

creating branch HW1 and adding files

```
git config --global user.email "wisdomalllife@gmail.com"
git config --global user.name "wisdomalllife"
git clone https://github.com/wisdomalllife/ITMO_ScientificPython_2024
git branch HW1
git switch HW1
git branch --list
git add hw1.txt
git add test_revert.txt
git add test_revert_merge.txt
git status
git commit -m "Adding new files."
git push -u origin HW1
```

creating branch testing and changing files

```
git branch testing
nano hw1.txt
git commit -a
git push origin HW1
git checkout testing
nano test_revert.txt
git commit -a -m "test_revert changing"
git push -u origin testing
```

merging HW1 and testing

```
git checkout HW1
git merge testing
git push origin HW1
```

HW1

3 Branches

0 Tags

Go to file

Add file

Code

This branch is 5 commits ahead of `main`.

wisdomalllife

Merge branch 'testing' into HW1 for further work

dfb4254 · 8 minutes ago

6 Commits

README.md	Initial commit	18 hours ago
hw1.txt	rename file	28 minutes ago
test_revert.txt	test_revert changing	39 minutes ago
test_revert_merge.txt	Adding new files.	4 hours ago

HW1 and testing were merged successfully. Now HW1 contains all the changes. Main is intact.

main 3 Branches 0 Tags

Go to file t Add file <> Code

wisdomalllife Initial commit 48bc576 · 18 hours ago 1 Commits

README.md Initial commit 18 hours ago

README

reverting

git revert -m 1 HEAD

git push origin HW1

HW1 3 Branches 0 Tags

Go to file t Add file

This branch is 6 commits ahead of main .

wisdomalllife Revert "Merge branch 'testing' into HW1 for further work". Forgot to ... 51c1612 · 7 minutes ago

README.md	Initial commit
hw1.txt	rename file
test_revert.txt	Revert "Merge branch 'testing' into HW1 for further work".
test_revert_merge.txt	Adding new files.

git switch testing

nano test_revert_merge.txt

git commit -a -m "Changing test_revert_merge file"

git push origin testing

merging again

git switch HW1

git merge testing

```
Merge made by the 'recursive' strategy.
test_revert_merge.txt | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
```

git push origin HW1

Re-merge was incorrect: file test_revert.txt in HW1 differs from the file in testing.

test_revert changing

HW1 + testing

wisdomalllife committed yesterday

Showing 1 changed file with 2 additions and 1 deletion.

3 test_revert.txt	
...	@@ -1 +1,2 @@
1	- This is a file for testing revert.
1	+ This is a file for testing revert.
2	+ Changing testing revert.

Revert "Merge branch 'testing' into HW1 for further work". Forgot to ...

...change file

This reverts commit [dfb4254](#), reversing changes made to [99cad2a](#).

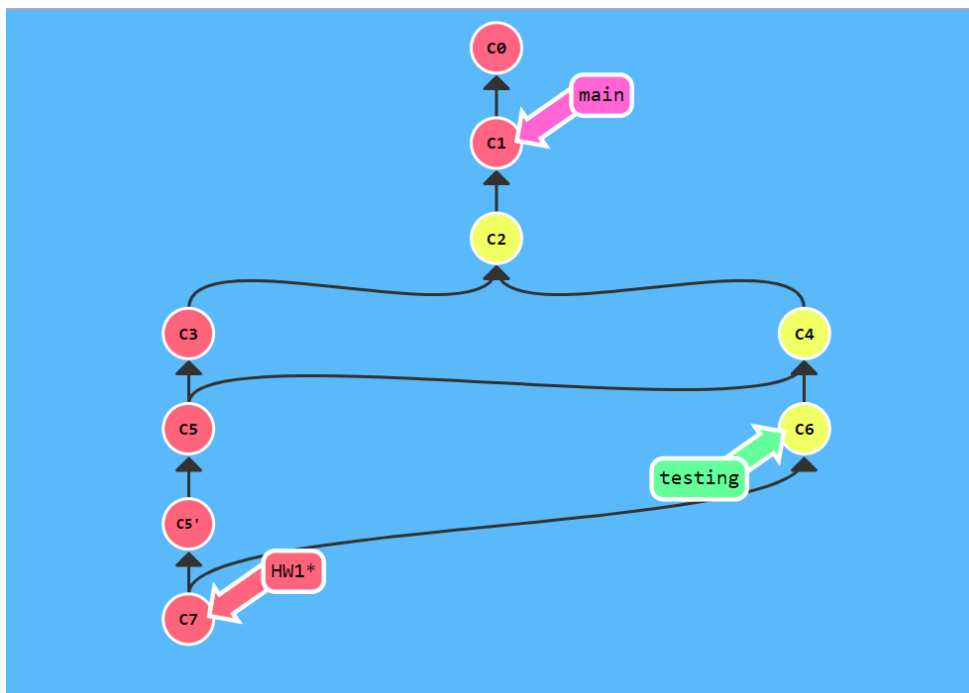
HW1

wisdomalllife committed 18 hours ago

Showing 1 changed file with 1 addition and 2 deletions.

3 test_revert.txt	
...	@@ -1,2 +1 @@
1	- This is a file for testing revert.
2	- Changing testing revert.
1	+ This is a file for testing revert.

at this moment we have state like that:



To solve the problem the commit from testing (hash:8febbb5) was copied to HW1.

git cherry-pick 8febbb5

test_revert changing

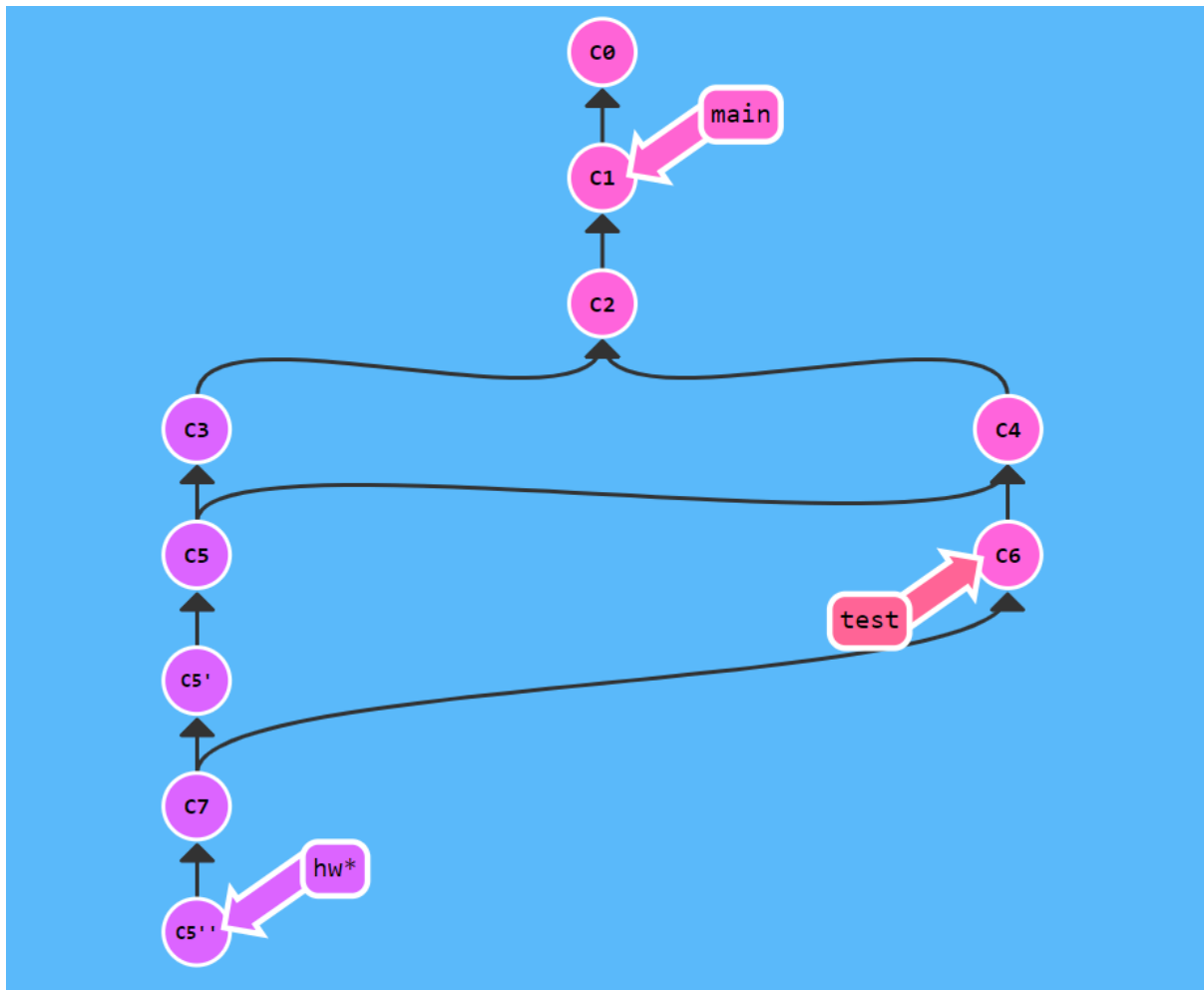
wisdomalllife committed 2 days ago

8febbb5

git branch -d testing

git push origin --delete testing

solution with git revert using



We can use `git revert HEAD~1` to revert the changes specified by the second last commit in HEAD and create a new commit with the reverted changes. In this case, we can get the results that were at the time the branches were merged.