

GIT Handson 3

Branching:

1. Creating a new branch "GitNewBranch".

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git branch GitNewBranch
```

2. Listing all the local and remote branches available in the current trunk

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git branch -a
  GitNewBranch
* master
remotes/origin/master
```

3. Switching to the newly created branch.

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git checkout GitNewBranch
Switched to branch 'GitNewBranch'

brave@Thiru?? MINGW64 /s/GitDemo (GitNewBranch)
$ |
```

Added some files to it with some contents

```
brave@Thiru?? MINGW64 /s/GitDemo (GitNewBranch)
$ echo "Created this file inside GitNewBranch" > newfile.txt
```

4. Commit the changes to the branch.

```
brave@Thiru?? MINGW64 /s/GitDemo (GitNewBranch)
$ git add newfile.txt
warning: in the working copy of 'newfile.txt', LF will be replaced by CRLF the n
ext time Git touches it
```

```
brave@Thiru?? MINGW64 /s/GitDemo (GitNewBranch)
$ git commit
[GitNewBranch 949a89e] Added newfile.txt in GitNewBranch
1 file changed, 1 insertion(+)
create mode 100644 newfile.txt
```

5. Check the status with “**git status**” command.

```
brave@Thiru?? MINGW64 /s/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean
```

Merging:

1. Switching to the master

```
brave@Thiru?? MINGW64 /s/GitDemo (GitNewBranch)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
```

2. Listing out all the differences between trunk and branch

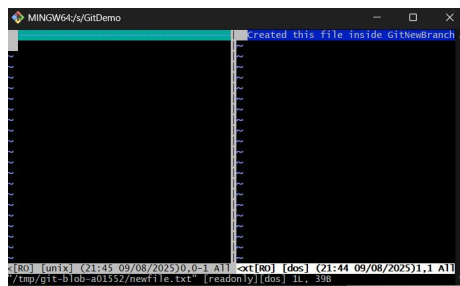
->Provides the differences in command line interface

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git diff master GitNewBranch
diff --git a/newfile.txt b/newfile.txt
new file mode 100644
index 0000000..6660a7c
--- /dev/null
+++ b/newfile.txt
@@ -0,0 +1 @@
+Created this file inside GitNewBranch
```

3. List out all the visual differences between master and branch using **P4Merge** tool

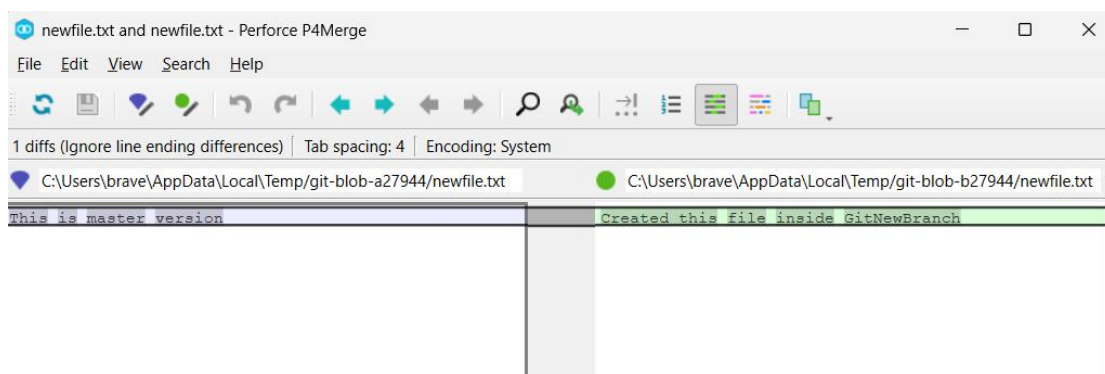
```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git difftool master GitNewBranch
```

Without using the **P4Merge** tool

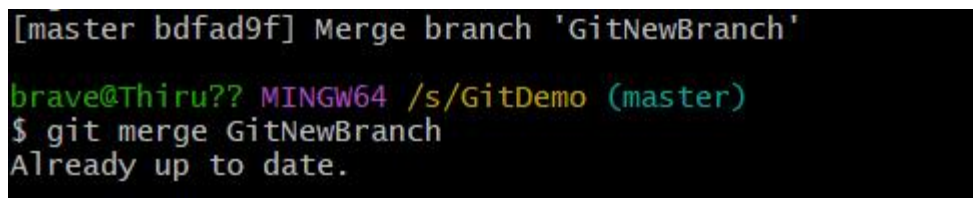


With using the **P4Merge** tool

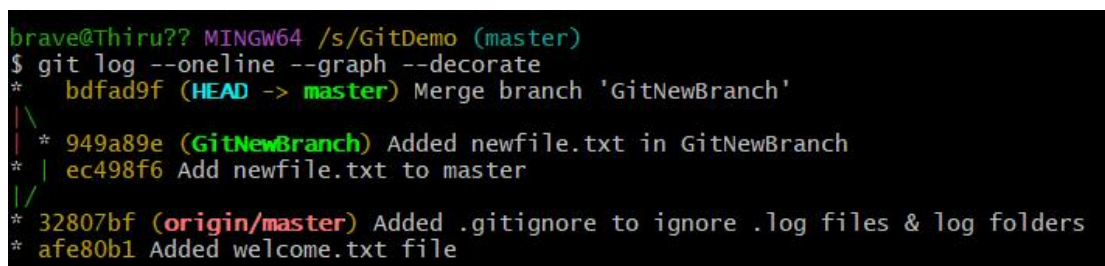
- here I have also added newfile.txt in the master branch to differentiate it from the file in the branch.



4. Merge the source branch to trunk



5. Observe the logging after merging using “**git log --oneline --graph --decorate**”



6. Delete the branch after merging with the trunk and observe the git status

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 949a89e).
```

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 3 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```