

Remote 저장소

Auto Mobile Robot

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1 Remote 저장소

- Clone 하여 한번 사용해봤다.
- Local Repository 에서 Push, Pull (Fetch) 하여 동기화 할 수 있다.

2 Remote 저장소 추가

```
git remote add <name> <remote_repository_url>
```

3 Remote 저장소 기본 이름

```
git remote add origin <remote_repository_url>
```

4 Remote 저장소 주소 수정

```
git remote set-url origin <remote_repository_url>
```

5 Remote 저장소 이름 수정

```
git remote rename <old_name> <new_name>
```


6 Remote 저장소 삭제

```
git remote remove <name>
```

7 Remote 저장소 정보 확인

```
git remote -v
```

8 Remote 저장소 상세 보기

```
git remote show <name>
```

9 Pull

- Remote Repository 의 작업 내용을 Local Repository 에 동기화 하기
- 사실은 Fetch 와 Merge 의 과정

```
git pull <name> <branch_name>
```

```
git pull origin main // local repository 에 remote repository main branch 를 pull
```

10 Push

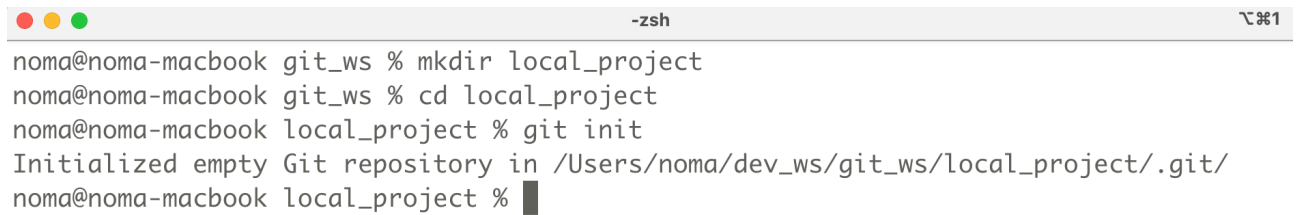
- Local Repository 에서 작업한 내용을 공유하고 싶을 때
- Branch 이름을 생략할 경우,

```
git push <name> <branch_name>
```

```
git pull origin main // remote repository 에 main branch 를 push
```

11 그림 연동해보자.

11.1 Local 저장소 만들기



```
noma@noma-macbook git_ws % mkdir local_project
noma@noma-macbook git_ws % cd local_project
noma@noma-macbook local_project % git init
Initialized empty Git repository in /Users/noma/dev_ws/git_ws/local_project/.git/
noma@noma-macbook local_project %
```


11.2 비어있는 Remote 저장소 만들기

Create a new repository

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

Required fields are marked with an asterisk (*).



Owner * Repository name *

 pinknoma ▼ /

✔ local_project is available.

Great repository names are short and memorable. Need inspiration? How about [shiny-palm-tree](#) ?

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:

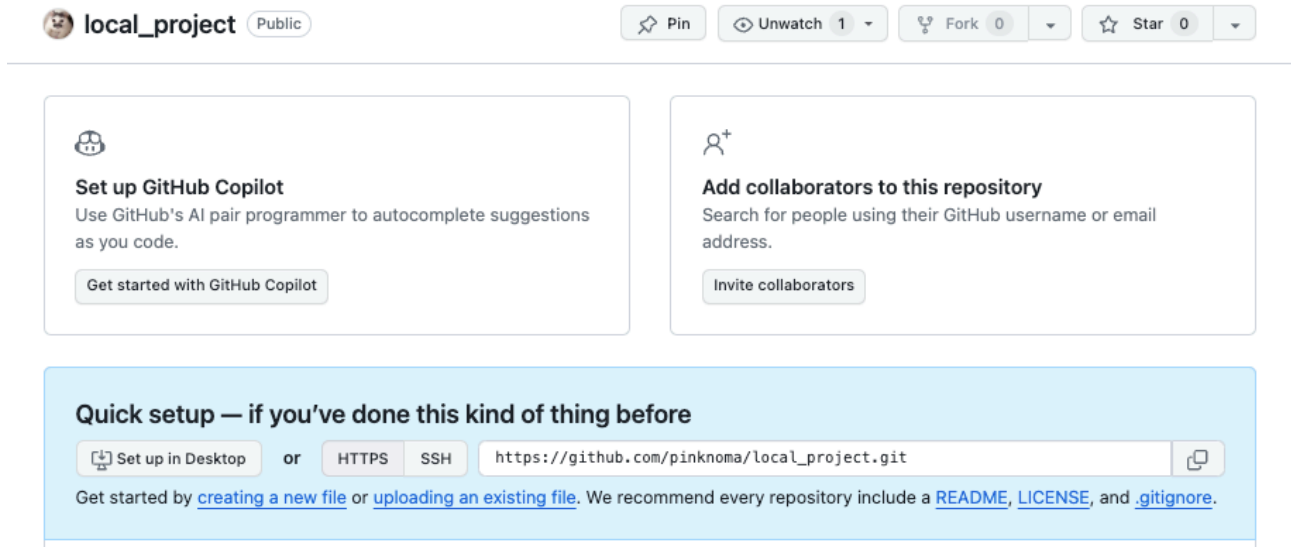
- ☐ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: **None** ▼

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

11.3 Remote 저장소 URL + Token 복사



11.4 Local 저장소에 Remote 저장소 주소 추가

```
noma@noma-macbook local_project % git remote add noma https://github.com/pinknoma/local_project.git
noma@noma-macbook local_project % git remote -v
noma      https://github.com/pinknoma/local_project.git (fetch)
noma      https://github.com/pinknoma/local_project.git (push)
noma@noma-macbook local_project %
```

11.5 저장소 이름은 항상 origin 으로

```
noma@noma-macbook local_project % git remote rename noma origin
noma@noma-macbook local_project % git remote -v
origin    https://github.com/pinknoma/local_project.git (fetch)
origin    https://github.com/pinknoma/local_project.git (push)
noma@noma-macbook local_project %
```


11.6 Token 이 빠졌네요

```

noma@noma-macbook local_project % git remote set-url origin https://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@github.com/pinknoma/local_project.git
noma@noma-macbook local_project % git remote -v
origin  https://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@github.com/pinknoma/local_project.git (fetch)
origin  https://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@github.com/pinknoma/local_project.git (push)
noma@noma-macbook local_project % █

```

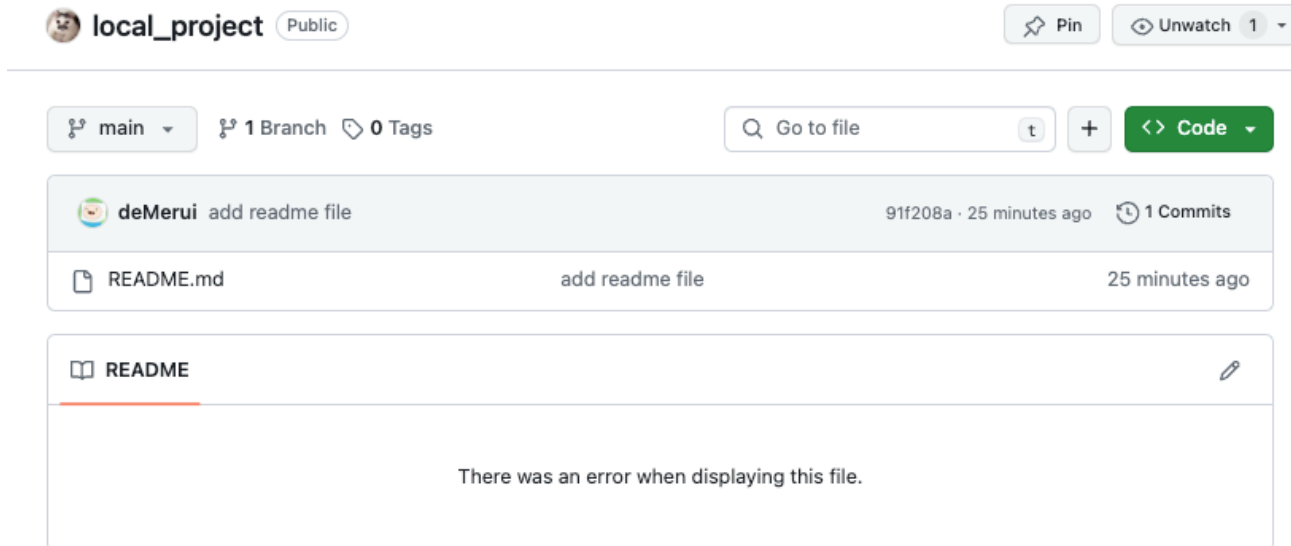
11.7 자 이제 Local 저장소 작업내용을 Remote 저장소에 Push 해보자

```

noma@noma-macbook local_project % touch README.md
noma@noma-macbook local_project % git add README.md
noma@noma-macbook local_project % git commit -m "add readme file"
[main (root-commit) 91f208a] add readme file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
noma@noma-macbook local_project % git status
On branch main
nothing to commit, working tree clean
noma@noma-macbook local_project % git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 208 bytes | 208.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/pinknoma/local_project.git
 * [new branch]      main -> main
noma@noma-macbook local_project %

```

11.8 Remote 저장소는?



11.9 이번에는 Remote 저장소 만들기

Create a new repository

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

Required fields are marked with an asterisk (*).

Owner * / Repository name *

pinknoma / remote_project

✔ remote_project is available.

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

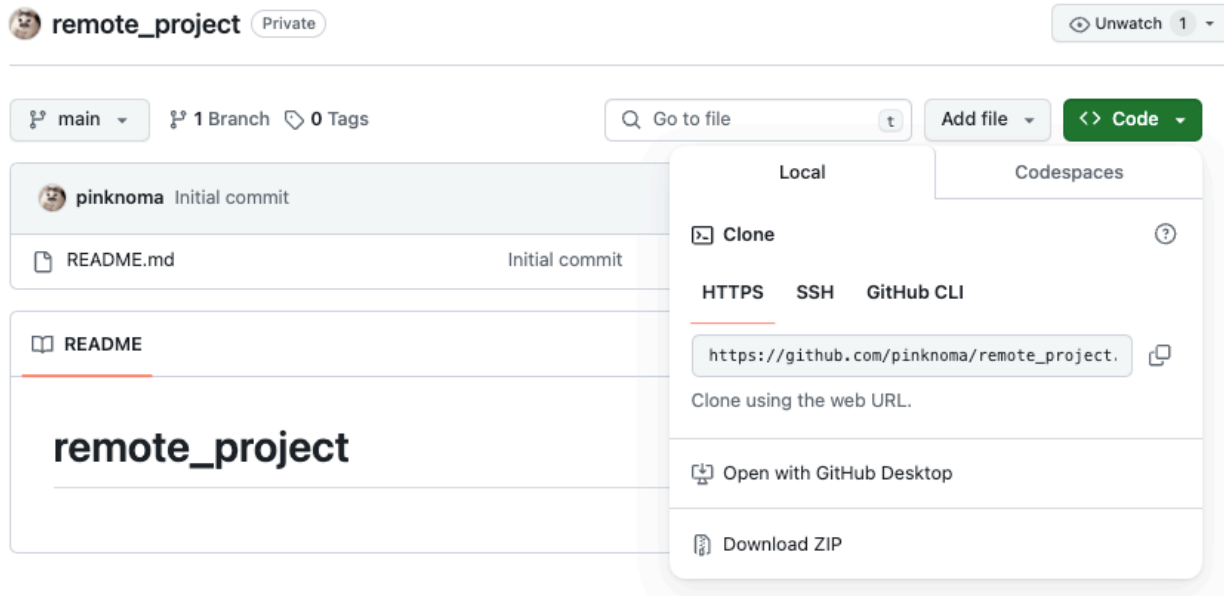
Description (optional)

- ☐ **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:

- ☒ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

11.10 주소를 복사해서..



11.11 Local 저장소에 Clone

```
noma@noma-macbook local_project % cd ..
noma@noma-macbook git_ws % git clone https://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@github.com/pinknoma/remote_project.git
Cloning into 'remote_project'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
noma@noma-macbook git_ws % cd remote_project
noma@noma-macbook remote_project % ls -all
total 8
drwxr-xr-x@ 4 noma  staff  128 Mar  5 17:44 .
drwxr-xr-x  4 noma  staff  128 Mar  5 17:44 ..
drwxr-xr-x@ 12 noma  staff  384 Mar  5 17:44 .git
-rw-r--r--@ 1 noma  staff   16 Mar  5 17:44 README.md
noma@noma-macbook remote_project %
```

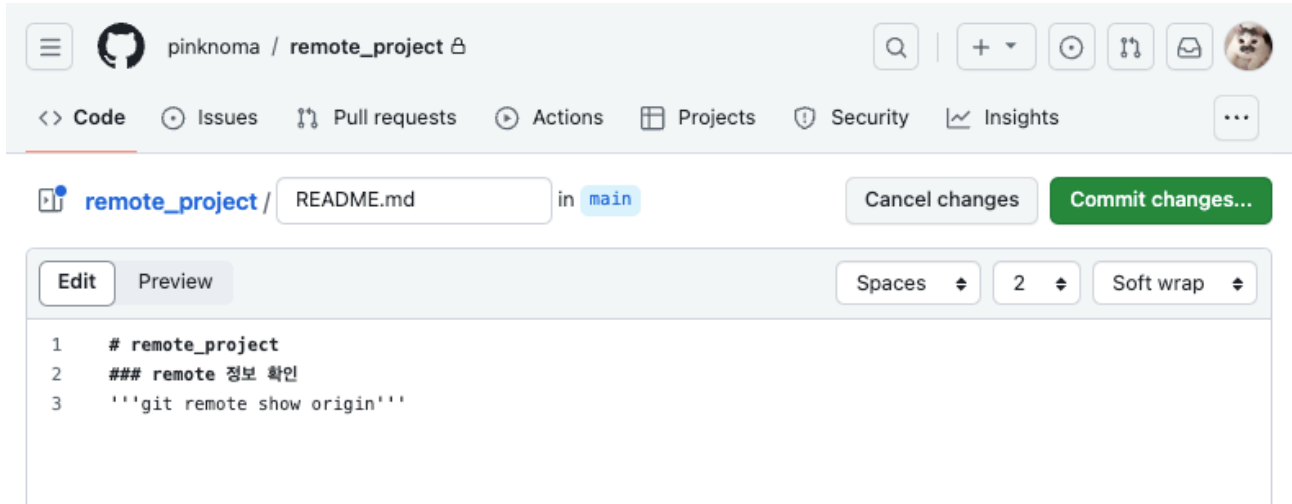
11.12 이제보니 Clone 은



11.13 Remote 저장소 정보 확인

```
noma@noma-macbook remote_project % git remote show origin
* remote origin
  Fetch URL: https://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@github.com/pinknoma/remote_project.git
  Push URL: https://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@github.com/pinknoma/remote_project.git
  HEAD branch: main
  Remote branch:
    main tracked
  Local branch configured for 'git pull':
    main merges with remote main
  Local ref configured for 'git push':
    main pushes to main (up to date)
noma@noma-macbook remote_project %
```

11.14 GitHub 에서 README.md¹ 를 수정



11.15 GitHub 에서 수정내용을 Commit 할 수 있다

Commit changes
×

Commit message

Update README.md

Extended description

Add an optional extended description..


☒ Commit directly to the main branch
☐ Create a **new branch** for this commit and start a pull request
[Learn more about pull requests](#)

Cancel

Commit changes

¹ <http://README.md>

11.16 Readme


 **remote_project** Private

Unwatch 1

main 1 Branch 0 Tags

+

<> Code

 **pinknoma** Update README.md f7b4a4f · now 🕒 2 Commits

README.md Update README.md now

README

remote_project

remote 정보 확인

```
'''git remote show origin'''
```

11.17 변경이력 확인

The screenshot shows the GitHub interface for the repository 'pinknoma / remote_project'. The 'Commits' tab is selected, showing the commit history for the file 'README.md' on the 'main' branch. The history includes two commits:

- Update README.md**: Committed by pinknoma 'now'. The commit hash is f7b4a4f. It is marked as 'Verified'.
- Initial commit**: Committed by pinknoma '9 minutes ago'. The commit hash is 4652ecb. It is also marked as 'Verified'.

At the bottom of the commit history, it says 'End of commit history for this file'.

11.18 Local 저장소에서 Pull 해보면

```
noma@noma-macbook remote_project % git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 948 bytes | 948.00 KiB/s, done.
From https://github.com/pinknoma/remote_project
* branch          main          -> FETCH_HEAD
   4652ecb..f7b4a4f  main          -> origin/main
Updating 4652ecb..f7b4a4f
Fast-forward
 README.md | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)
noma@noma-macbook remote_project %
```

11.19 GitHub 의 수정이력이 반영되어 있다

```
noma@noma-macbook remote_project % git log --oneline
d8e72ff (HEAD -> main, origin/main, origin/HEAD) Update README.md
3a3df95 Initial commit
noma@noma-macbook remote_project %
```