# **Branching Steps**

#### Create a new branch GitNewBranch

git branch GitNewBranch

#### List all local and remote branches

git branch # for local

git branch -r # for remote

git branch -a # for both

## Switch to the newly created branch

git checkout GitNewBranch

or (in newer Git versions)

git switch GitNewBranch

#### Add some files to the branch

echo "This is a feature branch file." > feature.txt

mkdir src

echo "console.log('Hello from branch');" > src/script.js

## **Commit the changes**

git add.

git commit -m "Added feature files in GitNewBranch"

#### **Check Git Status**

git status

Expected:

pgsql

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On branch GitNewBranch

## **Merging Steps**

### Switch back to main (or master)

git checkout main

#### .Show differences between main and GitNewBranch

git diff main..GitNewBranch

This will list **command-line diff** output of changes in GitNewBranch.

## View visual differences using P4Merge

git config --global diff.tool p4merge

git config --global merge.tool p4merge

Then run:

git difftool main GitNewBranch

P4Merge will open showing the visual differences between branches.

# Merge GitNewBranch into main

git merge GitNewBranch

If there are no conflicts, you'll see:

csharp

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#### **View Git Log Graphically**

git log --oneline --graph --decorate

output:

\* 3f3a1ab (HEAD -> main) Merge branch 'GitNewBranch'

||

- | \* b8e1e53 (GitNewBranch) Added feature files in GitNewBranch
- \* | 1d7a9fb Initial commit

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# Delete the merged branch

git branch -d GitNewBranch

To force delete (if not merged):

git branch -D GitNewBranch