Git Branches

git branch

This command lists all the branches in the repository. The currently checked-out branch is indicated by an asterisk .

git branch <branch_name>

This command creates a new branch with the specified name. The new branch will be created based on the current branch you are on.

git checkout <branch_name>

This command switches to the specified branch. It allows you to work on the code in the context of the chosen branch.

git checkout -b <branch_name>

This is a combination of the previous two commands. It creates a new branch with the specified name and switches to that branch.

git branch -d <branch_name>

This command deletes the specified branch. The branch must be fully merged into the current branch for it to be deleted.

git branch -D <branch_name>

This command forcefully deletes the specified branch, even if it has not been fully merged. Be cautious when using this command as it may result in data loss.

git merge <branch_name>

This command merges the specified branch into the current branch. It combines the changes from the specified branch into the branch you are currently on.

git rebase <branch_name>

This command applies the changes from the specified branch on top of the current branch. It helps to keep a linear commit history.

git log <branch_name>

This command shows the commit history of the specified branch.

git log --graph --oneline --all

This command displays a compact graph of the commit history, showing all branches and their relationships.

git fetch

This command fetches the latest changes from the remote repository but does not automatically merge or apply them to your local branches.

git pull

This command fetches the latest changes from the remote repository and automatically merges them into the current branch.

git push <remote> <branch_name>

This command pushes the specified branch to the specified remote repository, making the changes available to others.

git remote -v

This command lists all the remote repositories associated with your local repository, along with their URLs.

git branch --merged

This command lists all the branches that have been fully merged into the current branch.

git branch --no-merged

This command lists all the branches that have not been fully merged into the current branch.