

Homework 1 Report

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Firstly, I created a new repo "ITMO_ScientificPython_2024" and created HW1 directory inside it. Then I uploaded three text files and two branches. After adding some changes to 'hw1' and 'test_revert' files I merged two branches:

```
ubuntu@LAPTOP-EF5LV40B:~/Scipy/ITMO_ScientificPython_2024/HW1$ git log
* a0c422e (HEAD -> HW1) Merge branch 'testing' into HW1
| \
| * 4dcf7a5 (origin/testing, testing) changed test_revert text file
* | 9003e10 (origin/HW1) changed hw1 text file
|/
* f848cb6 added three new files to a HW1 directory
* 5353dc5 (origin/main, origin/HEAD, main) Initial commit
```

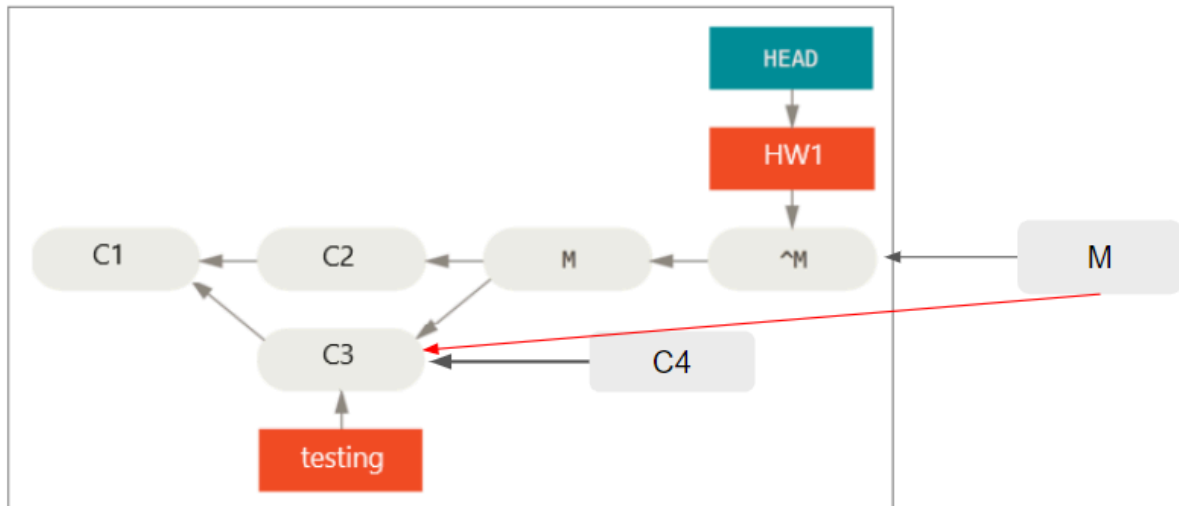
Then I reverted this merge:

```
* 718a056 (HEAD -> HW1) Revert "Merge branch 'testing' into HW1"
* a0c422e Merge branch 'testing' into HW1
| \
| * 4dcf7a5 (origin/testing, testing) changed test_revert text file
* | 9003e10 (origin/HW1) changed hw1 text file
|/
* f848cb6 added three new files to a HW1 directory
* 5353dc5 (origin/main, origin/HEAD, main) Initial commit
ubuntu@LAPTOP-EF5LV40B:~/Scipy/ITMO_ScientificPython_2024/HW1$ git status
```

And changed 'test_revert_merge' file on testing branch and merged branches once again:

```
ubuntu@LAPTOP-EF5LV40B:~/Scipy/ITMO_ScientificPython_2024/HW1$ git log --all --decorate
* 5b200fd (HEAD -> HW1) Merge branch 'testing' into HW1
| \
| * 4c5b7fb (origin/testing, testing) changed test_revert_merge text file
* | 718a056 Revert "Merge branch 'testing' into HW1"
* | a0c422e Merge branch 'testing' into HW1
| \
| * 4dcf7a5 changed test_revert text file
* | 9003e10 (origin/HW1) changed hw1 text file
|/
* f848cb6 added three new files to a HW1 directory
* 5353dc5 (origin/main, origin/HEAD, main) Initial commit
```

Then I noticed that my changes to the 'test_revert_merge' file were gone after the second merge. I suppose this happened because revert rolled us back to the point where two branches were unmerged and that status wasn't having any changes in testing branch at that time:



Then I performed the second revert and all changes were included:

```
* 3d24880 (HEAD -> HW1, origin/HW1) Revert "Merge branch 'testing' into HW1"
* 5b200fd Merge branch 'testing' into HW1
|\
| * 4c5b7fb (origin/testing, testing) changed test_revert_merge text file
| * | 718a056 Revert "Merge branch 'testing' into HW1"
| * | a0c422e Merge branch 'testing' into HW1
|/|
| * 4dcf7a5 changed test_revert text file
| * | 9003e10 changed hw1 text file
|/
* f848cb6 added three new files to a HW1 directory
* 5353dc5 (origin/main, origin/HEAD, main) Initial commit
```

The overall code (adding files to a directory and all changes with them were performed via VScode):

git clone https://github.com/adicere/ITMO_ScientificPython_2024

cd ITMO ScientificPython 2024/

```
git checkout -b HW1
```

```
mkdir HW1
```

cd HW1

```
git add .
```

```
git status
```

```
git commit -m "added three new files to a HW1 directory"
```

```
git push -u origin HW1
```

git branch testing

```
git commit -m "changed hw1 text file"
```

```
git push
```

git checkout testing

```
git add .
```

```
git commit -m "changed test revert text file"
```

```
git push -u origin testing
```

```
git checkout HW1
```

git merge testing

```
git revert a0c422e -m 1
git checkout testing
git add .
git commit -m 'changed test_revert_merge text file'
git push
git checkout HW1
git merge testing
git revert -m 1 718a056
git commit -m "fixed error in test_revert file"
git push
```