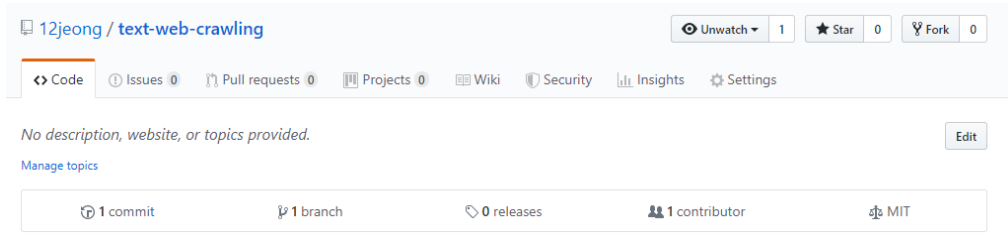


1. 메인유저는 함께 참여할 프로젝트의 repository를 만듭니다. (Public 으로 만들 것!)

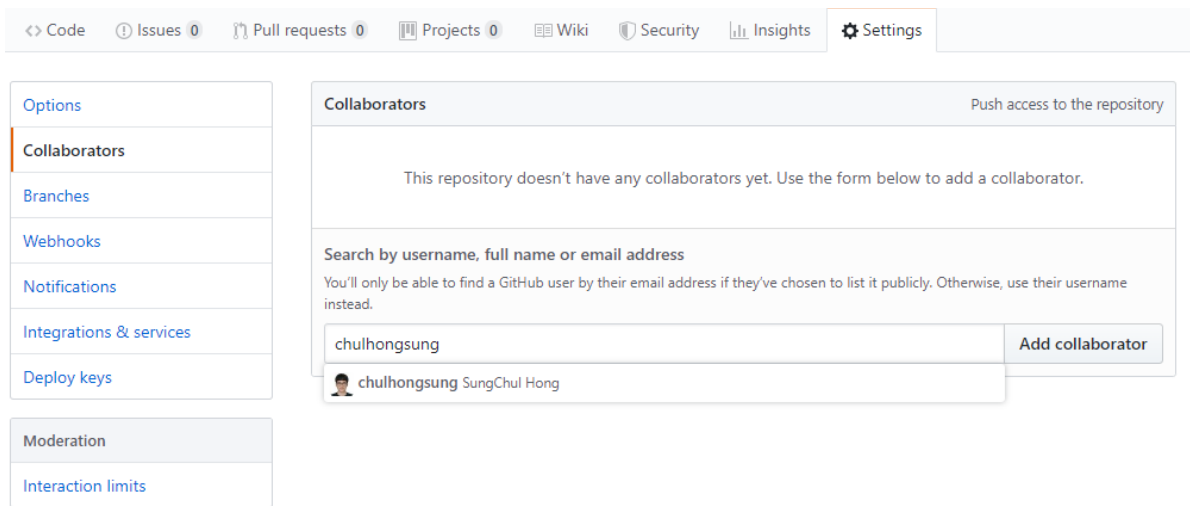
예시) text-web-crawling 을 만들었습니다.



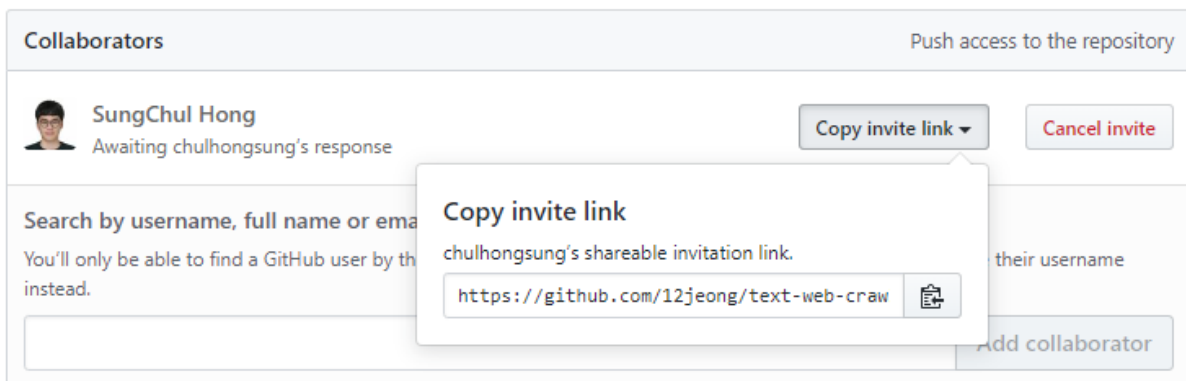
2. 메인유저는 우선 github desktop을 통해 로컬저장소를 만들고 파일을 업로드할 수 있습니다.

(09/20/2018, IJeong Han, For Github Desktop beginner 참고)

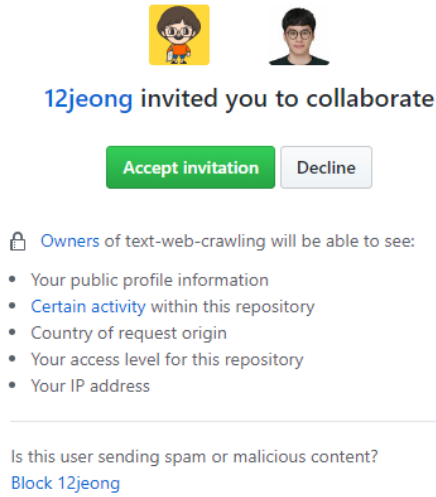
3. 메인유저는 협업할 사람을 초대합니다. (Settings > Collaborators > Add collaborator)



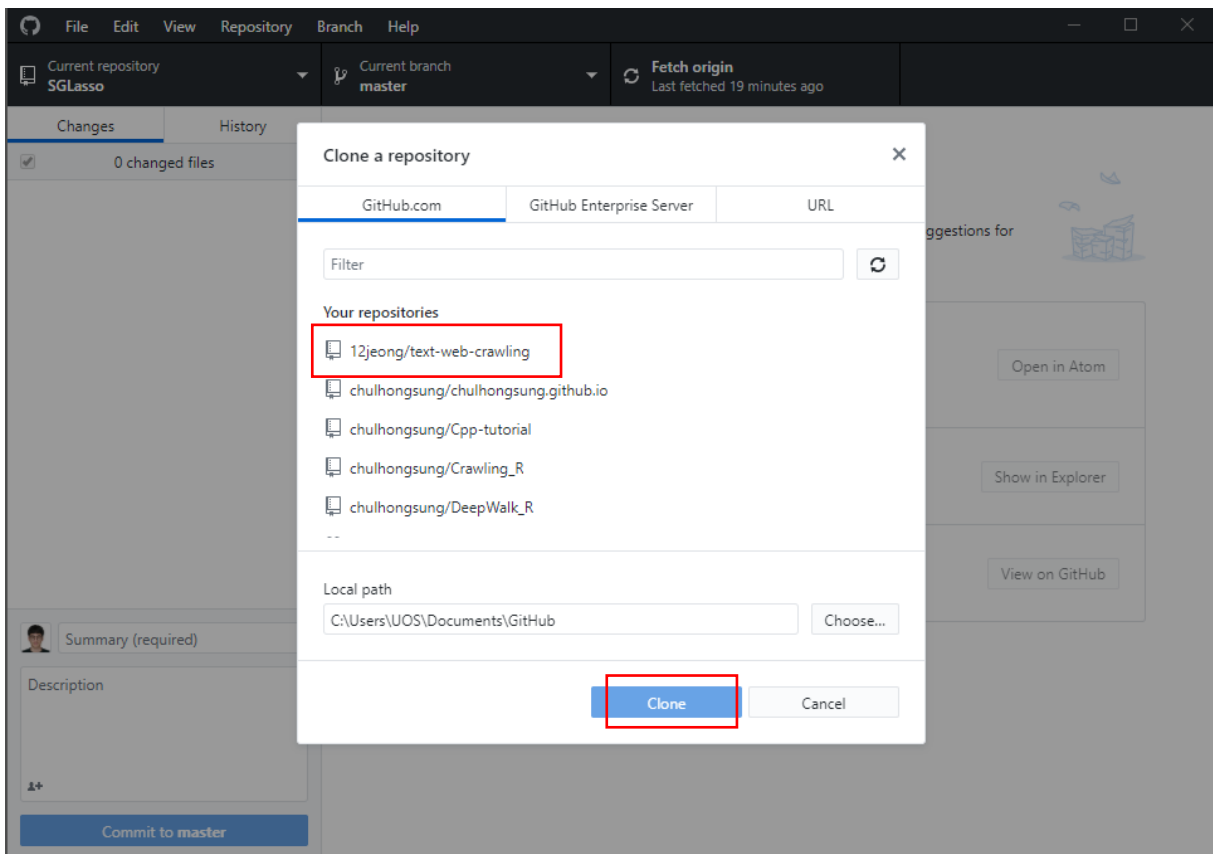
초대받은 사람에게 메일이 도착합니다. 또는 아래의 초대 링크를 메시지로 보내도 됩니다.



4. Accept를 받으면 함께 협업할 수 있습니다!

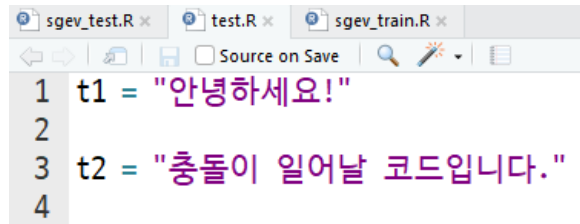


5. 초대받은 사람도 이제 로컬 저장소를 만들 수 있습니다.



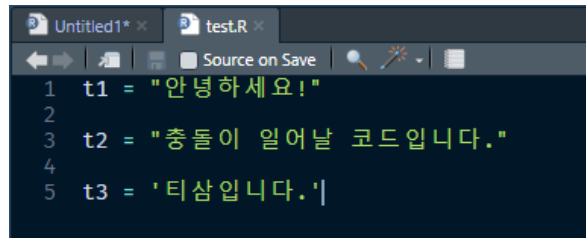
6. 실험1

6-1) repository에 올려져있던 코드입니다.



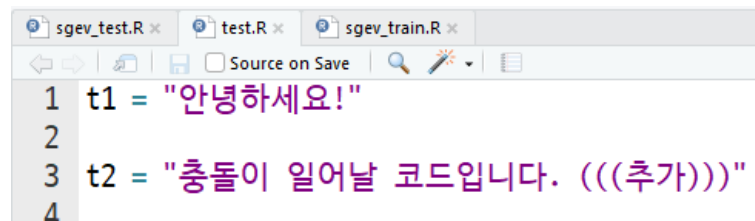
```
1 t1 = "안녕하세요!"
2
3 t2 = "충돌이 일어날 코드입니다."
4
```

6-2) 유저1이 코드를 수정/ commit, push 했습니다.



```
1 t1 = "안녕하세요!"
2
3 t2 = "충돌이 일어날 코드입니다."
4
5 t3 = '티삼입니다.'
```

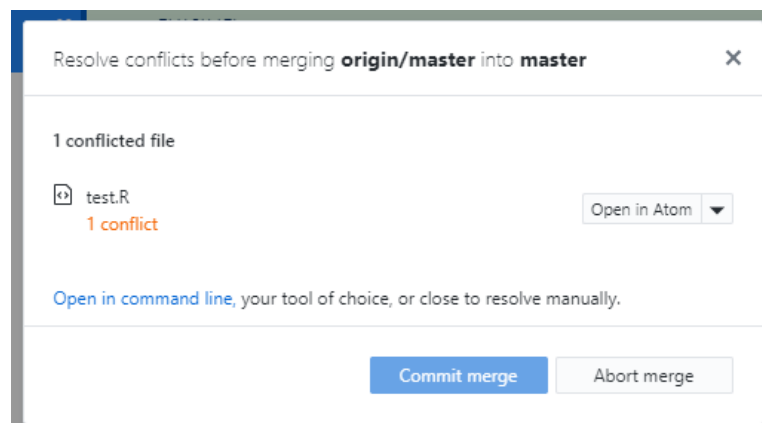
6-3) 동시간대 유저2가 코드를 수정하다가 commit, push 합니다. 그러나,



```
1 t1 = "안녕하세요!"
2
3 t2 = "충돌이 일어날 코드입니다. (((추가)))"
4
```

6-4) 유저2에게 conflict 메시지가 출력됩니다. Editor 프로그램을 이용해 Conflict를 해결해야합니다.

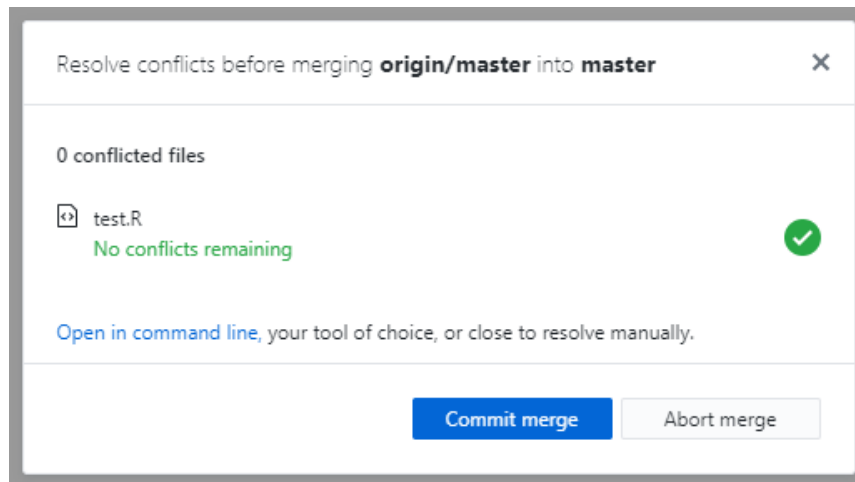
(Open in Atom / (또는 다른 프로그램) 버튼을 누릅니다)



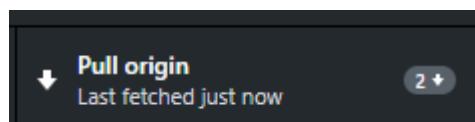
6-5) Editor를 통해 최종으로 사용할 코드로 수정해줍니다.

```
Welcome Guide | test.R
1 t1 = "안녕하세요!"
2
3 t2 = "충돌이 일어날 코드입니다. (((추가)))"
4
5 t3 = '티삼입니다.'
6
```

6-6) 이제 유저2는 push를 할 수 있습니다 ☺ (Commit merge) Push)

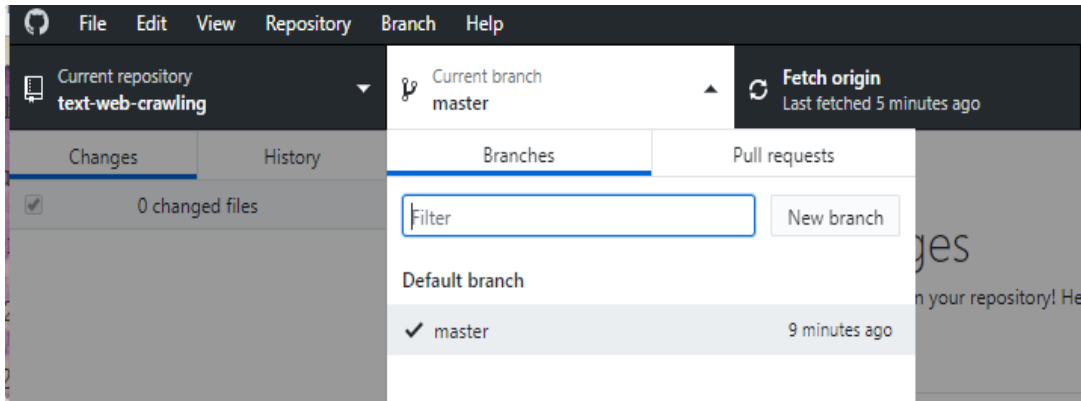


6-7) 유저1은 수정된 코드를 pull을 통해 로컬저장소로 업데이트 할 수 있습니다.



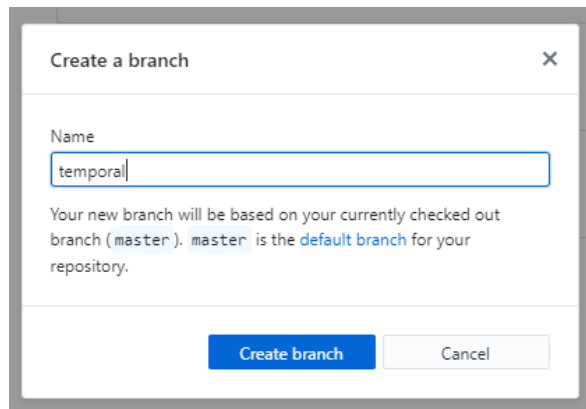
7. 실험2 (branch 사용법) : 협업을 위해 규칙을 정합니다.

규칙1) 'master' branch 에서는 완성된 코드만 저장합니다.



규칙2) 각자 작업하는 코드는 다른 branch 'temporal' 에 저장합니다.

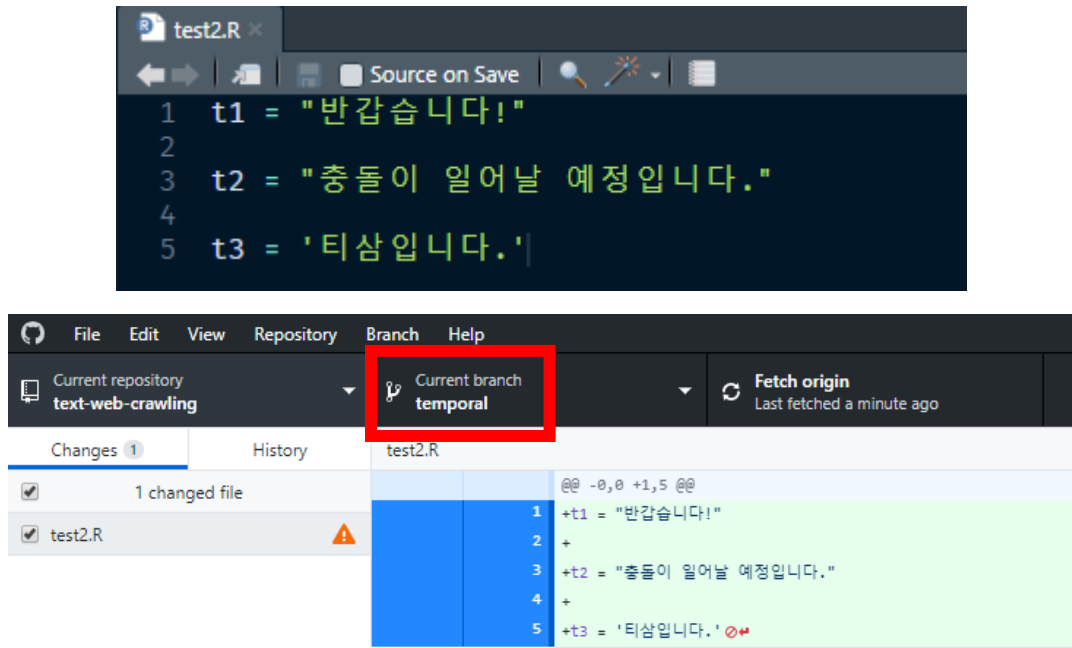
새로운 Branch 는 Branch > New branch 를 통해 만들 수 있습니다.



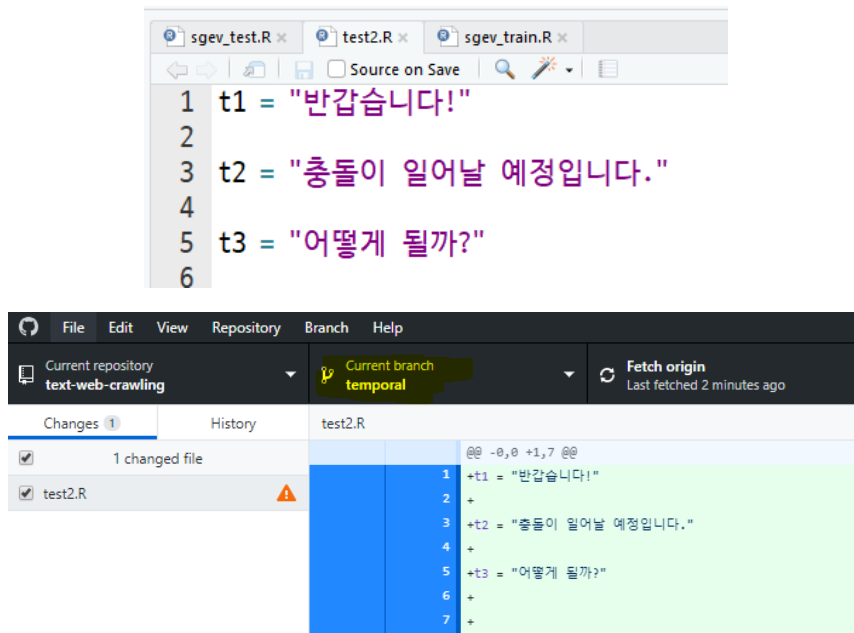
7-1) repository에 올려져 있던 코드입니다. (in 'master' branch)

```
sgev_test.R x test2.R* x sgev_train.R x
← → | | | Source on Save | 🔍 |
1 t1 = "반갑습니다!"
2
3 t2 = "충돌이 일어날 예정입니다."
4
```

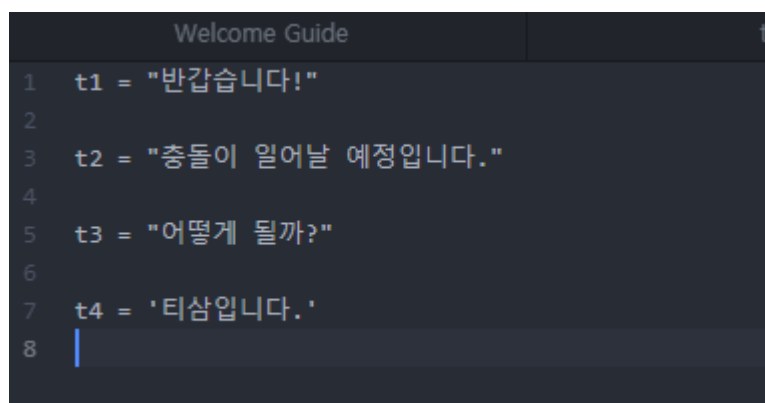
7-2) 유저1는 코드를 수정하여 'temporal' branch를 통해 push 합니다.



7-3) 동시간대 유저2도 같은 코드를 수정하고 'temporal' branch에 push 합니다.



7-4) 충돌이 생겨 atom을 통해 코드를 수정하였습니다. (6-4, 6-5 참고)



7-5) 다 완성된 코드를 master에 올리하고자 합니다.

Github 웹에서 Pull requests > New pull request 를 누르고 'temporal'에서 'master'로 업데이트를 요청

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: master ← compare: temporal X Can't automatically merge. Don't worry, you can still create the pull request.

update plz master!

Write Preview AA B i “ <> @

1) user1 added t3
2) user2 added t4

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

7-6) master와의 충돌이 있다면 (Resolve conflicts) 해결하고 (Mark as resolved) Commit merge) 클릭!

Add more commits by pushing to the **temporal** branch on **12jeong/text-web-crawling**.

This branch has conflicts that must be resolved
Use the [web editor](#) or the [command line](#) to resolve conflicts.

Conflicting files
test2.R

Merge pull request

You can also open this in [GitHub Desktop](#) or view [command line instructions](#).

12jeong / text-web-crawling

<> Code Issues 0 Pull requests 1 Projects 0 Wiki Security Insights Settings

update plz master! #6
Resolving conflicts between **temporal** and **master** and committing changes to **temporal**

1 conflicting file

test2.R

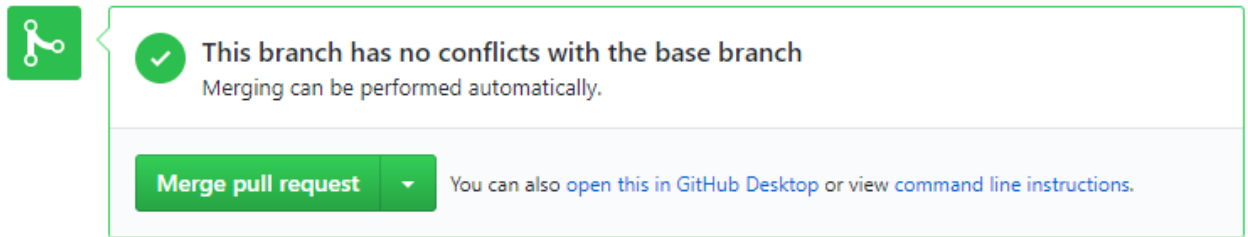
```
test2.R
1 t1 = "반갑습니다!"
2
3 t2 = "충돌이 일어날 예정입니다."
4
5 <<<<<< temporal
6 t3 = "어떻게 될까?"
7
8 t4 = "티샵입니다."
9 =====
10 >>>>>> master
11
```

test2.R

```
1 t1 = "반갑습니다!"
2
3 t2 = "충돌이 일어날 예정입니다."
4
5 t3 = "어떻게 될까?"
6
7 t4 = "티샵입니다."
8
```

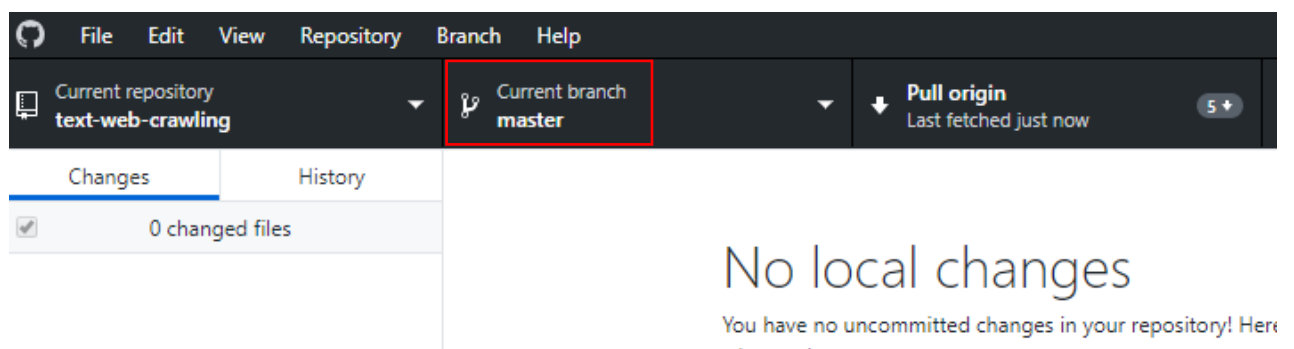
7-7) 충돌이 없어졌다면 업데이트 (Merge pull request) Commit merge)

Add more commits by pushing to the `temporal` branch on `12jeong/text-web-crawling`.



A green notification box with a checkmark icon on the left. The text inside reads: "This branch has no conflicts with the base branch" followed by "Merging can be performed automatically." Below this is a green button labeled "Merge pull request" with a dropdown arrow. To the right of the button, it says "You can also open this in GitHub Desktop or view [command line instructions](#)."

7-8) 사용자들은 최종 코드를 'master' branch에서 받아들 수 있습니다. (Pull)



A screenshot of the GitHub Desktop application interface. The top menu bar includes "File", "Edit", "View", "Repository", "Branch", and "Help". Below the menu, the "Current repository" is set to "text-web-crawling" and the "Current branch" is "master", which is highlighted with a red box. To the right, there is a "Pull origin" button with a downward arrow and the text "Last fetched just now" and a "5+" indicator. On the left, there are tabs for "Changes" and "History", with "Changes" selected showing "0 changed files". The main area displays "No local changes" and "You have no uncommitted changes in your repository! Here".

감사합니다 😊

도움을 주신 chulhongsung님 감사합니다.