Git branch lab

1. Create a branch

git create testing

1. Check the header location

git log --oneline --decorate

check the head position



1. git checkout testing

Again, run same command: git log --oneline --decorate



1. This is interesting, because now your testing branch has moved forward, but your master branch still points to the commit you were on when you ran git checkout to switch branches. Let’s switch back to the master branch:
2. $ git checkout master
3. Testing branch based on master

You can run your tests, make sure the hotfix is what you want, and finally merge the hotfix branch back into your master branch to deploy to production. You do this with the git merge command:

root@master:~/libgit2# *git checkout main*

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 3 commits.

(use "git push" to publish your local commits)

root@master:~/libgit2# *git merge testing*

Updating d3cef9fb6..c247532b2

Fast-forward

test.rb | 1 +

1 file changed, 1 insertion(+)

create mode 100644 test.rb

1. . However, first you’ll delete the testing branch, because you no longer need it — the master branch points at the same place. You can delete it with the -d option to git branch:

*git branch -d testing*

Deleted branch testing (was c247532b2).

root@master:~/libgit2#

1. root@master:~/libgit2# git status

On branch main

Your branch is ahead of 'origin/main' by 4 commits.

Here are some common usages of the **git branch** command:

* **git branch**: Lists all the branches in the repository and indicates which branch you are currently on.
* **git branch <branch-name>**: Creates a new branch with the specified name at the current commit.
* **git branch -d <branch-name>**: Deletes the specified branch.
* **git branch -m <old-branch-name> <new-branch-name>**: Renames the specified branch from **old-branch-name** to **new-branch-name**.
* **git branch -a**: Lists all the branches in the repository, including both local and remote branches.
* **git branch -v**: Lists all the branches in the repository along with the last commit message on each branch.