


# Github 프로젝트 생성하기

## -실습-




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컴퓨터공학부  
천세진


# Github의 목적: Contribution을 높이기 바랍니다.



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sejin-chun

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🕒 Joined 19 minutes ago

Popular repositories

Customize your pins


## You don't have any public repositories yet.

1 contribution in the last year

Contribution settings ▾

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
von												
Med												
iri												

Learn how we count contributions

Less  More

This is your **contribution graph**. Your first square is for joining GitHub and you'll earn more as you make [additional contributions](#). More contributions means a darker green square for that day. Over time, your chart might start looking [something like this](#).

We have a quick guide that will show you how to create your first repository and earn more green squares!

[Read the Hello World guide](#)

Contribution activity

2022

# Git이란?

- 분산 버전 관리 시스템(DVCS)
- 코드의 변경 사항을 추적하고 여러 개발자가 협업 가능  
로컬 저장소에서 작업 후 원격 저장소와 동기화 가능



분산 버전 관리 시스템

# Github란?

---

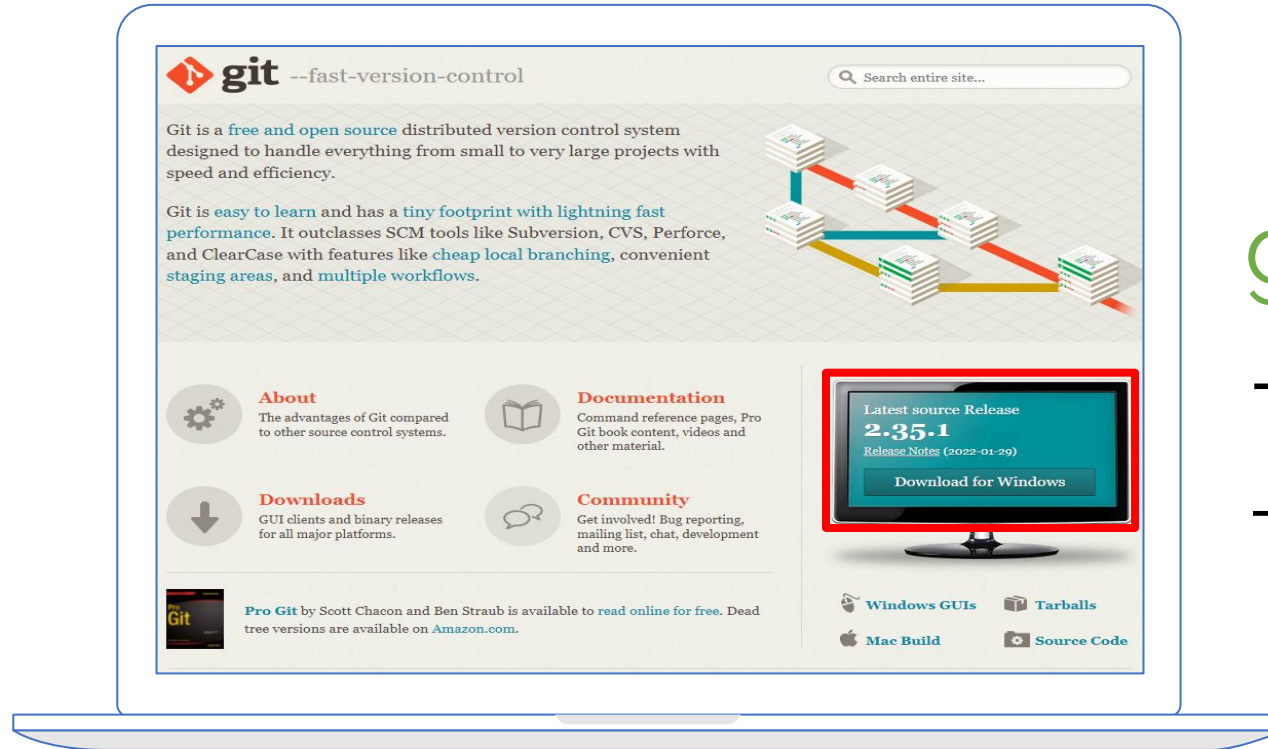
- Git을 기반으로 한 클라우드 호스팅 서비스
- 코드 저장 및 협업 도구 제공 (이슈, 풀 리퀘스트, 브랜치 관리 등)
- 오픈 소스 프로젝트 및 개인/팀 단위 코드 관리 가능



공유를 위한 중앙  
저장소



# setting - git

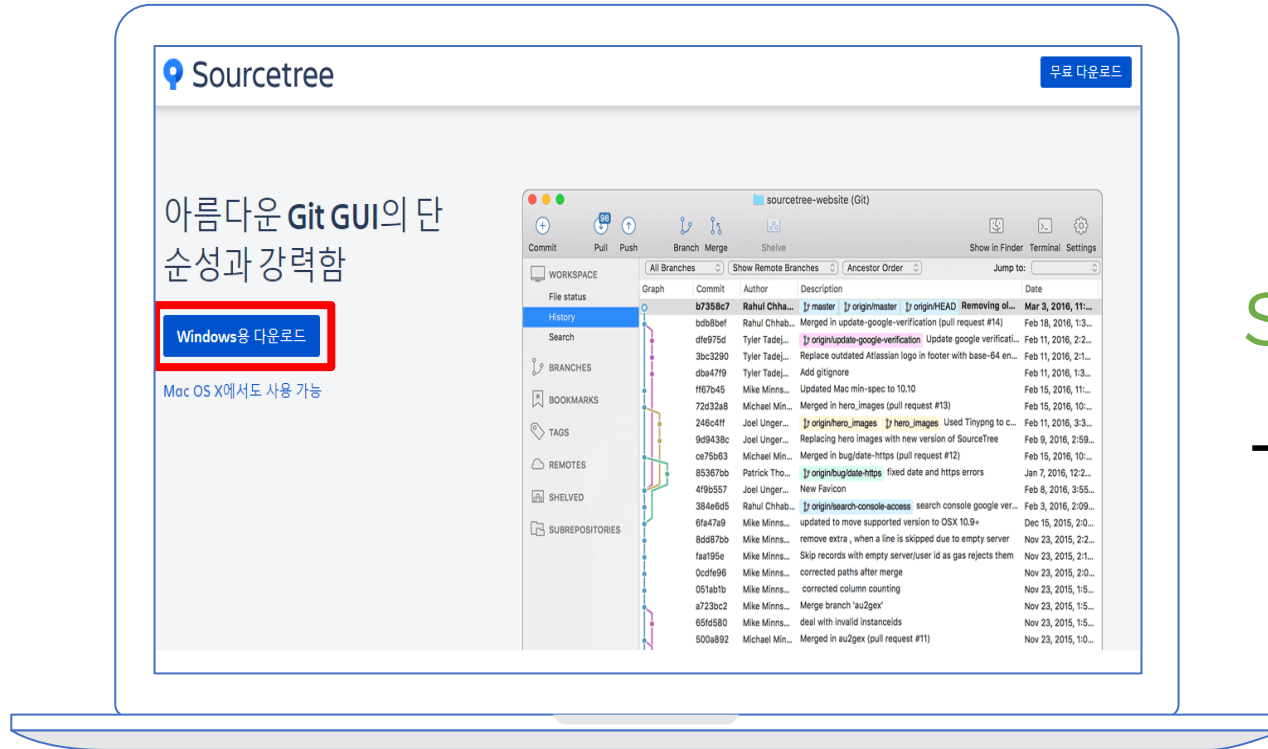


git-scm.com

+ git bash

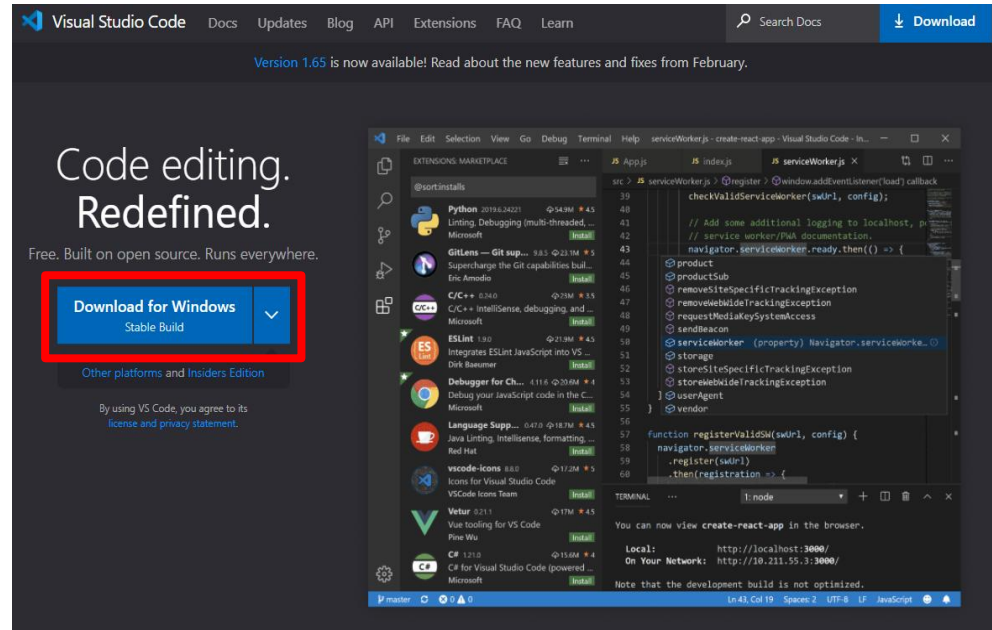
+ default branch name : main

# setting - SourceTree



[sourcetreeapp.com](http://sourcetreeapp.com)  
+ 선택사항

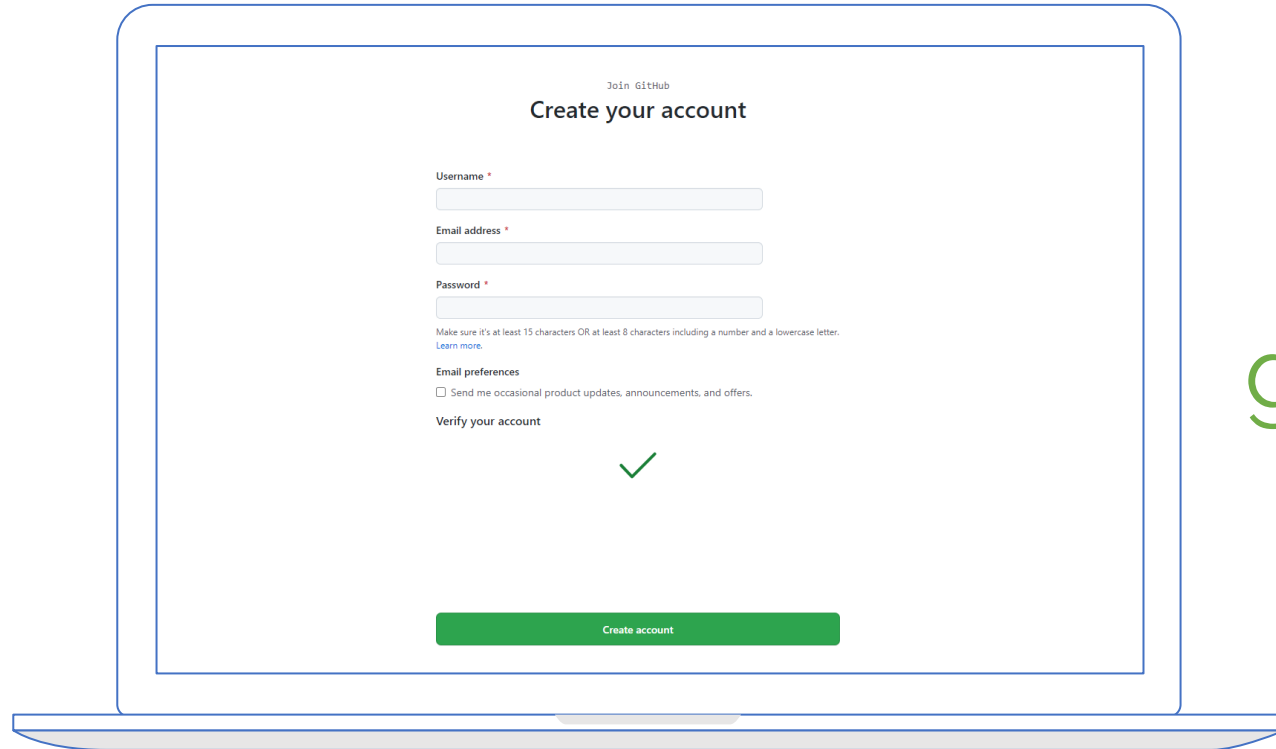
# setting - VScode



code.visualstudio.com




# setting - github






The image shows a laptop screen displaying the GitHub 'Create your account' page. The page has a white background with a blue border. At the top, it says 'Join GitHub' and 'Create your account'. Below this, there are three input fields: 'Username \*', 'Email address \*', and 'Password \*'. The password field has a small text below it: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)'. Below the password field, there is a section for 'Email preferences' with a checkbox labeled 'Send me occasional product updates, announcements, and offers.' and a link 'Verify your account'. At the bottom, there is a green button labeled 'Create account'.

github.com/join

# Create a new repository



[/](#) [Pulls](#) [Issues](#) [Marketplace](#) [Explore](#)



### Create your first project

Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

[Create repository](#) [Import repository](#)

### Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

### 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.

[Read the guide](#) [Start a project](#)

### Join GitHub Global Campus!

Prepare for a career in tech by joining GitHub Global Campus. Global Campus will help you get the practical industry knowledge you need by giving you access to industry tools, events, learning resources and a growing student community.

Follow your Expert

GitHub to get help with hackathons & events.

Breaking into tech: internship edition with Helen Huang

Science & Technology











Level up your code with TwilioQuest

Talk Shows & Podcasts

Learning by teaching for your community - Cassidy Williams

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 20+


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January 22, 2021

Level up your code with TwilioQuest

 Ariel Kanter


February 1, 2021

GitHub Campus Experts applications are open


 Juan Pablo Flores Cortés

Artificial Intelligence

6 assignments

 Lists and Loops

Due by May 1, 2021, 12:00 PST

 Week Five: Functions

Due by Aug 15, 2021, 14:00 PST

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Visit the [Student Gallery](#)

Learn more about an event

Click on an [event](#)

Watch a Campus TV episode

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Web meet 2021

It is being partnered by GitHub - the biggest of

[Join Global Campus](#)

# Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

저장소 이름 기입

Owner \*



sejin-chun ▾

Repository name \*

Great repository names are short and memorable. Need inspiration? How about [turbo-barnacle?](#)

Description (optional)

체크할것



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

체크할것



Add a README file

This is where you can write a long description for your project. [Learn more.](#)



Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)



Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

MIT License로 변경

Create repository

생성

# Your repository is created

## ■ 프로젝트 생성 완료

main ▾


1 branch

0 tags



Go to file

Add file ▾


Code ▾

 sejin-chun Initial commit

ff37901 now 1 commit


 LICENSE	Initial commit	now
 README.md	Initial commit	now


README.md



oss-world

# 라이선스와 README.md 파일 확인

 main ▾ oss-world / LICENSE

**MIT License**

sejin-chun/oss-world is licensed under the MIT License

A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.

Permissions	Limitations	Conditions
✓ Commercial use	✗ Liability	① License and copyright notice
✓ Modification	✗ Warranty	
✓ Distribution		
✓ Private use		





This is not legal advice. [Learn more about repository licenses.](#)

 sejin-chun Initial commit

Latest commit ff37901 2 minutes ago  History

 1 contributor

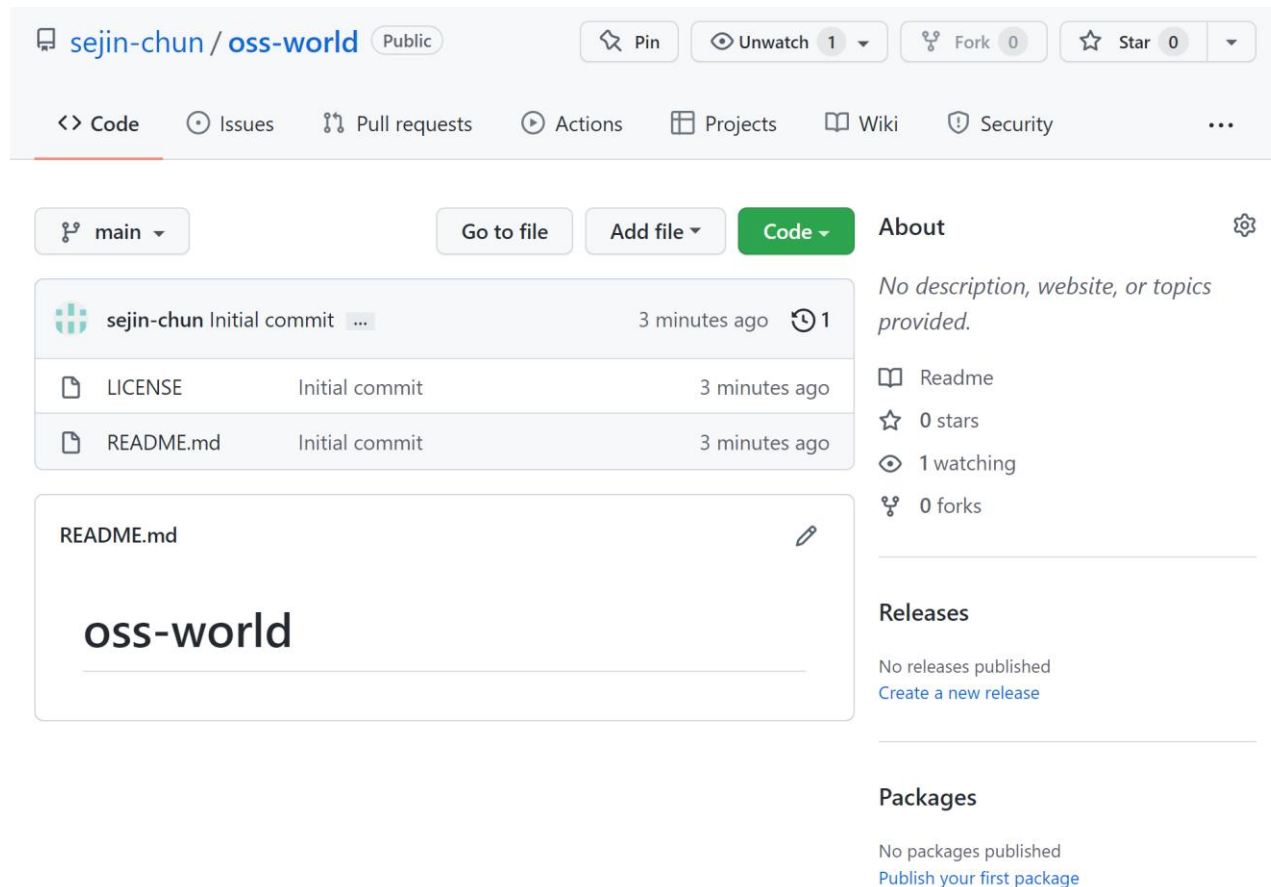
21 lines (17 sloc) | 1.04 KB

Raw Blame    

```
1 MIT License
2
3 Copyright (c) 2022 sejin-chun
4
5 Permission is hereby granted, free of charge, to any person obtaining a copy
6 of this software and associated documentation files (the "Software"), to deal
7 in the Software without restriction, including without limitation the rights
8 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
9 copies of the Software, and to permit persons to whom the Software is
10 furnished to do so, subject to the following conditions:
11
12 The above copyright notice and this permission notice shall be included in all
13 copies or substantial portions of the Software.
14
15 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
16 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
17 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
18 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
19 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
20 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
21 SOFTWARE.
```

# 메뉴 및 버튼 체크

- Pin, Unwatch, Fork, Star
- Code, Issues, Pull Requests

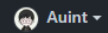


# 실습 - 생성 (리마인드)

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

Owner \*



Auint

Repository name \*

Great repository names are short and memorable. Need inspiration? How about [solid-robot?](#)

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

☐ Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

☐ Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository

- Web direct :  
github.com/new
- Local :  
git init  
+a

# Advanced

---

With git bash



# 메인 구조 main structure & pull, add, commit, push



```
git config --global  
user.name "your name..."
```

```
git config --global  
user.email  
your@domain.com
```

## Check

- + git --version
- + git config user.name
- + git config user.email

# Git 주요 명령어

---

## ■ Git 저장소 초기화

- git init

## ■ 파일 추가 및 커밋

- git add 파일명 # 파일을 스테이징

- git add . # 모든 변경된 파일 추가

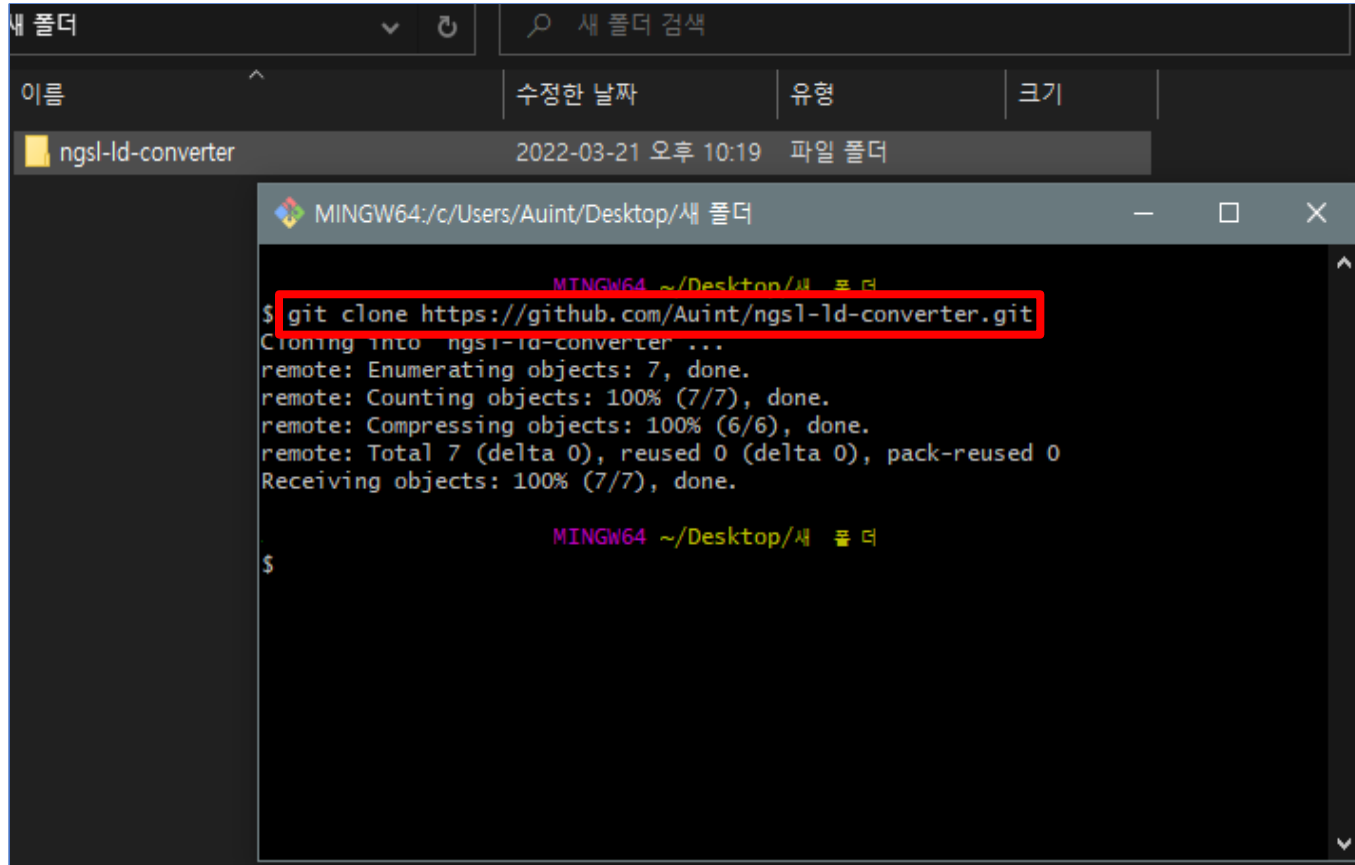
- git commit -m "커밋 메시지"

## ■ 원격 저장소 연결 및 업로드

- git remote add origin <https://github.com/사용자이름/저장소이름.git>

- git branch -M main

- git push -u origin main



```
MINGW64 ~/Desktop/새 폴더
$ git clone https://github.com/Auint/ngsl-ld-converter.git
Cloning into 'ngsl-ld-converter' ...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 7 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), done.

MINGW64 ~/Desktop/새 폴더
$
```

■ `$ git clone /*paste*/`

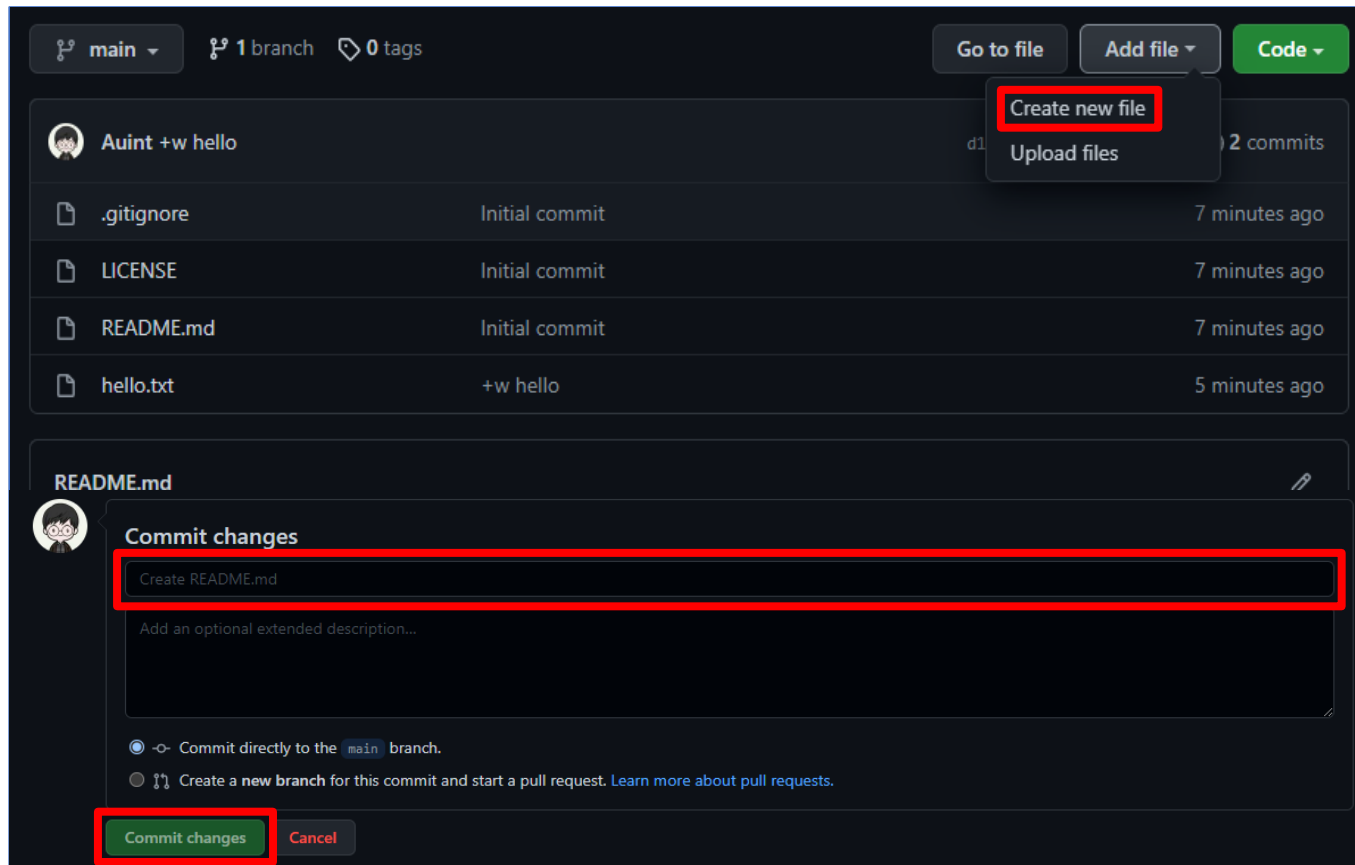
```
$ git add .
```

```
$ git commit -m "+w add_1"
```

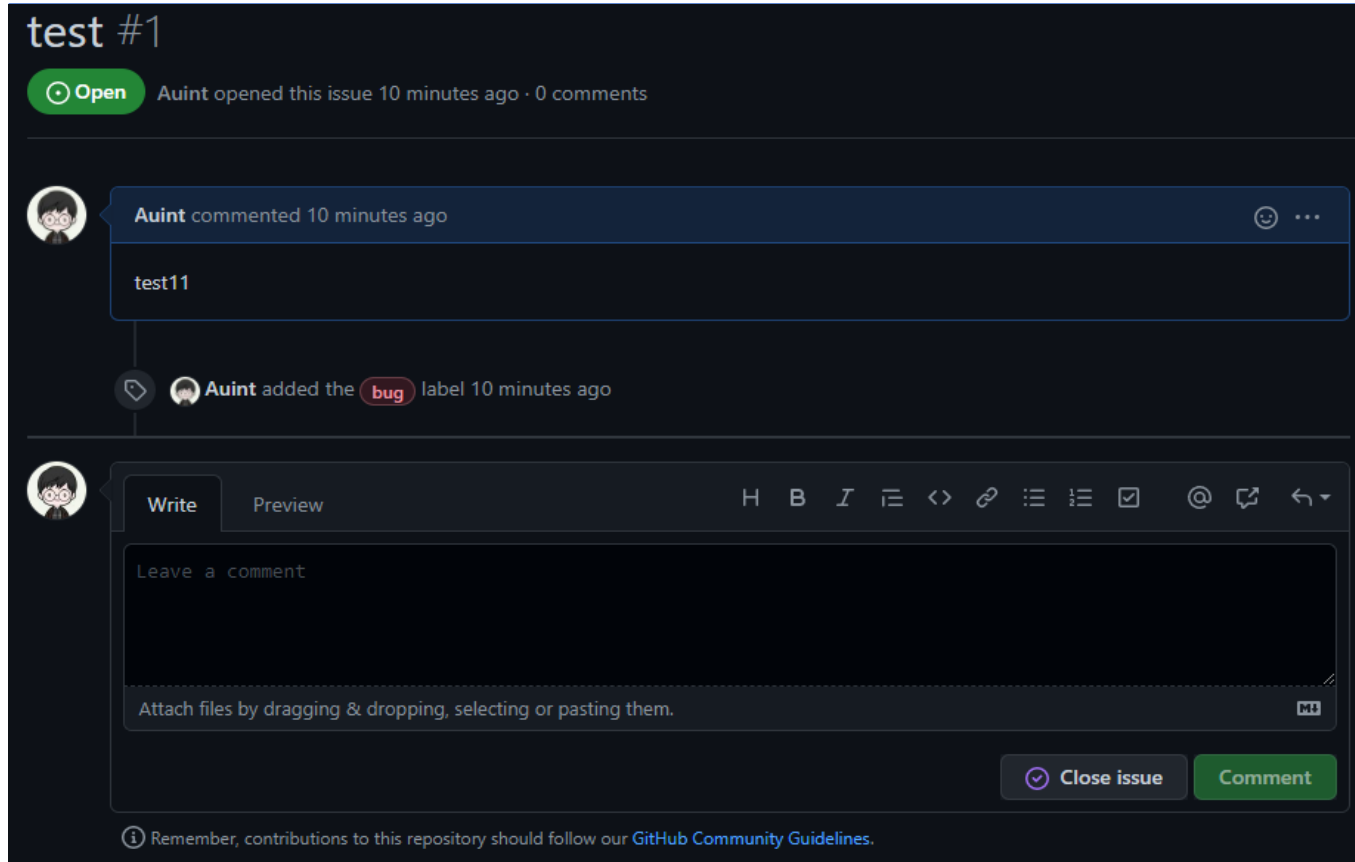
```
$ git push -u origin main
```

Local commit  
+ create any new  
file

# 실습 - commit



Web commit  
+ create any new  
file



issue  
+

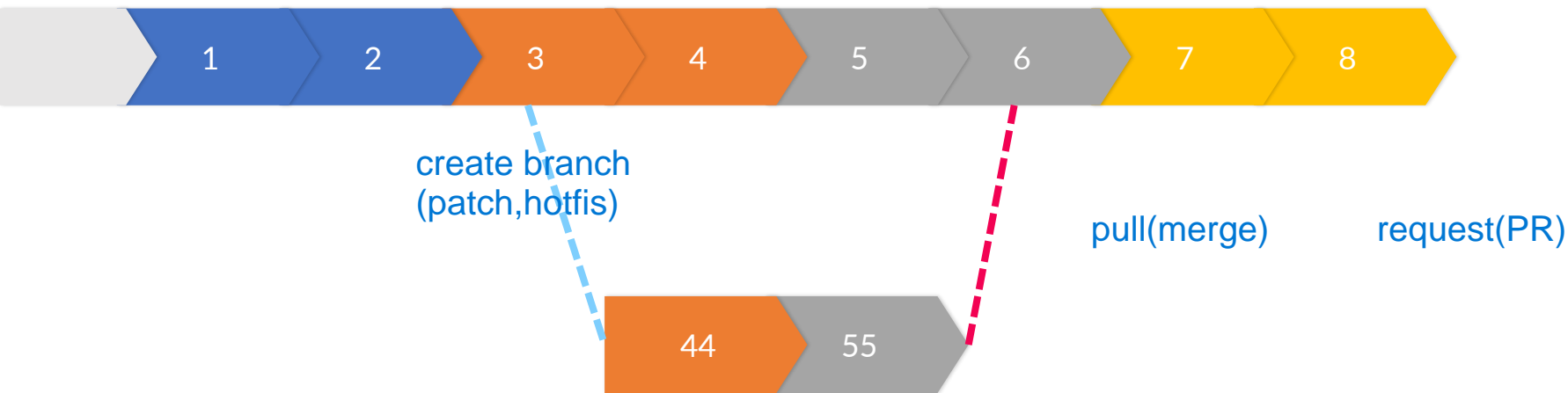
# 브랜치 다루기

## # Timeline

```
$ git branch
```

```
$ git branch /*b_test*/
```

```
$ git switch /*b_test*/
```



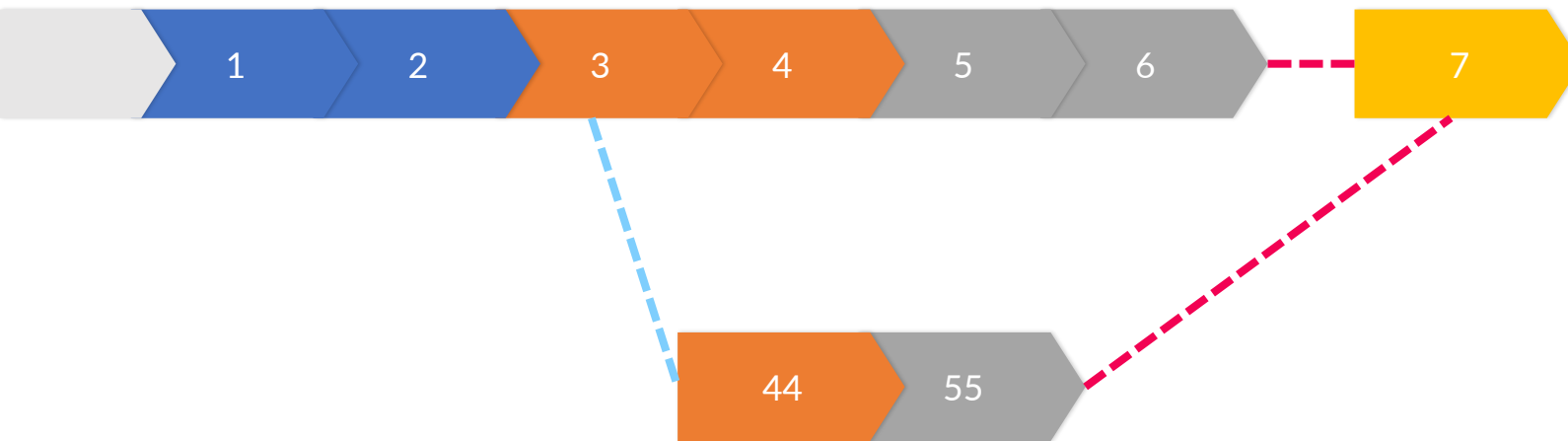


# 병합 (merging, rebase)

# merge

```
$ git switch /*b_test*/
```

```
$ git merge main
```

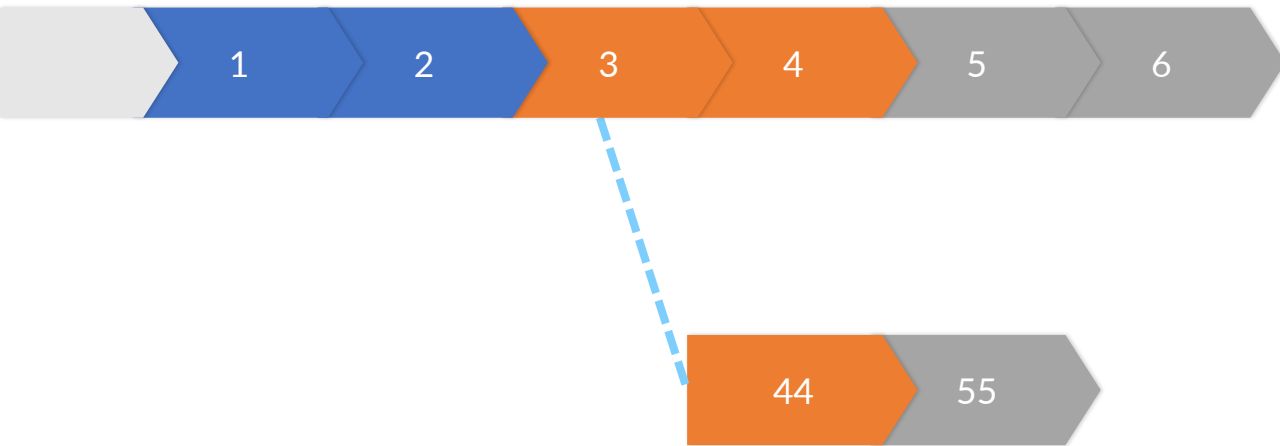


# 병합 (merging, rebase)

# rebase

```
$ git switch /*b_test*/
```

```
$ git rebase main
```



# GitHub에서 협업하기

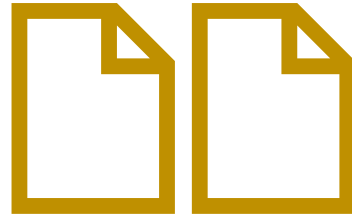
---

- 브랜치 생성 및 전환
  - `git branch 새_브랜치_이름`
  - `git checkout 새_브랜치_이름`
- 변경 사항 병합
  - `git merge 브랜치_이름`

# 충돌 문제 (crash error)



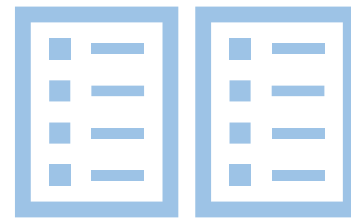
다른 파일 수정  
OK



같은 파일 수정



다른 부분 수정  
OK



같은 부분 수정  
NO

conflict ( )

# 충돌 문제 (crash error)

```
! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/Auint/Repositories.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

Initial commit

Local commit

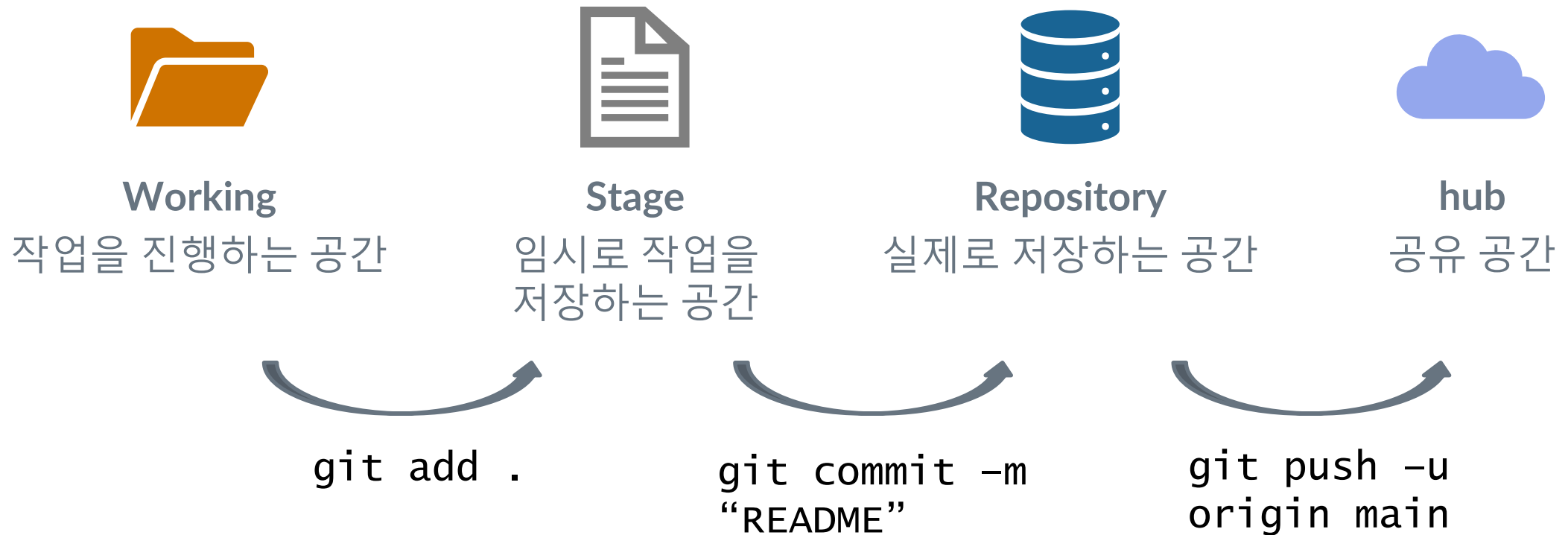
Web commit

\$ ~~git~~ pull

Local Repository

New local commit

# 메인 구조 main structure & pull, add, commit, push



# STEP UP

---

협업을 위한 Fork 및 Pull Request

# 협업을 위한 Fork 및 Pull Request

---

- 다른 사용자의 저장소를 Fork
- 로컬로 클론 후 수정
- 수정 사항을 자신의 저장소에 푸시 후 원본 저장소에 Pull Request 요청

