

2016 Spring

Media Interface

Week 2. Programming Environment Setup

Github Setup

Github

- <http://www.github.com> 으로 접속해 회원가입하기

- username(=id), email, 비번 정하기
- 확인 이메일이 오면 verify address를 해야 가입이 완료됨

Where software is built

Powerful collaboration, code review, and code management for open source and private projects. Public projects are always free.

Private plans start at \$7/mo.

Pick a username

Your email

Create a password

Use at least one lowercase letter, one numeral, and seven characters.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We will send you account related emails occasionally.

Want to use GitHub on your servers?

Learn more about GitHub Enterprise.

Welcome to GitHub

You've taken your first step into a larger world, **@nzguru-test2**.

 Completed
Set up a personal account

 Step 2:
Choose your plan

 Step 3:
Go to your dashboard

Choose your personal plan

Plan	Cost <small>(view in KRW)</small>	Private repositories	
Large	\$50/month	50	<button>Choose</button>
Medium	\$22/month	20	<button>Choose</button>
Small	\$12/month	10	<button>Choose</button>
Micro	\$7/month	5	<button>Choose</button>
Free	\$0/month	0	<button>Chosen</button>

Charges to your account will be made in **US Dollars**. Converted prices are provided as a convenience and are only an *estimate* based on *current* exchange rates. Local prices will change as the exchange rate fluctuates.

Don't worry, you can cancel or upgrade at any time.

Help me set up an organization next

Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees.

[Learn more about organizations.](#)

Each plan includes:

Unlimited collaborators

Unlimited public repositories

- ✓ Free setup
- ✓ HTTPS Protection
- ✓ Email support
- ✓ Wikis, Issues, Pages, & more

• 아무것도 바꾸지 않고 바로 “Finish” 버튼 누르면 생성 완료

Finish sign up



Search GitHub

Pull requests Issues Gist

+ -

x

Learn Git and GitHub without any code!

Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

Let's get started!

nzguru-test2 ▾



Welcome to GitHub! What's next? (8 minutes ago)

[Create a repository](#)

[Tell us about yourself](#)

[Browse interesting repositories](#)

[Follow @github on Twitter](#)

ProTip! Edit your feed by updating the users you [follow](#) and repositories you [watch](#).

Your repositories 0

+ New repository

You don't have any repositories yet!
[Create your first repository](#) or [learn more about Git and GitHub](#)

[Subscribe to your news feed](#)

- 가입완료 후 대문(main page)에서
“+ New repository”를 눌러서 저장소
만들기



Search GitHub

Pull requests Issues Gist



Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to dkimm@naver.com.

자신이 입력한 이메일 주소가 나옴

Didn't get the email? [Resend verification email](#) or change your email settings.

- 이런 화면이 보인다면 받은편지함에 가서 github에서 보낸 이메일을 확인 후 메일안의 링크를 눌러 인증할 것.

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



commuz ▾

Repository name



|

Great repository names are short and memorable. Need inspiration? How about **legendary-journey**.

Description (optional)

 **Public**

Anyone can see this repository. You choose who can commit.

 **Private**

You choose who can see and commit to this repository.

Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository

- Repository name에 “본인ID.github.io”를 입력 (예를 들어, ID가 commuz라고 한다면, “commuz.github.io”를 넣는 것.)

Create a new repository

A repository contains all the files for your project.

Owner



commuz ▾

Repository name

commuz.github.io

Great repository names are short and memorable.

Description (optional)

commuz website

Public

Anyone can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **MIT License** ▾



Create repository

- README.me를 체크하면 위에 “Description (optional)”에 써둔 프로젝트의 설명 글이 자동으로 메인화면에 뜸. 나중에 고칠수도 있음.
- Add a licence 는 안골라도 되지만, 나중에 내가 만든 git의 상업적인 허용을 불허하고 싶다면 추가해도 됨.
- Add .gitignore 는 무시하고 싶은 파일이 있으면 고르는 메뉴로, 지금은 선택안하셔도 됩니다 (git+ignore의 합성어에요).

- 참고로 저는 그냥 습관적으로 MIT 라이센스를 고릅니다. 별 이유는 없고 같은 학교니까 연구할 때 좋을 것 같다는 막연한 (근거없는) 이유입니다 :)

[Code](#)[Issues 0](#)[Pull requests 0](#)[Wiki](#)[Pulse](#)[Graphs](#)[Settings](#)

commuz homepage — Edit

3 commits

1 branch

0 releases

1 contributor

Branch: master

[New pull request](#)[New file](#)[Upload files](#)[Find file](#)

HTTPS

<https://github.com/commuz>[Download ZIP](#)

commuz first commit

Latest commit 98ef77f 7 hours ago

LICENSE

Initial commit

8 hours ago

README.md

Update README.md

7 hours ago

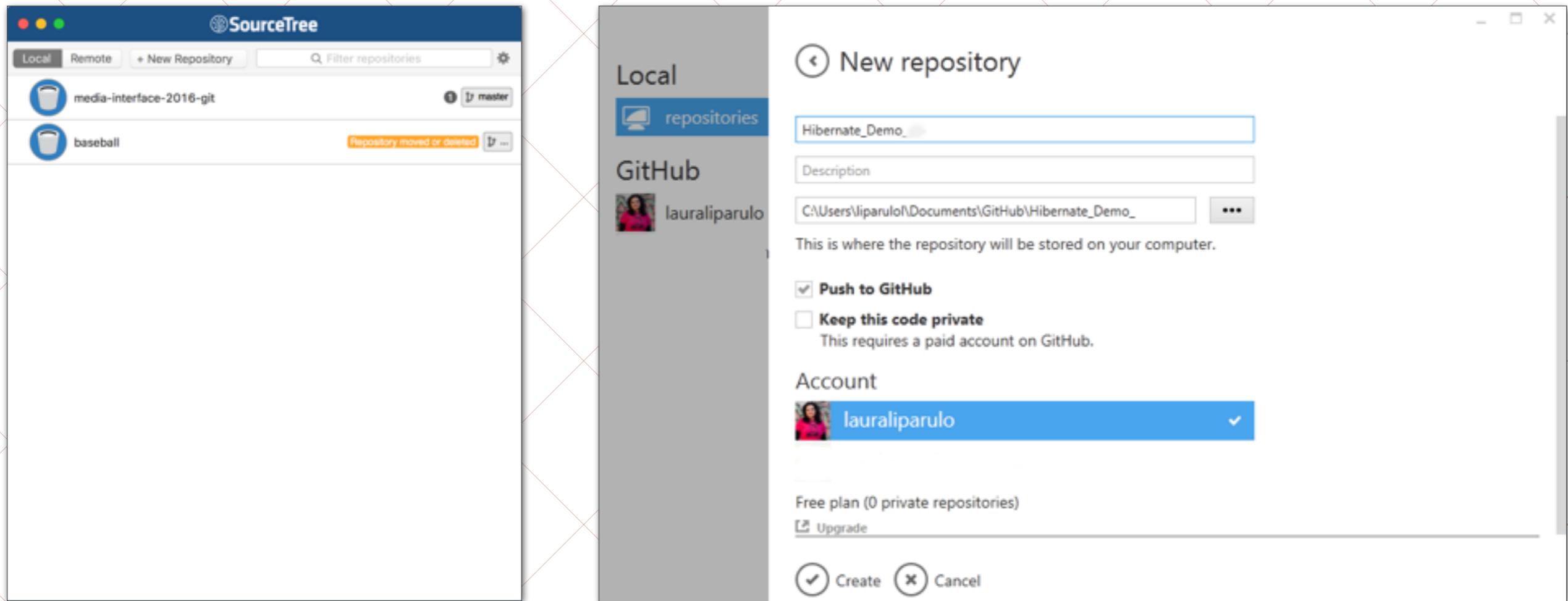
README.md

- 본인ID.github.io라는 repository가 생김
- 내 git의 URL이고, 이 버튼을 누르면 URL을 복사해둘 수 있음 (CTRL+C와 같음).

commuz.github.io

commuz homepage hello world

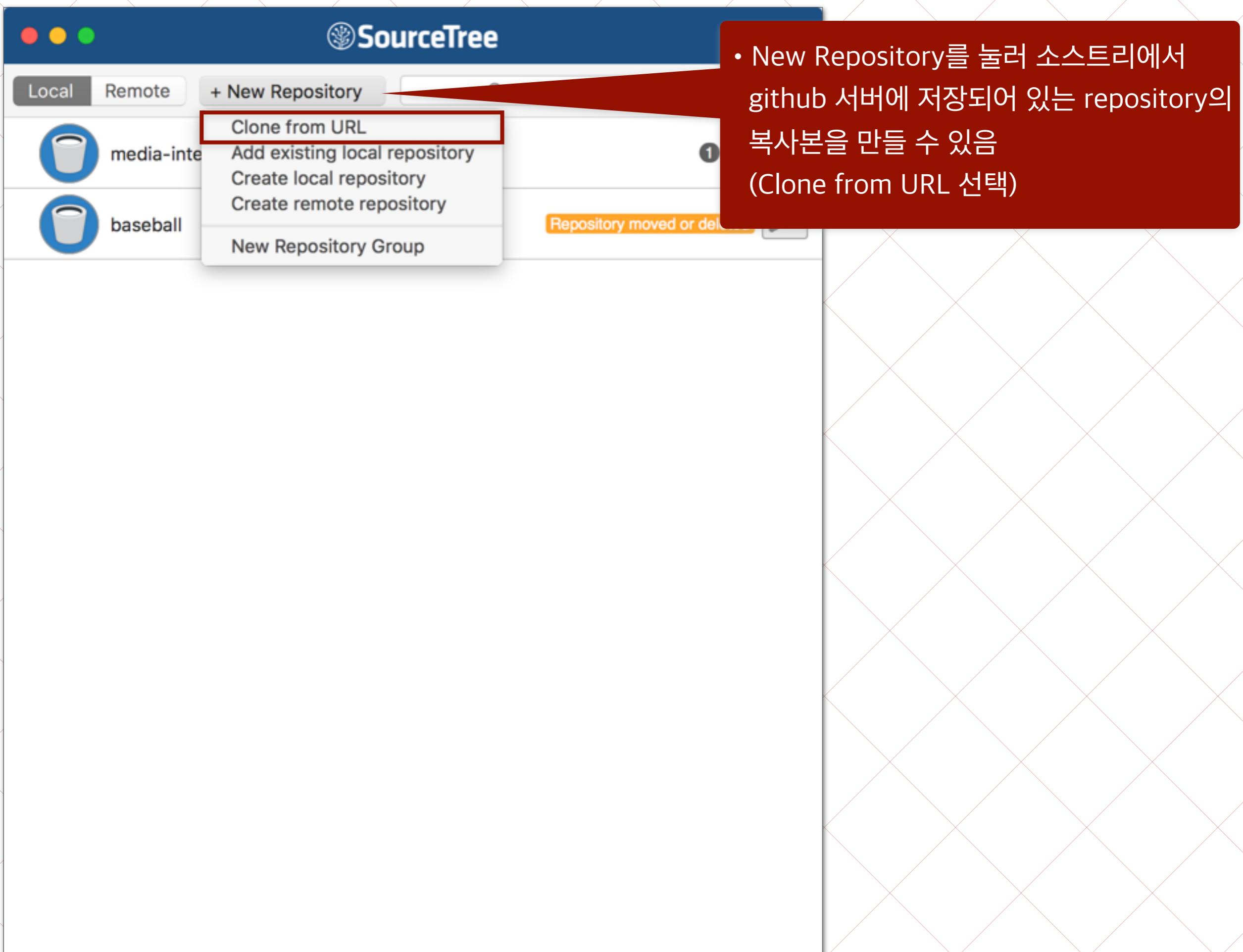
Github Client Setup



Mac 유저는 www.sourcetreeapp.com에서
SourceTree 앱을 받는 것을 추천

* SourceTree를 받는 경우 별도의 회원가입이
필요함

Windows, Mac 유저 모두 “Github
Desktop”을 받을 수 있음





Clone a repository

Cloning is even easier if you set up a [remote account](#).

Source URL:

Destination Path:

 ...

Name:

► Advanced Options

Cancel

Clone

⚠ This is not a valid source path / URL

- 아까 복사해 둔 git의 URL을 붙여넣기로 입력 (CTRL+V와 같음)



Clone a repository

Cloning is even easier if you set up a [remote account](#).

Source URL:

Destination Path: ...

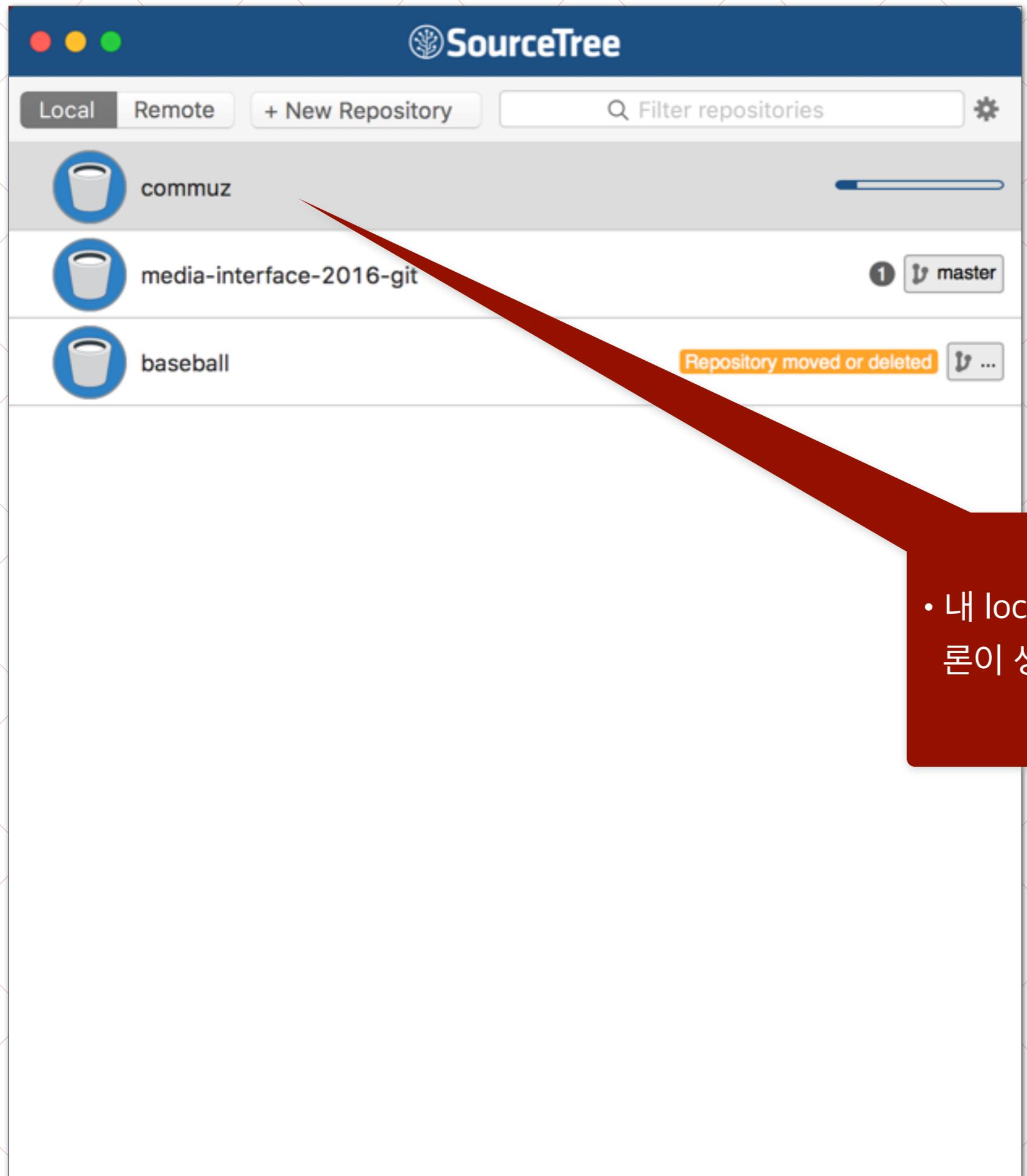
Name:

[▶ Advanced Options](#)

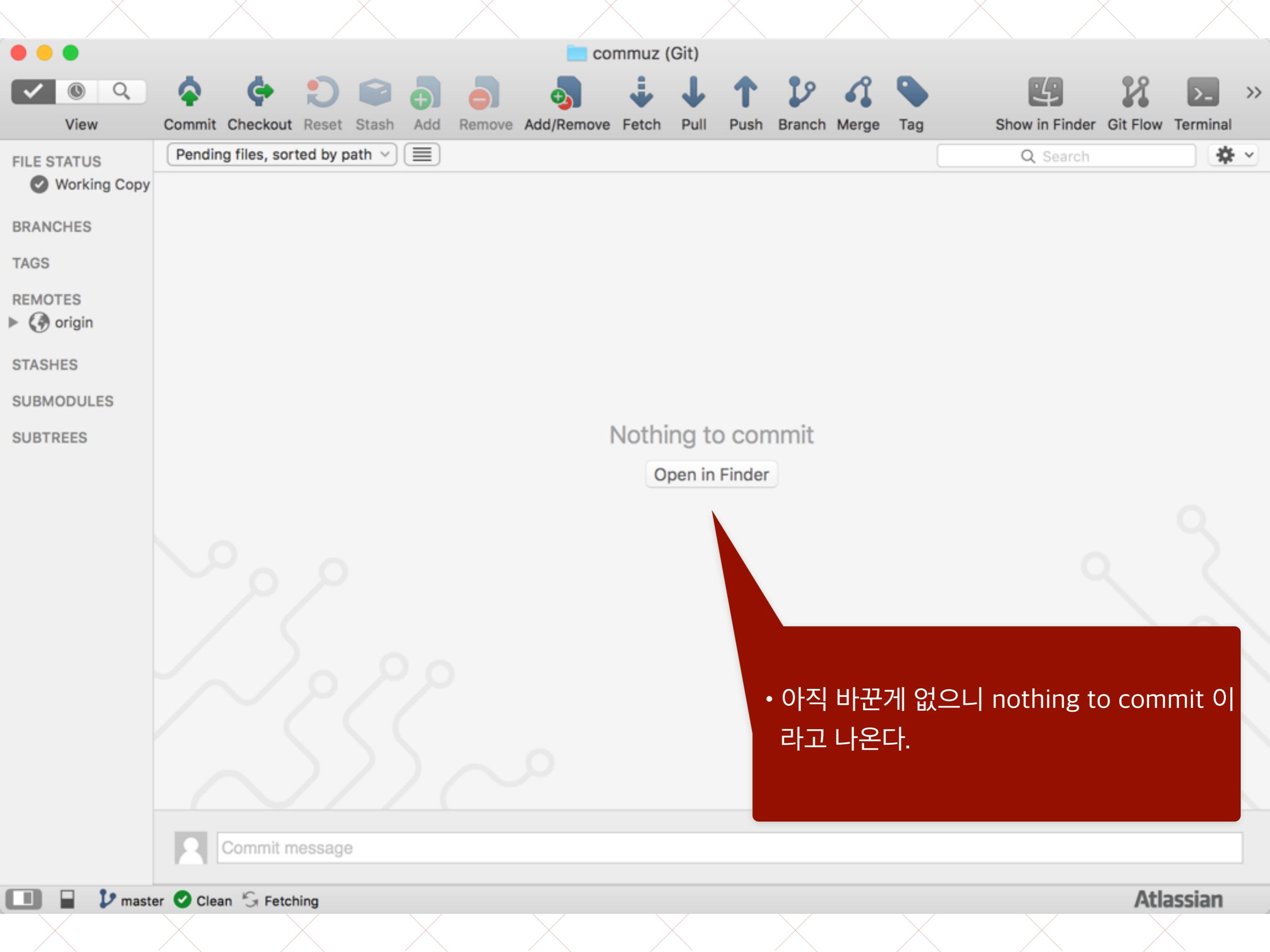
This is a Git repository

Cancel Clone

- Source URL란에 입력하고 탭을 누르면 밑에 두 칸은 자동으로 생성됨. 내 하드 드라이브에 저장되는 폴더의 이름과 위치를 바꿔서 저장할 수도 있음.



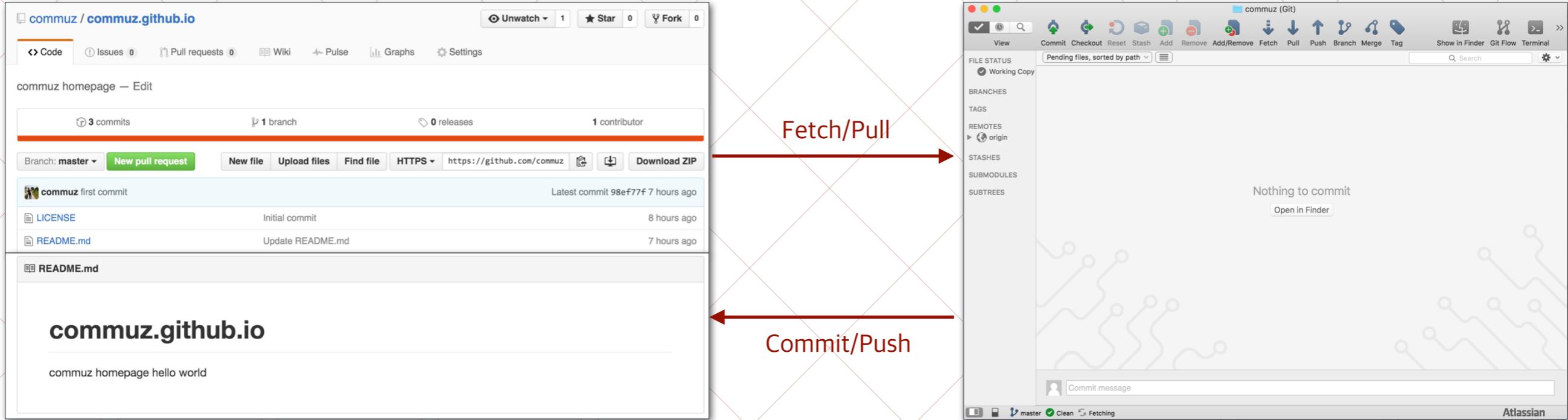
- 내 local에 github에 만든 repository의 클론이 생김.



- 아직 바꾼게 없으니 nothing to commit 이라고 나온다.



Commit message



서버에 있는 git repository (위의 경우 www.github.com에 있는 commuz.github.io를 말함)와 내 컴퓨터에서 실행 중인 소스 트리 혹은 깃허브 데스크탑이 서로 싱크를 맞추는데에는 2가지 방법이 있음.

1. 서버에서 파일을 수정해서 내 데스크탑으로 수정 사항을 ‘받는’ 경우
 1. ‘Fetch’ 혹은 ‘Pull’의 개념이 사용됨.
2. 내 데스크탑에서 수정 사항이 생겨 서버로 싱크가 필요한 경우
 1. ‘Commit’ 혹은 ‘Push’의 개념이 사용됨.

먼저 Fetch/Pull이 필요한 경우를 살펴보자면:

commuz / commuz.github.io

Unwatch 1 Star 0

Fork 0

Code

Issues 0

Pull requests 0

Wiki

Pulse

Graphs

Settings

commuz website — Edit

1 commit

1 branch

0 releases

1 contributor

Branch: master

New pull request

New file

Upload files

Find file

HTTPS

<https://github.com/commuz>



Download ZIP

commuz Initial commit

Latest commit 57a8d3f 14 minutes ago

LICENSE

Initial commit

14 minutes ago

README.md

Initial commit

14 minutes ago

README.md

commuz.github.io

commuz website

- Click 하기.
- Repository의 어떤 파일이건, 마우스로 누르면 그 파일의 detail view로 이동함.

 Code

 Issues 0

 Pull requests 0

 Wiki

 Pulse

 Graphs

 Settings

Branch: master ▼

[commuz.github.io / README.md](#)

[Find file](#) [Copy path](#)

 commuz Initial commit

57a8d3f 16 minutes ago

1 contributor

3 lines (2 sloc) | 34 Bytes

Raw

Blame

History

Edit this file



commuz.github.io

commuz website

- 파일 수정

The screenshot shows a GitHub repository page for 'commuz / commuz.github.io'. The user is editing the 'README.md' file. The code editor contains the following content:

```
1 # commuz.github.io
2 commuz website
3
```

At the top of the editor, there are buttons for 'Edit file' and 'Preview changes'. Below the editor are settings for 'Spaces', '2', and 'Soft wrap'. A red callout box highlights the 'Edit file' button with the text: '• Edit 화면에서는 새로운 정보를 입력해서 저장할 수 있음' (In the edit screen, you can enter new information and save it).

The screenshot shows the 'Commit changes' dialog box. It includes fields for 'Update README.md' and an optional extended description. At the bottom, there are two radio button options: 'Commit directly to the master branch' (selected) and 'Create a new branch for this commit and start a pull request'. A red callout box highlights the 'Commit changes' button with the text: '• 내용을 수정한 후 Commit changes 버튼을 누르려해도 비활성화 되어 있어서 누를 수 없게 되어있는데, 바로 위에 'Commit changes'라는 부분에 어떤 걸 바꾼 건지 간략한 메모를 적게 되어 있음. 이걸 적어야 버튼이 누를 수 있게 바뀜 (다른 사람들에게 이번 commit에서는 뭘 했다고 알리기 위한 용도)' (When trying to click the 'Commit changes' button after modifying content, it is disabled because it cannot be clicked. Above the button, there is a note about what was changed, which needs to be typed in to enable the button (for notifying others about the changes made)).



Commit changes

Update README.md

first edit|

- Commit directly to the `master` branch
- Create a **new branch** for this commit and start a pull request. [Learn more](#)

Commit changes

Cancel

• 이유를 적으면 밑에 버튼이 활성화 됨.



- 다시 repository 메인 화면으로 가려면 이 링크나 밑에 '<>Code'를 누르면됨.

commuz / **commuz.github.io** 0

<> Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

Branch: master commuz.github.io / README.md Find file Copy path

commuz Update README.md 16efcbe just now

1 contributor

4 lines (3 sloc) 74 Bytes Raw Blame History

commuz.github.io

commuz website ... changes are made on the first edit.

0

commuz / commuz.github.io

Code

Issues 0

Pull requests 0

Wiki

Pulse

Graphs

commuz website — Edit

2 commits

1 branch

0 releases

1 contributor

Branch: master ▾

New pull request

New file

Upload files

Find file

HTTPS ▾

<https://github.com/commuz>



Download ZIP

commuz Update README.md

Latest commit 16efcbe 4 minutes ago

LICENSE

Initial commit

26 minutes ago

README.md

Update README.md

4 minutes ago

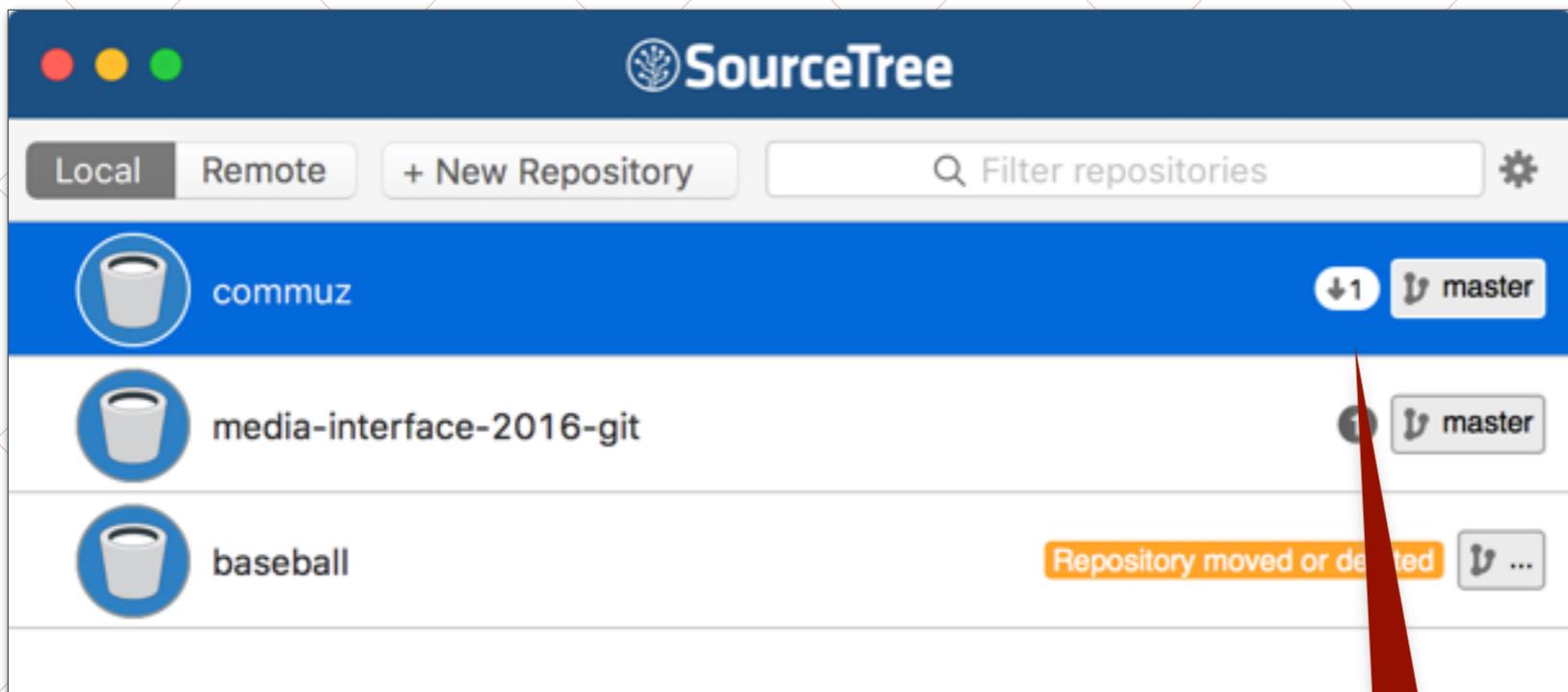
README.md

commuz.github.io

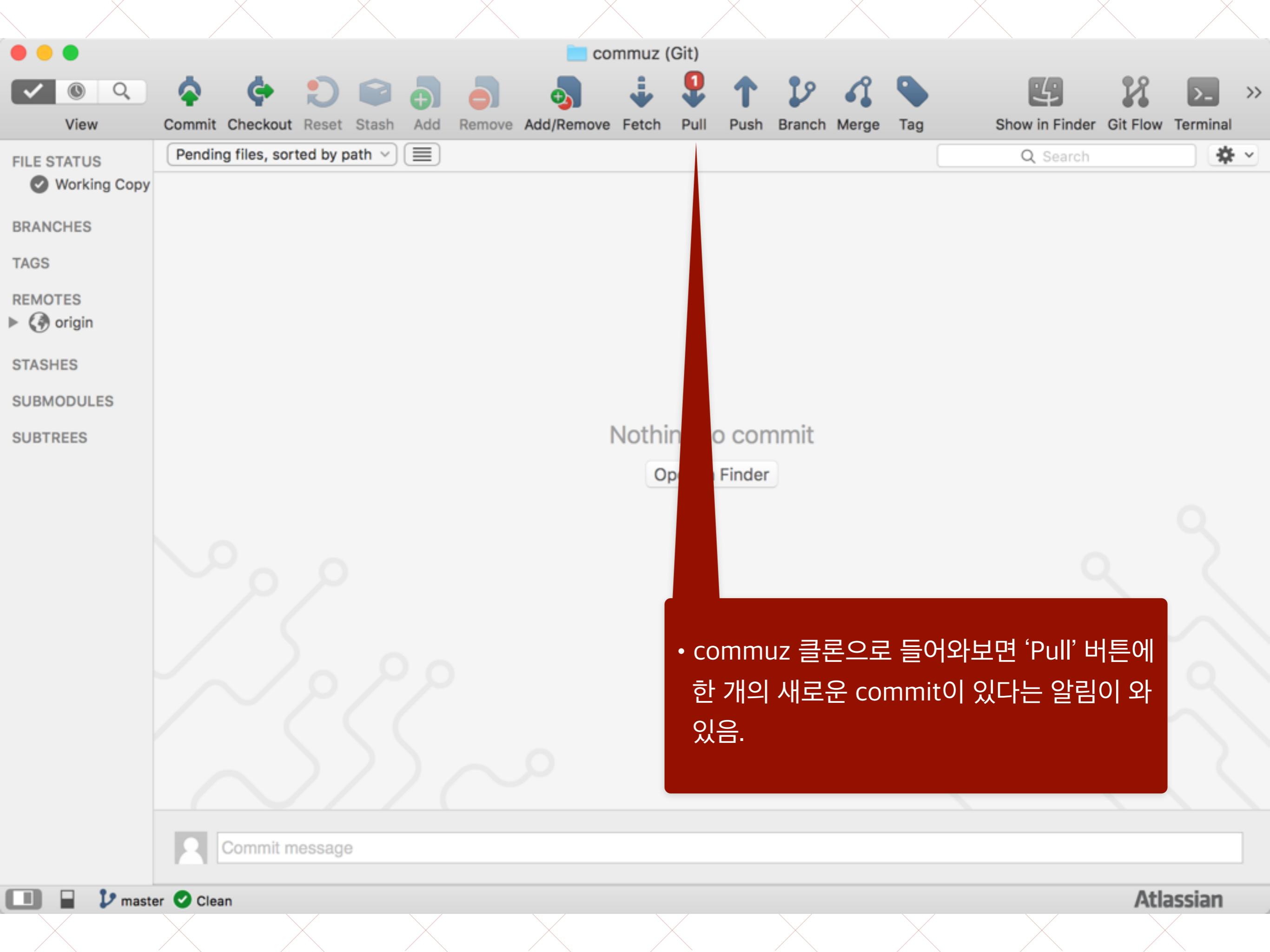
commuz website ... changes are made on the first edit.

- commit도 2개가 됨.

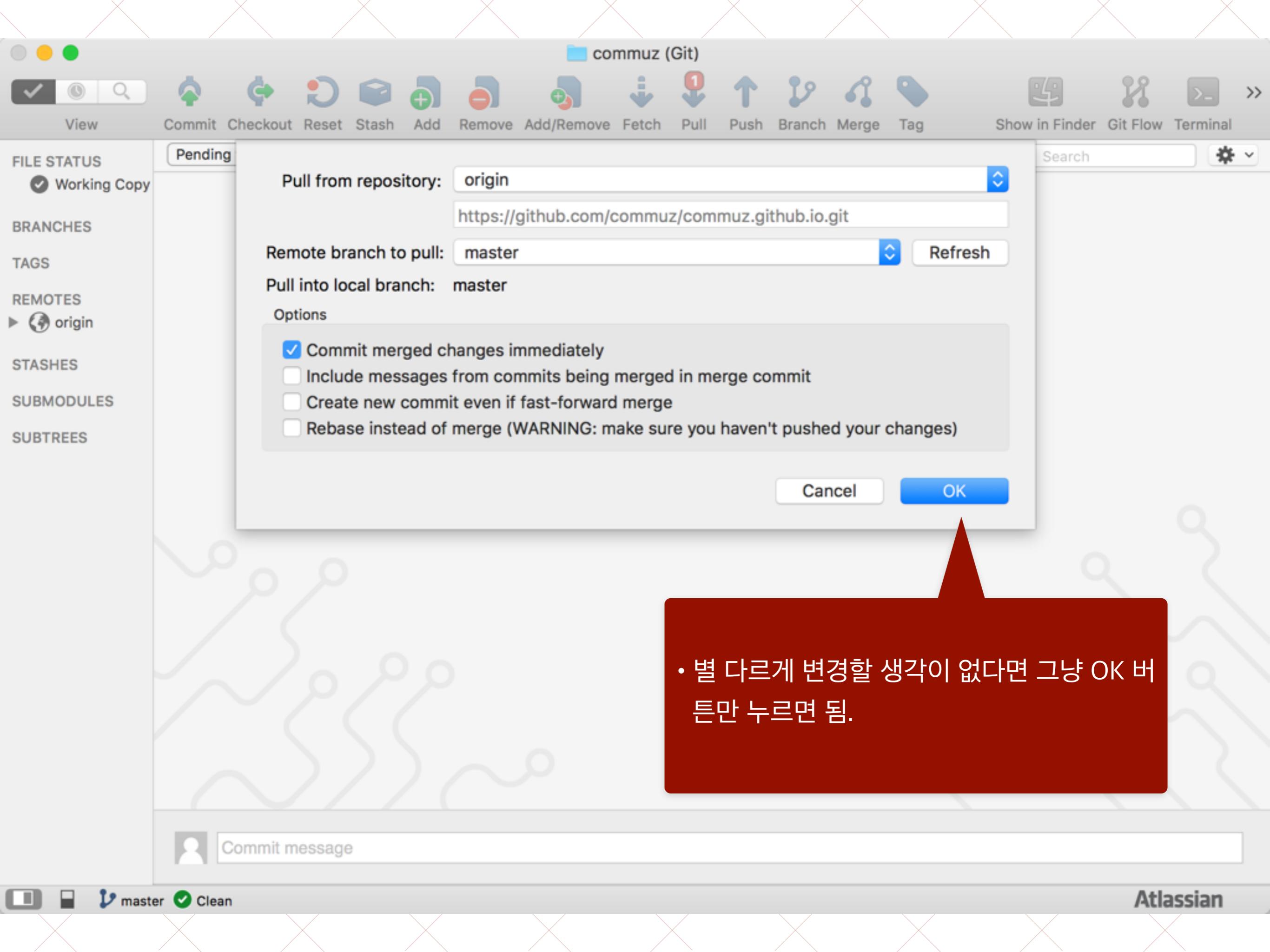
- 메인 화면으로 돌아오면 이 파일이 변한 사실을 알수 있음.



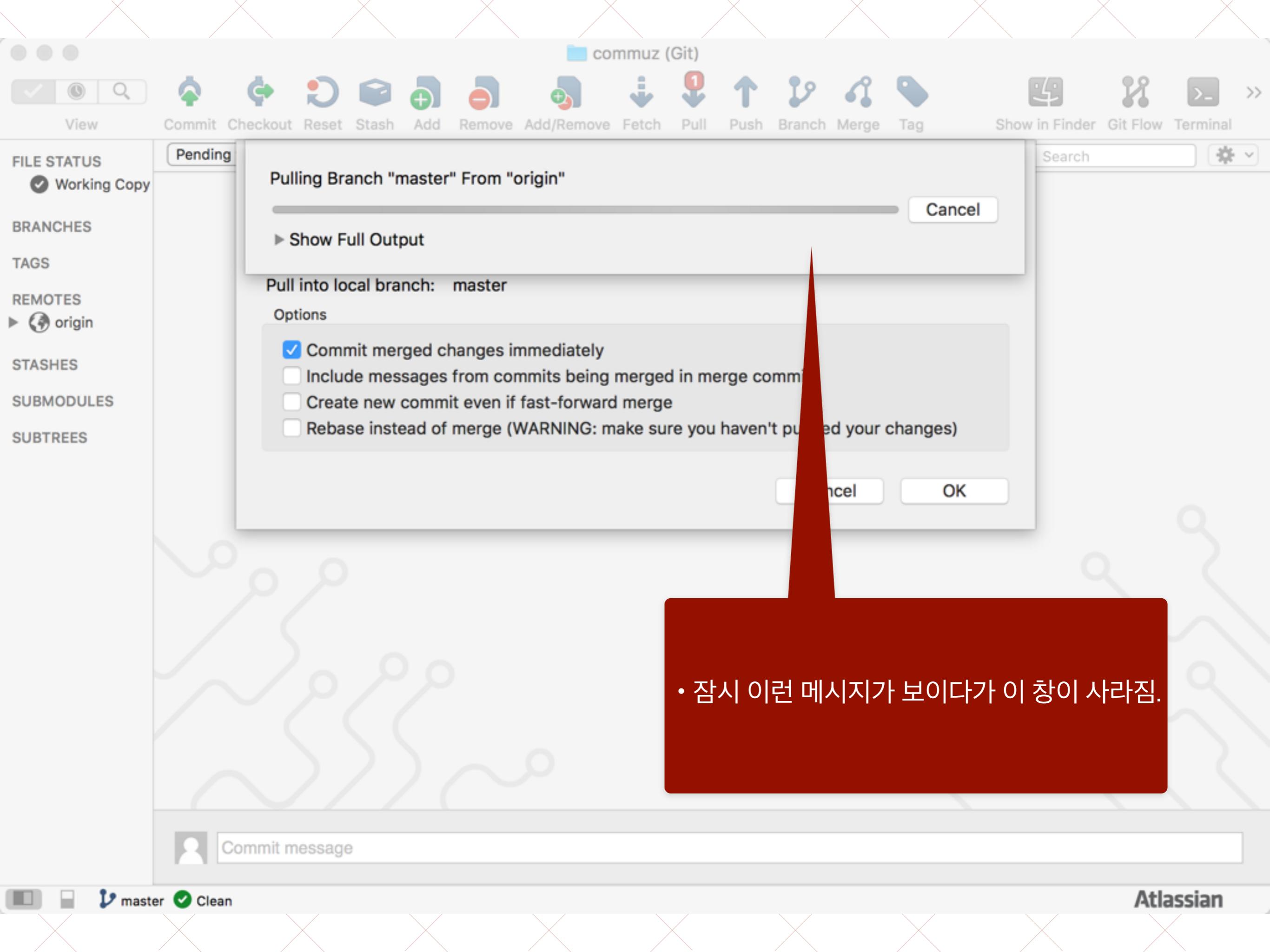
- 1 new commit to pull from ‘master’ for ‘commuz’라는 메시지와 함께, 서버에서 pull (땡겨올) 변경이 생겼다고 알려줌.

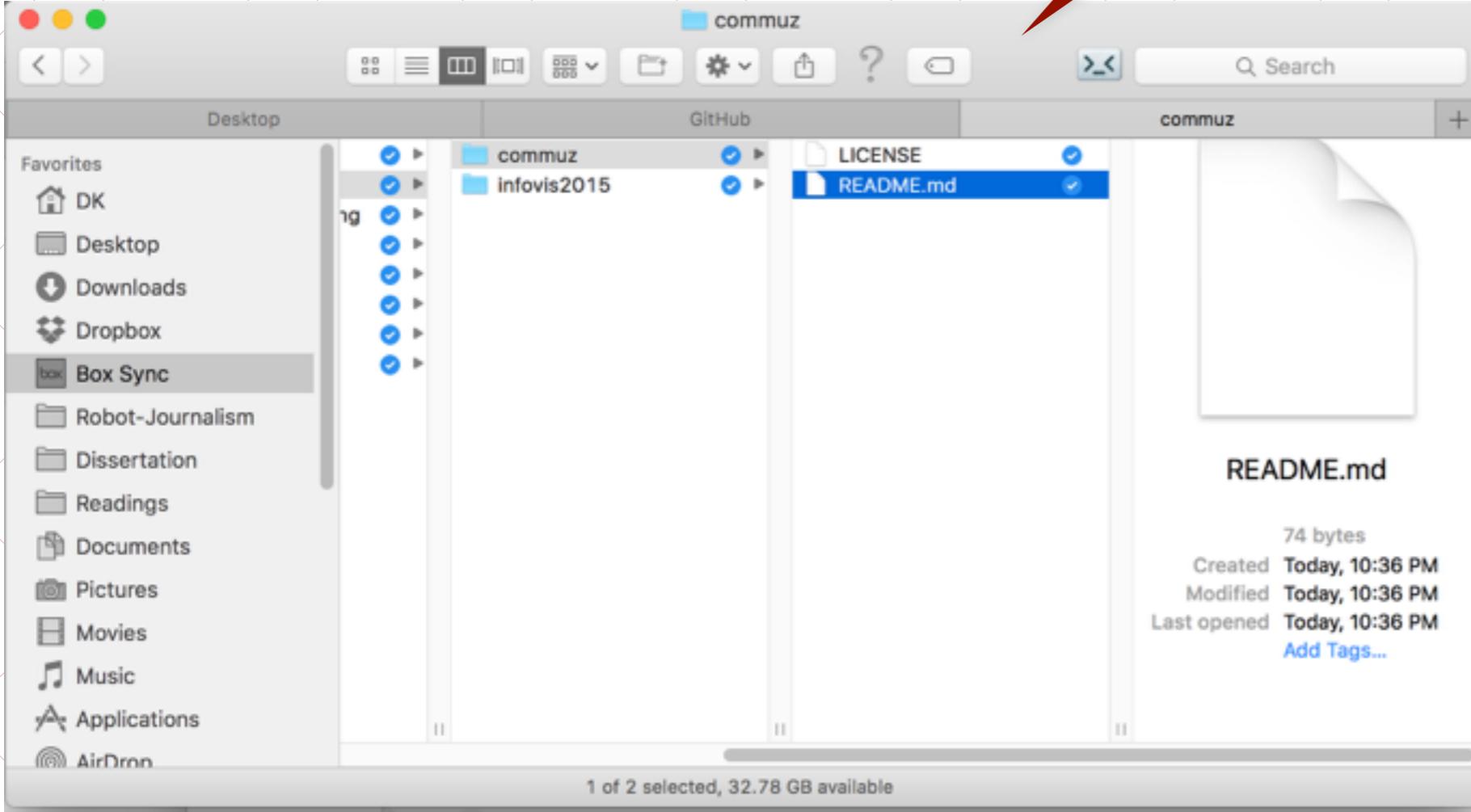
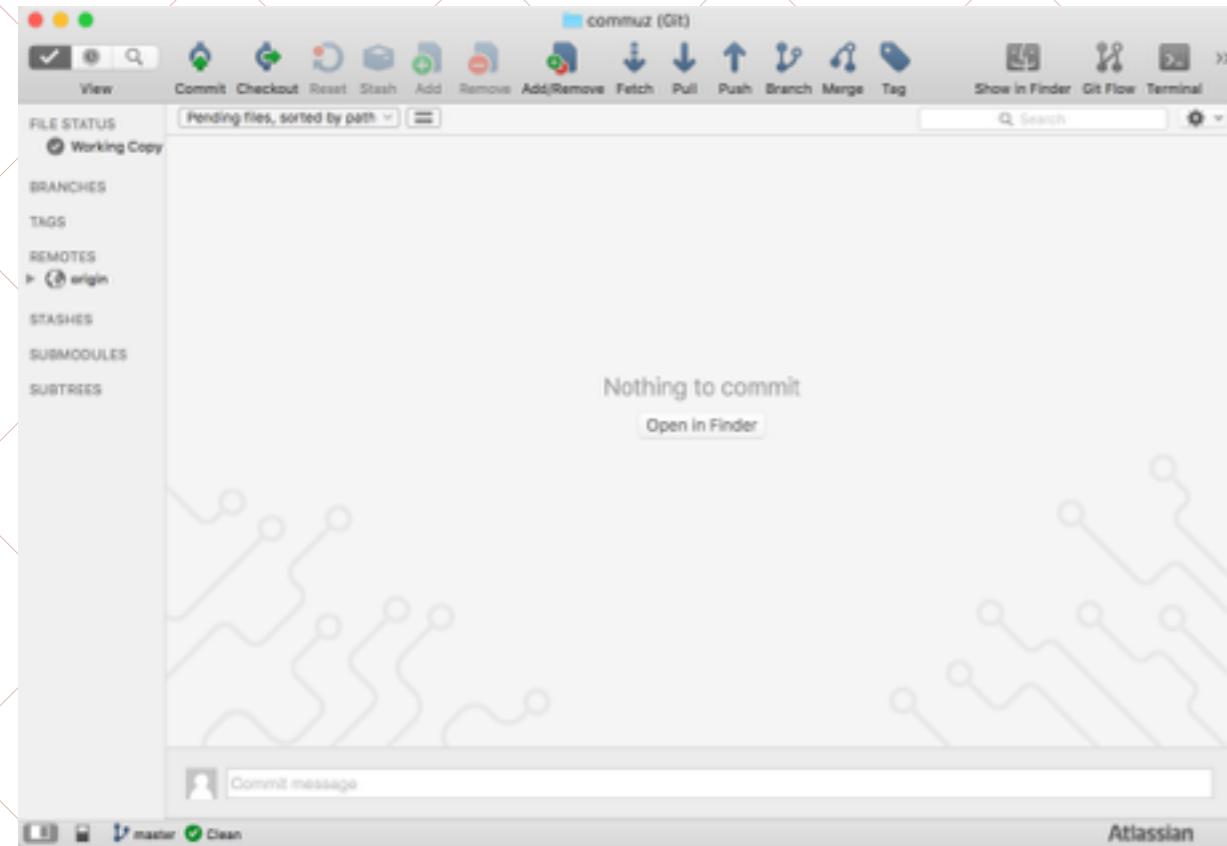


- commuz 클론으로 들어와보면 ‘Pull’ 버튼에 한 개의 새로운 commit이 있다는 알림이 와 있음.



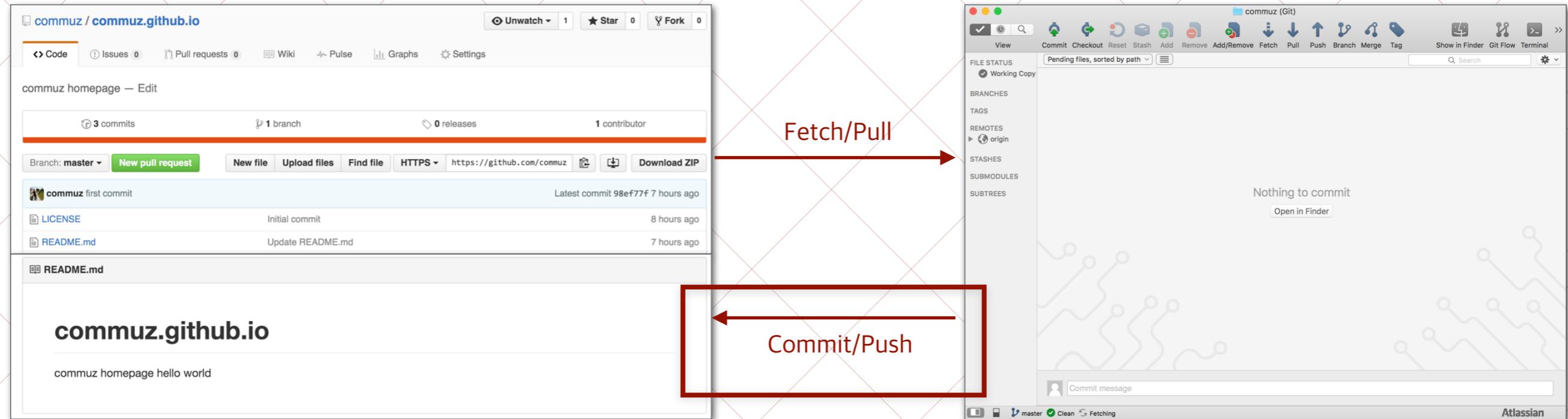
- 별 다르게 변경할 생각이 없다면 그냥 OK 버튼만 누르면 됨.



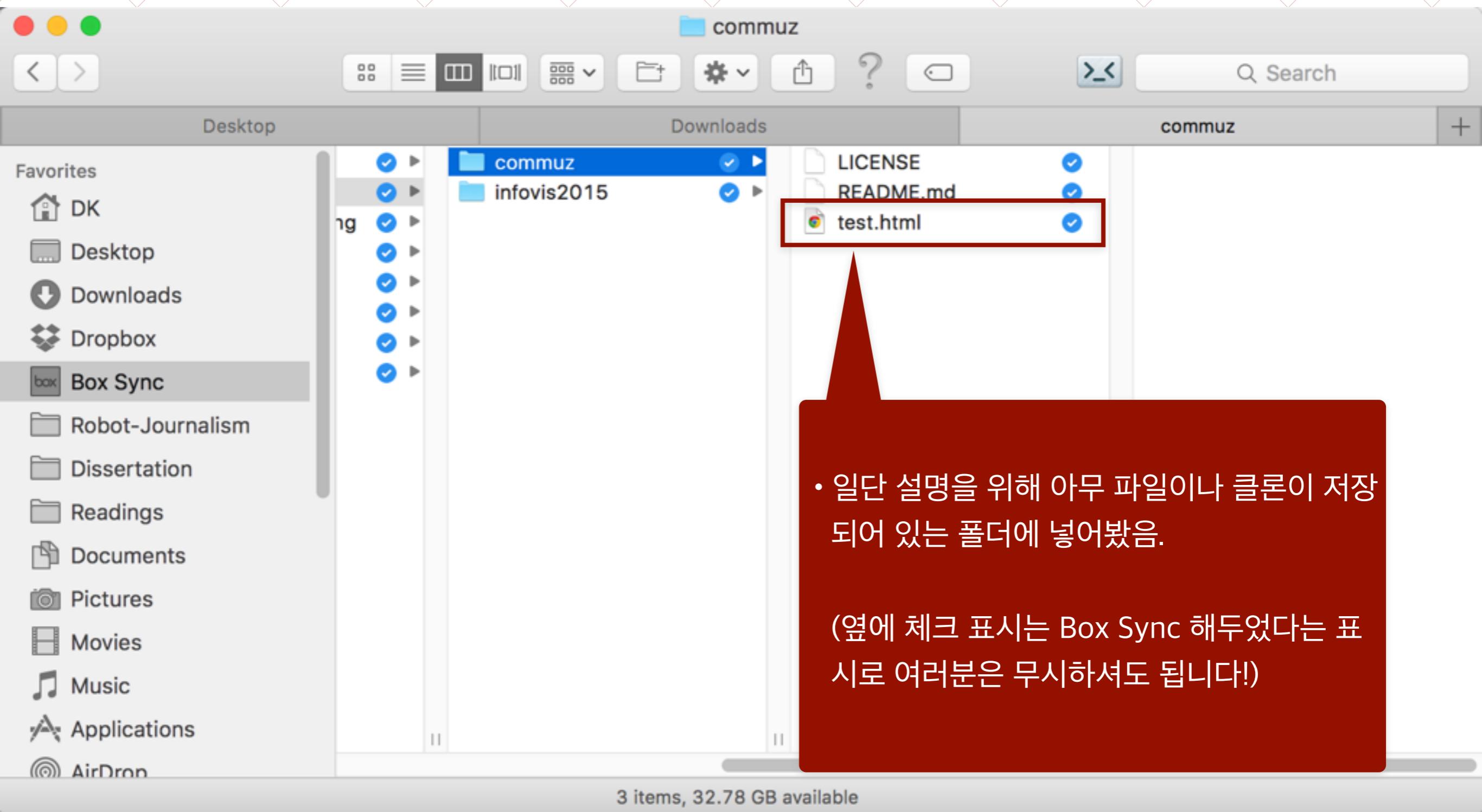


- 소스트리에는 변한게 없어 보이지만, 내 컴퓨터에 폴더에 가보면 해당 파일이 새로 업데이트된 사실을 알 수 있음.

… 이 슬라이드를 만든 시간이 10:36분이라는 얘기네요.. :)



자 그럼 반대로 내 컴퓨터에서 파일을 올려서 서버에 싱크를 하는 경우.



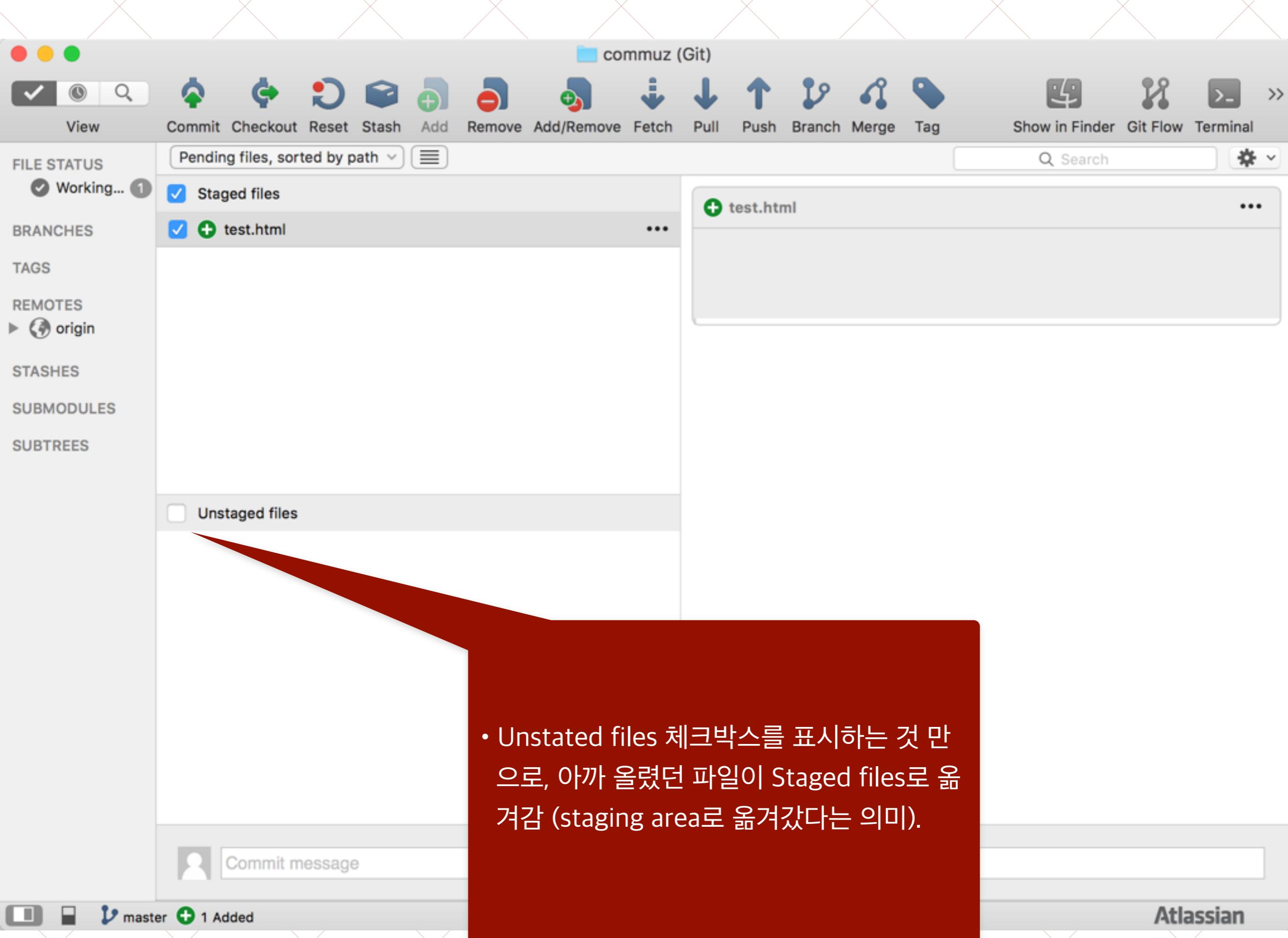
The screenshot shows the Commuz (Git) application window. The top menu bar includes View, Commit, Checkout, Reset, Stash, Add, Remove, Add/Remove, Fetch, Pull, Push, Branch, Merge, Tag, Show in Finder, Git Flow, and Terminal. The left sidebar lists FILE STATUS (Working..., 1; Staged files checked), BRANCHES (origin), TAGS, REMOTES, STASHES, SUBMODULES, and SUBTREES. The main area displays pending files: test.html (Untracked binary file). A red callout box highlights the 'test.html' entry in the unstaged files list. The commit message field at the bottom is empty.

- 소스트리에 와보면 이렇게 변경된 파일이 있다고 알려줌.
- 현재 상태는 ‘unstaged’ 상태

Commit message

master Clean 1 Not Tracked

Atlassian



The screenshot shows the Commuz (Git) application window. At the top, there's a toolbar with various Git operations: Commit, Checkout, Reset, Stash, Add, Remove, Add/Remove, Fetch, Pull, Push, Branch, Merge, Tag, Show in Finder, Git Flow, and Terminal. The 'Commit' button is highlighted with a red box and a large red arrow pointing towards the commit dialog. On the left, there are sections for FILE STATUS, BRANCHES, TAGS, REMOTES, STASHES, SUBMODULES, and SUBTREES. The FILE STATUS section shows 'Pending files, sorted by path': Working... (1), Staged files (1), and test.html (1). The test.html file is marked with a green plus sign and has a status of '+'. Below these are Unstaged files and a checkbox for Unstaged files.

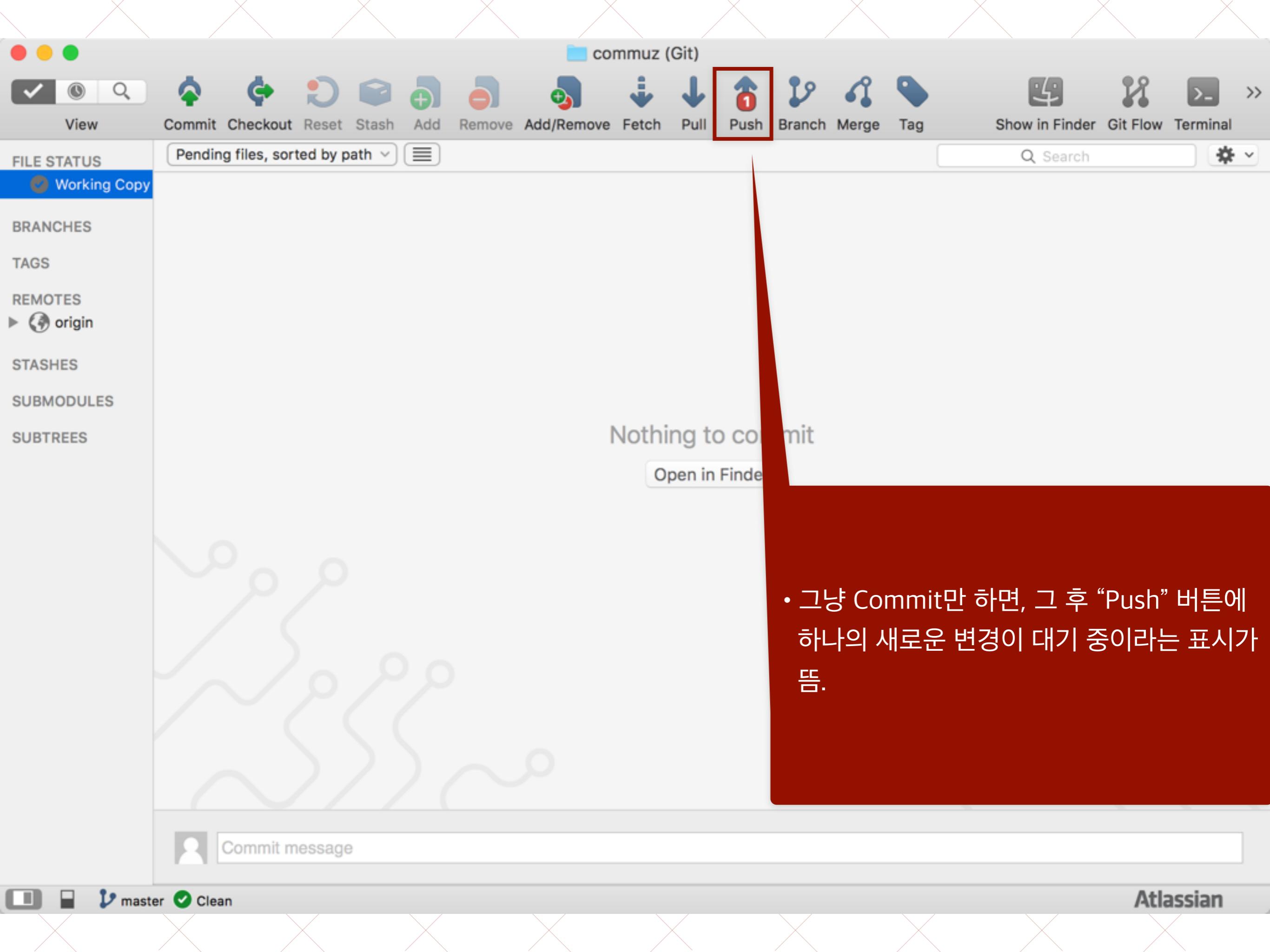
- Commit 버튼을 누르면 밑에 이번 변경의 이유를 적는 칸이 나타남.
- 아까 서버에서와는 다르게 이유를 안적어도 Commit이 가능함 (권장하지는 않는다는 메시지 창이 뜹).

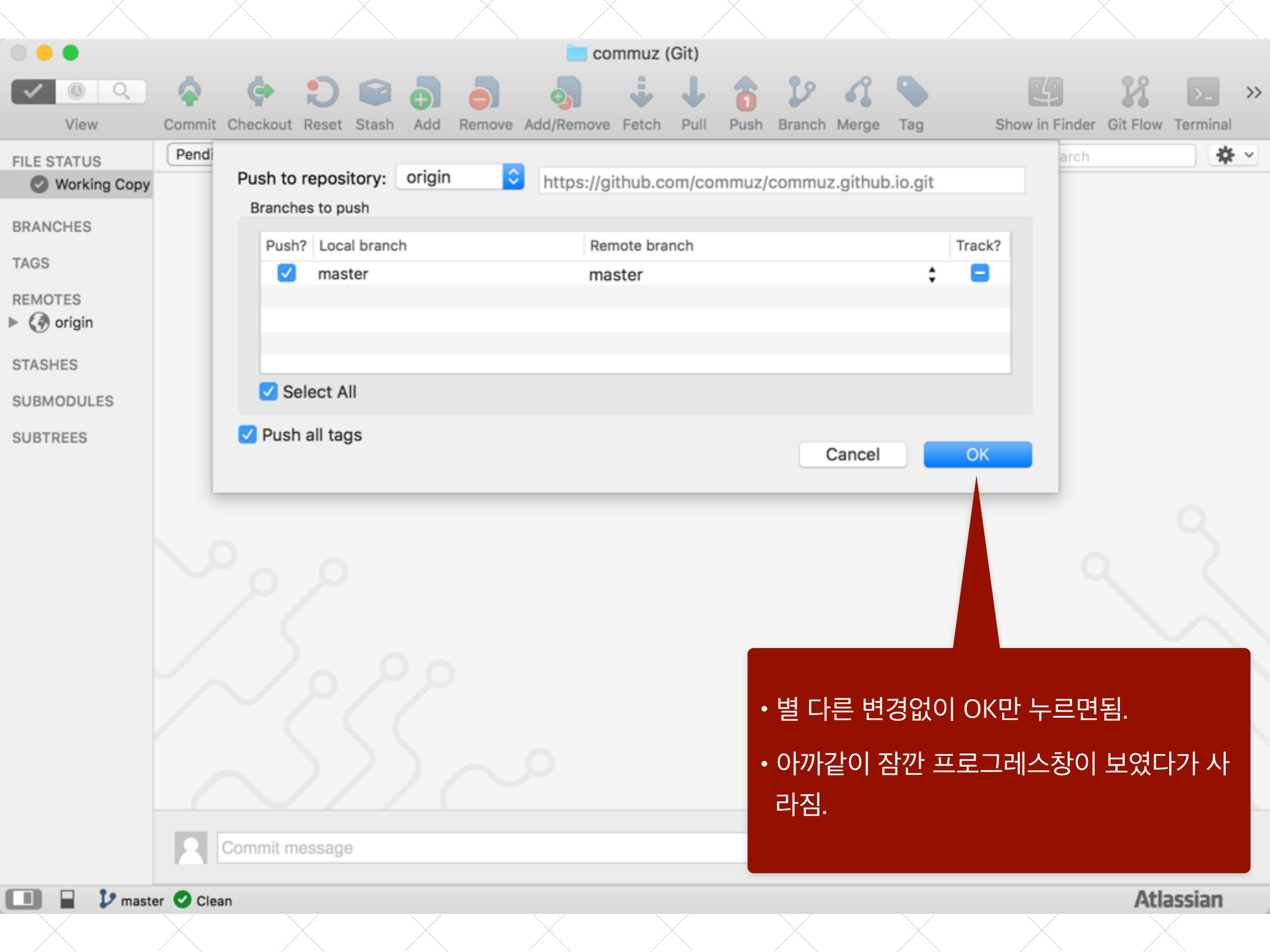
- 이 체크박스를 선택하면 Commit과 동시에 서버로 싱크됨. 즉, “Push”버튼을 누르는 것과 같은 효과.

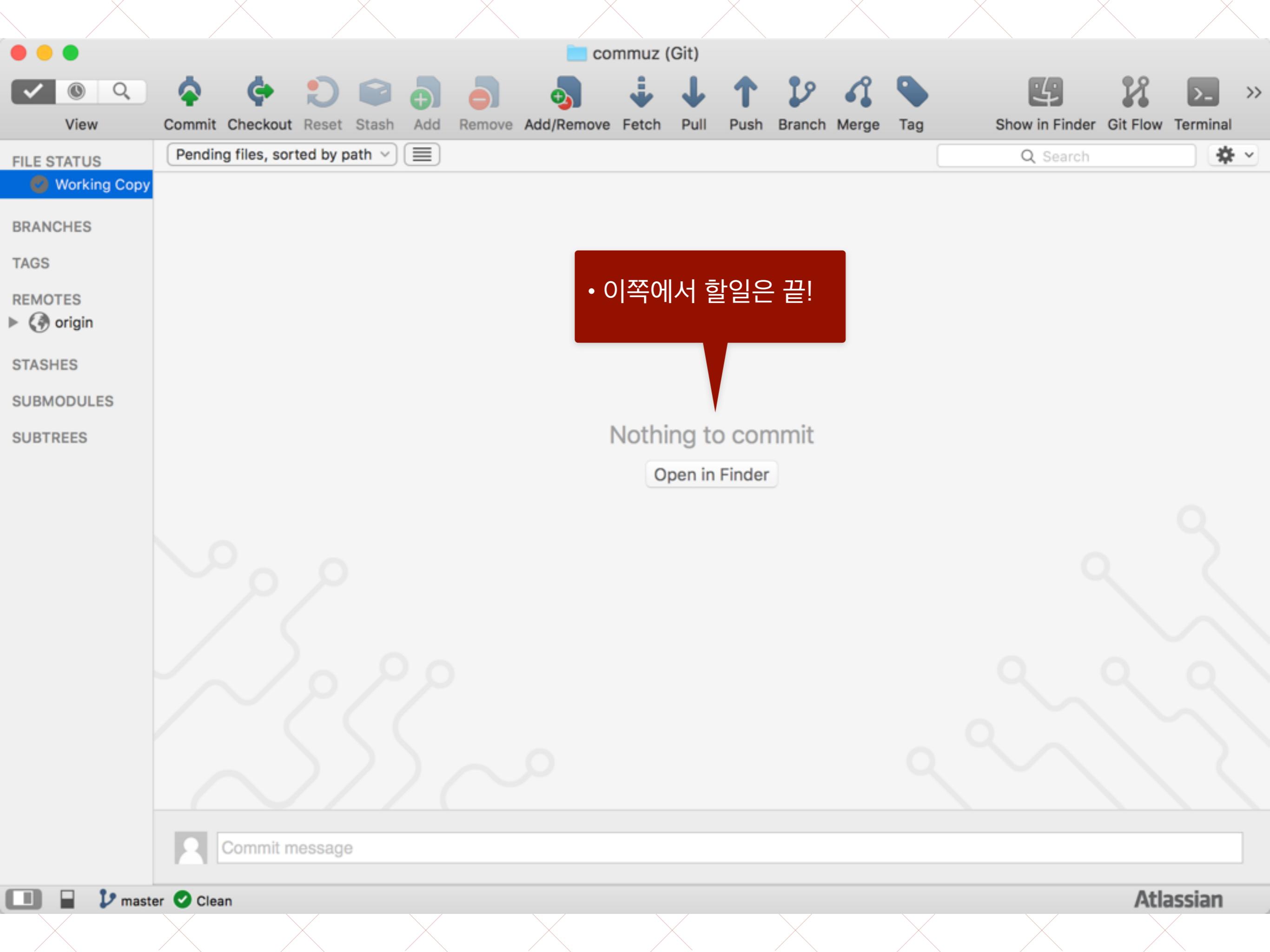
A commit dialog box is open. It contains the author information: 'dongwhan Kim <dongwhan.kim@hotmail.com>'. There are buttons for 'Commit options...' and 'Commit'. At the bottom, there is a checkbox labeled 'Push changes immediately to origin/master' with a red border around it. A red arrow points from the 'Commit' button in the main interface to this checkbox in the dialog.

master + 1 Added

Atlassian







[Code](#)[Issues 0](#)[Pull requests 0](#)[Wiki](#)[Pulse](#)[Graphs](#)[Settings](#)

commuz website — Edit

3 commits

1 branch

0 releases

1 contributor

Branch: master

[New pull request](#)[New file](#)[Upload files](#)[Find file](#)

HTTPS

<https://github.com/commuz>[Download ZIP](#)

commuz no message

Latest commit ab464d1 3 minutes ago

LICENSE

Initial commit

44 minutes ago

README.md

Update README.md

23 minutes ago

test.html

no message

3 minutes ago

README.md

commuz.github.io

commuz website ... changes are made on the first edit.

- 화면을 refresh해보면 test.html파일이 'no message'라는 commit message와 함께 올라와 있는 모습을 볼 수 있음

별로 보기 안좋으니 꼭 commit할때는 이유를 적도록 합시다 :)

HTML Text Editor

test.html — media-interface-2016-git

OPEN FILES

- sample.html
- test.html

FOLDERS

- media-interface-2016-git
 - casestudy
 - casestudy.html
 - final.html
 - index.html
 - LICENSE
 - midterm.html
 - README.md

sample.html test.html

```
1  <!DOCTYPE html>
2  <html>
3
4      <head>
5          <title> 원도우 창에 보이는 '이름' 정하기 </title>
6
7      </head>
8
9      <body>
10         <p>
11             메시지 적기...
12         </p>
13
14     </body>
15
16 </html>
17
18
19
```

Line 15, Column 5 Tab Size: 4 HTML

- 프로그래밍 언어를 사용할 때 이와 같이 에디터를 사용하면 tag를 입력할 때 색도 변하고, 자동완성 기능도 있어서 편함.

The screenshot shows the official website for Sublime Text 2. At the top, there is a header bar with links for Home, Download, Buy, Blog, Forum, and Support. The main title "Sublime Text 2" is prominently displayed in large, bold, dark font. Below it, a section titled "Download" is shown, indicating that the current version is 2.0.2. It also mentions that Sublime Text 3 is in beta and has improvements over version 2. A list of download links is provided for OS X, Windows (both 32-bit and 64-bit), and Linux (both 32-bit and 64-bit). A note at the bottom states that the software can be evaluated for free but must be purchased for continued use.

www.sublimetext.com/2

Home Download Buy Blog Forum Support

Sublime Text 2

Download

The current version of Sublime Text 2 is 2.0.2.

Sublime Text 3 is currently in beta, and contains many improvements over Sublime Text 2.

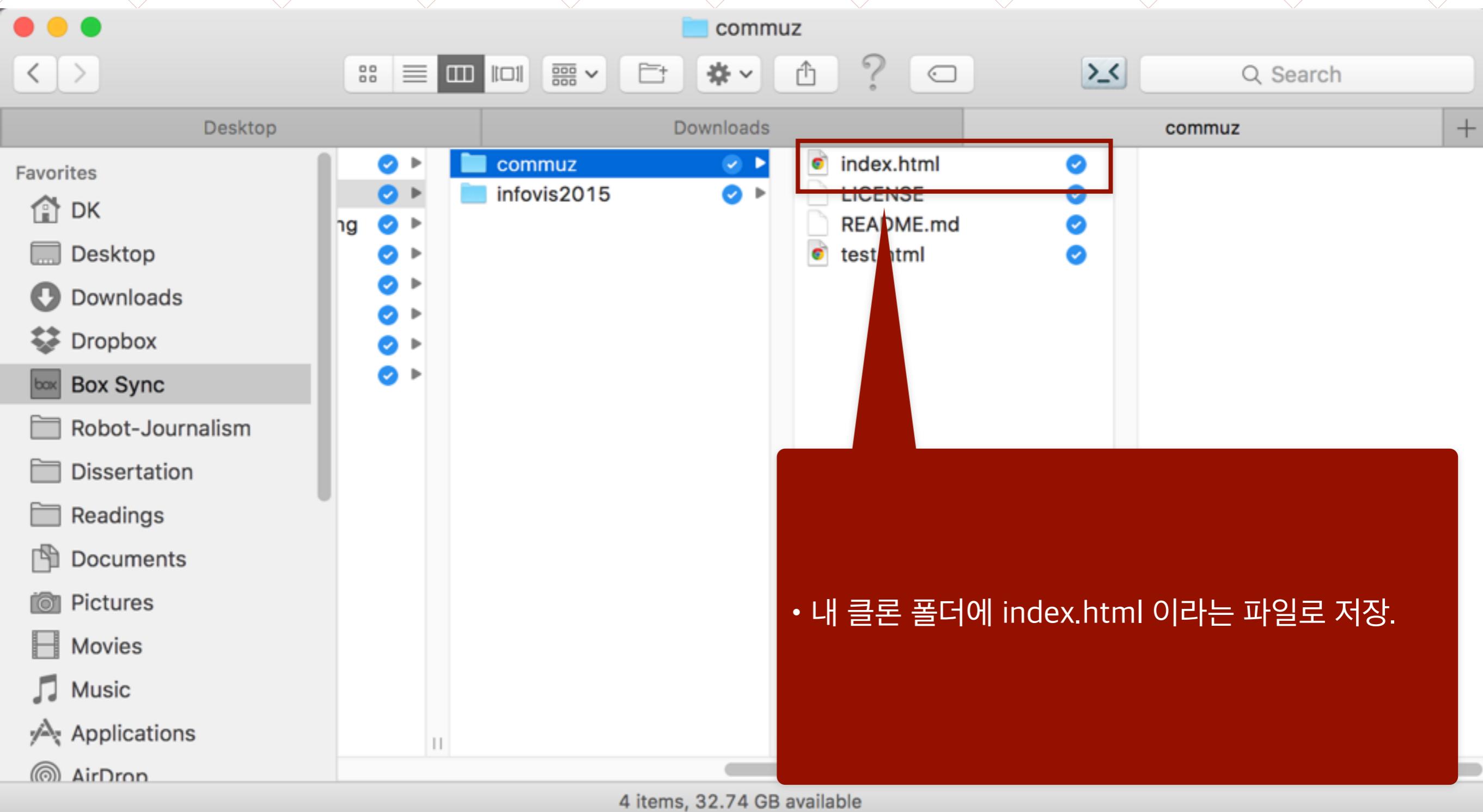
- [OS X](#) (OS X 10.6 or later is required)
- [Windows](#) - also available as a [portable version](#)
- [Windows 64 bit](#) - also available as a [portable version](#)
- [Linux 32 bit](#)
- [Linux 64 bit](#)

Sublime Text 2 may be downloaded and evaluated for free, however a license must be [purchased](#) for continued use. There is currently no enforced time limit for the evaluation.

Sublime Text 2 를 추천합니다!
<http://www.sublimetext.com/2>

```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5
6     <title> 원도우 창에 보이는 '이름' 정하기 </title>
7
8 </head>
9
10 <body>
11
12     <p>
13         메시지 적기...
14     </p>
15
16     <p>
17         이게 여러분의 홈페이지가 되는 겁니다.
18     </p>
19
20 </body>
21
22 </html>
23
```

- 문법에 맞춰 홈페이지 내용 작성.
- Codecademy의 Make a Website를 참조해보세요 (다음주에 수업시간에 좀 더 얘기할거에요).



- 내 클론 폴더에 index.html이라는 파일로 저장.

The screenshot shows the Commuz (Git) application window. The top menu bar includes View, Commit, Checkout, Reset, Stash, Add, Remove, Add/Remove, Fetch, Pull, Push, Branch, Merge, Tag, Show in Finder, Git Flow, and Terminal. The left sidebar lists FILE STATUS (Working... 1, Staged files checked), BRANCHES, TAGS, REMOTES (origin), STASHES, SUBMODULES, and SUBTREES. The main area displays pending files, sorted by path, with a search bar and settings gear icon. A red callout box points from the 'index.html' entry in the staged files list to a text block below. The right panel shows the content of 'index.html' with Korean text about setting a title. At the bottom, there's a 'Commit message' field and a status bar indicating master branch, clean status, 1 not tracked file, and fetching.

FILE STATUS

BRANCHES

TAGS

REMOTES

▶ origin

STASHES

SUBMODULES

SUBTREES

Working... 1

Pending files, sorted by path

Search

index.html

File contents

```
<!DOCTYPE html>
<html>
<head>
<title> 원도우 창에 보이는 '이름' 정하기 </title>
</head>
<body>
<p>
```

Stage hunk

Unstaged files

index.html

Commit message

master Clean 1 Not Tracked Fetching

Atlassian

• 내 클론 폴더에 변경이 생긴 것이니, 소스트리에서 서버에 올리겠냐고 물어보는 것과 같음. 아까처럼 이 파일을 staged files로 올리고 (체크박스선택), Commit 버튼을 눌러 commit message를 적고 Push 도 하면 끝.

The screenshot shows the Commuz (Git) application interface. The main window displays the file status of 'index.html' in the 'Pending files, sorted by path' section. The file is staged, indicated by a green plus sign icon. The file contents are shown in a code editor:

```
+ <!DOCTYPE html>
+ <html>
+ 
+   <head>
+ 
+     <title> 원도우 창에 보이는 '이름' 정하기 </title>
+ 
+   </head>
+ 
+   <body>
+ 
+     <p>
```

A red callout box highlights the 'Push' button in the commit dialog at the bottom right. The commit message is 'Created index.html'.

FILE STATUS

- Working... 1
- Staged files
- index.html

BRANCHES

TAGS

REMOTES

▶ origin

STASHES

SUBMODULES

SUBTREES

Pending files, sorted by path

Search

Commit Checkout Reset Stash Add Remove Add/Remove Fetch Pull Push Branch Merge Tag Show in Finder Git Flow Terminal

index.html

File contents

Unstage hunk

1 + <!DOCTYPE html>
2 + <html>
3 +
4 + <head>
5 +
6 + <title> 원도우 창에 보이는 '이름' 정하기 </title>
7 +
8 + </head>
9 +
10 + <body>
11 +
12 + <p>

• 이렇게 push를 선택해두면 위에서 따로 버튼을 안눌러줘도됨.

Dongwhan Kim <dongwhan.kim@hotmail.com>

Created index.html

Push changes immediately to origin/master

Cancel Commit

master + 1 Added Atlassian

GitHub, Inc. [US] https://github.com/commuz/commuz.github.io

This repository Search Pull requests Issues Gist

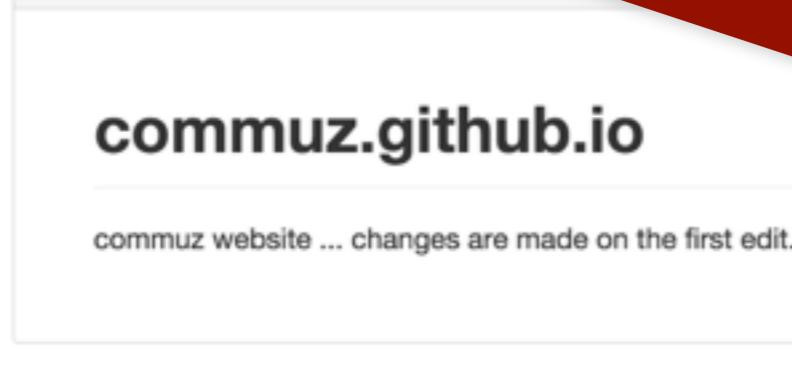
Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

commuz website — Edit

4 commits 1 branch 0 releases 1 contributor

Branch: master New pull request New file Upload files Find file HTTPS https://github.com/commuz Download ZIP

		Latest commit b9b186a 11 seconds ago
 commuz	Created index.html	
 LICENSE	Initial commit	an hour ago
 README.md	Update README.md	36 minutes ago
 index.html	Created index.html	10 seconds ago
 test.html	no message	17 minutes ago
		

commuz.github.io

commuz website ... changes are made on the first edit.

• 이렇게 index.html 파일도 서버에 올라왔음.

© 2016 GitHub, Inc. Terms Privacy Security Contact Help

https://github.com/commuz/commuz.github.io/upload



- 브라우저 주소창에서 내 repository 이름을 넣으면, 방문 만든 홈페이지가 뜹.
- 이렇게 간단하게 나만의 홈페이지가 생김. 앞으로도 내 컴퓨터에서 index.html 파일 등을 고치는 것 만으로 홈페이지를 쉽고 편하게 관리할 수 있다는 장점이 있음.

- 자, 이제 여러분이 하실일은 다음 수업 전까지 index.html 파일을 이렇게 저렇게 꾸며보는 거에요. Make a Website 강의나 기타 다른 자료를 참고해보면 재밌게 꾸며볼 수 있을 겁니다.