# Git-Hol 4

MINGW64 ~/GitDemo (main)

$ git checkout main

git status

Already on 'main'

On branch main

nothing to commit, working tree clean

MINGW64 ~/GitDemo (main)

$ git checkout -b GitWork

echo "<greeting>Hello from branch</greeting>" > hello.xml

Switched to a new branch 'GitWork'

MINGW64 ~/GitDemo (GitWork)

$ echo "<update>Branch version</update>" >> hello.xml

git status

On branch GitWork

Untracked files:

(use "git add <file>..." to include in what will be committed)

hello.xml

nothing added to commit but untracked files present (use "git add" to track)

MINGW64 ~/GitDemo (GitWork)

$ git add hello.xml

git commit -m "Added hello.xml in GitWork branch"

warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it

[GitWork 5d218fc] Added hello.xml in GitWork branch

1 file changed, 2 insertions(+)

create mode 100644 hello.xml

MINGW64 ~/GitDemo (GitWork)

$ git checkout main

Switched to branch 'main'

MINGW64 ~/GitDemo (main)

$ echo "<greeting>Hello from master</greeting>" > hello.xml

git add hello.xml

git commit -m "Added hello.xml in main branch with different content"

warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it

[main 14c3e92] Added hello.xml in main branch with different content

1 file changed, 1 insertion(+)

create mode 100644 hello.xml

MINGW64 ~/GitDemo (main)

$ git log --oneline --graph --decorate --all

\* 14c3e92 (**HEAD** -> **main**) Added hello.xml in main branch with different content

| \* 5d218fc (**GitWork**) Added hello.xml in GitWork branch

|/

\* 44e688b Add branchfile.txt in GitNewBranch

\* 64a0f21 Add .gitignore to exclude log files and folders

\* 26000a4 hi hello

MINGW64 ~/GitDemo (main)

$ git diff GitWork

**diff --git a/hello.xml b/hello.xml**

**index 11f5ba8..9d60142 100644**

**--- a/hello.xml**

**+++ b/hello.xml**

@@ -1,2 +1 @@

-<greeting>Hello from branch</greeting>

-<update>Branch version</update>

+<greeting>Hello from master</greeting>

MINGW64 ~/GitDemo (main)

$ git difftool GitWork

Viewing (1/1): 'hello.xml'

Launch 'p4merge' [Y/n]? y

fatal: external diff died, stopping at hello.xml

MINGW64 ~/GitDemo (main)

$ 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.

MINGW64 ~/GitDemo (main|MERGING)

$ notepad++ hello.xml

bash: notepad++: command not found

MINGW64 ~/GitDemo (main|MERGING)

$ notepad hello.xml

MINGW64 ~/GitDemo (main|MERGING)

$ git mergetool

Merging:

hello.xml

Normal merge conflict for 'hello.xml':

{local}: created file

{remote}: created file

The merge tool p4merge is not available as 'C:/Program Files/Perforce/p4merge.exe'

MINGW64 ~/GitDemo (main|MERGING)

$ git add hello.xml

git commit -m "Resolved merge conflict in hello.xml"

[main 23f7a1c] Resolved merge conflict in hello.xml

MINGW64 ~/GitDemo (main)

$ git status

On branch main

Untracked files:

(use "git add <file>..." to include in what will be committed)

hello\_BACKUP\_1154.xml

hello\_BASE\_1154.xml

hello\_LOCAL\_1154.xml

hello\_REMOTE\_1154.xml

nothing added to commit but untracked files present (use "git add" to track)

MINGW64 ~/GitDemo (main)

$ echo "\*.BACKUP.\*" >> .gitignore

git add .gitignore

git commit -m "Ignored P4Merge backup files"

warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it

[main 21407d6] Ignored P4Merge backup files

1 file changed, 1 insertion(+)

MINGW64 ~/GitDemo (main)

$ git branch

GitWork

\* main

MINGW64 ~/GitDemo (main)

$ git branch -d GitWork

Deleted branch GitWork (was 5d218fc).

MINGW64 ~/GitDemo (main)

$ git log --oneline --graph --decorate

\* 21407d6 (**HEAD** -> **main**) Ignored P4Merge backup files

\* 23f7a1c Resolved merge conflict in hello.xml

|\

| \* 5d218fc Added hello.xml in GitWork branch

\* | 14c3e92 Added hello.xml in main branch with different content

|/

\* 44e688b Add branchfile.txt in GitNewBranch

\* 64a0f21 Add .gitignore to exclude log files and folders

\* 26000a4 hi hello

MINGW64 ~/GitDemo (main)

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