

# Class 별 GitLab 관리 방법

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담당수업 학생용 메뉴얼

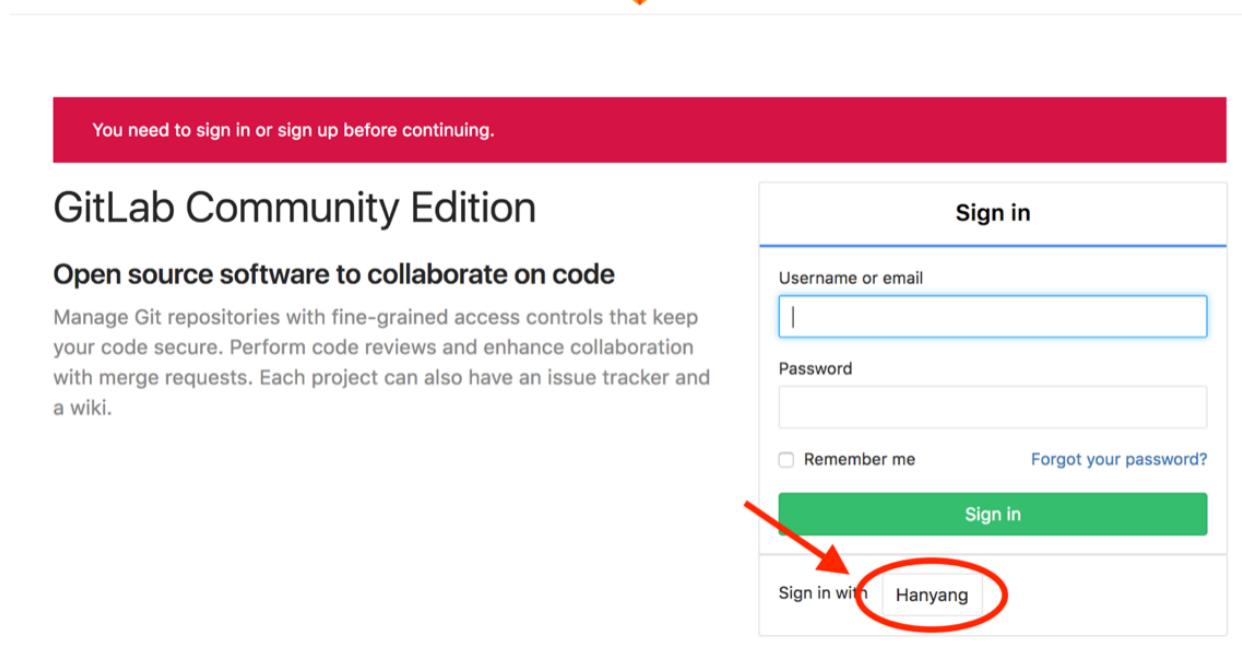
# Introduction

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- GitLab 로그인 및 초기 설정
- Git 설치

# GitLab 로그인 및 초기 설정

1. hconnect.hanyang.ac.kr 접속 후 Sign in with Hanyang 버튼 클릭



# GitLab 로그인 및 초기 설정

## 2. 한양인 계정으로 로그인



한양대학교 | 로그인

고객님의 정보에 접근하기 위하여 인증이 필요합니다.  
한양대학교 포털 한양인(HY-in)계정으로 로그인 하시기 바랍니다.

Portal Login

ID

Password

**로그인**

# GitLab 로그인 및 초기 설정

## 3. 정보 제공 동의



### 한양대학교 | 개인정보의 제 3자 제공동의 요청

한양대학교 OPEN API는 아래와 같은 개인정보를 온라인 소프트웨어 교육 지원 시스템 - Real에 제공합니다.

#### 제공 받는자

카네트재단 (온라인 소프트웨어 교육 지원 시스템 - REAL)

#### 제공 목적

웹상에서 학생 실습코드를 저장하고 빌드 하며 채점, 코드 리뷰를 수행하는 시스템입니다.

실습 코드 저장은 GITLABCE를 활용할 예정이고

코드 리뷰는 REVIEW BOARD, 빌드 및 채점은 JENKINS를 사용할 예정입니다.

한양대 도메인을 통해 서비스 하고 한양대 학생 인증을 적용할 예정입니다.

\*\* 실제 서비스를 사용자가 사용하는 환경입니다.

#### 제공 항목

모든 항목에 동의하시야만 이용 가능합니다.

전체 동의합니다. ☑

동의합니다. ☑

#### 로그인 사용자 정보조회

[포털에서 설정한 대표 신분 정보]  
로그인한 사용자의 성명, 사용자ID, 학번(개인번호), 재학(재직) 여부, 소속대학, 소속명, 소속코드, 소속ID, 사용자구분명의 정보를 제공합니다.

동의

거절

# GitLab 로그인 및 초기 설정

## 4. Password 설정

The screenshot shows a GitLab profile page for a user named 김종빈 (Kim Jongbin). At the top right, there is a navigation bar with a search field, a bell icon, and a gear icon. A dropdown menu is open, circled with a red number 1, showing options: Profile, Settings (which is highlighted with a red circle and a red number 2), Help, and Sign out.

The main profile area features a blue circular profile picture with a geometric pattern. Below it is the name 김종빈 and the handle @2007002245. It also indicates the user has been a member since Feb 13, 2017 at 12:38pm.

Below the profile information is a horizontal navigation bar with links: Activity (which is underlined in blue), Groups, Contributed projects, Personal projects, and Snippets.

The central part of the page is a timeline visualization. It shows a grid where each row represents a day of the month (Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec, Jan, Feb) and each column represents a week. The days of the week are labeled M, W, F. A small blue square is visible in the grid cell for the end of January and the beginning of February, indicating activity. Below this grid is a legend consisting of four colored squares (light gray, light blue, medium blue, dark blue).

At the bottom of the timeline section, the text "Summary of issues, merge requests, and push events" is displayed.

# GitLab 로그인 및 초기 설정

## 5. Email 설정

The screenshot shows the 'User Settings' page in GitLab. The top navigation bar includes 'Profile' (circled in red with a red number 1), 'Account', 'Applications', 'Chat', 'Access Tokens', 'Emails', 'Password', 'Notifications', 'SSH Keys', 'Preferences', and 'Audit Log'. A search bar and notification icons are also present.

**Public Avatar**: You can upload an avatar here or change it at [gravatar.com](https://gravatar.com). An uploaded green and white checkered Gravatar is shown.

**Upload new avatar**: Buttons for 'Browse file...' and 'No file chosen'. Text: 'The maximum file size allowed is 200KB.'

**Main settings**: This information will appear on your profile.

**Name**: 김종빈 (Input field)

**Email**: mrbin2002@gmail.com (Input field circled in red with a red number 2)

**Bio**: Tell us about yourself in fewer than 250 characters. (Empty input field)

**Update profile settings** (Green button circled in red with a red number 3)

**Cancel**

# GitLab 로그인 및 초기 설정

## 4. Password 설정

User Settings

Profile Account Applications Chat Access Tokens Emails **Password** Notifications SSH Keys Preferences Audit Log

**Password**

After a successful password update, you will be redirected to the login page where you can log in with your new password.

Change your password or recover your current one

**Current password**  
You must provide your current password in order to change it.

**New password**

**Password confirmation**

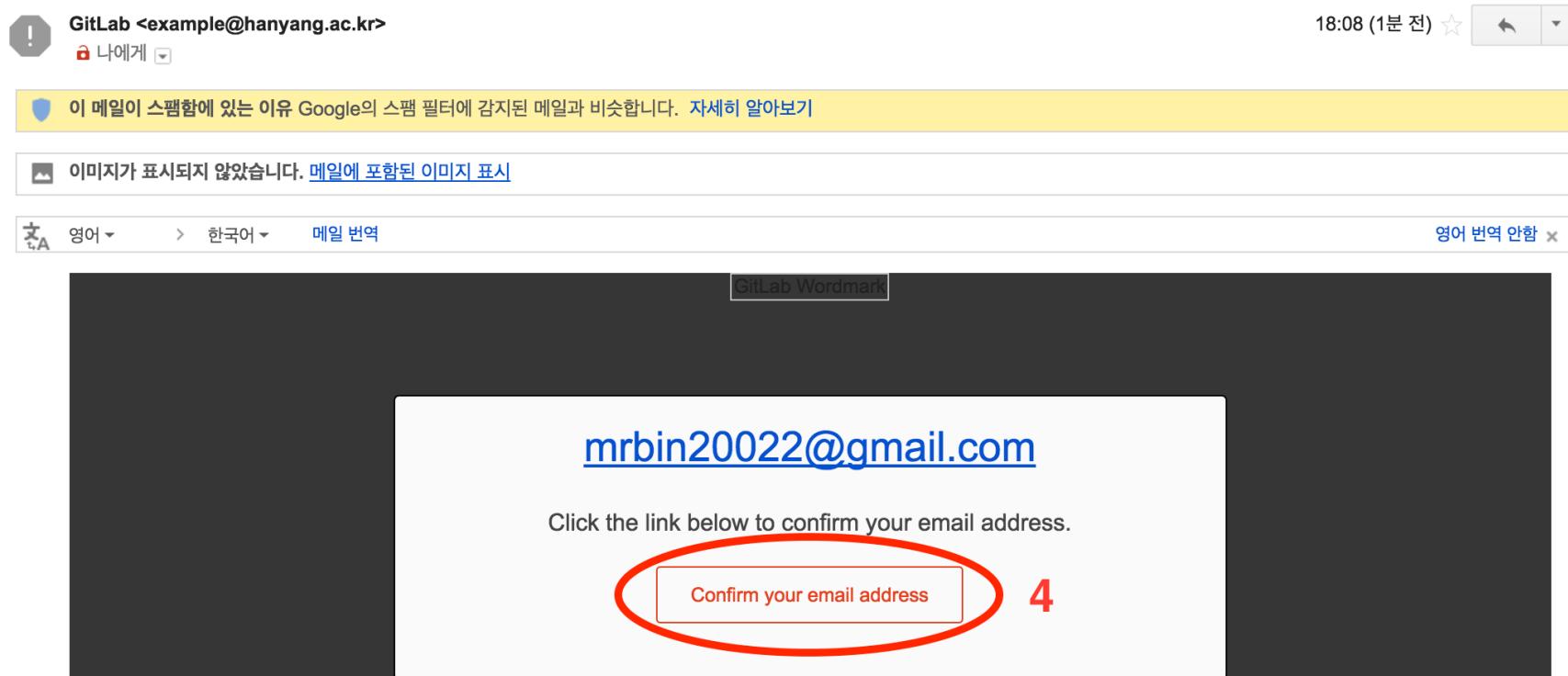
**Save password** forgot my password

초기 패스워드: 한양인 패스워드

3 4 5

# GitLab 로그인 및 초기 설정

## 5. Email 설정 - 변경한 email에서 승인



# GitLab 로그인 및 초기 설정

6. 이후 로그인은 학번/email과 변경한 password로 가능  
(Sign in with Hanyang을 거치지 않고)



## GitLab Community Edition

### Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Sign in

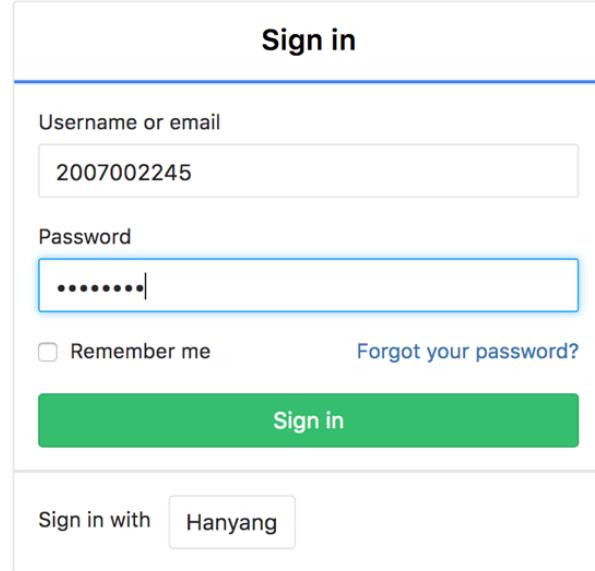
Username or email  
2007002245

Password  
.....|

Remember me      [Forgot your password?](#)

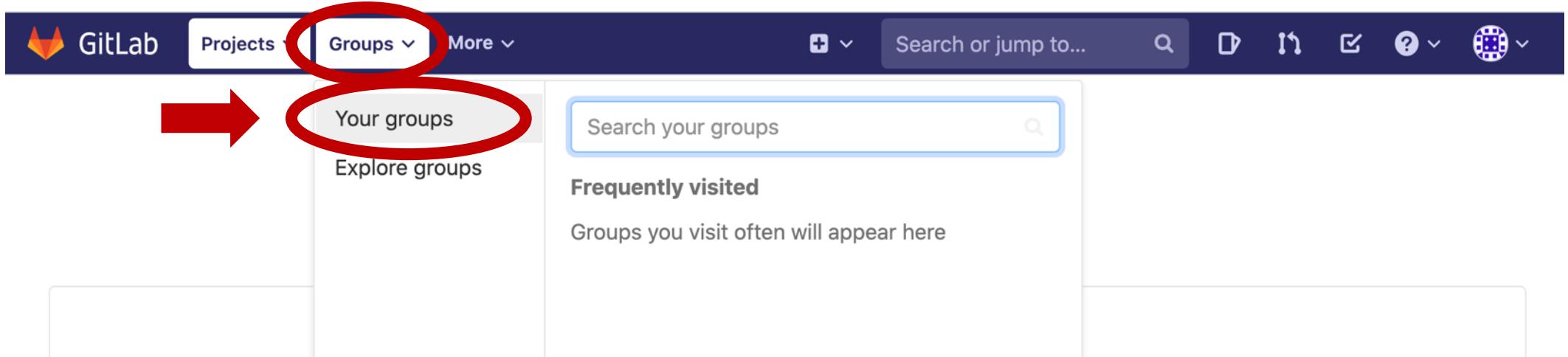
[Sign in](#)

Sign in with [Hanyang](#)



# 학생 프로젝트 생성

1. Groups -> Your groups 메뉴로 이동



# 학생 프로젝트 생성

2. Project를 추가할 그룹 선택

The screenshot shows the GitLab Groups page. At the top, there is a navigation bar with the GitLab logo, 'Projects', 'Groups' (which is highlighted), 'More', a search bar, and various icons. Below the navigation bar, the page title is 'Groups'. On the left, there is a sidebar with 'Your groups' and 'Explore public groups'. The main content area shows a list of groups. One group, '2020 ITE2038 11800', is circled in red and has a red arrow pointing to it from the left. This group has a lock icon and the word 'Owner'. Below the group name, it says 'This group is for HYU students taking "Database Systems" class in 2020.' To the right of the group list, there are filters for 'Search by name' and 'Last created', and a green 'New group' button. At the bottom right, there are icons for 'Copy', 'Settings', '0 files', '0 issues', and '2 members'.

# 학생 프로젝트 생성

## 3. New project 버튼 선택

GitLab Projects Groups More + Search or jump to... ?

2020 ITE2038\_11800 > Details

2 2020\_ITE2038\_11800 Group ID: 113 | Leave group

This group is for HYU students taking "Database Systems" class in 2020.

New project

# 학생 프로젝트 생성

## 3. 학생 프로젝트 생성

GitLab Projects Groups More + Search or jump to... Project name Import project

New project

A project is where you house your files (repository), plan your work (issues), and publish your documentation (wiki), [among other things](#).

All features are enabled for blank projects, from templates, or when importing, but you can disable them afterward in the project settings.

Information about additional Pages templates and how to install them can be found in our [Pages getting started guide](#).

Visibility Level [?](#)

Private

Project access must be granted explicitly to each user. If 1 is granted to members of the group.

Initialize repository with a README

Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.

Create project Cancel

Project name은 연도\_학수번호\_학번 으로 설정  
(ex: 2020\_CSE4009\_2019111111)

Project description은 수업명과 연도/학기 등의 정보가 표시되도록 기입  
(학생이 프로젝트를 구분할 수 있도록)

# 학생 프로젝트 생성

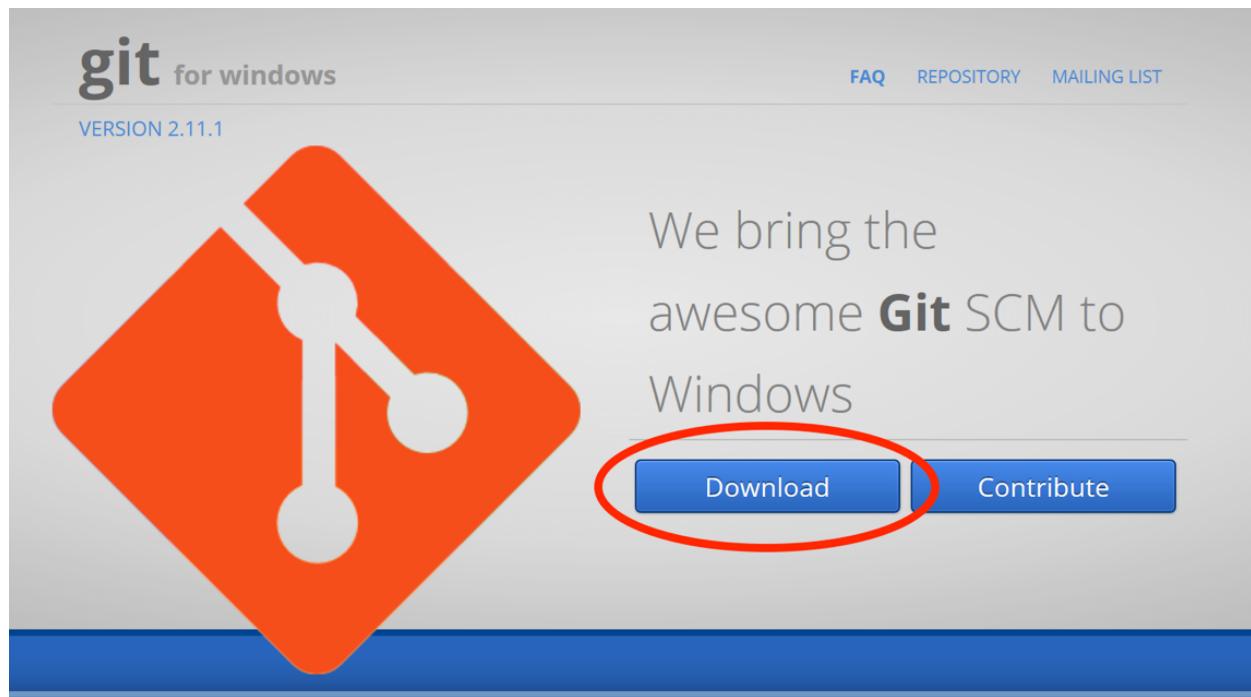
학생 프로젝트 생성 완료

The screenshot shows a web-based project management interface. At the top, there is a navigation bar with 'Projects' (indicated by a three-line icon), a search bar with a magnifying glass icon, and notification icons for a bell and a globe. Below the navigation bar, there are tabs for 'Your projects' (which is selected and highlighted in blue), 'Starred projects', and 'Explore projects'. There are also filters for 'Filter by name...' and 'Last updated'. A main content area displays a single project card. The project card has a small circular icon with the number '2' (indicating two members), the project title 'Multicore Programming / 2017 ITE4065\_2007002245', a brief description 'test project of creating students' project', a star rating icon with '0' stars, and a lock icon.

(학생 계정으로 로그인 시 화면)

# Git 설치 (Windows)

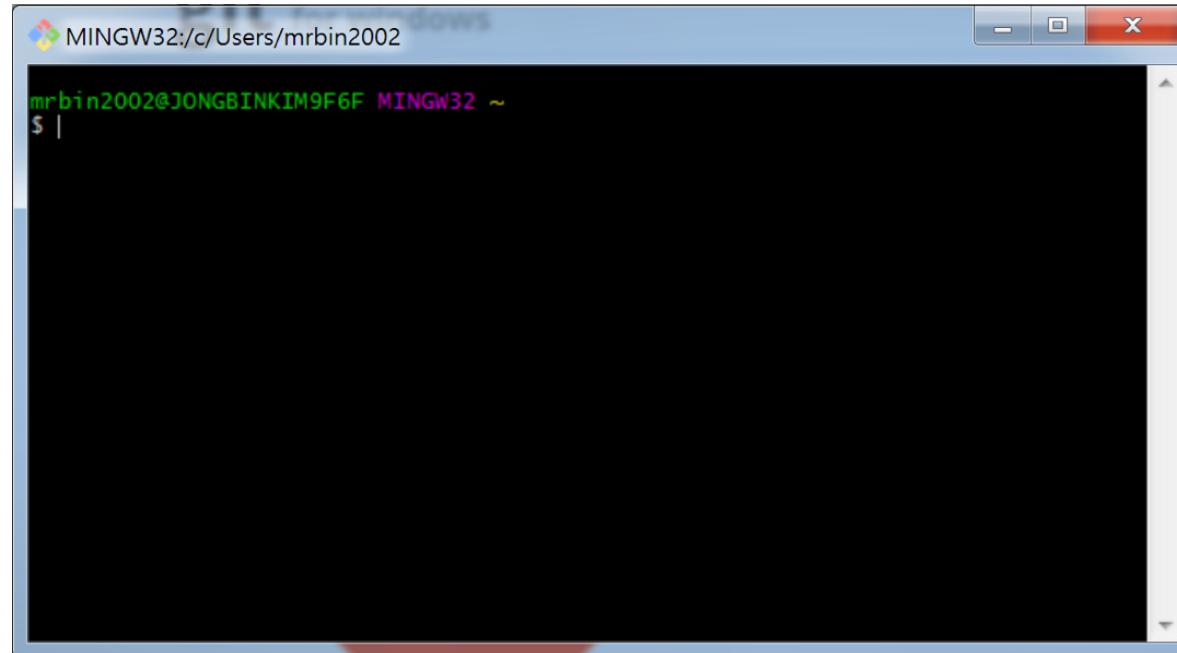
1. <https://git-for-windows.github.io/> 에 접속하여 다운로드 및 설치



# Git 설치 (Windows)

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2. Git Bash 실행
3. 작업할 디렉토리로 이동 (ex: \$ cd project)



# Git 설치 (Linux)

Ubuntu

```
$ sudo apt-get install git
```

Fedora

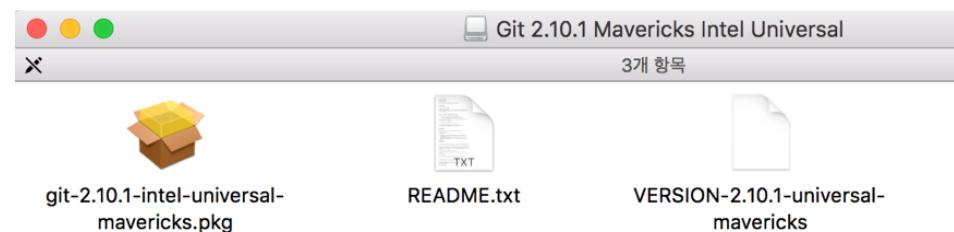
```
$ sudo yum install git
```



```
mrbin2002 — mrbin2002@ubuntu: ~ — ssh mrbin2002@10.211.55.7 — 74x21
[mrbin2002@ubuntu:~$ sudo apt-get install git
[sudo] password for mrbin2002:
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 51 not upgraded.
mrbin2002@ubuntu:~$ ]
```

# Git 설치 (Mac OSX)

1. <https://git-scm.com/download/mac> 으로 접속 후 다운로드(git-x.x.x-xxx.dmg)
2. 다운받은 파일 실행 후 git-x.x.x-xxx.pkg 파일 실행 후 설치



# Git 기본 사용법 안내

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## 1. 설치 완료 후, Git 사용자 설정하기

```
$ git config --global user.name "학번"  
$ git config --global user.email "학번@hanyang.ac.kr"
```

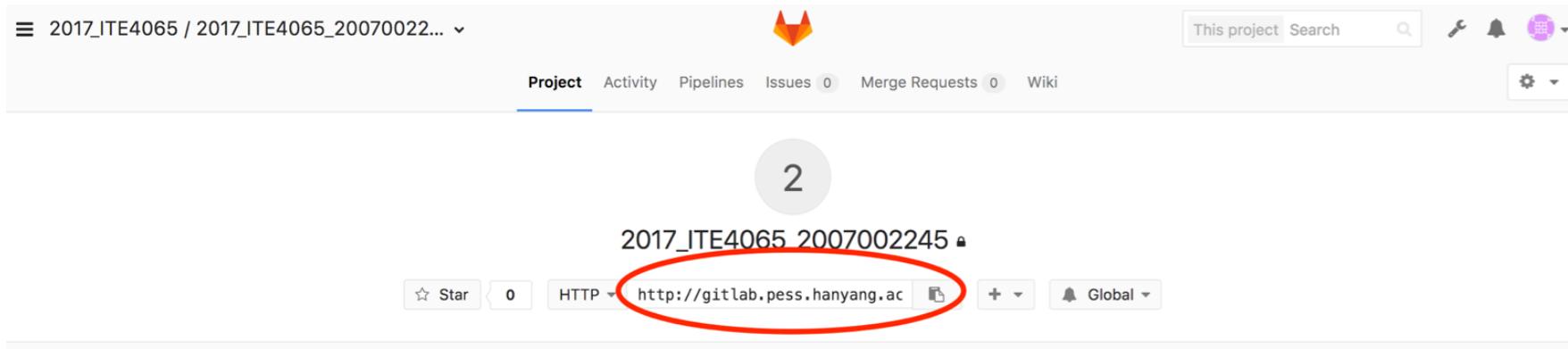
( user.name은 학번으로,  
user.email은 GitLab에 등록해놓은 email로 (기본값: 학번 + @hanyang.ac.kr ))

# Git 기본 사용법 안내

## 2. 생성되어 있는 학생의 Git repository clone 받기

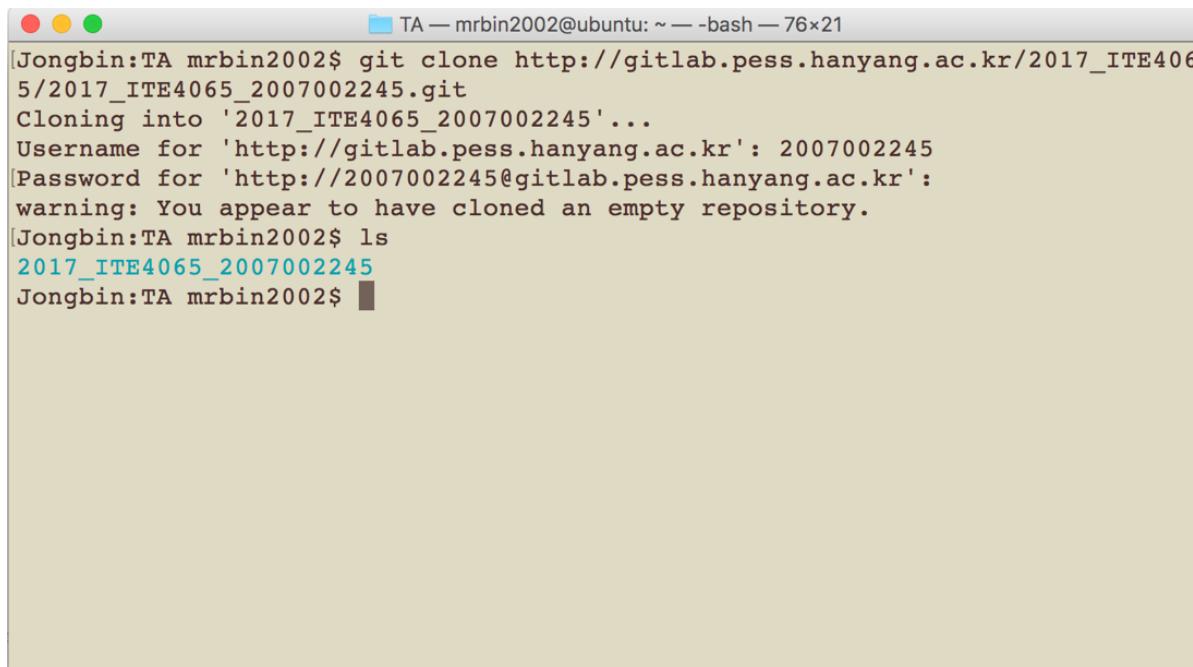
```
$ git clone https://hconnect.hanyang.ac.kr/2020_CSE4009_11782/2020_CSE4009_학번.git
```

Git clone 주소는 GitLab webpage의 해당 프로젝트 메인화면으로 이동하여 확인 가능



# Git 기본 사용법 안내

3. git clone 시 요구하는 Username은 학번으로, Password는 GitLab webpage에서 설정한 password로 입력



The screenshot shows a terminal window titled 'TA — mrbin2002@ubuntu: ~ — bash — 76x21'. The user runs the command 'git clone http://gitlab.pess.hanyang.ac.kr/2017 ITE406 5/2017 ITE4065\_2007002245.git'. The terminal prompts for a username ('Username for') and a password ('Password for'). It then displays a warning message: 'warning: You appear to have cloned an empty repository.' Finally, the user runs 'ls' and sees the directory '2017 ITE4065\_2007002245'.

```
TA — mrbin2002@ubuntu: ~ — bash — 76x21
[Jongbin:TA mrbin2002$ git clone http://gitlab.pess.hanyang.ac.kr/2017 ITE406
5/2017 ITE4065_2007002245.git
Cloning into '2017 ITE4065_2007002245'...
Username for 'http://gitlab.pess.hanyang.ac.kr': 2007002245
>Password for 'http://2007002245@gitlab.pess.hanyang.ac.kr':
warning: You appear to have cloned an empty repository.
[Jongbin:TA mrbin2002$ ls
2017 ITE4065_2007002245
Jongbin:TA mrbin2002$ ]
```

# Git 기본 사용법 안내

4. Clone 받은 폴더로 이동 (처음에는 텅 빈 디렉토리)

```
$ cd 2020_CSE4009_20XXXXXXX
```

5. 작업 파일 생성

```
$ vim test.c
```

6. 파일 작성



A screenshot of a terminal window titled '2017 ITE4065\_2007002245 — mrbin2002@ubuntu: ~ — vi test.c — 76x21'. The window shows a single line of code: '1 hello world!'. The number '1' is highlighted in orange, and the rest of the line is in brown.

# Git 기본 사용법 안내

7. 현재 git 관리 상태를 확인하면 test.c가 관리되지 않는 상태로 표시된다.

```
$ git status
```

```
[Jongbin:2017 ITE4065_2007002245 mrbin2002$ git status
On branch master

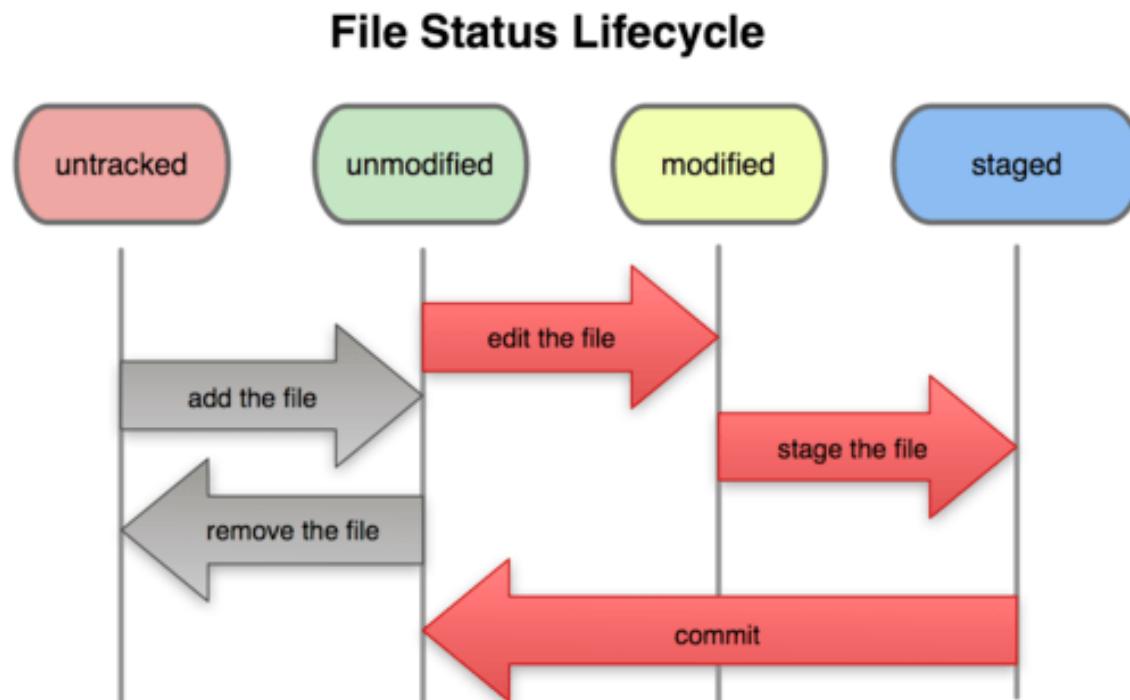
Initial commit

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    test.c

nothing added to commit but untracked files present (use "git add" to track)
Jongbin:2017 ITE4065_2007002245 mrbin2002$ ]
```

# Git 기본 사용법 안내



# Git 기본 사용법 안내

8. 현재 디렉토리에 있는 모든 추가/수정된 파일들을 Stage 영역으로 이동(test.c가 git에 의해 관리됨)

```
$ git add .
```

9. Git 관리 상태를 다시 확인

```
$ git status
```

```
[Jongbin:2017 ITE4065_2007002245 mrbin2002$ git add .
[Jongbin:2017 ITE4065_2007002245 mrbin2002$ git status
On branch master

Initial commit

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

    new file:   test.c
```

# Git 기본 사용법 안내

10. 추가/수정된 파일을 커밋(Local repository에 저장)

```
$ git commit -m "first commit"
```

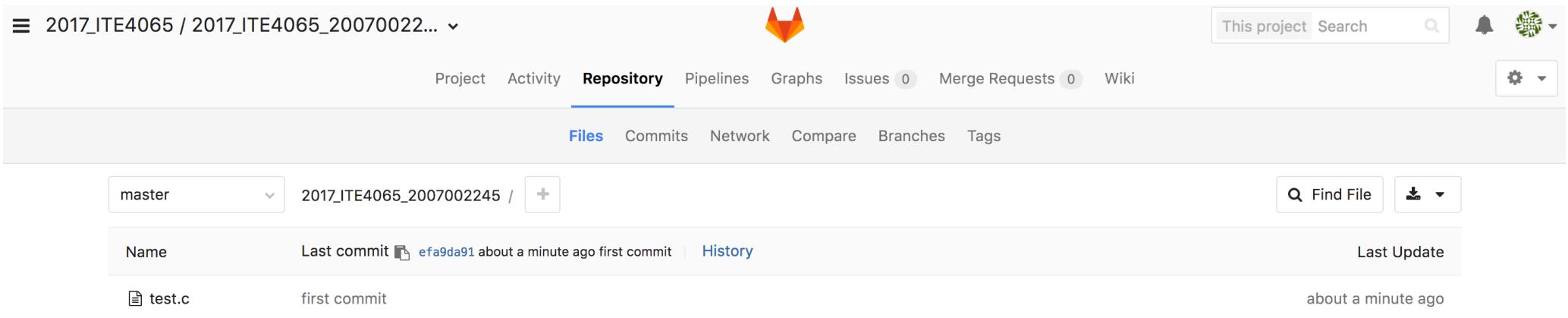
11. 커밋된 내용을 Remote repository로 전송

```
$ git push origin master
```

```
[Jongbin:2017 ITE4065_2007002245 mrbin2002$ git commit -m "first commit"
[master (root-commit) efa9da9] first commit
 1 file changed, 1 insertion(+)
  create mode 100644 test.c
[Jongbin:2017 ITE4065_2007002245 mrbin2002$ git push origin master
Counting objects: 3, done.
Writing objects: 100% (3/3), 224 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To http://gitlab.pess.hanyang.ac.kr/2017_ITE4065/2017_ITE4065_2007002245.git
 * [new branch]      master -> master
```

# Git 기본 사용법 안내

12. git push를 통해 Remote로 전송된 파일은 GitLab webpage에서 확인 가능하다



The screenshot shows the GitLab repository interface for a project named "2017 ITE4065 / 2017 ITE4065\_20070022...". The "Repository" tab is selected, showing the "Files" section. A commit history is displayed for the "master" branch, with the most recent commit being "2017 ITE4065\_2007002245" (commit hash: efa9da91). The commit message is "first commit". The commit was made "about a minute ago". The interface includes a search bar, a gear icon for settings, and a file download button.

---

# 수업 운영

# Comment 작성 방법

학생의 Commit에 대한 Comment를 남길 수 있다.

1. 조교의 계정으로 GitLab webpage 접속 후, 학생의 프로젝트로 이동
2. Commit 탭 선택

The screenshot shows a GitLab project page for '2017 ITE4065 / 2017 ITE4065\_20070022...'. The top navigation bar includes links for Project, Activity, Repository, Pipelines, Graphs, Issues (0), Merge Requests (0), and Wiki. A search bar and a gear icon are also present. Below the navigation, a large circular icon with the number '2' indicates the count of commits. The commit list starts with '2017 ITE4065\_2007002245' by user '2007002245' (commit hash 'efa9da91'). The commit details show it was a first commit made 11 minutes ago. At the bottom of the commit list, there are buttons for 'Files (133 KB)', 'Commit (1)' (which is circled in red), 'Branch (1)', 'Tags (0)', 'Add Changelog', 'Add License', 'Add Contribution guide', and 'Set up CI'. The number '1' is also visible near the bottom of the commit list.

# Comment 작성 방법

3. Commit 목록에서 commit message를 눌러,  
해당 commit의 변경사항을 확인할 수 있다.

The screenshot shows a Git commit history for a repository named '2017 ITE4065 / 2017 ITE4065\_2007002245'. The 'Repository' tab is selected. A dropdown menu shows 'master'. The commit list shows one commit from '2017 ITE4065\_2007002245' on '15 Feb, 2017'. The commit message is 'first commit'. A red circle with the number '2' is drawn around the commit message line. The commit hash is 'efa9da91'. There are buttons for 'Browse Files' and a 'Filter by commit message' input field.

# Comment 작성 방법

4. Comment를 작성하고 Comment 버튼을 선택한다.

first commit

The screenshot shows a GitHub commit interface for a file named 'test.c'. The commit has 0 parents and is on the master branch. It shows 1 changed file with 1 addition and 0 deletions. The code added is '+ hello world!'. Below the code is a comment input field with the placeholder '코드가 엄망이네요.' (The code is terrible). A red circle labeled '3' highlights this text. A larger red circle labeled '4' highlights the green 'Comment' button at the bottom left of the input field. The interface includes standard rich text editing tools like bold, italic, and code blocks, as well as options to hide whitespace changes or view the file at a specific commit hash.

# Comment 작성 방법

5. 학생은 email을 통해 comment 알림을 받을 수 있고, GitLab webpage에서도 해당 comment를 확인할 수 있다.

받은메일함

답장 | 전달 | 수신거부 | 삭제 | 메일 이동 | 기타

보낸사람 | 실습용조교계정 수신거부 | 자동분류추가 | 주소록추가  
받는사람 | mbin2002@hanyang.ac.kr  
보낸날짜 | 21:41:20 | 받은날짜 | 21:41:09  
제목 | Re: 2017\_JTE4065\_2007002245 | first commit (efa9da91)

New comment  
코드가 엄망이네요.

first commit

0 parents master

Showing 1 changed file with 1 additions and 0 deletions

Hide whitespace changes | Inline | Side-by-side

View it on GitLab.

You're receiving this email because of your account on gitlab.

Showing 1 changed file with 1 additions and 0 deletions

test.c 0 → 100644

+ hello world!

View file @efa9da9

실습용조교계정 @hyutempta commented less than a minute ago  
코드가 엄망이네요.

Owner | Edit | Delete

# Thank You

---