



To list all branches:

```
$git branch
```

To list remote branches:

```
$git branch -r
```

To list Local and remote Branches:

```
$git branch -a
```

To create a new branch:

```
$git branch development
```

```
$git branch
```

To create and switch a branch at a time:

```
$git checkout -b branchname
```

To switch a development branch:

```
$git switch / checkout development
```

```
$git branch
```

Now create a new branch feature:

```
$git branch feature
```

```
$git switch feature
```

```
$git branch
```

Create some files in feature branch:

```
script1 script2 script3
```

```
$git add .
```

```
$git commit -m "New files are added"
```

To rename a current branch:

```
$git branch -m branch_name
```

```
$git branch -a
```

Creating a Branch from Another Branch:

```
$git checkout -b development release
```

Now push the commits into GitHub:

```
$git push origin feature
```

Now we can verify the feature branch and files in the GitHub Repository.

Now switch to development branch:

```
$git switch development
```

```
$git branch
```

Here we can create some file.

```
dev1 dev2 dev3
```

```
$git add .
```

```
$git commit -m "New development files are added"
```

```
$git status
```

Now push the commits into GitHub:

```
$git push origin development
```

Now we can verify the development branch and files in the GitHub Repo.

GIT DIFF: Show changes between commits, commit and working tree, etc

```
$git diff
```

```
$git diff development feature
```

MERGE BRANCHES:

- In Git, merging is the process of combining changes from multiple branches into a single branch.
- Merging is Git's way of putting a forked history back together again.
- Before performing a merge there are a couple of preparation steps to take to ensure the merge goes smoothly.

First confirm the receiving branch:

```
$git checkout master
```

Fetch the latest remote commits:

Make sure the receiving branch and the merging branch are up-to-date with the latest remote changes.

```
$git status
```

```
$git fetch
```

Now merging a branch:

```
$git merge feature
```

NOTE: A fast-forward merge can occur when there is a linear path from the current branch tip to the target branch.

Merge development to master:

```
$git checkout master
```

```
$git merge development
```

```
$git status
```

```
$ls
```

Push the commits into GitHub:

```
$git push origin master
```

Delete a local branch (if not required)

```
$git branch -d development
```

```
$git branch
```

Delete a remote branch:

```
$git push origin :refs/heads/feature-1 [even not available local repository]
```

To delete a specified branch:

```
$git branch -d branch_name
```

```
$git branch -D branch_name
```