

AI 활용 빅데이터분석 풀스택웹서비스 SW 개발자 양성과정

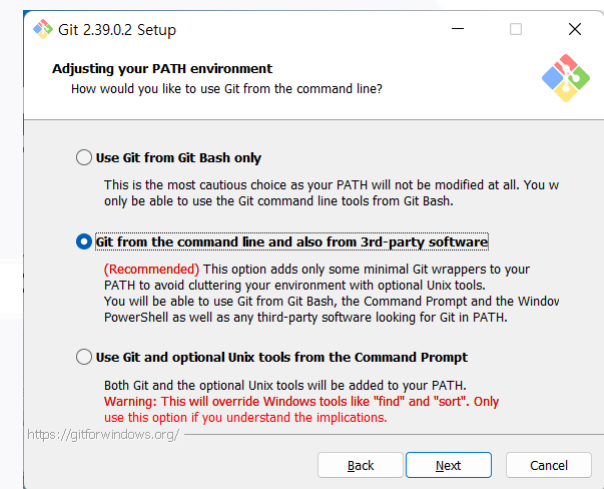
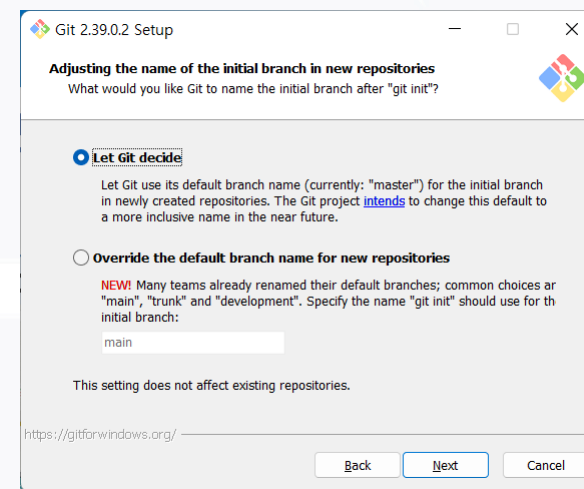
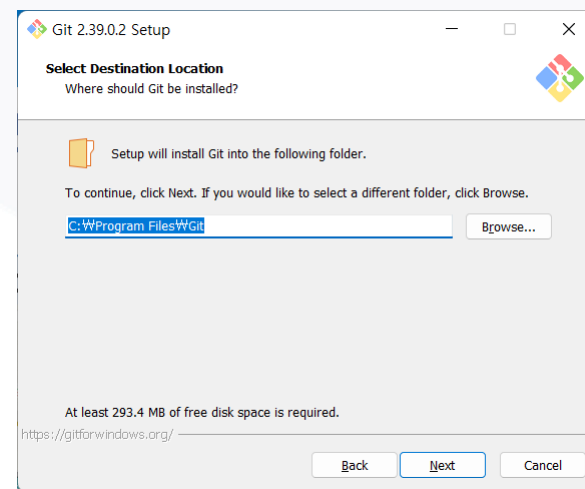
GitHub



부산대학교 소프트웨어교육센터
PUSAN NATIONAL UNIVERSITY SOFTWARE EDUCATION CENTER



- 소스코드 및 파일의 변경내역을 저장하는 분산 버전 관리 시스템
- Git 설치 (window)



Git 초기화 확인

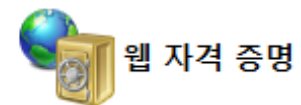
자격 증명 관리자

← → ▼ ↑

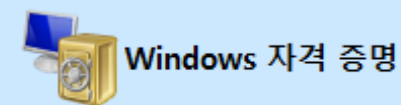
제어판 > 모든 제어판 항목 > 자격 증명 관리자

제어판 홈

웹 사이트, 연결된 응용 프로그램 및 네트워크에 대해 저장된 로그인 정보를 보고 삭제합니다.



웹 자격 증명



Windows 자격 증명

자격 증명 백업(B) 자격 증명 복원(R)

Windows 자격 증명

Windows 자격 증명 추가

SWEC

수정한 날짜: 2023-02-23 ▼

인증서 기반 자격 증명

인증서 기반 자격 증명 추가

인증서가 없습니다.

일반 자격 증명

일반 자격 증명 추가

com.ridi.books/global

수정한 날짜: 2023-01-15 ▼

git:https://github.com

수정한 날짜: 오늘 ^

인터넷 또는 네트워크 주소: git:https://github.com

사용자 이름: cybermin

암호:

지속성: 로컬 컴퓨터

편집 제거

참고 항목

이유가 없습니다

자격 증명 관리자에서 widows 자격 증명에
이전 git 로그인 정보가 있는지 확인

Git 설정

git - version
• 버전확인

git config - list
• 설정확인

```
Git CMD
C:\Users\minnote>git --version
git version 2.39.0.windows.2

C:\Users\minnote>git config --list
diff.astextplain.textconv=astextpla
filter.lfs.clean=git-lfs clean -- %
filter.lfs.smudge=git-lfs smudge -- %
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:\Users\minnote\AppData\Local\Programs\Microsoft VS Code\bin\code" --wait

C:\Users\minnote>
```

초기설정

```
Git CMD
C:\Users\minnote>git config --global user.name "pnumin"
C:\Users\minnote>git config --global user.email pnumin@pusan.ac.kr

C:\Users\minnote>git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:\Users\minnote\AppData\Local\Programs\Microsoft VS Code\bin\code" --wait
user.name=pnumin
user.email=pnumin@pusan.ac.kr

C:\Users\minnote>
```


Git을 이용하여 로컬 버전관리

로컬 저장소(내컴퓨터)



1. 워킹디렉토리 생성하고 이동

- mkdir 폴더명
- cd 폴더명

```
Git CMD
C:\wtest>dir /a
C 드라이브의 볼륨에는 이름이 없습니다.
볼륨 일련 번호: 82EA-121F

C:\wtest 디렉터리

2023-01-15 오전 11:47 <DIR> .
2023-01-15 오전 11:44 <DIR> ..
2023-01-15 오전 11:47 <DIR> .git
2023-01-15 오전 11:46 244 index.txt
                  1개 파일          244 바이트
                  3개 디렉터리 794,852,888,576 바이트 남음

C:\wtest>
```

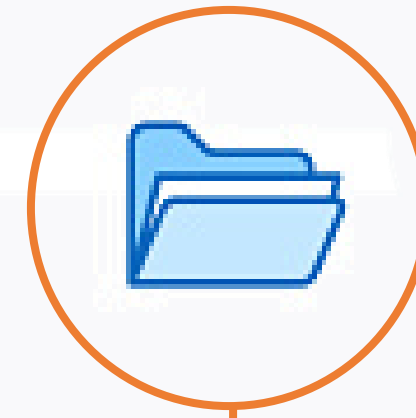
Working디렉토리



2. 워킹디렉토리 초기화

- git init

Staging 영역



3. Git 관리 파일등록

- git add 파일명
- git add .

4. Git 버전 만들기

- git commit -m "버전메시지"

local 레포지토리



Git 현재 시점 변경

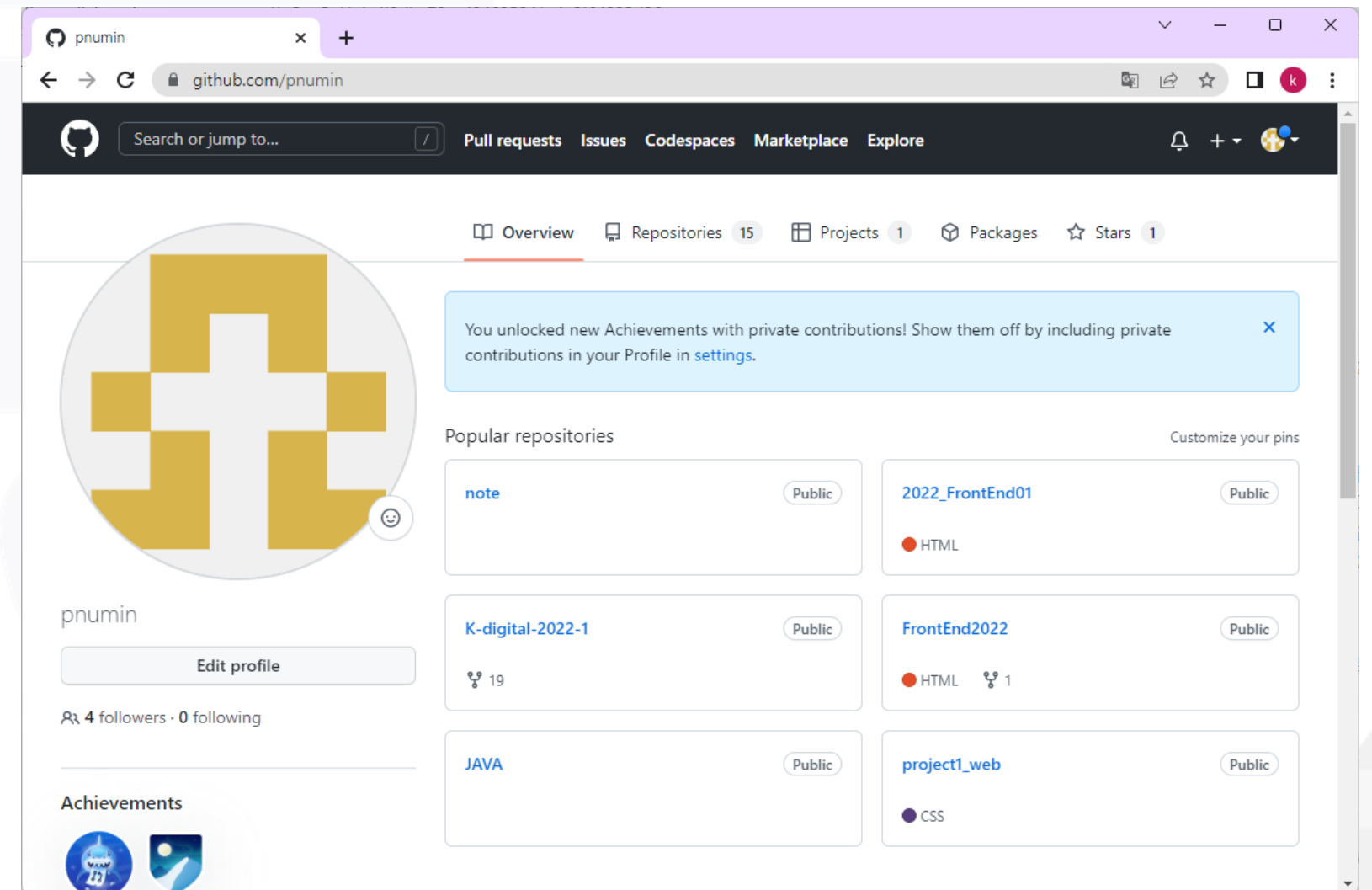
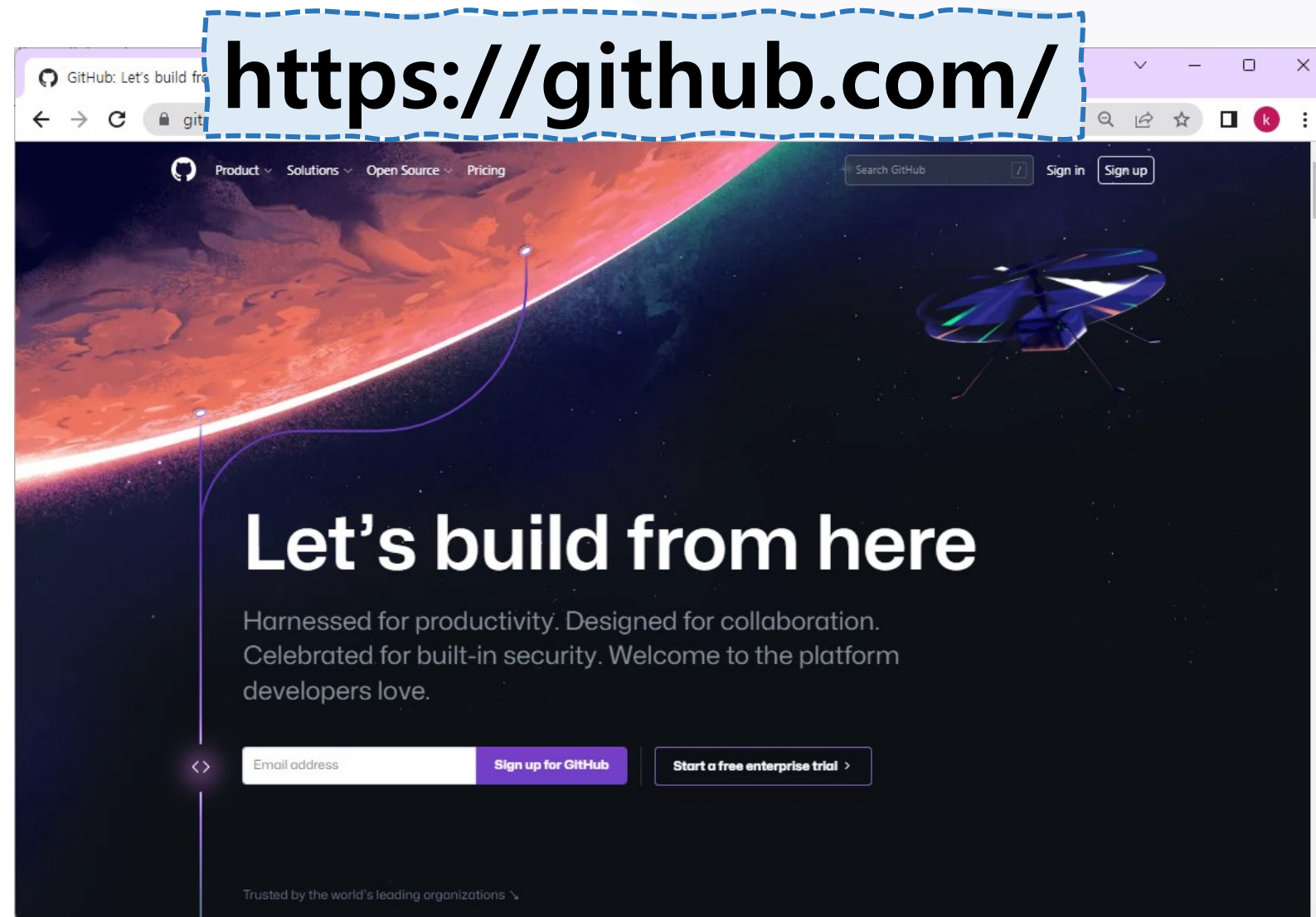
- git checkout (커밋아이디) // 커밋아이디는 git log확인
- git checkout master //최근 커밋 상태로 돌아오기

Git 이전 commit으로 돌아가고 이후 commit 삭제

- git reset --hard (커밋아이디)

GitHub 원격 버전관리

- 분산 버전 관리 툴인 Git을 관리해주는 웹 호스팅 서비스가 바로 GitHub
- Git을 클라우드 환경에서 사용할 수 있게 제공하는 공간이 GitHub



GitHub 저장소(repository) 만들기

The image displays three overlapping browser windows illustrating the steps to create a GitHub repository.

Left Window (Profile Page): Shows the GitHub profile for 'pnumin'. The 'Repositories' tab is active, displaying a list of repositories including 'note', 'K-digital-2022-1', and 'JAVA'. The 'K-digital-2022-1' repository is highlighted.

Middle Window (Create a New Repository): Shows the 'Create a new repository' page. The 'Repository name' field is filled with 'K-digital-2023-2'. The 'Owner' is 'pnumin'. The 'Description' field is empty. The 'Public' checkbox is selected. The 'Initialize this repository with' section shows 'Add a README file' selected. The 'Add .gitignore' section shows '.gitignore template: None'. The 'Choose a license' section shows 'License: None'. A green 'Create repository' button is at the bottom.

Right Window (Repository Overview): Shows the overview page for the repository 'pnumin / K-digital-2023-2'. The 'Code' tab is active, displaying the repository URL: `https://github.com/pnumin/K-digital-2023-2.git`. The 'Quick setup' section provides instructions for setting up the repository on the desktop or using the command line. The '...or create a new repository on the command line' section shows the following commands:

```
echo "# K-digital-2023-2" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/pnumin/K-digital-2023-2.git
git push -u origin main
```

The '...or push an existing repository from the command line' section shows the following commands:

```
git remote add origin https://github.com/pnumin/K-digital-2023-2.git
git branch -M main
git push -u origin main
```

The '...or import code from another repository' section provides instructions for initializing the repository with code from a Subversion, Mercurial, or TFS project.

로컬저장소와 원격저장소 연결

• 로컬저장소에 자료가 있는 경우

The image illustrates the process of connecting a local Git repository to a remote GitHub repository. It consists of three main components:

- GitHub Repository Page (Left):** Shows the repository `pnumin/K-digital-2023-2` with a public status. It includes a "Quick setup" section with instructions for setting up a repository on the command line. A red dashed box highlights the commands for pushing an existing repository from the command line.
- Git CMD Terminal (Middle):** Shows the execution of the following commands in a terminal window:

```
C:\Wgtest>git remote add origin https://github.com/pnumin/K-digital-2023-2.git
C:\Wgtest>git branch -M main
C:\Wgtest>git push -u origin main
```

The output of the push command is shown, indicating successful authentication and object enumeration/compression. A red dashed box highlights the push command and its output. An orange arrow points from the highlighted push command in the terminal to the "Add a README" button in the GitHub repository page on the right.
- GitHub Repository Page (Right):** Shows the repository `pnumin/K-digital-2023-2` with a public status. It includes a "Code" button, a "Go to file" button, and a "Add file" button. A red dashed box highlights the "Add a README" button.

로컬저장소와 원격저장소 연결

• 원격저장소에 자료가 있는 경우

```
Git CMD
C:\Wgtest>
C:\Wgtest>mkdir p1

C:\Wgtest>cd p1

C:\Wgtest\p1>git clone https://github.com/pnumin/project1_web
.git
Cloning into 'project1_web'...
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 47% (11/23)
remote: Compressing objects: 52% (12/23)Receiving objects:
remote: Compressing objects: 100% (23/23), done.
remote: Total 25 (delta 2), reused 15 (delta 0), pack-reused
Receiving objects: 68% (17/25)
Receiving objects: 100% (25/25), 47.62 KiB | 4.33 MiB/s, don
e.
Resolving deltas: 100% (2/2), done.
C:\Wgtest\p1>_
```

EXPLORER

- ✓ GTEST
 - ✓ p1\project1_web
 - > images
 - > styles
 - <> index.html
 - ① README.md
 - ① README.md

<> index.html X

```
p1 > project1_web > <> index.html > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>K디지털 웹</title>
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <link rel="stylesheet" href="/styles/index.css">
7 <link rel="stylesheet" href="/styles/nav.css">
8 <link rel="stylesheet" href="/styles/header.css">
9 <!--웹아이콘 가져오기-->
10 <script src="https://kit.fontawesome.com/74df50e688.js" crossorigin="anonymou
11 <!--웹폰트-->
12 <link rel="preconnect" href="https://fonts.googleapis.com">
13 <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
14 <link href="https://fonts.googleapis.com/css2?family=Dongle&family=Nanum+Goth
15 </head>
16 <body>
17 <nav>
18 <div class="nav_logo">
19 <p>mylogo</p>
20 </div>
21 <ul class="nav_menu">
22 <li><a href="#">HTML</a></li>
23 <li><a href="#">CSS</a></li>
24 <li><a href="#">JavaScript</a></li>
25 <li><a href="#">React</a></li>
26 </ul>
27 <ul class="nav_icon">
28 <li><i class="fa-brands fa-facebook-f"></i></li>
29 <li><i class="fa-brands fa-square-instagram"></i></li>
30 </ul>
31 </nav>
32 </body>
```

로컬저장소와 원격저장소

로컬 저장소(내컴퓨터)



원격저장소 자료 가져오기

- `git pull origin main`

원격저장소에 자료 올리기

- `git push origin main`

```
Git CMD
C:\gtest>git add .
C:\gtest>git commit -m "local 자료 수정1"
[main c0e5a2a] local 자료 수정1
1 file changed, 1 insertion(+), 1 deletion(-)
C:\gtest>git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 355 bytes | 355.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local
object.
To https://github.com/pnmin/K-digital-2023-2.git
4558dfb..c0e5a2a main -> main
C:\gtest>
```

원격 저장소



GitHub로 웹 호스팅

The screenshot shows the GitHub Pages settings page for the repository 'pnumin/testp2'. The 'Settings' tab is highlighted with a red dashed box. The 'Build and deployment' section is expanded, showing the 'Source' as 'Deploy from a branch'. The 'Branch' section is also expanded, showing 'main' as the selected branch and '/ (root)' as the directory. A red dashed box highlights the 'main' branch and the '/ (root)' directory. The 'Custom domain' section is visible below, with a text input field and 'Save' and 'Remove' buttons.

Pages

github.com/pnumin/testp2/settings/pages

Search or jump to...

Pull requests Issues Codespaces Marketplace Explore

pnumin / testp2 Public

Pin Unwatch 1 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security and analysis

Deploy keys

Secrets and variables

GitHub Pages

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

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.

Custom domain

Custom domain

Custom domains allow you to serve your site from a domain other than pnumin.github.io. [Learn more.](#)

DNS records should point to the [internationalized domain name](#).

The screenshot shows the GitHub Actions workflow run for 'pages build and deployment'. The 'Actions' tab is highlighted with a red dashed box. The workflow run is successful, with a status of 'Success' and a total duration of 52s. The 'pages-build-deployment' job is expanded, showing the 'build' and 'report-build-status' steps. The 'deploy' step is highlighted with a red dashed box, showing the URL 'https://pnumin.github.io/testp2/'.

pages build and deployment · p x

github.com/pnumin/testp2/actions/runs/3923232550

Search or jump to...

Pull requests Issues Codespaces Marketplace Explore

pnumin / testp2 Public

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

pages build and deployment #1

Re-run all jobs

Summary

Triggered via dynamic 1 minute ago

Status Success

Total duration 52s

Artifacts 1

Jobs

build

report-build-status

deploy

Run details

Usage

pages-build-deployment

on: dynamic

build 22s

report-build-status 2s

deploy 7s

<https://pnumin.github.io/testp2/>

Artifacts

원본 원격저장소 복사

복사할 원격 저장소

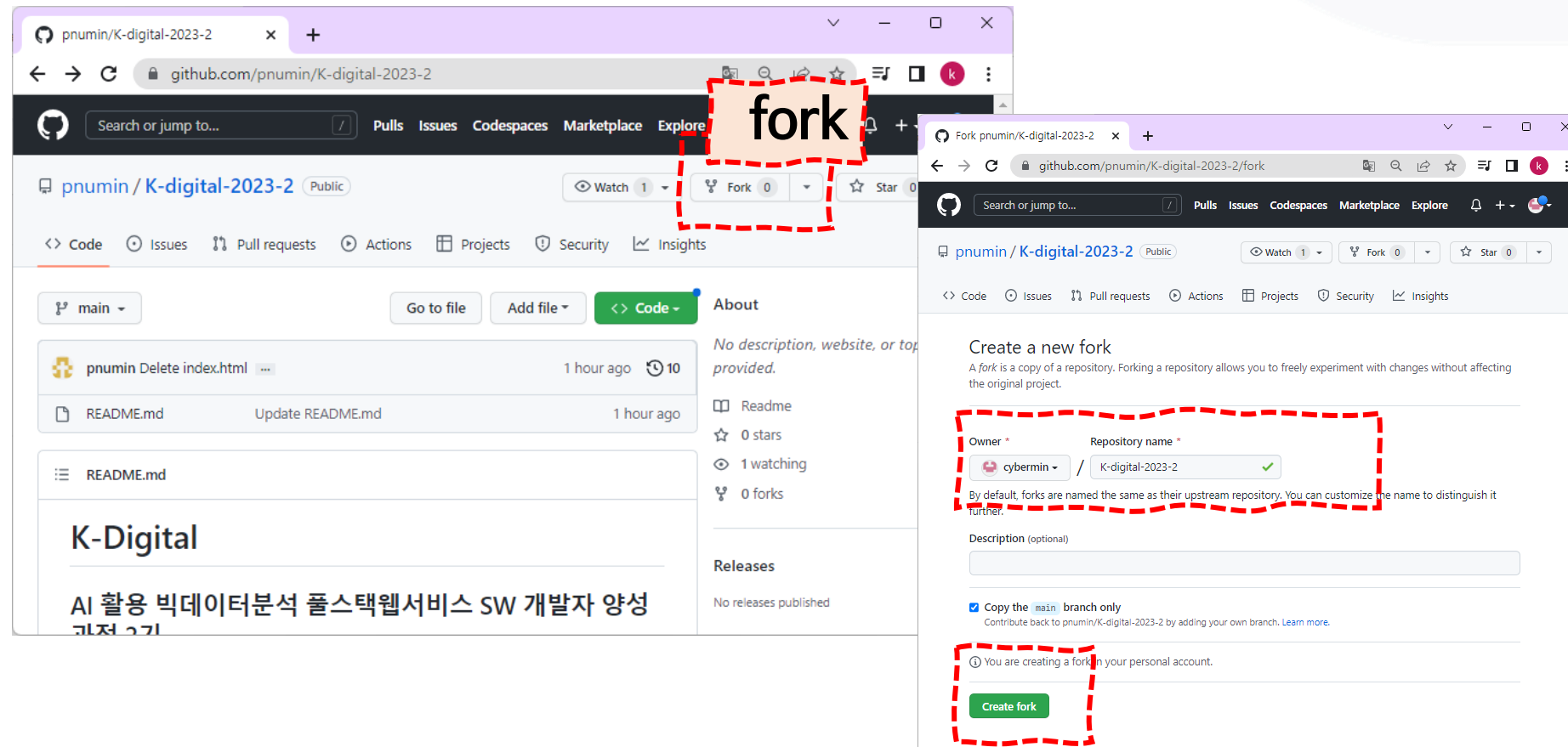


1. 본인의 원격저장소에서
복사할 원격저장소로 이동

본인의 원격 저장소



2. fork



원본 원격저장소 복사

복사할 원격 저장소



4. 수정내용 반영

본인의 원격 저장소



3. 본인의 원격저장소에서
수정후 pull requests보내기

