

# CSI2109

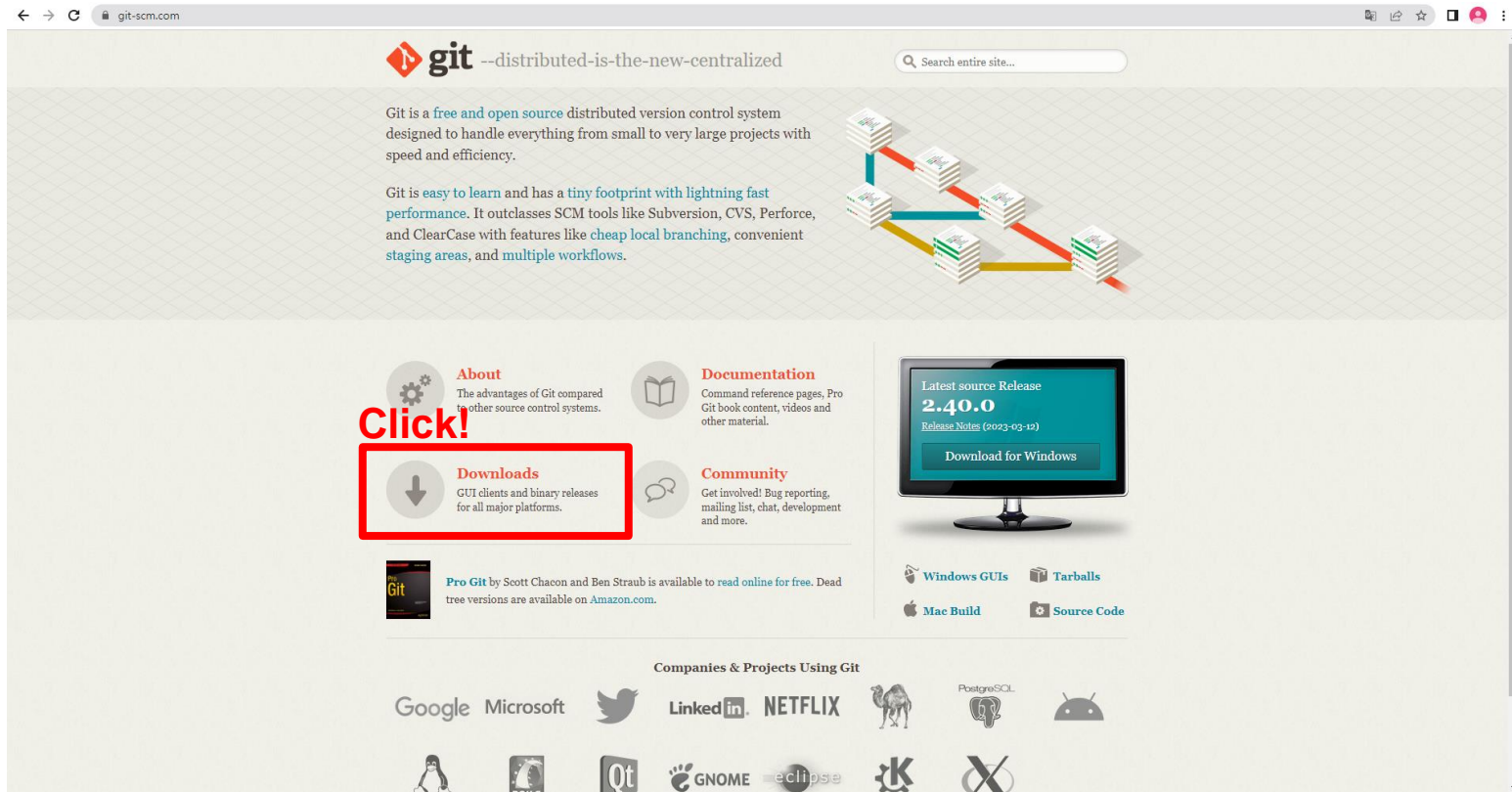
2023.03.17



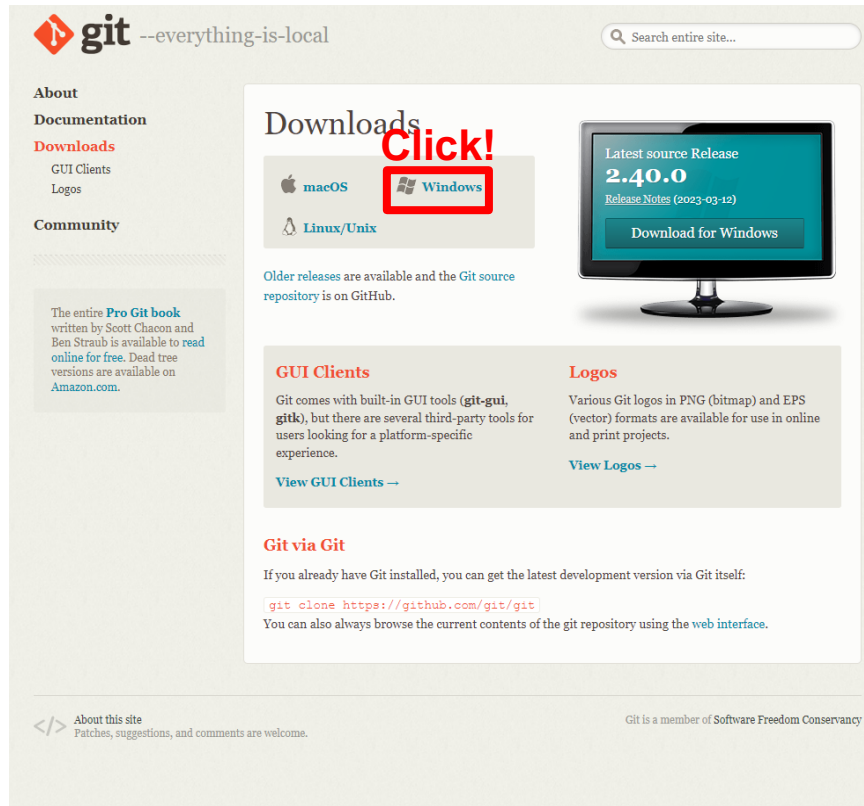
- 버전 관리 시스템 소프트웨어
- 소스코드를 수정하고 버전으로 저장
- 문제가 발생했을 때 저장해둔 버전으로 돌아갈 수 있음

# Git – Install

- <https://git-scm.com/> 접속



# Git – Install



The screenshot shows the Git website homepage. The header includes the Git logo and the tagline "--everything-is-local". A search bar is located in the top right. The left sidebar contains links for "About", "Documentation", "Downloads", "GUI Clients", "Logos", and "Community". The main content area features a "Downloads" section with buttons for "macOS", "Windows", and "Linux/Unix". The "Windows" button is highlighted with a red box and the word "Click!". Below this, there is a section for "Latest source Release 2.40.0" with a "Download for Windows" button. Further down, there are sections for "GUI Clients" and "Logos". At the bottom, there is a section for "Git via Git" with a code snippet for cloning the repository.

git --everything-is-local

Search entire site...

About  
Documentation  
Downloads  
GUI Clients  
Logos  
Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.

## Downloads

Click!

macOS Windows Linux/Unix

Older releases are available and the Git source repository is on GitHub.

### GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

### Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

### Git via Git

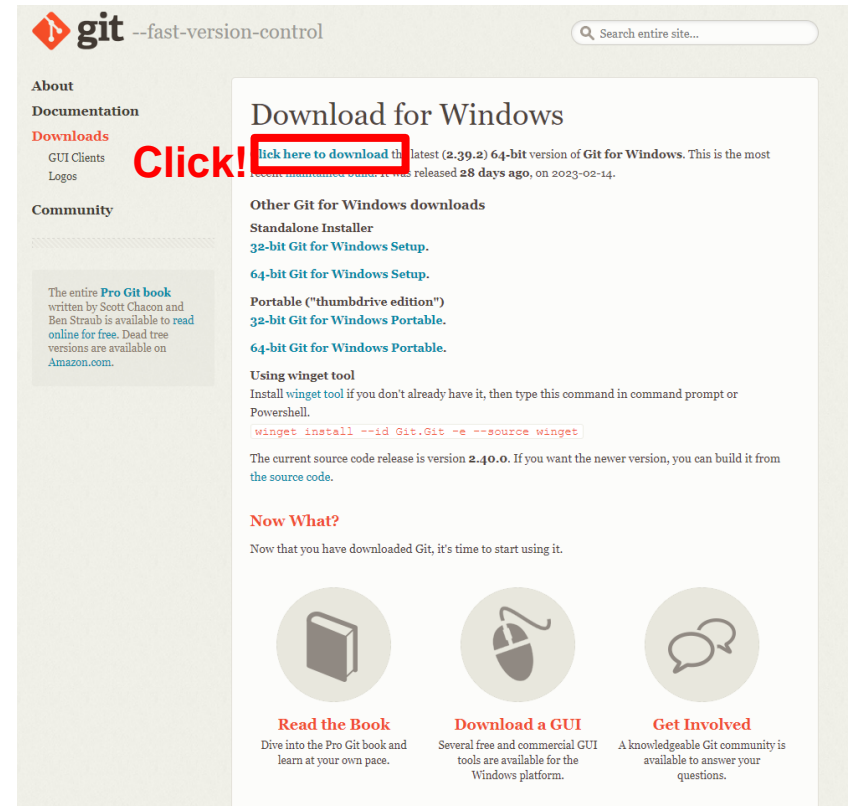
If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).

</> About this site  
Patches, suggestions, and comments are welcome.

Git is a member of Software Freedom Conservancy



The screenshot shows the "Download for Windows" page on the Git website. The header includes the Git logo and the tagline "--fast-version-control". A search bar is located in the top right. The left sidebar contains links for "About", "Documentation", "Downloads", "GUI Clients", "Logos", and "Community". The main content area features a "Download for Windows" section with a link to "Click here to download the latest (2.39.2) 64-bit version of Git for Windows". This link is highlighted with a red box and the word "Click!". Below this, there are sections for "Other Git for Windows downloads" including "Standalone Installer", "32-bit Git for Windows Setup", "64-bit Git for Windows Setup", "Portable ('thumbdrive edition')", "32-bit Git for Windows Portable", and "64-bit Git for Windows Portable". There is also a section for "Using winget tool" with a command snippet. At the bottom, there are three icons representing "Read the Book", "Download a GUI", and "Get Involved".

git --fast-version-control

Search entire site...

About  
Documentation  
Downloads  
GUI Clients  
Logos  
Community

## Download for Windows

Click!

Click here to download the latest (2.39.2) 64-bit version of Git for Windows. This is the most recent Windows release. It was released 28 days ago, on 2023-02-14.

### Other Git for Windows downloads

**Standalone Installer**  
[32-bit Git for Windows Setup.](#)  
[64-bit Git for Windows Setup.](#)

**Portable ("thumbdrive edition")**  
[32-bit Git for Windows Portable.](#)  
[64-bit Git for Windows Portable.](#)

### Using winget tool


Install **winget** tool if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version **2.40.0**. If you want the newer version, you can build it from the source code.


### Now What?

Now that you have downloaded Git, it's time to start using it.




#### Read the Book

Dive into the Pro Git book and learn at your own pace.



#### Download a GUI

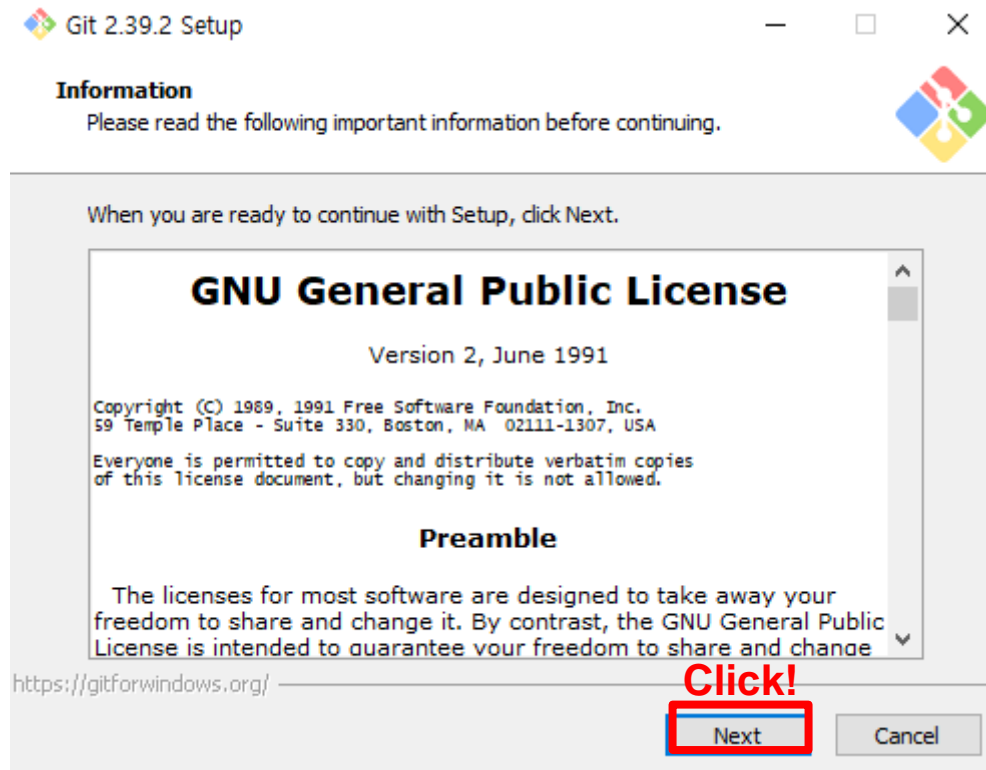
Several free and commercial GUI tools are available for the Windows platform.



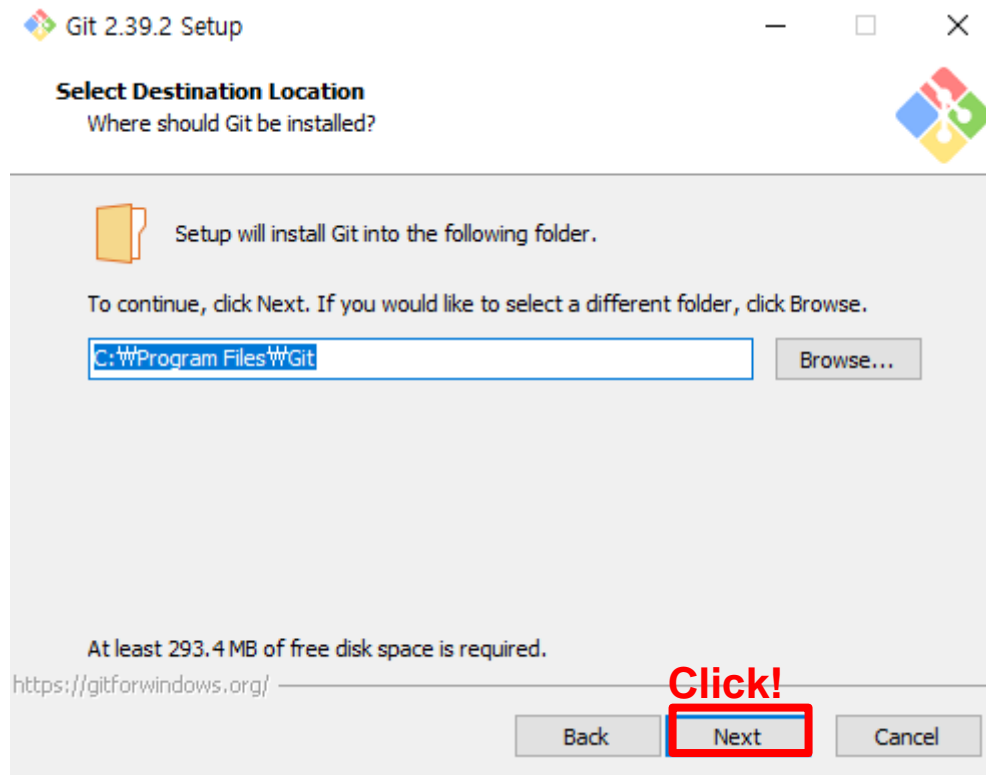
#### Get Involved

A knowledgeable Git community is available to answer your questions.

# Git – Install

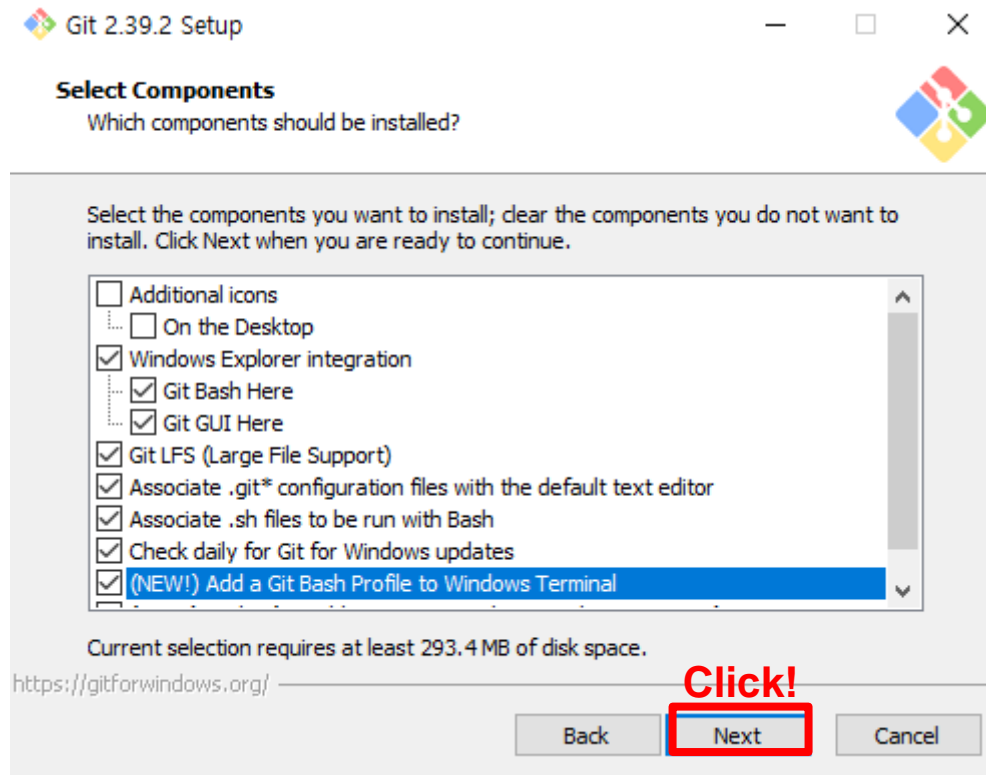


# Git – Install

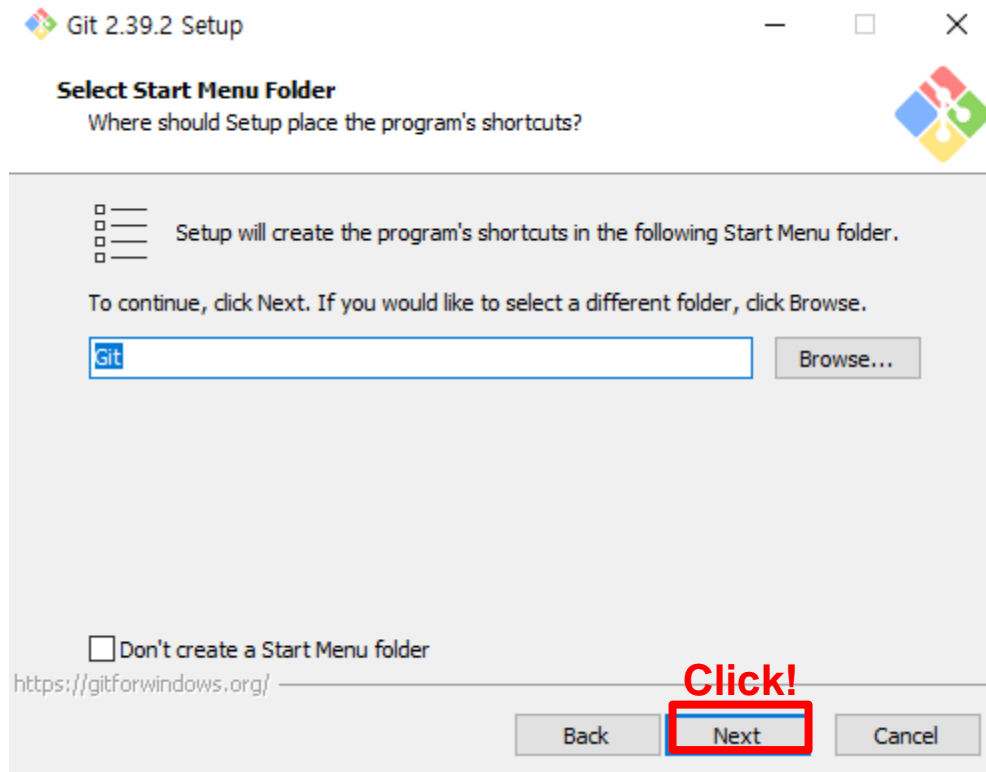


# Git – Install

- 다음과 같이 설정 후 Next를 눌러줍니다.



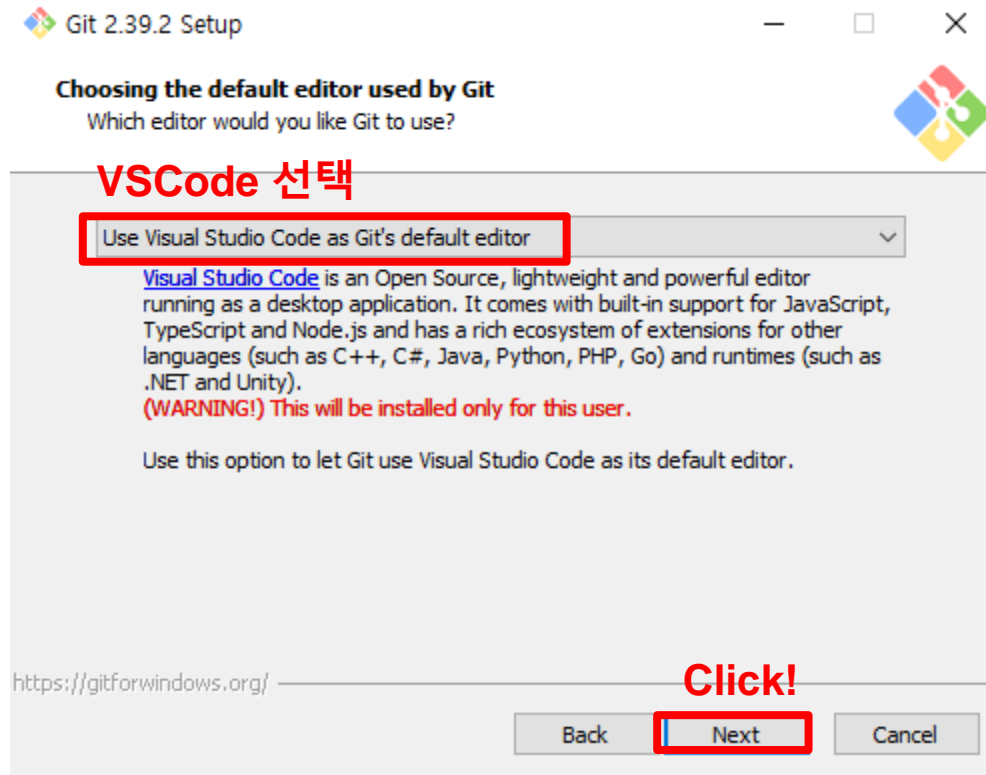
# Git – Install





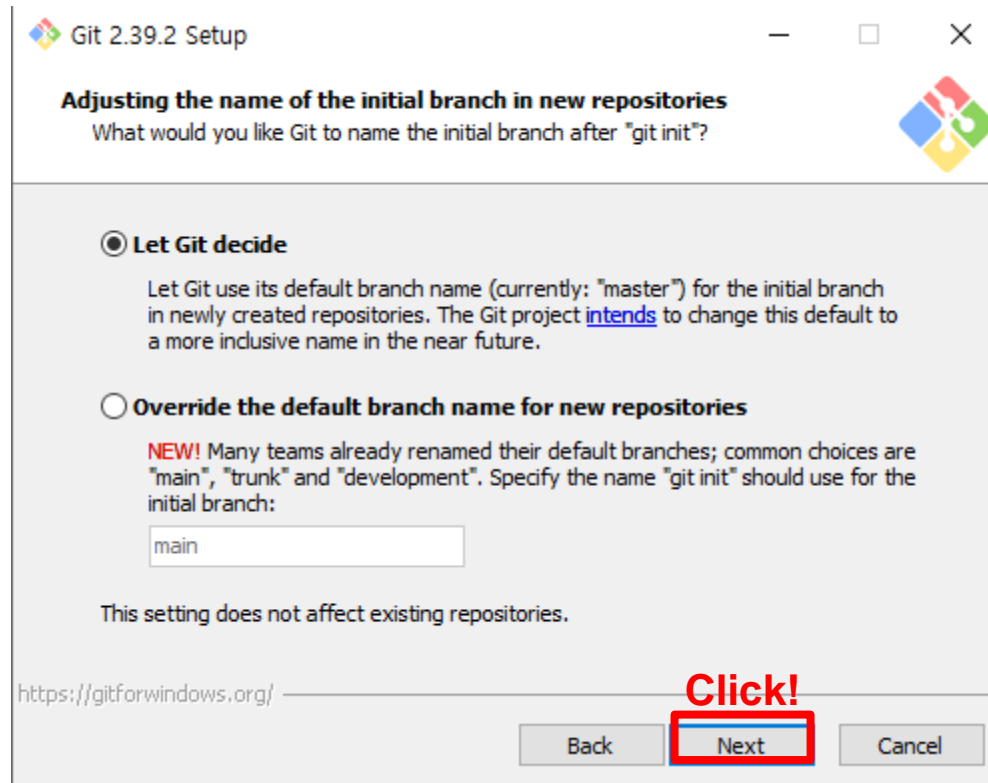
# Git – Install

- Visual Studio Code를 기본값으로 선택합니다.



# Git – Install

- 이후부터는 모두 다음을 눌러 설치를 완료해줍니다

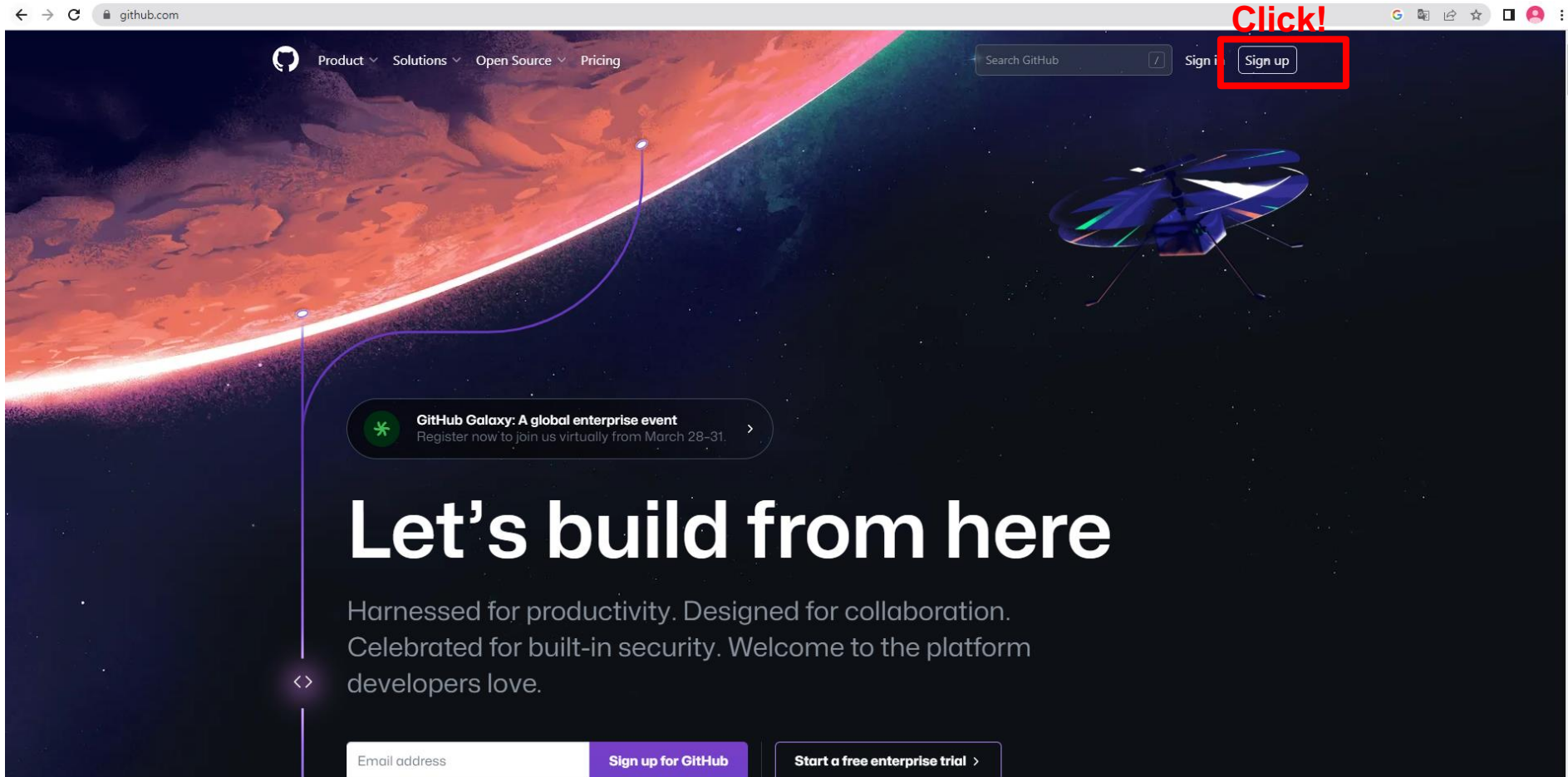


- Git을 통해 소스 코드를 업데이트 한 후 GitHub에 업로드하여 사람들과 공유하고 협업할 때 사용되는 웹사이트
- 주로 로컬 저장소에서 Git을 통해 소스 코드 버전 관리를 하고 원격 저장소인 GitHub에 업로드하는 방식으로 진행

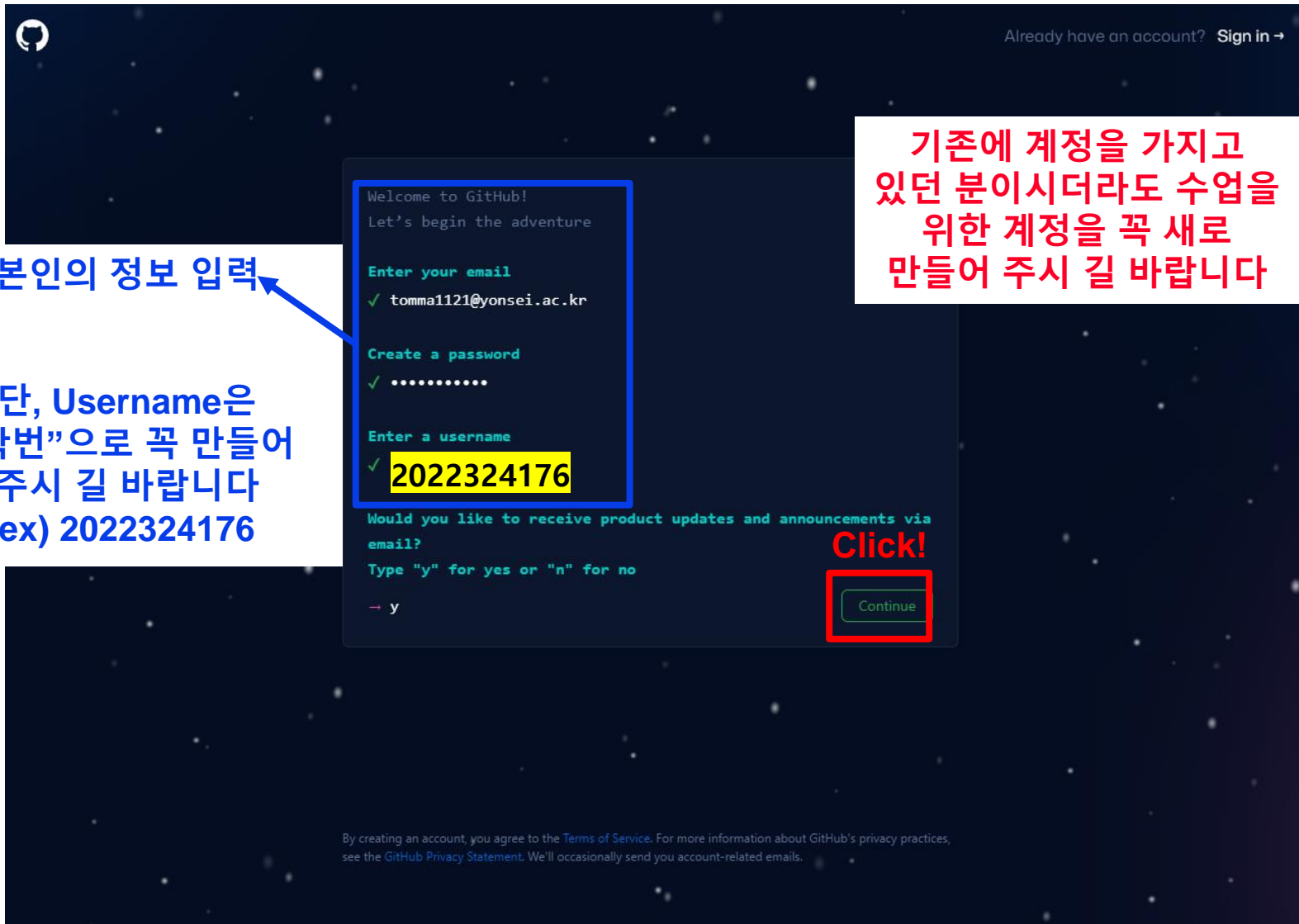
즉, 클라우드와 로컬에 모두 저장소를 가지고 있는 분산 버전 관리 방식

# GitHub – Sign Up

- <https://github.com/> 접속



# GitHub – Sign Up



The screenshot shows the GitHub sign-up interface. At the top left is the GitHub logo, and at the top right is the link "Already have an account? Sign in →". The main form area has a dark background with white text. It starts with "Welcome to GitHub! Let's begin the adventure". The first step is "Enter your email", with a green checkmark and the email "tomma1121@yonsei.ac.kr". The second step is "Create a password", with a green checkmark and a masked password ".....". The third step is "Enter a username", with a green checkmark and the username "2022324176" highlighted in yellow. Below this is a question "Would you like to receive product updates and announcements via email?" with the instruction "Type 'y' for yes or 'n' for no" and the input "y". A red box highlights the "Continue" button, with the word "Click!" written in red above it. At the bottom, there is a small text block about agreeing to the Terms of Service and Privacy Statement.

Already have an account? Sign in →

Welcome to GitHub!  
Let's begin the adventure

Enter your email  
✓ tomma1121@yonsei.ac.kr

Create a password  
✓ .....

Enter a username  
✓ 2022324176

Would you like to receive product updates and announcements via email?  
Type "y" for yes or "n" for no  
→ y

Click!  
Continue

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

본인의 정보 입력

단, Username은  
“학번”으로 꼭 만들어  
주시길 바랍니다  
ex) 2022324176

기존에 계정을 가지고  
있던 분이시더라도 수업을  
위한 계정을 꼭 새로  
만들어 주시길 바랍니다

# GitHub – Create Repository

The screenshot shows the GitHub homepage in a web browser. The user is signed in as 'ICL2023-01'. The user menu is open, showing options like 'Set status', 'Your repositories' (highlighted with a red box and 'Click!'), 'Your projects', 'Your stars', 'Your gists', 'Your sponsors', 'Upgrade', 'Try Enterprise', 'Feature preview', 'Help', 'Settings', and 'Sign out'. The main content area features a 'Join GitHub Global Campus!' banner, a 'Create your first project' section, and a 'Recent activity' section. The 'Discover interesting projects and people to populate your personal news feed.' section is also visible.

GitHub.com

Search or jump to...

Pull requests Issues Codespaces Marketplace Explore

Signed in as ICL2023-01

Set status

**Click!**

Your repositories

Your projects

Your stars

Your gists

Your sponsors

Upgrade

Try Enterprise

Feature preview

Help

Settings

Sign out

## 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.

## 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

Popular offers you have not claimed:

Claim more offers

Curated Experiences with popular offers:

Virtual event kit

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

Join Global Campus

## Discover interesting projects and people to populate your personal news feed.

Your news feed helps you keep up with recent activity on repositories you watch or star and people you follow.

Explore GitHub

ProTip! The feed shows you events from people you follow and repositories you watch or star.

## Galaxy 2023

Empower developers. Supercharge productivity. Register now for our virtual enterprise event on March 28–31.

Register now

## Start coding instantly with GitHub Codespaces

Spin up fully configured dev environments on powerful VMs that start in seconds. Get up to 60 hours a month of free time.

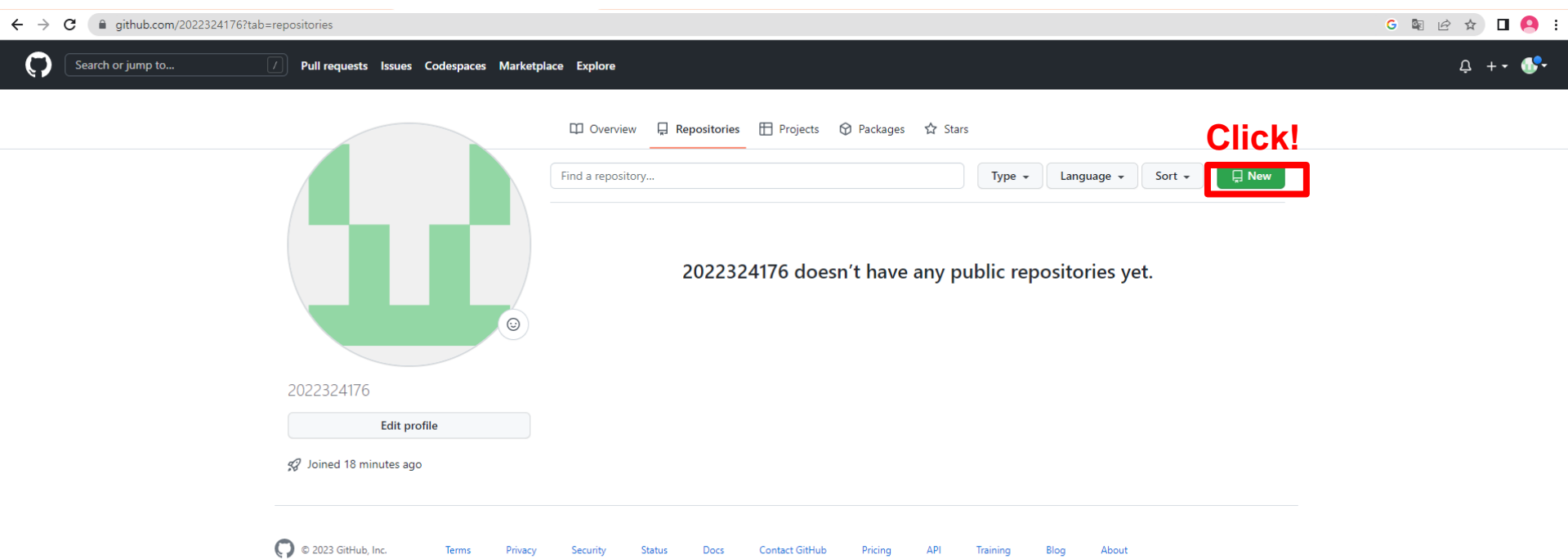
Get started

## Latest changes

- 12 hours ago Dependabot version updates keeps Gradle version catalogs up-to-date
- 14 hours ago Dependabot updates support reusable workflows for GitHub Actions
- 3 days ago Changes to the code search API
- 3 days ago Dependency graph and Dependabot support npm v9

View changelog →

# GitHub – Create Repository



The screenshot shows the GitHub user profile page for user 2022324176. The page is titled "2022324176" and features a profile picture of a green and white checkered pattern. Below the profile picture is a button labeled "Edit profile" and a note indicating the user "Joined 18 minutes ago". The "Repositories" tab is selected, showing a message: "2022324176 doesn't have any public repositories yet." A search bar with the placeholder "Find a repository..." and filters for "Type", "Language", and "Sort" are visible. A red box highlights the "New" button, with the text "Click!" written in red above it. The footer includes the GitHub logo, copyright information "© 2023 GitHub, Inc.", and links to "Terms", "Privacy", "Security", "Status", "Docs", "Contact GitHub", "Pricing", "API", "Training", "Blog", and "About".

# GitHub – Create Repository

github.com/new

Search or jump to...

Pull requests Issues Codespaces Marketplace Explore

## Create a new repository

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

Owner \* 2022324176 Repository name \* **/HomeworkRepository**

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

Description (optional)

☒ Public

☐ 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.](#)

.gitignore template: None

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

License: None

**Click!** [Click here to create a public repository in your personal account.](#)

**Create repository**

Repository name은 꼭 “HomeworkRepository”로 해주시길 바랍니다



# GitHub – Clone

github.com/2022324176/HomeworkRepository

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

2022324176 / HomeworkRepository (Public)

Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

**Quick setup — if you've done this kind of thing before**

Set up in Desktop or HTTPS SSH `https://github.com/2022324176/HomeworkRepository.git` **Click!(Copy)**

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

**...or create a new repository on the command line**

```
echo "# HomeworkRepository" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/2022324176/HomeworkRepository.git
git push -u origin main
```

**...or push an existing repository from the command line**

```
git remote add origin https://github.com/2022324176/HomeworkRepository.git
git branch -M main
git push -u origin main
```

**...or import code from another repository**

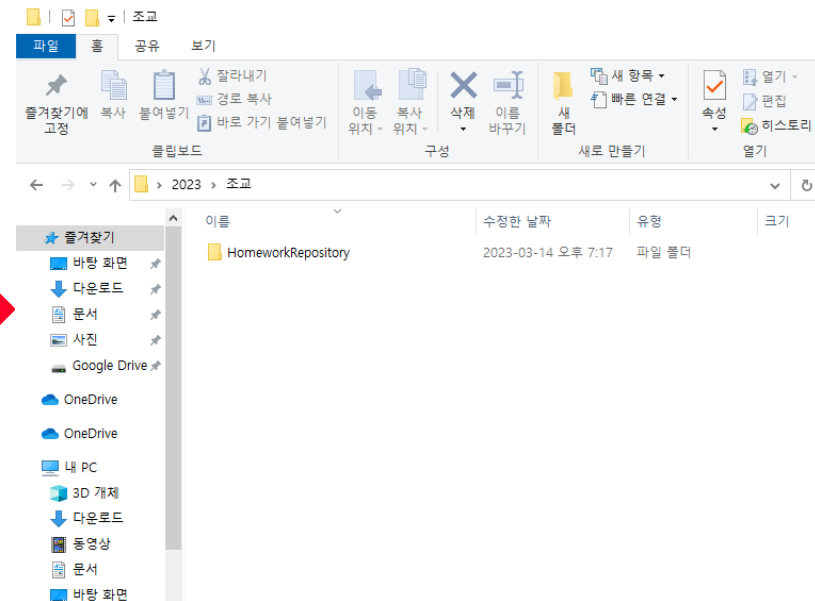
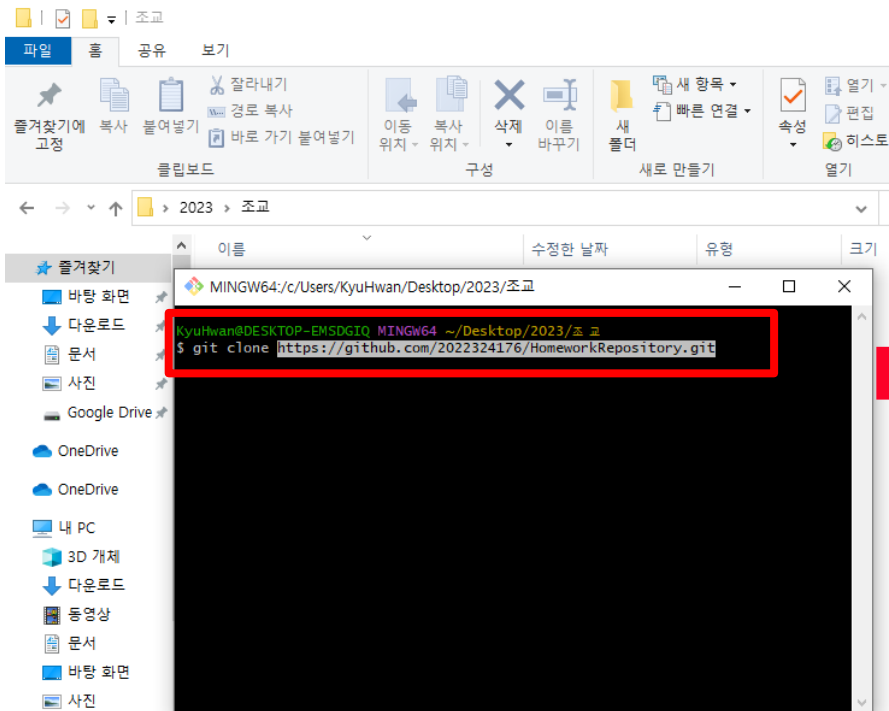
You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

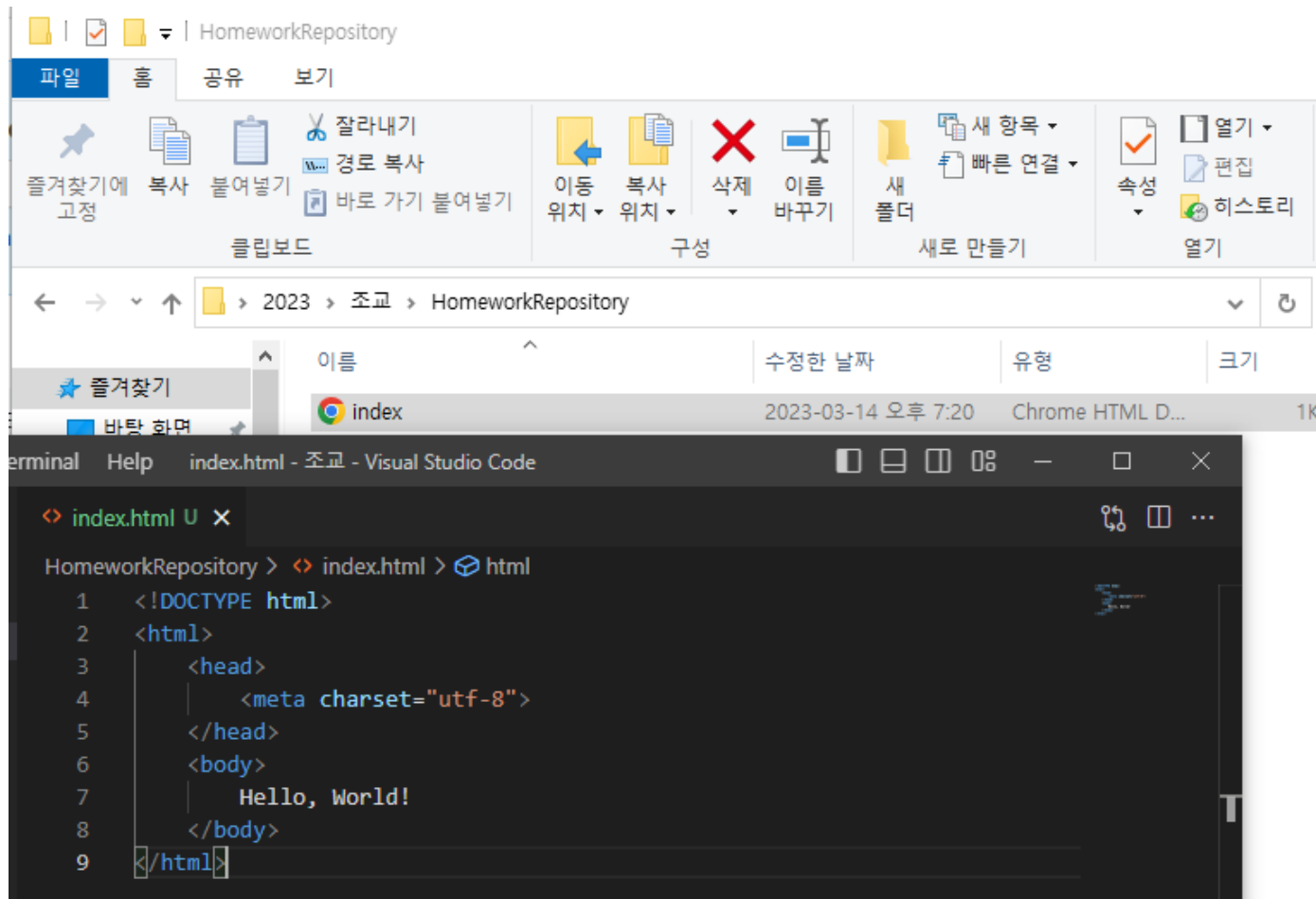
**ProTip!** Use the URL for this page when adding GitHub as a remote.

# GitHub – Clone

- 원하는 폴더에서 오른쪽 클릭 후 Git Bash 실행
- 복사된 원격 저장소 주소를 이용하여 아래의 명령어 실행
  - Git clone <복사한 URL 붙여넣기>
- 원격 저장소가 로컬 저장소에 “Clone” 됨



- HomeworkRepository folder(Clone Folder)에 들어가  
“index.html” 파일을 아래와 같이 생성



- 현재 폴더에서 Git Bash 실행 후 다음 명령어 실행
  - `git add index.html`
    - 이번 버전에 `index.html` 파일을 포함시킨다.
  - `git commit -m "Hello world!"`
    - 이번 버전을 "Hello world!"라는 메시지와 함께 저장한다.
  - `git push`
    - 저장한 버전을 github에 올린다.

- Commit이 제대로 되지 않을 때
  - `git config --global user.email` “깃허브에 가입한 이메일”
  - `git config --global user.name` “학번”

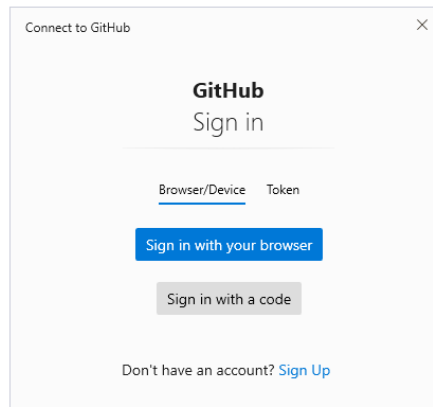
```
gjdig@DESKTOP-A1H783G MINGW64 /f/Projects/인터넷 컴퓨팅 /Test (main)
$ git commit -m "test!"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"
```

- Push가 제대로 되지 않을 때
  - 아래와 같이 로그인 창이 뜰 수도 있습니다.
  - 그럴 때는 Sign in with your browser를 눌러 주시고
  - 로그인을 하시면 됩니다.



**한번 로그인에 실패하면  
복잡해지기 때문에  
꼭 비밀번호를 제대로  
확인해주시길 바랍니다**

## 원격 저장소에 업로드 완료

The screenshot shows a GitHub repository page for 'HomeworkRepository' (ID: 2022324176). The repository is public and has 1 branch (main) and 0 tags. The commit history shows a single commit '2022324176 Hello world!' with the file 'index.html' added. The repository has 0 stars, 1 watcher, and 0 forks. The page includes a navigation bar with links to Pull requests, Issues, Codespaces, Marketplace, and Explore. The footer contains the GitHub logo, copyright information, and various links like Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

github.com/2022324176/HomeworkRepository

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

2022324176 / HomeworkRepository Public

Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file <> Code

2022324176 Hello world! 659cd1d 1 minute ago 1 commit

index.html Hello world! 1 minute ago

Help people interested in this repository understand your project by adding a README. Add a README

About

No description, website, or topics provided.

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

© 2023 GitHub, Inc. Terms Privacy Security Status Docs Contact GitHub Pricing API Training Blog About

# GitHub Page

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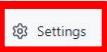
- GitHub의 파일들을 호스팅하여 GitHub Page라는 새로운 웹사이트를 만들 수 있음
- GitHub Page를 자신이 원하는 대로 디자인 할 수 있음



# GitHub Page

## • Settings 클릭

Click!



# GitHub Page

- Pages 클릭

The screenshot shows the GitHub repository settings page for 'HomeworkRepository'. The left sidebar contains a list of settings categories: General, Access, Code and automation, Security, and Integrations. The 'Pages' option under the 'Code and automation' section is highlighted with a red box and the text 'Click!'. The main content area shows the 'General' settings, including the repository name 'HomeworkRepository', options for 'Template repository' and 'Require contributors to sign off on web-based commits', and the 'Social Preview' section with an 'Edit' button.

github.com/2022324176/HomeworkRepository/settings

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

2022324176 / HomeworkRepository Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

**Click!** Pages

**General**

Repository name: HomeworkRepository [Rename]

☐ Template repository  
Template repositories let users generate new repositories with the same directory structure and files. [Learn more.](#)

☐ Require contributors to sign off on web-based commits  
Enabling this setting will require contributors to sign off on commits made through GitHub's web interface. Signing off is a way for contributors to affirm that their commit complies with the repository's terms, commonly the [Developer Certificate of Origin \(DCO\)](#). [Learn more about signing off on commits.](#)

**Social Preview**

Upload an image to customize your repository's social media preview.  
Images should be at least 640×320px (1280×640px for best display).  
[Download template](#)

[Edit]

# GitHub Page

- main 브랜치 선택 후 Save

The screenshot shows the GitHub repository settings page for 'HomeworkRepository'. The 'Pages' tab is selected in the left sidebar. In the 'Build and deployment' section, the 'Source' is set to 'Deploy from a branch'. The 'Branch' dropdown is currently set to 'None'. A 'Select branch' dialog is open, showing a list of branches with 'main' selected. A red box highlights the 'main' option, and a red arrow points to it with the text 'Click!'. The 'Save' button is visible next to the 'None' dropdown.

# GitHub Page

- GitHub Page를 수정하려면 로컬 저장소의 “index.html” 파일을 수정 후 GitHub에 다시 업로드(Push)

## GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at <https://202232417.github.io/HomeworkRepository/>

Last deployed by  202232417 2 minutes ago

[Visit site](#)

...

본인 학번(Username)으로 해야 함

Build and deployment


Source

Deploy from a branch ▾

Branch

Your GitHub Pages site is currently being built from the `main` branch. [Learn more.](#)

 `main` ▾

 `/ (root)` ▾

Save

Learn how to [add a Jekyll theme](#) to your site.

Your site was last deployed to the `github-pages` environment by the `pages build and deployment` workflow.

[Learn more about deploying to GitHub Pages using custom workflows](#)

**<https://학생번호.github.io/HomeworkRepository/>**  
로 나와야 성공적으로 GitHub Page를 만든 것 입니다