

과정 복습 및 결과물정리

first-project

▣ Network

- 환경설정 -> 준비물 생성 -> 네트워크 구성 -> 채널 생성

▣ Contract

- SimpleAsset

구현 -> 설치-> 배포

->구현 ->업그레이드

▣ Application (지갑, tx연동)

- WEB CLIENT

- WEB SERVER

Git

Git 소개



Git 소개

Git? Github?

- ▣ <https://www.youtube.com/watch?v=gEF6a4D0zec&feature=youtu.be>

Git 사용법

- ▣ <https://git-scm.com/book/ko/v2>

Github = 버전 관리 시스템

Git Download (Windows)

- ▣ <https://git-scm.com/download/win>



Downloading Git



You are downloading the latest (2.27.0) 64-bit version of Git for Windows. This is the most recent [maintained build](#). It was released 28 days ago, on 2020-06-01.

[Click here to download manually](#)

Other Git for Windows downloads

Git for Windows Setup

32-bit Git for Windows Setup.

64-bit Git for Windows Setup.

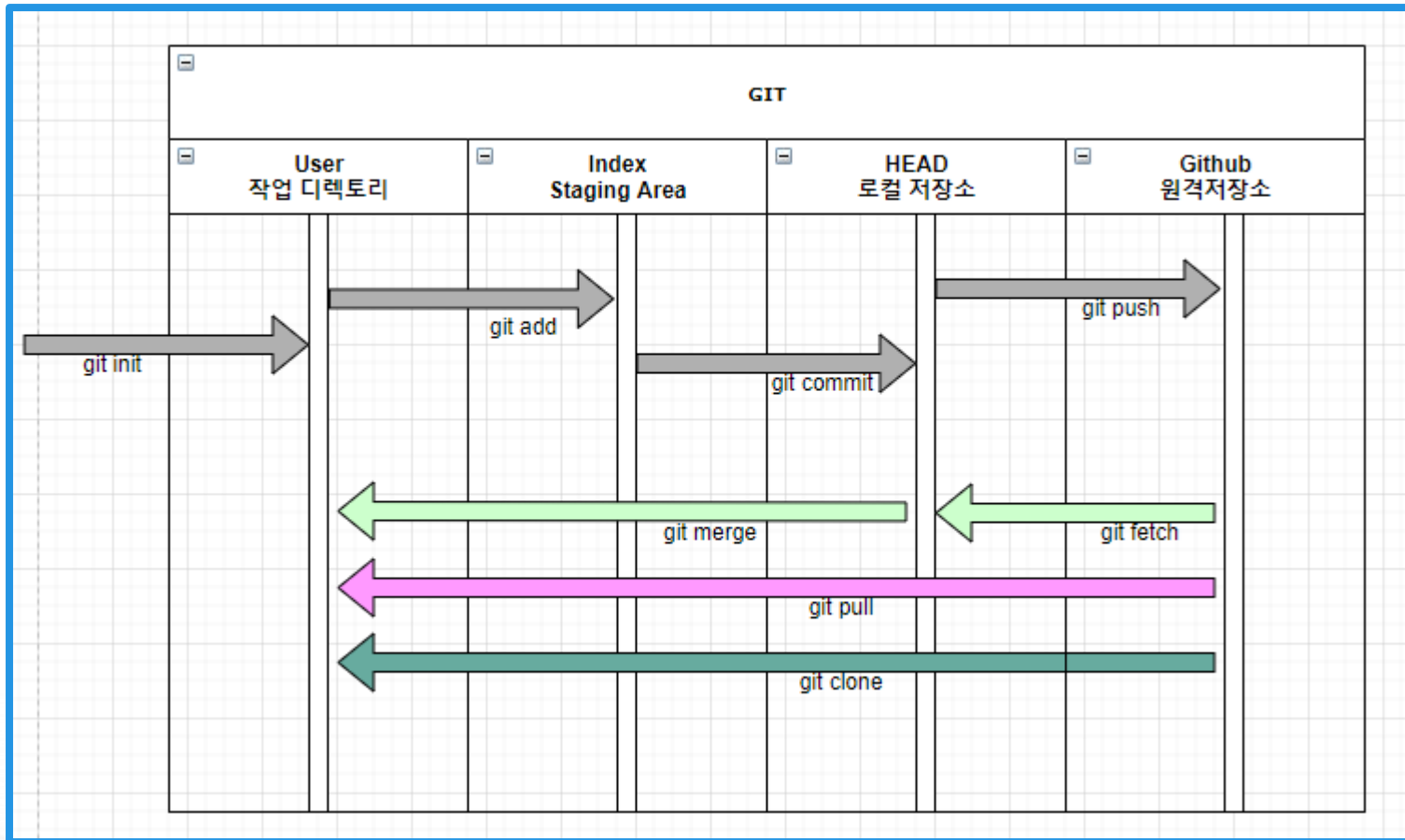
Git for Windows Portable ("thumbdrive edition")

32-bit Git for Windows Portable.

64-bit Git for Windows Portable.

The current source code release is version 2.27.0. If you want the newer version, you can build it from the source code.

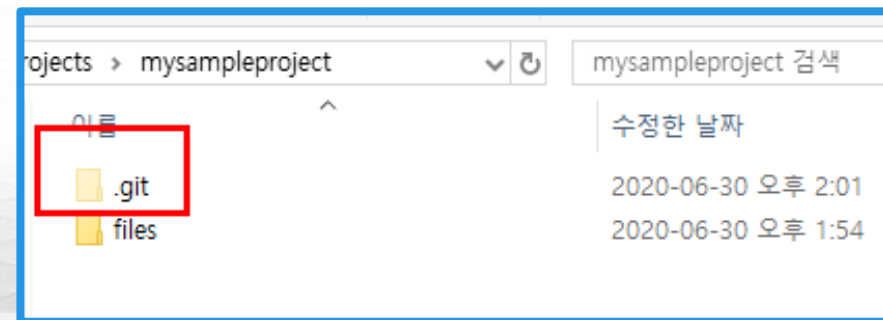
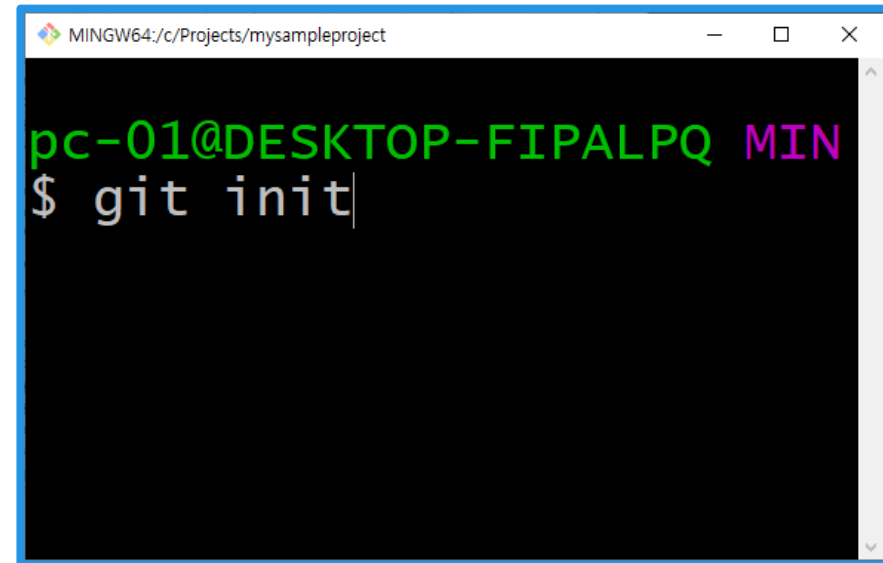
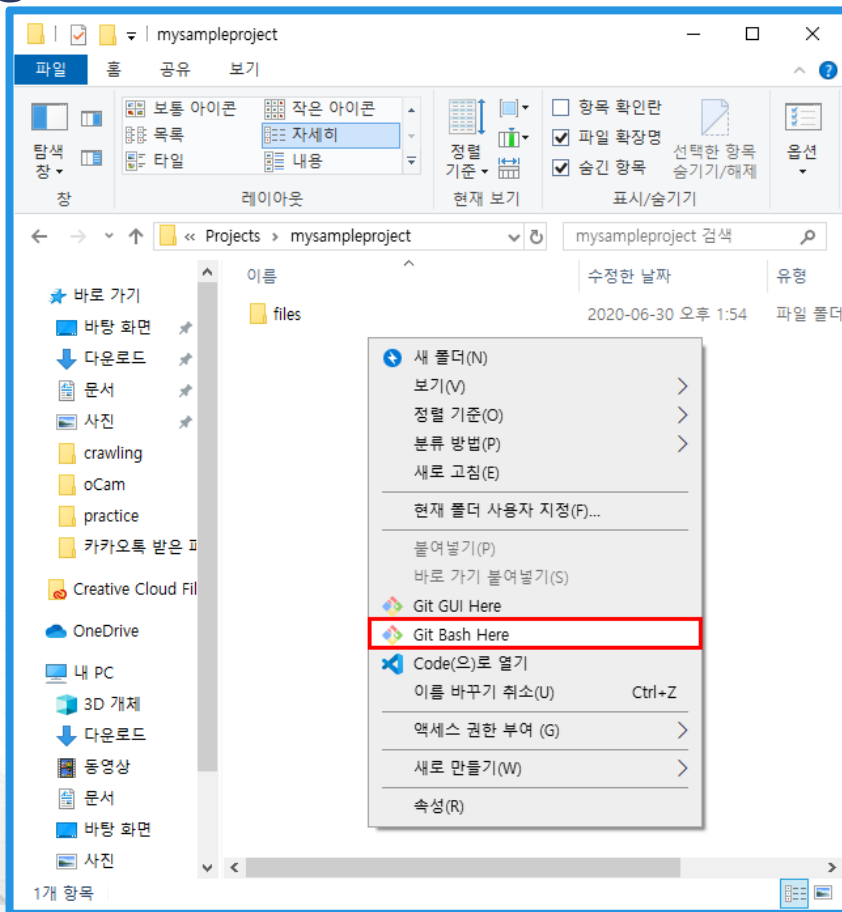
Git 소개



Git 소개

📁 Git 설치 후

📁 원하는 디렉토리에서 빈 곳 우클릭 - Git Bash Here - 터미널에
git init



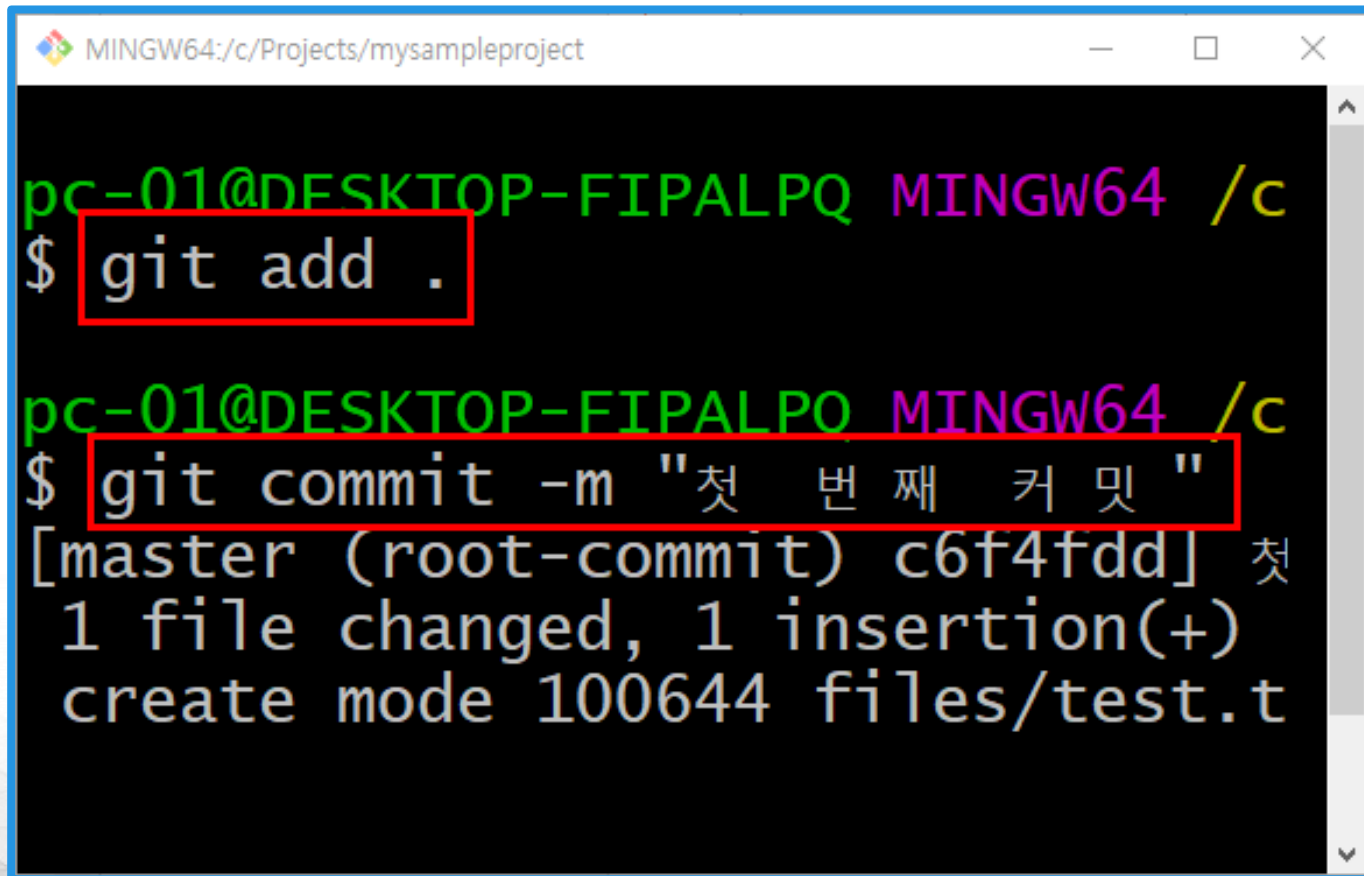
Git 소개

📁 내가 한 작업(변경 사항)을 추가하고 로컬 저장소에 기록하기

- ▣ git add .
- ▣ git commit -m "initial commit"

.은 현재 디렉토리를 의미함

> 현재 디렉토리에 있는 변경 사항을 모두 스테이징



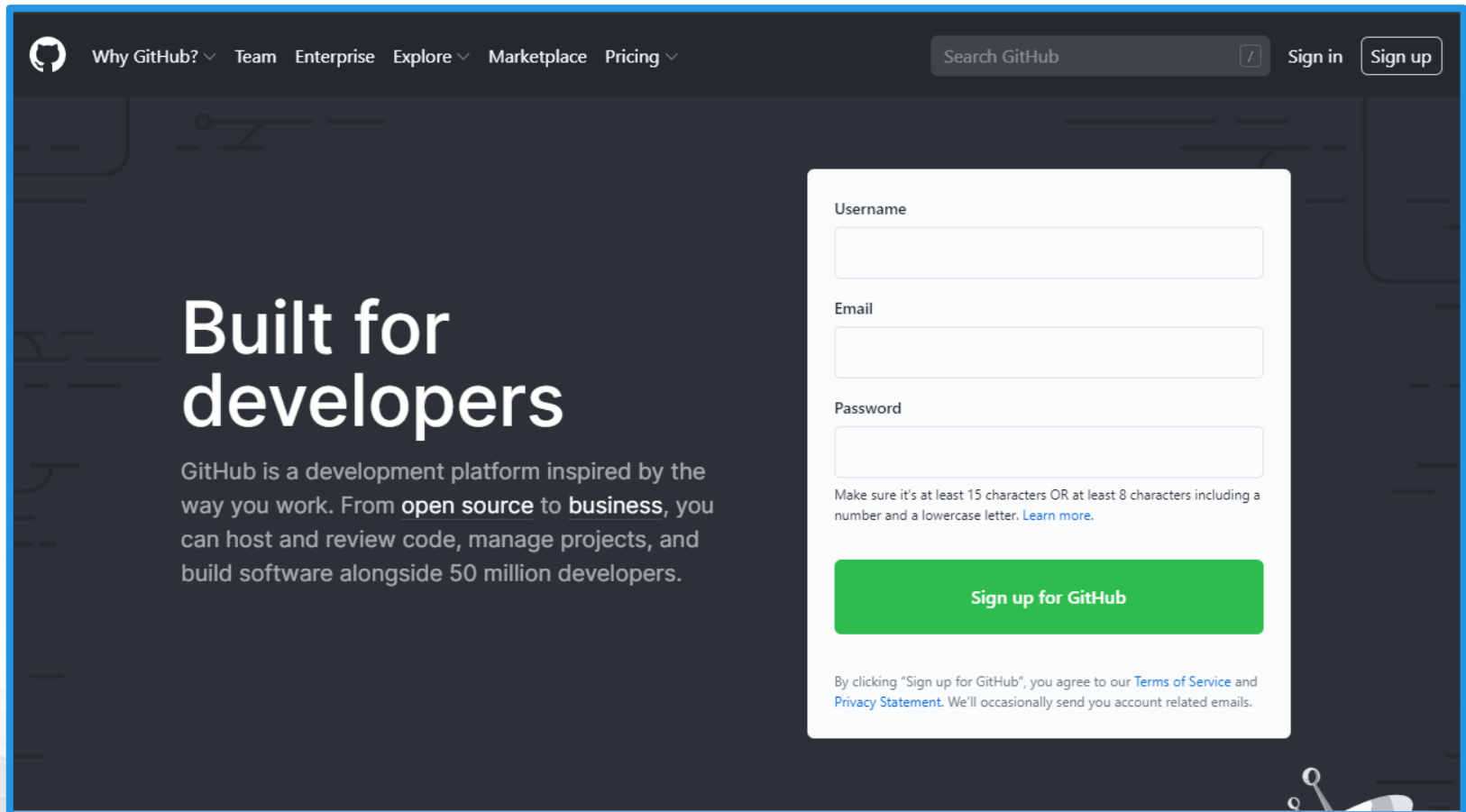
```
MINGW64:/c/Projects/mysampleproject

pc-01@DESKTOP-FIPALPQ MINGW64 /c
$ git add .

pc-01@DESKTOP-FIPALPO MINGW64 /c
$ git commit -m "첫 번째 커밋"
[master (root-commit) c6f4fdd] 첫
1 file changed, 1 insertion(+)
create mode 100644 files/test.t
```

Git 소개

- 📁 내가 한 작업 (변경 사항)을 추가하고 원격 저장소에 기록하기
- 📁 Github 회원 가입 (<https://github.com>)



The screenshot shows the GitHub homepage with a dark theme. On the left, the text 'Built for developers' is prominently displayed, followed by a description of GitHub as a development platform. On the right, there is a white sign-up form with fields for 'Username', 'Email', and 'Password'. Below the password field, there is a note about password requirements and a 'Learn more' link. A large green button labeled 'Sign up for GitHub' is positioned below the form. At the bottom of the form, there is a disclaimer about agreeing to the Terms of Service and Privacy Statement.

Why GitHub? Team Enterprise Explore Marketplace Pricing

Search GitHub

Sign in Sign up

Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside 50 million developers.

Username

Email

Password

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

Git 소개

- 내가 한 작업(변경 사항)을 추가하고 원격 저장소에 기록하기
- Repositories 탭으로 이동

The screenshot shows a GitHub profile for user 'chpark' (ch-4ml). The 'Repositories' tab is highlighted with a red box. The profile includes a circular profile picture, a bio, and contact information. The 'Popular repositories' section lists several projects: 'TimingRush' (Node.js final term project, CSS, 3 stars), 'quizShow' (Quiz Show Dapp (Ethereum), Java), 'HSG' (캡스톤디자인 HSGlobal 홈페이지 구축 프로젝트입니다, CSS), 'flask_tutorials' (Python), 'voting-app' (교수님께서 의탁하신 교회 투표 앱입니다, JavaScript, 1 star), and 'my-reactnative-app' (reactnative tutorial, JavaScript). At the bottom, there is a '575 contributions in the last year' section with a calendar heatmap showing activity from July to June. The heatmap shows a high density of contributions in the latter half of the year, particularly in November and December. A legend at the bottom right indicates that darker green squares represent more contributions.

Git 소개

📁 내가 한 작업 (변경 사항)을 추가하고 원격 저장소에 기록하기

📁 New 클릭

The screenshot shows the GitHub profile of a user named 'chpark' (ch-4ml). The profile includes a circular profile picture of a man with glasses, a bio, and links to social media. The 'Repositories' tab is selected, showing a list of repositories: 'machine-learning-study', 'crawling', 'lol-boosting', 'simulated-hacking', and 'hf-voting-server'. Each repository entry includes its name, language (e.g., Jupyter Notebook, HTML, Python, Shell), update time, and a 'Star' button. A red box highlights the 'New' button in the top right corner of the repository list, indicating where to click to create a new repository.

Git 소개

- 📁 내가 한 작업 (변경 사항)을 추가하고 원격 저장소에 기록하기
- 📁 세부 사항 입력 후 Create repository 클릭

Create a new repository

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

Owner *

Repository name *

ch-4ml / my-first-remote-repository ✓

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

Description (optional)

설명

☒ 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.

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

☐ Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: None Add a license: None ⓘ

Create repository

Git 소개

- 📁 내가 한 작업 (변경 사항)을 추가하고 원격 저장소에 기록하기
- 📁 Git bash에서 추가로 입력

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

[Read the guide](#)

ch-4ml / my-first-remote-repository

[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/ch-4ml/my-first-remote-repository.git`

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 "# my-first-remote-repository" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin:https://github.com/ch-4ml/my-first-remote-repository.git
git push -u origin master
```

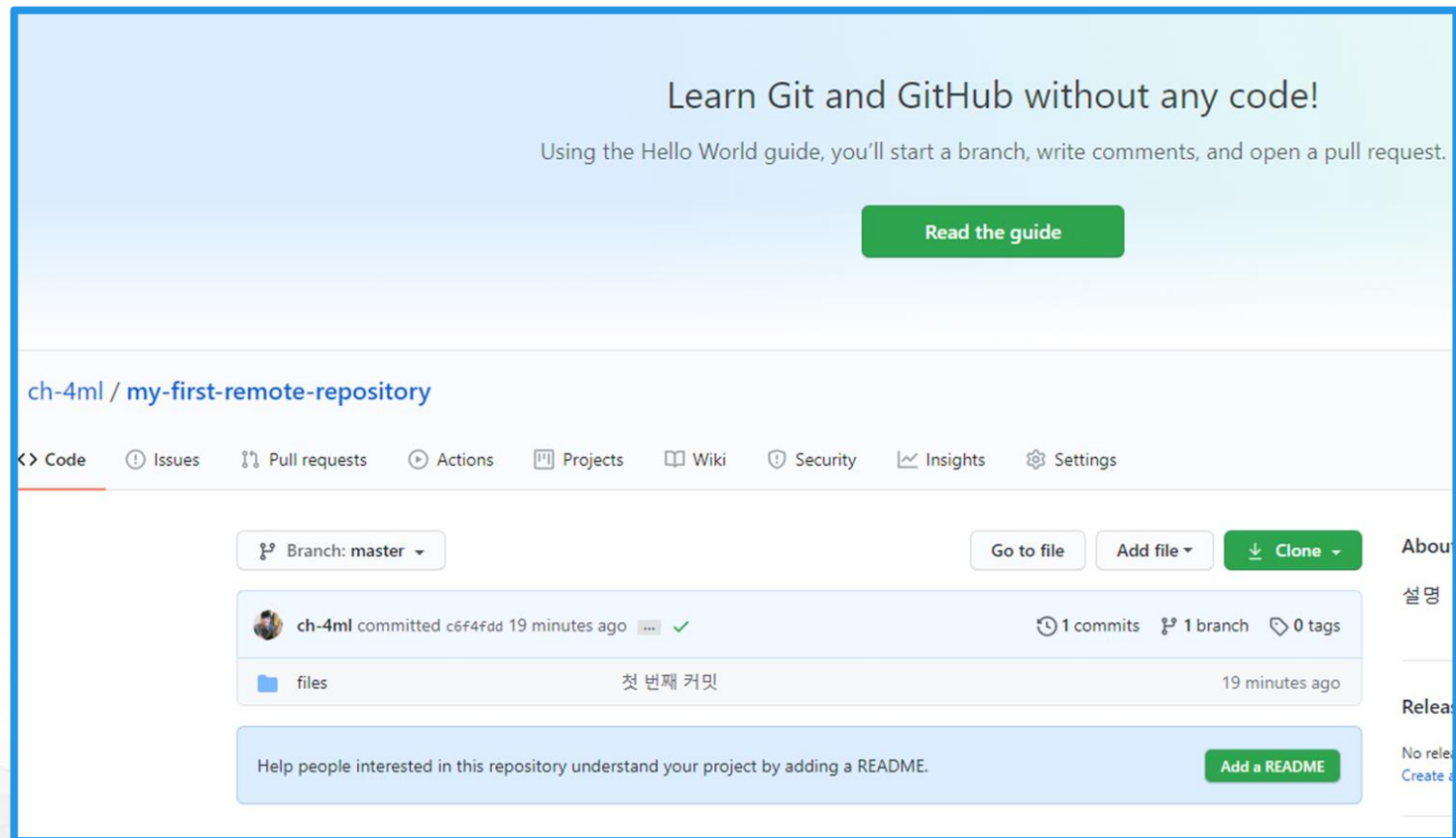
Git 소개

- 📦 내가 한 작업(변경 사항)을 추가하고 원격 저장소에 기록하기
- 📦 Git bash에서 추가로 입력

```
$ git remote add origin https://github.com/ch-4ml/my-first-remote-repository.git  
$ cd /c/Projects/mysampleproject (master)  
$ git push -u origin master  
Enumerating objects: 4, done.  
Counting objects: 100% (4/4), done.  
Writing objects: 100% (4/4), 270 bytes | 270.00 KiB/s, done.  
Total 4 (delta 0), reused 0 (delta 0)  
To https://github.com/ch-4ml/my-first-remote-repository.git  
* [new branch]      master -> master  
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

Git 소개

- 📁 내가 한 작업 (변경 사항)을 추가하고 원격 저장소에 기록하기
- 📁 Remote repository에 내가 한 작업 저장 성공

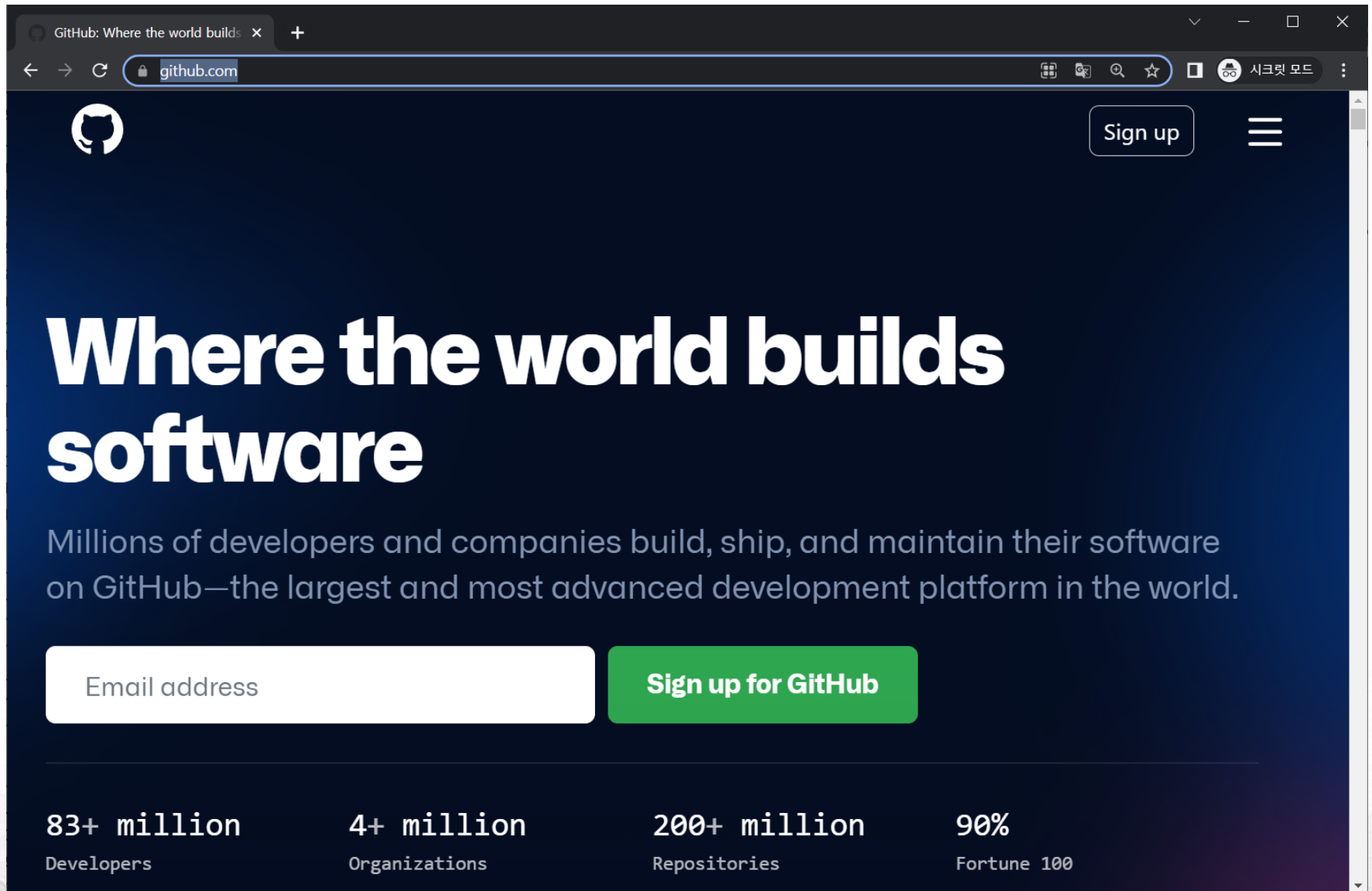


소스코드 정리

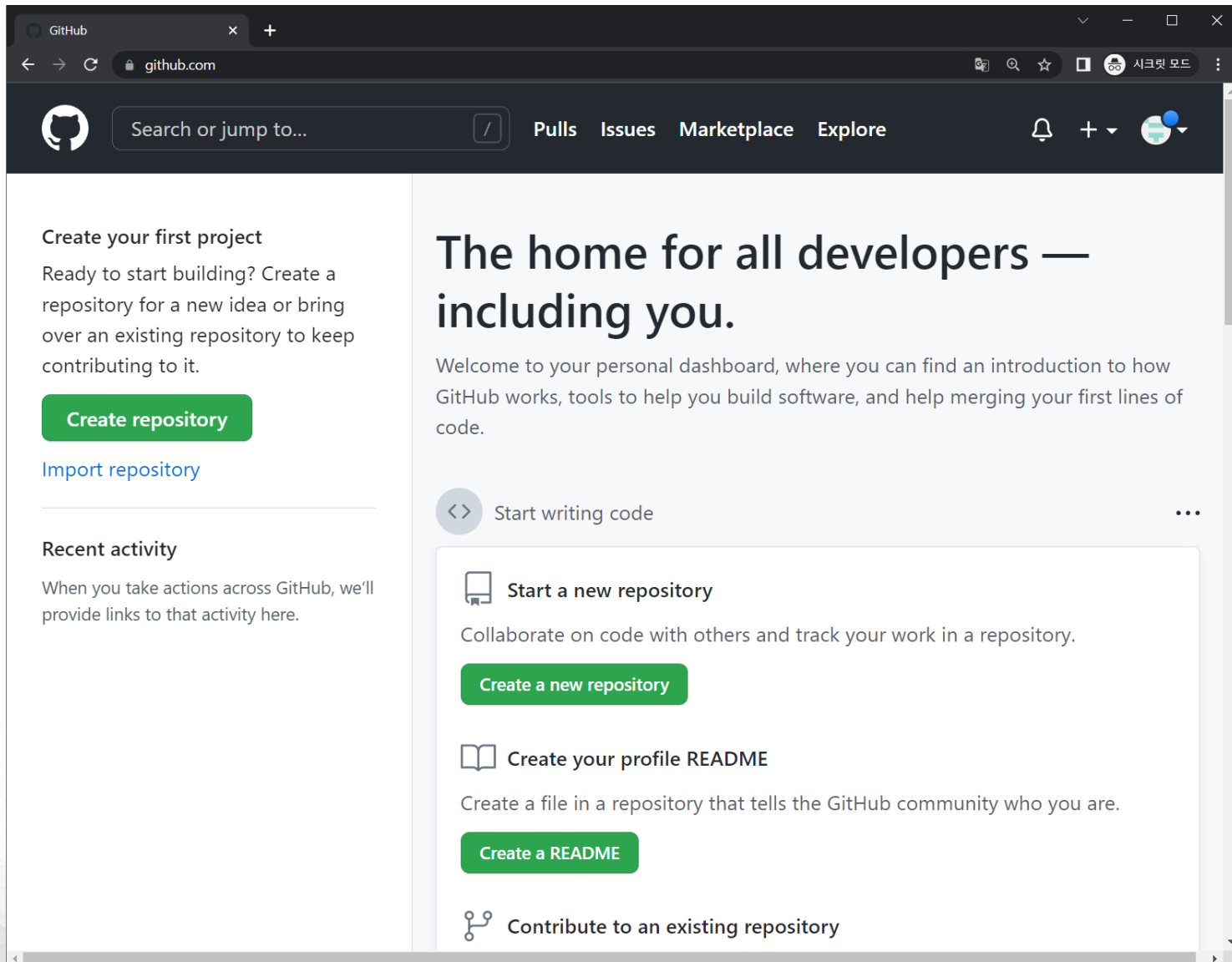
```
./
├── application
│   ├── connection.json
│   ├── enrollAdmin.js
│   ├── package.json
│   ├── package-lock.json
│   ├── registerUser.js
│   ├── server.js
│   └── views
│       ├── admin-wallet.html
│       ├── create.html
│       ├── history.html
│       ├── index.html
│       ├── query.html
│       ├── result.html
│       ├── transfer.html
│       ├── unauth.html
│       └── user-wallet.html
├── contract
│   └── simpleasset
│       ├── 1.0
│       │   ├── install.sh
│       │   └── simpleasset.go
│       └── 1.1
│           ├── simpleasset.go
│           └── upgrade.sh
└── network
    ├── config
    ├── configtx.yaml
    ├── crypto-config.yaml
    ├── docker-compose.yml
    ├── generate.sh
    ├── start.sh
    └── teardown.sh
```

8 directories, 25 files

`bstudent@bstudentvb:~/dev/first-project$`



create repository



연동 안내

The screenshot shows the GitHub web interface for a repository named 'khoonchoi/first-project'. The repository is public and has 1 unwatch, 0 forks, and 0 stars. The 'Code' tab is selected, showing options to set up the repository in a desktop environment or via HTTPS/SSH. A blue callout box with the text 'git add .' points to the 'git add README.md' command in the terminal instructions.

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

Set up in Desktop or HTTPS SSH `https://github.com/khoonchoi/first-project.git`

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

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

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

git add .

```
bstudent@bstudentvb:~/dev/first-project$ git init
Initialized empty Git repository in /home/bstudent/dev/first-project/.git/
bstudent@bstudentvb:~/dev/first-project$ ls -la
total 24
drwxrwxr-x 6 bstudent bstudent 4096 May 30 02:38 .
drwxrwxr-x 9 bstudent bstudent 4096 May 11 00:14 ..
drwxrwxr-x 3 bstudent bstudent 4096 May 30 02:29 application
drwxrwxr-x 3 bstudent bstudent 4096 May 30 02:29 contract
drwxrwxr-x 7 bstudent bstudent 4096 May 30 02:38 .git
drwxrwxr-x 3 bstudent bstudent 4096 May 30 02:30 network
bstudent@bstudentvb:~/dev/first-project$
bstudent@bstudentvb:~/dev/first-project$ git add .
bstudent@bstudentvb:~/dev/first-project$ git commit -m "first commit"
```

*** Please tell me who you are.

Run

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

to set your account's default identity.

Omit --global to set the identity only in this repository.

```
fatal: unable to auto-detect email address (got 'bstudent@bstudentvb.(none)')
bstudent@bstudentvb:~/dev/first-project$ git config --global user.email "khoonchoi@gmail.com"
bstudent@bstudentvb:~/dev/first-project$ git config --global user.name "khoonchoi"
```

```

bstudent@bstudentvb:~/dev/first-project$ git commit -m "first commit"
[master (root-commit) 9163eb1] first commit
26 files changed, 3561 insertions(+)
create mode 100644 application/connection.json
create mode 100644 application/enrollAdmin.js
create mode 100644 application/package-lock.json
create mode 100644 application/package.json
create mode 100644 application/registerUser.js
create mode 100644 application/server.js
create mode 100644 application/views/admin-wallet.html
create mode 100644 application/views/create.html
create mode 100644 application/views/history.html
create mode 100644 application/views/index.html
create mode 100644 application/views/query.html
create mode 100644 application/views/result.html
create mode 100644 application/views/transfer.html
create mode 100644 application/views/unauth.html
create mode 100644 application/views/user-wallet.html
create mode 100755 contract/simpleasset/1.0/install.sh
create mode 100644 contract/simpleasset/1.0/simpleasset.go
create mode 100644 contract/simpleasset/1.1/simpleasset.go
create mode 100755 contract/simpleasset/1.1/upgrade.sh
create mode 100644 network/.env
create mode 100644 network/configtx.yaml
create mode 100644 network/crypto-config.yaml
create mode 100644 network/docker-compose.yml
create mode 100755 network/generate.sh
create mode 100755 network/start.sh
create mode 100755 network/teardown.sh
bstudent@bstudentvb:~/dev/first-project$ git branch -M main
bstudent@bstudentvb:~/dev/first-project$ git remote add origin https://github.com/khoonchoi/first-project.git
bstudent@bstudentvb:~/dev/first-project$ git push -u origin main
Username for 'https://github.com': khoonchoi
Password for 'https://khoonchoi@github.com':
remote: Support for password authentication was removed on August 13, 2021. Please use a personal access token instead.
remote: Please see https://github.blog/2020-12-15-token-authentication-requirements-for-git-operations/ for more information.
fatal: Authentication failed for 'https://github.com/khoonchoi/first-project.git/'

```

github -> 계정 -> setting -> developer setting

personal access tokens -> generate

Personal access tokens

[Generate new token](#)[Revoke all](#)

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

✓ ghp_CqgUITGZ91aZvkaZiMc3

[Delete](#)

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

```
bstudent@bstudentvb:~/dev/first-project$ git push -u origin main
Username for 'https://github.com': khoonchoi
Password for 'https://khoonchoi@github.com':
Enumerating objects: 35, done.
Counting objects: 100% (35/35), done.
Delta compression using up to 3 threads
Compressing objects: 100% (33/33), done.
Writing objects: 100% (35/35), 36.49 KiB | 1.74 MiB/s, done.
Total 35 (delta 9), reused 0 (delta 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/khoonchoi/first-project.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
```

업로드 확인

The screenshot shows a web browser window displaying the GitHub repository page for 'khoonchoi/first-project'. The browser's address bar shows the URL 'github.com/khoonchoi/first-project'. The repository is public and has 1 watch, 0 forks, and 0 stars. The main content area shows a commit history table with three entries, all labeled 'first commit' and made '9 minutes ago'. The files listed are 'application', 'contract/simpl...', and 'network'. A blue banner at the bottom of the commit list encourages adding a README. The right sidebar contains sections for 'About' (no description), 'Releases' (no releases published), and 'Packages' (no packages published).

khoonchoi/first-project

Search or jump to... Pulls Issues Marketplace Explore

khoonchoi / first-project Public Pin Unwatch 1 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights

main Go to file Add file Code 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

File	Commit	Time
application	first commit	9 minutes ago
contract/simpl...	first commit	9 minutes ago
network	first commit	9 minutes ago

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