the internet or network somewhere. You can push to or pull from remotes.

Git versioning is a powerful tool that, when used correctly, greatly enhances collaboration and project management in software development.