

# Introduction to Github

**Il-Youp Kwak**

Chung-Ang University



# What is Git?

**1. Formal version control system**

**2. Developed by Linus Torvalds**

- used to manage the source code for Linux

**3. Tracks any content (mostly plain text files)**



# Why use Git?

1. **Fast**
2. **Amazingly good at merging simultaneous changes**
3. **Everyone's using it**



# **What is Github?**

- 1. Interface for exploring git repositories**
- 2. Like facebook for programmers**



# **Why use Github?**

- 1. Save history of changes of your codes**
- 2. Able to go back**
- 3. Merging Changes from multiple people**





Why GitHub? ▾ Team Enterprise Explore ▾ Marketplace Pricing ▾

Search GitHub



Sign in

Sign up

# Where the world builds software

Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world.

Email address

Sign up for GitHub



# Basic use

- **See what you've changed:** git status, git diff, git log
- **Indicate what changes to save:** git add
- **Commit to those changes:** git commit
- **Push the changes to GitHub:** git push
- **Pull changes from your collaborator:** git pull
- **Removing/moving:** git rm, git mv



# First use of git

```
> git config --global user.name "ikwak2"  
> git config --global user.email "ilyoup.kwak@gmail.com"
```





```
MINGW64/c:/Users/USER/Documents/testrepository
$ https://github.com/ikwak2/testrepository.git
bash: https://github.com/ikwak2/testrepository.git: No such file or directory

USER@DESKTOP-CHV3JCH MINGW64 ~
$ cd Documents/

USER@DESKTOP-CHV3JCH MINGW64 ~/Documents
$ git clone https://github.com/ikwak2/testrepository.git
Cloning into 'testrepository'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.

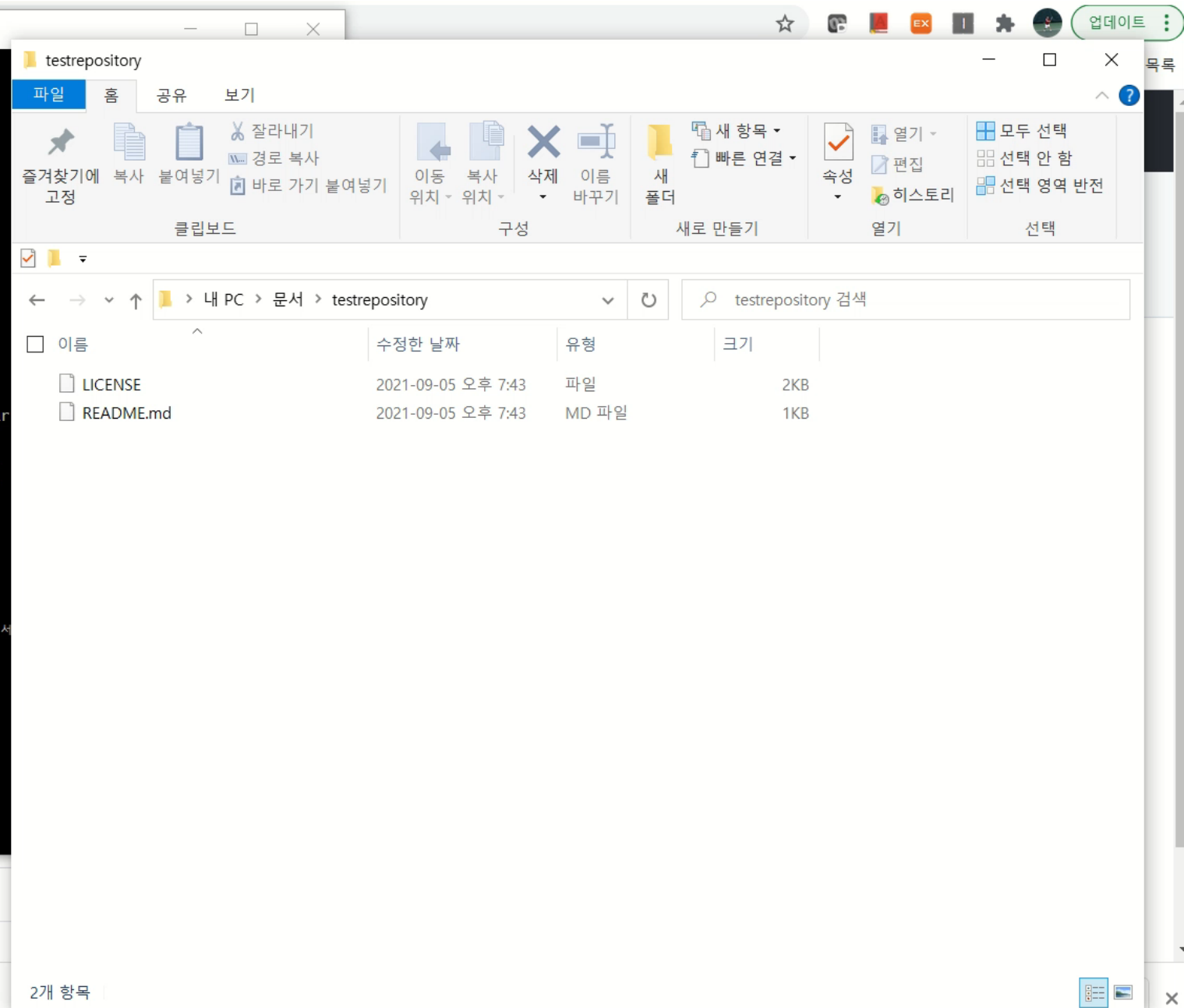
USER@DESKTOP-CHV3JCH MINGW64 ~/Documents
$

USER@DESKTOP-CHV3JCH MINGW64 ~/Documents
$ ls
'~$ContinuousRandomVariables(4).pptx'  'My Pictures'@  'w7_ContinuousRandomVar
CAU_ET/  'My Videos'@  'Welcome to Cell.cell'
classes/  nipa/  'Welcome to Hwp.hwp'
'ContinuousRandomVariables(5)R2.pptx'  'OneNote Notebooks'/'Welcome to Show.show'
'Custom Office Templates'/'prac_class/'  'Welcome to Word.hwdt'
DCLEAR/  R/  Zoom/
debugging_error.mp4  res.txt  zoom_0.mp4
Default.rdp  res_subC2.txt  기 타 /
desktop.ini  research_proposal/  는 술 기 출 문 제 /
FineVuPlayer2.0/  ResMax2.pdf  문 제 아 이 디 어 .txt
github사 용 법 .mp4  responseletter.docx  '새 폴더'/'
hw_logistics/  Talks/  '소리 녹음'/'
ikwak2.github.io/  testrepository/  어 가 경 제 조 사 _진 단 보 고 서
lec.mp4  textmining-tutorial/  이 체 확 인 증 .pdf
'My Music'@  w12_GenerativeDL.pptx  '카 카 오 톡 받 은 파 월'/'

USER@DESKTOP-CHV3JCH MINGW64 ~/Documents
$ cd testrepository/


USER@DESKTOP-CHV3JCH MINGW64 ~/Documents/testrepository (main)
$ ls
LICENSE  README.md

USER@DESKTOP-CHV3JCH MINGW64 ~/Documents/testrepository (main)
$
```







# Github Personal access token

<https://github.com/settings/tokens>

 Search or jump to...

Pull requestsIssuesMarketplaceExplore



Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved. 


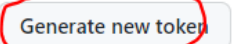
[Settings](#) / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

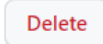
## Personal access tokens




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

**newtk** — *admin:enterprise, admin:gpg\_key, admin:org, admin:org\_hook, admin:public\_key, admin:repo\_hook, delete:packages, delete\_repo, gist, notifications, repo, user, workflow, write:discussion, write:packages*

Last used within the last week



Expires **on Thu, Dec 2 2021.**



# Git commit

```
> git status (did you miss any?)  
> git add . (or filenames)  
> git status (did you miss any?)  
> git commit -m "message"  
> git push
```



**Thank you!**

