Git-Branch

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Branching in **Git** allows us to create independent lines of development within a repository. It's useful for working on different features, bug fixes, or experiments without affecting the main codebase until we're ready to merge the changes.

Branching workflow example:

- 1. git branch: Lists all existing branches in the repository.
- 2. git checkout -b feature-branch: Creating new branch feature-branch and switching to it.
- 3. Make changes, add files, and commit them on the feature branch: git add <file1> <file2> git commit -m "Implement feature XYZ"
- 4. git checkout main: Switch back to the main branch.
- 5. git merge feature-branch: Merge the changes from the feature branch into the main branch
- 6. Delete the feature branch: git branch -d feature-branch

Common Branching Strategies:

1. Feature Branches:

- · Create a branch for each new feature or task.
- Work on the feature and commit regularly.
- Merge the feature branch back into the main branch when it's ready.

2. Release Branches:

- Create a release branch from the main branch when preparing for a new release.
- Bug fixes can be applied to both the release and main branches.

3. Hotfix Branches:

- Create a hotfix branch to fix critical issues in the main branch.
- Merge the hotfix back into the main branch and any active release branches.