

What you learn

1. Git stash
2. Switch branch

Imagine real case. You work as a team for a project. (Assume that you host this project)

(Looloo retail_forecast case)

Day1. You have setup code in main branch. Let's assume that there are only 1 files in main branch

D1 : `src/base_preprocess.py` at main branch

Day2. You need to add lookback feature and training code. So, you have created a new branch which is "branch7" and adding many files in branch7

D2 : <code>src/add_lookback.py, src/training.py</code>	at branch7 (new files)
<code>src/base_preprocess.py</code>	at branch7 (same as D1 in main branch)
<code>Script / ...</code>	at branch7 (new files)
<code>config / ...</code>	at branch7 (new files)

Day3 you made some change in `src/base_preprocess.py`.

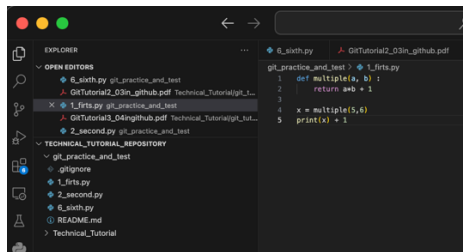
D3 : <code>src/add_lookback.py, src/training.py</code>	at branch7 (new files)
<code>src/base_preprocess.py</code>	at branch7 (change made from main)
<code>Script / ...</code>	at branch7 (new files)
<code>config / ...</code>	at branch7 (new files)

Day4 You want to get back to main branch to recheck your code.

You have 2 choices

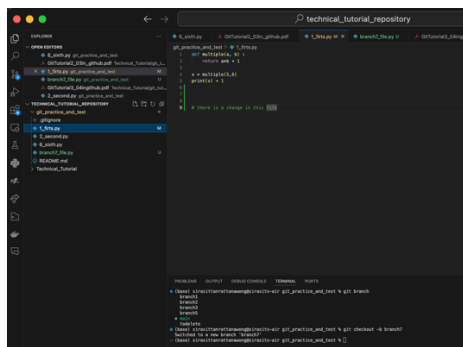
1. Git add, git commit before checkout main (recommended)
2. Git stash (for more detail : <https://www.atlassian.com/git/tutorials/saving-changes/git-stash>)

D1 at main



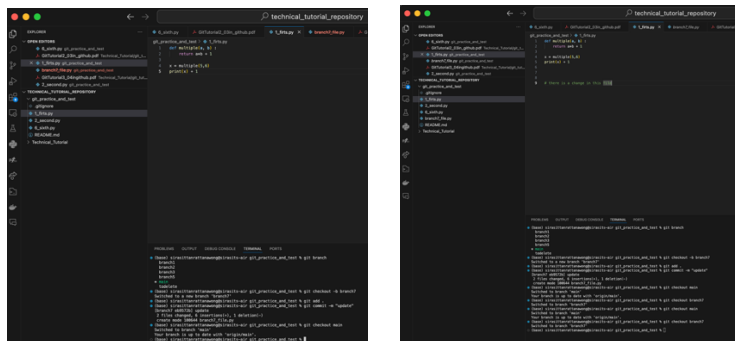
D2,3 at branch7

- Change 1_firts.py
- New file (branch7_file.py)



D4

1. Git add and commit at branch7
 2. Git checkout main
 3. You would see that
- 1_firts.py code จะเหมือนกับตอนแรกที่ branch main เลข # there is a change in this file ใน branch 7 ไม่ตามมาด้วย (ถึงเปิดไฟล์นั้นอยู่พอ checkout ส่วนที่เพิ่มมานั้นก็จะหายไปเลย re-render ให้เหมือน main ตอนแรก)
 - ไม่มี branch7_file.py ตามมาด้วย ** อย่าเผลอไปกด save ละ เวลามันขึ้นสีแดงๆขีด
 - กลับไป checkout branch7 ก็จะเจอของที่แก้ไข



origin revert commit vs logging

What you learn

1. git reset (revert commit)

Imagine real case. You work as a team for a project. (Assume that you host this project)

(Looloo retail_forecast case)

Day1. You have set up code in main branch. Let's assume that there are only 1 file in main. Then new branch "branch7"

Also git push -u origin branch7 to remote repo

D1 : src/base_preprocess.py at main branch

Day2. You need to add lookback feature and training code

D2 : src/add_lookback.py, src/training.py

at branch7 (new files)

src/base_preprocess.py

at branch7 (same as D1 in main branch)

Script / ...

at branch7 (new files)

config / ...

at branch7 (new files)

Day3 You accidentally push all code to the branch7 remote repo (In fact, **you should push only src/add_lookback.py**)

D3 : src/add_lookback.py

at branch7 (in remote branch7)

src/base_preprocess.py, src/training.py

at branch7 (in remote branch7)

Script / ...

at branch7 (in remote branch7)

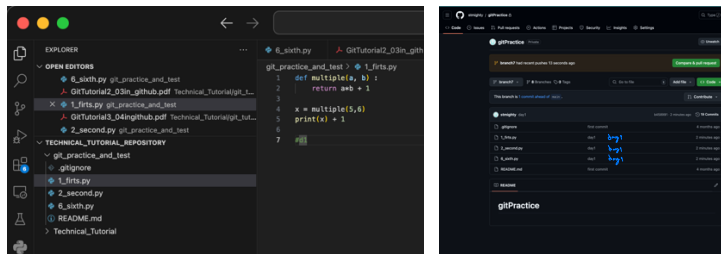
config / ...

at branch7 (in remote branch7)

Day4 You want to revert remote repository of branch7 to the previous version and then push only src/add_lookback.py again

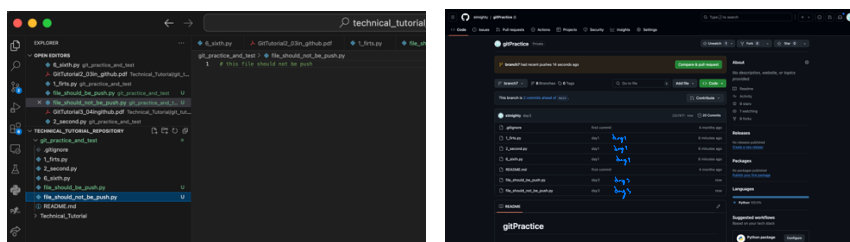
(No change in local, only remote)

D1 at main



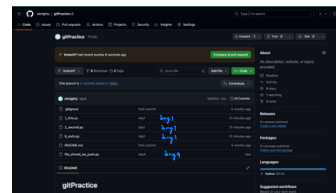
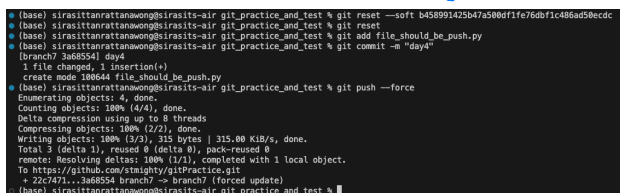
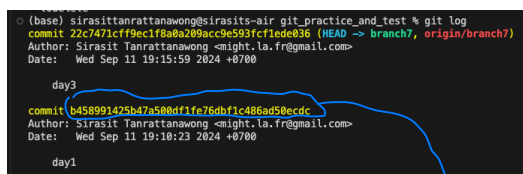
D2,3 at branch7

- push file_should_be_push.py
- push file_should_not_be_push.py



D4 at branch7 (No change in local, only remote) (การปรับแก้ที่ remote)

1. git log and find day1 commit (press q to exit)
2. git reset --soft _____ (commit code)
3. git reset
4. git add file you want to add
5. git commit
6. git push --force (same as git push origin branch7 --force) (it will push to the checkout branch)



Note read git reset --hard if you also want to change local file not only remote

Git revert from merged branch

```
1 print(1)
2
3
4 # added from branch1
5 print(2)
6
7
8
9 # added from branch2
10 print(3)
```

original

branch1

branch2

```
(base) sirasittanrattanawong@MacBook-Air-2 git_practice_and_test % git log
commit 6ea6a2d1d2601aa387dbdc6d4286fdb4472d6a02 (HEAD -> main, origin/main)
Merge: 16ba084 db9574f
Author: stmighty <110883501+stmighty@users.noreply.github.com>
Date: Wed Mar 26 10:54:55 2025 +0700

    dev to main branch2

Develop

commit db9574fdcc1cc5822caf3473fd00b6e7dc89d979 (origin/develop)
Merge: 21dc3e7 0f5daeb
Author: stmighty <110883501+stmighty@users.noreply.github.com>
Date: Wed Mar 26 10:54:27 2025 +0700

    Merge pull request #24 from stmighty/branch2

Branch2

commit 0f5daeb6eee0d8a33a95c713feca6c64e8060997 (origin/branch2, branch2)
Author: Sirasit Tanrattanawong <might.la.fr@gmail.com>
Date: Wed Mar 26 10:53:22 2025 +0700

    add2

commit 16ba0847e563979356c067c0761f77da9fb88d93
Merge: 13932f4 21dc3e7
Author: stmighty <110883501+stmighty@users.noreply.github.com>
Date: Wed Mar 26 10:52:02 2025 +0700

    dev1 to main branch1

Develop

commit 21dc3e72cdb4b528ed3fd1ff1290d2c9f92f7eed
Merge: 13932f4 838dca0
Author: stmighty <110883501+stmighty@users.noreply.github.com>
Date: Wed Mar 26 10:51:34 2025 +0700

    Merge pull request #22 from stmighty/branch1

branch1 to dev

commit 838dca02ece1c2632df1095202db6ef777e135ba (origin/branch1, branch1)
Author: Sirasit Tanrattanawong <might.la.fr@gmail.com>
Date: Wed Mar 26 10:46:31 2025 +0700

    branch1 to dev

commit 13932f403ea7bb3e85e921f4a8136a11bcbab3e9 (develop)
Author: Sirasit Tanrattanawong <might.la.fr@gmail.com>
Date: Wed Mar 26 10:37:43 2025 +0700

    add1
```

merge dev to main (branch2)

merge branch2 to dev (branch2)

push branch2 to remote

merge dev to main (branch1)

merge branch1 to dev (branch1)

push branch1 to remote

original

1570 = revert 110 main

```
(base) sirasittanrattanawong@MacBook-Air-2 git_practice_and_test % git revert -m 1 6ea6a2d1d2601aa387dbdc6d4286fdb4472d6a02
[main db53883] Revert "dev to main branch2"
1 file changed, 5 deletions(-)
(base) sirasittanrattanawong@MacBook-Air-2 git_practice_and_test % git revert -m 1 16ba0847e563979356c067c0761f77da9fb88d93
[main ac53ba2] Revert "dev1 to main branch1"
1 file changed, 4 deletions(-)
(base) sirasittanrattanawong@MacBook-Air-2 git_practice_and_test %
```

+ git push origin main

