

Conflict Resolution During Merge

```
C:\Users\HP\GitDemo>git status
On branch master
nothing to commit, working tree clean
```

Switching to new Branch "GitWork"

```
C:\Users\HP\GitDemo>git checkout -b GitWork
Switched to a new branch 'GitWork'
```

Creating a file hello.xml

```
C:\Users\HP\GitDemo>echo "<message>Hello from GitWork branch</message>" > hello.xml
```

Adding for tracking

```
C:\Users\HP\GitDemo>git add hello.xml
```

Committing

```
C:\Users\HP\GitDemo>git commit -m "Add hello.xml in GitWork branch"
[GitWork 5a5d1c6] Add hello.xml in GitWork branch
1 file changed, 1 insertion(+)
create mode 100644 hello.xml
```

Switching back to master

```
C:\Users\HP\GitDemo>git checkout master
Switched to branch 'master'
```

Creating a different version of hello.xml

```
C:\Users\HP\GitDemo>echo "<message>Hello from master branch</message>" > hello.xml
```

Viewing logs graphically

```
C:\Users\HP\GitDemo>git log --oneline --graph --decorate --all
* be1f841 (HEAD -> master) Add hello.xml in master branch
| * 5a5d1c6 (GitWork) Add hello.xml in GitWork branch
|/
| * 1a14e8d (GitNewBranch) Add file in GitNewBranch
|/
* 9461a36 Add .gitignore to ignore .log files and log folder
* 9e66c2c Initial commit
* 53f2c01 Initial commit
```

Comparing differences (CLI)

```
C:\Users\HP\GitDemo>git diff GitWork
diff --git a/hello.xml b/hello.xml
index e3b274c..13ce67e 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1,1 @@
- "<message>Hello from GitWork branch</message>"
+ "<message>Hello from master branch</message>"
```

Merging GitWork into master

```
C:\Users\HP\GitDemo>git merge GitWork
Auto-merging hello.xml
CONFLICT (add/add): Merge conflict in hello.xml
Automatic merge failed; fix conflicts and then commit the result.
```

```
C:\Users\HP\GitDemo>git mergetool
```

```
This message is displayed because 'merge.tool' is not configured.  
See 'git mergetool --tool-help' or 'git help config' for more details.  
'git mergetool' will now attempt to use one of the following tools:
```

```
tortoisemerge emerge vimdiff nvimdiff
```

```
Merging:
```

```
hello.xml
```

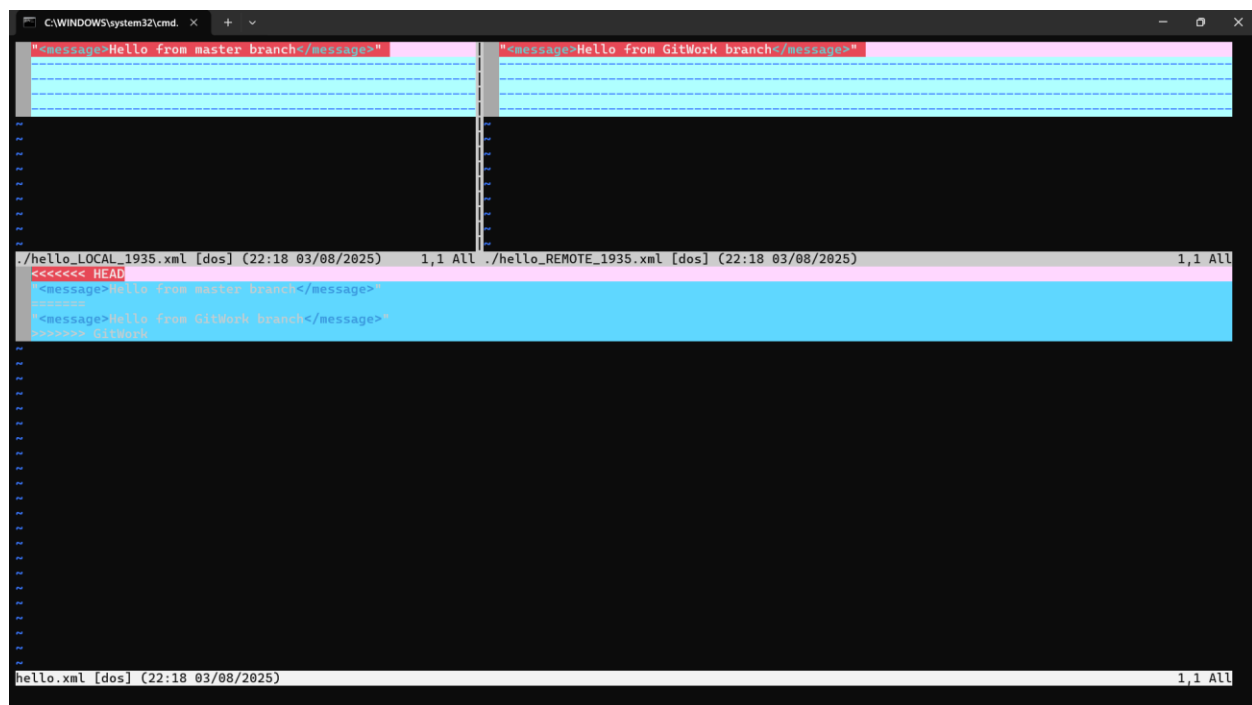
```
Normal merge conflict for 'hello.xml':
```

```
{local}: created file
```

```
{remote}: created file
```

```
Hit return to start merge resolution tool (vimdiff): return
```

```
3 files to edit
```



Committing the conflict resolution

```
C:\Users\HP\GitDemo>git commit -m "Resolved conflict in hello.xml"  
[master 1f93977] Resolved conflict in hello.xml
```

Listing branches

```
C:\Users\HP\GitDemo>git branch
  GitNewBranch
  GitWork
* master
```

Deleting the merged branch

```
C:\Users\HP\GitDemo>git branch -d GitWork
Deleted branch GitWork (was 5a5d1c6).
```

Viewing final log

```
C:\Users\HP\GitDemo>git branch -d GitWork
Deleted branch GitWork (was 5a5d1c6).

C:\Users\HP\GitDemo>git log --oneline --graph --decorate
* d812398 (HEAD -> master) Ignore backup merge files
* 1f93977 Resolved conflict in hello.xml
| \
| * 5a5d1c6 Add hello.xml in GitWork branch
* | be1f841 Add hello.xml in master branch
| /
* 9461a36 Add .gitignore to ignore .log files and log folder
* 9e66c2c Initial commit
* 53f2c01 Initial commit
```

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