

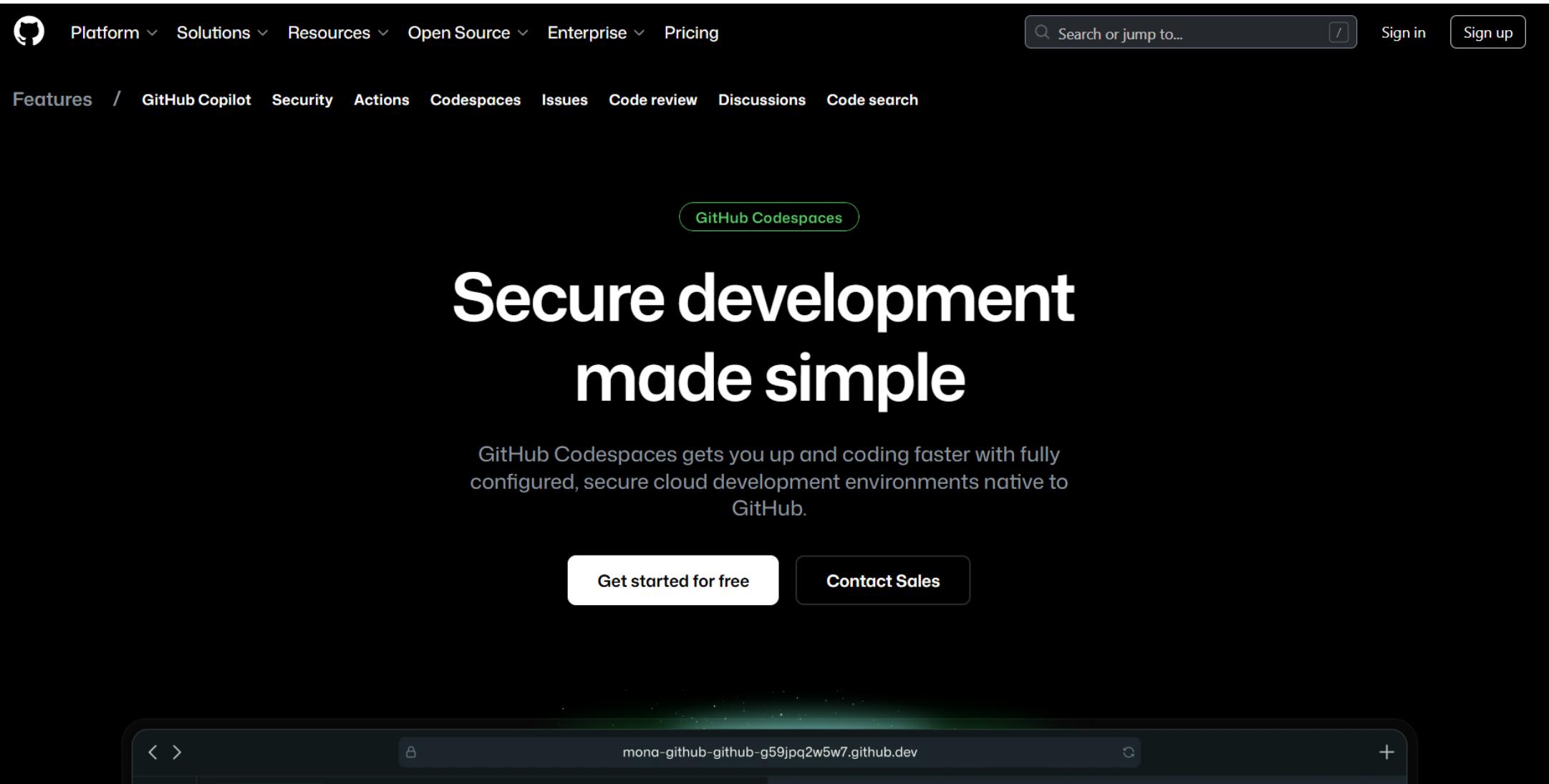


# 바이브 코딩 활용하기

## 코딩 프로젝트

시작 >

[ **GITHUB** 가입 ]



The screenshot shows the GitHub Codespaces landing page. At the top, there is a navigation bar with links for Platform, Solutions, Resources, Open Source, Enterprise, and Pricing. A search bar is located next to the navigation, followed by Sign in and Sign up buttons. Below the navigation, a breadcrumb menu shows Features / GitHub Copilot Security Actions Codespaces Issues Code review Discussions Code search. A green button labeled "GitHub Codespaces" is visible. The main headline reads "Secure development made simple". Below the headline, a description states: "GitHub Codespaces gets you up and coding faster with fully configured, secure cloud development environments native to GitHub." Two buttons are present: "Get started for free" and "Contact Sales". At the bottom, a dark bar represents a browser interface, showing the URL mona-github-github-g59jq2w5w7.github.dev.

Platform Solutions Resources Open Source Enterprise Pricing

Search or jump to... / Sign in Sign up

Features / GitHub Copilot Security Actions Codespaces Issues Code review Discussions Code search

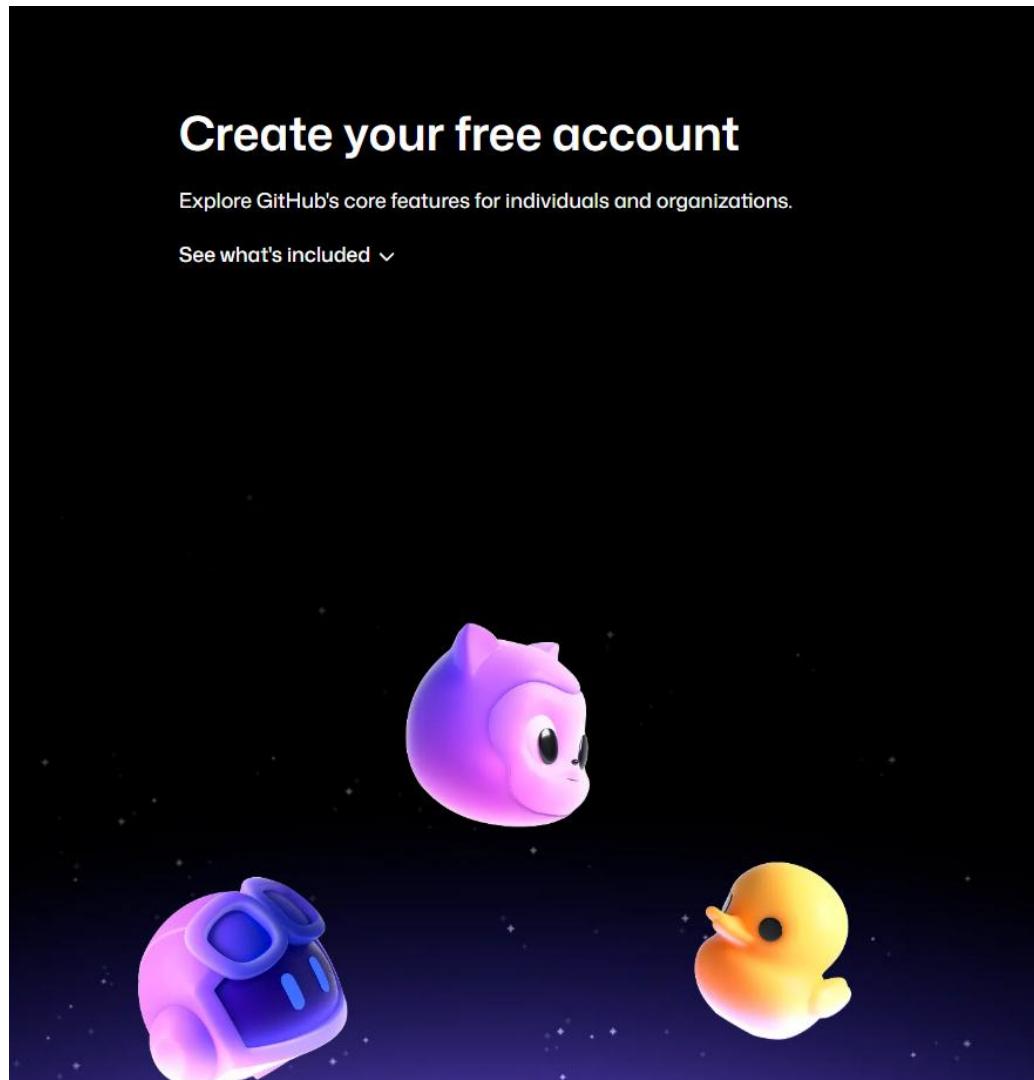
[GitHub Codespaces](#)

# Secure development made simple

GitHub Codespaces gets you up and coding faster with fully configured, secure cloud development environments native to GitHub.

[Get started for free](#) [Contact Sales](#)

mona-github-github-g59jq2w5w7.github.dev



Already have an account? [Sign in →](#)

## Sign up for GitHub

 Continue with Google

 Continue with Apple

or

Email\*

Email

Password\*

Password

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Username\*

Username

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

Your Country/Region\*

Korea, South

For compliance reasons, we're required to collect country information to send you occasional updates and announcements.

Create account >

[ **GITHUB 코드스페이스** ]



Codespaces

Type  to search

[+](#)

All 0

Templates

## Your instant dev environment

Go from code to commit faster on any project.

[Go to docs](#)

[New codespace](#)

### Explore quick start templates

[See all](#)

#### Blank

By github



Start with a blank canvas or import any packages you need.

[Use this template](#)

#### React

By github



A popular JavaScript library for building user interfaces based on UI components.

[Use this template](#)

#### Jupyter Notebook

By github



JupyterLab is the latest web-based interactive development environment for notebooks, code, and data.

[Use this template](#)

#### .NET

By github



A full-stack web application template written in C#.

[Use this template](#)

## Getting started with GitHub Codespaces

### Learn core concepts

New to Codespaces? [Start here](#). Learn the core concepts and how to get started.

### Configure and manage

Learn more about features like [secret management](#) and [port forwarding](#).

### Develop locally

Access codespaces from within [Visual Studio Code](#).

The screenshot shows the GitHub Codespaces interface. At the top, there's a navigation bar with icons for Codespaces, a search bar, and various global actions. Below the navigation is a section titled "Your instant dev environment" with a subtitle "Go from code to commit faster on any project." A callout box highlights the "New repository" option in the "New issue" dropdown menu, which is itself highlighted with a red border. The main content area features a "Explore quick start templates" section with four cards: "Blank" (By github), "React" (By github), "Jupyter Notebook" (By github), and ".NET" (By github). Each card has a "Use this template" button. The ".NET" card also includes a note about it being a full-stack web application template written in C#.

## Getting started with GitHub Codespaces

**Learn core concepts**  
New to Codespaces? [Start here](#). Learn the core concepts and how to get started.

**Configure and manage**  
Learn more about features like [secret management](#) and [port forwarding](#).

**Develop locally**  
Access codespaces from within [Visual Studio Code](#).

General

Owner \* siron84

Repository name \*

Great repository names are short and memorable. How about [silver-pancake](#)?

Description

0 / 350 characters

Configuration

Choose visibility \* Public

Choose who can see and commit to this repository

Start with a template No template

Templates pre-configure your repository with files.

Add README On

READMEs can be used as longer descriptions. [About READMEs](#)

Add .gitignore Python

.gitignore tells git which files not to track. [About ignoring files](#)

Add license No license

Licenses explain how others can use your code. [About licenses](#)

## 코드 공간 이름 - 프로젝트명

## 코드 공개 유무

## 코드 공개 유무 Python 선택

Create repository

testtest Public

main 1 Branch 0 Tags

sirons84 Initial commit

.gitignore Initial commit

README.md Initial commit

README

testtest

Pin Watch 0 Fork 0 Star 0

Go to file Add file Code

About

No description, website, or topics provided.

Readme Activity 0 stars 0 watching 0 forks

Local Codespaces

Codespaces Your workspaces in the cloud + ...

No codespaces You don't have any codespaces with this repository checked out

Create codespace on main

Learn more about codespaces...

Codespace usage for this repository is paid for by sirons84.

Releases

No releases published Create a new release

Packages

No packages published Publish your first package



The screenshot shows a code editor interface with several panels:

- Left Panel:** A sidebar with icons for file operations like New, Open, Save, Find, and Settings.
- Top Center:** A search bar labeled "testtest [Codespaces: glowing computing-machine]".
- File Explorer:** A tree view showing a folder named "TESTTEST [CODESPACES: GLOWING COMPUTING-M...]" containing ".gitignore" and "README.md". This folder is highlighted with a red box.
- Code Editor:** A large central area titled "testtest" containing empty text fields.
- Bottom Center:** A terminal window with the command "pip install streamlit google-generativeai" highlighted in yellow. The output of the command is shown below:

```
@sirons84 ~/workspaces/testtest (main) $ pip install streamlit google-generativeai
Downloading pydantic-2.12.5-py3-none-any.whl (463 kB)
Downloading pydantic_core-2.41.5-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (2.1 MB)
2.1/2.1 MB 44.2 MB/s 0:00:00
Downloading annotated_types-0.7.0-py3-none-any.whl (13 kB)
Downloading typing_inspection-0.4.2-py3-none-any.whl (14 kB)
Downloading tqdm-4.67.1-py3-none-any.whl (78 kB)
Installing collected packages: pytz, watchdog, uritemplate, typing-inspection, tqdm, toml, tenacity, pyparsing, pydantic-core, pyasn1, pyarrow, protobuf, pillow, numpy, narwhals, grpcio, click, cachetools, blinker, annotated-types, rsa, pydeck, pydantic, pyasn1-modules, proto-plus, pandas, httplib2, googleapis-common-protos, grpcio-status, google-auth, google-auth-hplib2, google-api-core, altair, streamlit, google-api-python-client, google-ai-generativelanguage, google-generativeai
11/27 [protobuf]
```
- Right Panel:** A sidebar with sections for "채팅" (Chat), "설정" (Settings), and "에이전트를 사용하여 빌드" (Build using AI). It also includes a message icon and a note about AI responses.

확장: 마켓플레이스

@id:ms-python.python

Python Python language support with exte... Microsoft

2091ms

설명 [미리 보기] README.md

app.py

확장: Python

채팅

+

...

...

Python

Microsoft microsoft.com | 198,083,695 | ★★★★☆(619)

Python language support with extension access points for IntelliSense (Pylance), Debugging (Python...)

제거 시험판 버전으로 전환 자동 업데이트

세부 정보 기능 변경 로그 확장 팩

## Python extension for Visual Studio Code

A Visual Studio Code extension with rich support for the [Python language](#) (for all [actively supported Python versions](#)), providing access points for extensions to seamlessly integrate and offer support for IntelliSense (Pylance), debugging (Python Debugger), formatting, linting, code navigation, refactoring, variable explorer, test explorer, environment management (**NEW** Python Environments Extension).

Support for [vscode.dev](#)

The Python extension does offer some support when running on [vscode.dev](#) (which includes

문제 출력 디버그 콘솔 터미널 포트

```
@sirons84 → /workspaces/testtest (main) $ pip install streamlit google-generativeai
pyparsing, pydantic-core, pyasn1, pyarrow, protobuf, pillow, numpy, narwhals, grpcio, click, cachetools, blinker, annotated-types, rsa, pydeck, pydantic, pyasn1-modules, proto-plus, pandas, httplib2, googleapis-common-protos, grpcio-status, google-auth, google-auth-httpplib2, google-api-core, altair, st
reamlit, google-api-python-client, google-ai-generativelanguage, google-generativeai
Successfully installed altair-6.0.0 annotated-types-0.7.0 blinker-1.9.0 cachetools-6.2.4 click-8.3.1
google-ai-generativelanguage-0.6.15 google-api-core-2.28.1 google-api-python-client-2.187.0 google-a
uth-2.45.0 google-auth-httpplib2-0.3.0 google-generativeai-0.8.6 googleapis-common-protos-1.72.0 grpcio
-1.76.0 grpcio-status-1.71.2 httpplib2-0.31.0 narwhals-2.14.0 numpy-2.4.0 pandas-2.3.3 pillow-12.1.0 p
rotocol-plus-1.27.0 protobuf-5.29.5 pyarrow-22.0.0 pyasn1-0.6.1 pyasn1-modules-0.4.2 pydantic-2.12.5 pyd
antic-core-2.41.5 pydeck-0.9.1 pyparsing-3.3.1 pytz-2025.2 rsa-4.9.1 streamlit-1.52.2 tenacity-9.1.2
toml-0.10.2 tqdm-4.67.1 typing-inspection-0.4.2 uritemplate-4.2.0 watchdog-6.0.0
@sirons84 → /workspaces/testtest (main) $
```

마켓플레이스

식별자 ms-python.python  
버전 2025.20.1  
개시됨 9년 전  
마지막으로 2주 전  
릴리스됨

범주

Programming Languages  
Debuggers Data Science

+

...

...

bash

bash

컨텍스트 추가...

다음에 빌드할 내용 설명

Agent Auto

# [ GITHUB - STREAMLIT 연동 ]



Join the 30 Days of AI Streamlit coding challenge! + Check out Release 1.52 🎉



Playground

Gallery

Components

Cloud

Community ▾

Docs ↗

Deploying? Try:

Pro

# A faster way to build and share data apps

Turn your data scripts into shareable web apps in minutes.

All in pure Python. No front-end experience required.

[Get started](#)[Try the live playground!](#)

## Streamlit.io's Use of Cookies

We use cookies to enhance your experience and to analyze site traffic as described in our Cookie Statement. By accepting, you consent to our use of cookies.[Privacy Notice](#).

[Cookie settings](#)[Reject All](#)[Accept All Cookies](#)



Explore

Discuss

# Streamlit Community Cloud

A place for the community to publicly share  
Streamlit apps and learn from each other!

[Continue to sign-in](#)

By signing in, I agree to the [Terms of Service](#) and understand  
Streamlit will process my personal information in accordance  
with its [Privacy Notice](#).

## Streamlit Community Cloud에 로그인

The image shows a Streamlit Community Cloud login interface. At the top, there is a "Google로 계속하기" (Continue with Google) button. Below it, a "GitHub로 계속하기" (Continue with GitHub) button is highlighted with a thick red border. A horizontal line with the Korean word "또는" (Or) is positioned between the GitHub button and the email input field. The email input field is labeled "이메일" (Email) and contains the placeholder "이메일 주소" (Email address). At the bottom, a large dark blue "계속" (Continue) button is centered. Below the "계속" button, a link in blue text reads "계정이 없으신가요? 회원가입" (Don't have an account? Sign up).

Google로 계속하기

GitHub로 계속하기

또는

이메일

이메일 주소

계속

계정이 없으신가요? [회원가입](#)

sirons84

My apps

My profile

Explore

Discuss ↗

Create app

## sirons84's apps

chogpt · main · streamlit\_app.py 



aidt\_seondo\_2nd · main · Home.py



aisw · main · app.py



c3 · main · main.py



debate · main · main.py

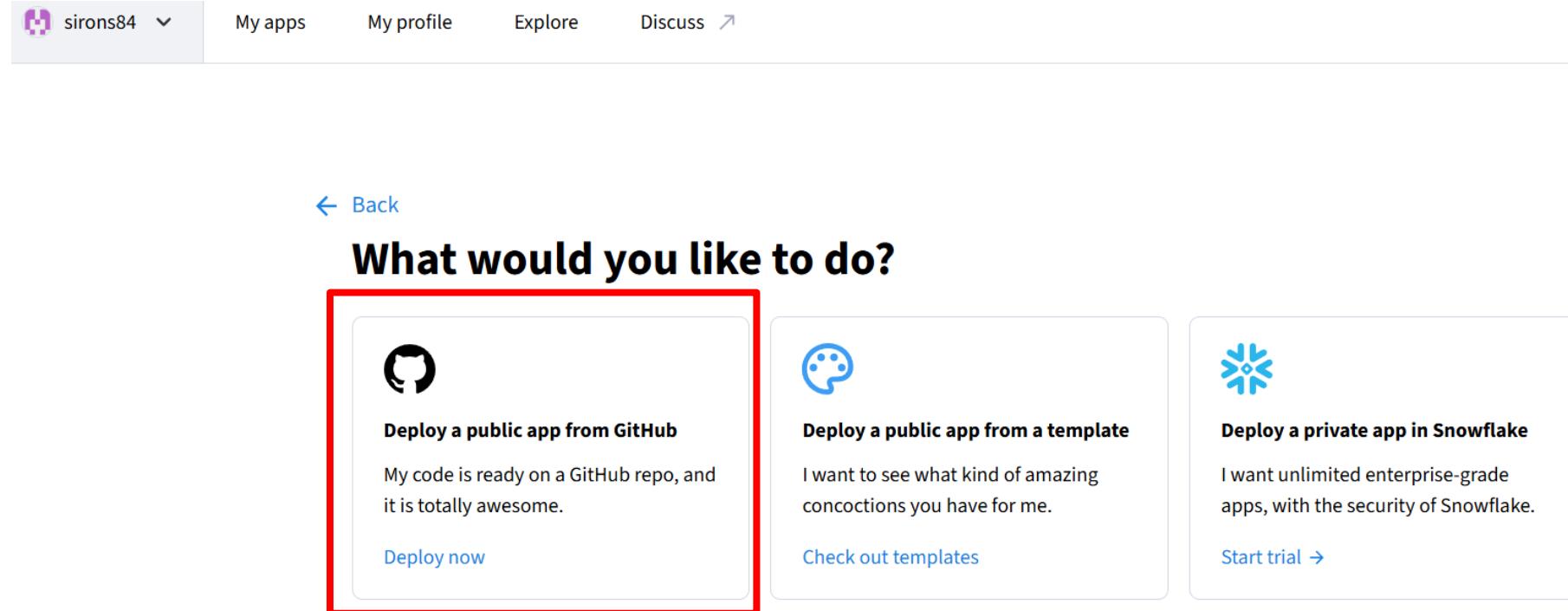


diary · main · streamlit\_app.py



dokdo-writing · main · main.py





The screenshot shows a user profile bar at the top with a purple icon, the username 'sirons84', and a dropdown arrow. Below it are navigation links: 'My apps', 'My profile', 'Explore', and 'Discuss'. The main content area has a back button and the heading 'What would you like to do?'. Three options are listed in boxes:

- Deploy a public app from GitHub** (boxed with a red border):  
My code is ready on a GitHub repo, and it is totally awesome.  
[Deploy now](#)
- Deploy a public app from a template**:  
I want to see what kind of amazing concoctions you have for me.  
[Check out templates](#)
- Deploy a private app in Snowflake**:  
I want unlimited enterprise-grade apps, with the security of Snowflake.  
[Start trial →](#)

[← Back](#)

## Deploy an app

Repository

Paste GitHub URL

sirons84/repo

This field is required

Branch

master

This branch does not exist

Main file path

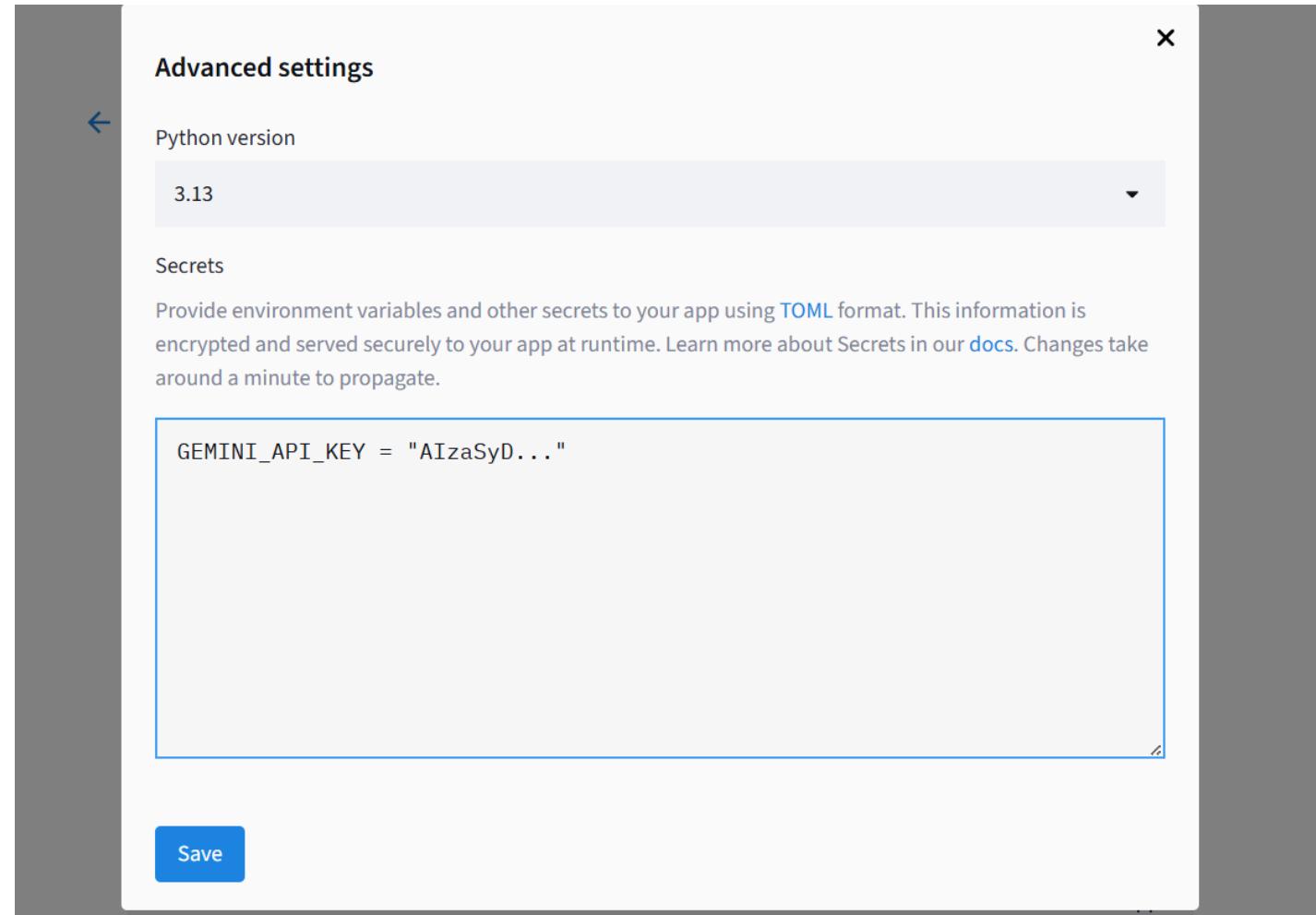
streamlit\_app.py

This file does not exist

App URL (optional)

.streamlit.app

[Advanced settings](#)



# API KEY 입력

## Deploy an app

Repository

sirons84/test

Paste GitHub URL

Branch

main

Main file path

main.py

main.py

testtest-mgekszbunthxbxr8udwmga

.streamlit.app

Domain is available

Advanced settings

Deploy

배포 완료

# 4시간의 여정 (Roadmap)



## 1교시: 기획 (Planning)

뇌(Brain)와 신체(Tools) 연결  
[산출물: 기획안 & 아키텍처]



## 2교시: 기초 (Skeleton)

환경 구축 및 프로토타입  
[산출물: 기본 웹 앱]



## 3교시: 구현 (Details)

도구 연동 및 배포  
[산출물: 배포 URL]



## 4교시: 공유 (Insight)

데모데이 및 성찰  
[산출물: 상호 피드백]

# 1교시: 서비스 구상 및 아키텍처 설계

교실에서 해결하고 싶은  
가장 작은 문제는  
무엇인가요?

프롬프트 기획 및  
기능 명세서(PRD) 작성



# 아이디어 예시 (Inspiration)



## AI 받아쓰기 선생님

TTS (읽기) → 학생 필기  
→ STT (채점)



## 가정통신문 요약기

OCR (종이 인식) →  
LLM (날짜/일정 추출) →  
달력 등록



## 그림 일기 상담사

Vision (그림 분석) →  
LLM (감정 공감) →  
→ 코멘트 작성

단순한 챗봇을 넘어 멀티모달(Multimodal) 기능을 상상해보세요.

# 프로그램 구상하기

기존 단계 (Engineering)

1. 아이디어

2. 요구 분석

3. I/O 명확화

4. 아키텍쳐

제안 단계 (Vibe Style)

수업 목표 (Goal)

페르소나 (Persona)

재료와 결과물 (Recipe)

구조도 그리기 (Sketch)

활동 질문 (Activity)

"이 도구로 어떤 문제를 해결하고 싶은가요?"

"이 AI는 어떤 선생님(보조교사)이어야 하나요?"

"학생이 무엇을 주면(Input), AI는 무엇을 돌려주나요(Output)?"

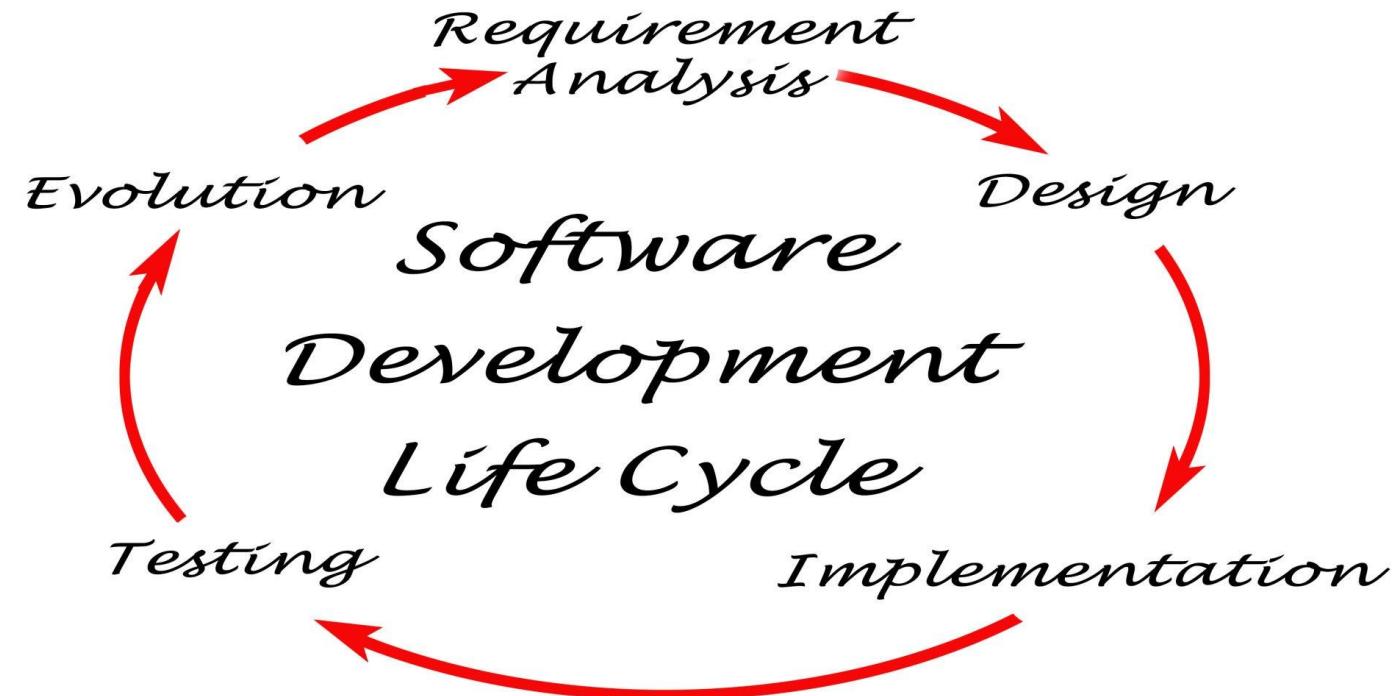
"어떤 레고 블록(API/기능)들을 연결해야 할까요?"

## 코딩하기

테스트 및 수정하기

배포하기

평가 및 공유하기



# 바이브 코딩의 핵심: 디버깅 (The Art of Debugging)

코드를 몰라도 에러를  
고칠 수 있습니다.



# 세상에 내놓기 (Deployment)

Localhost (나만의 화면)  
→ Public URL (모두의 서비스)

## Process

-  1. Streamlit Community Cloud
-  2. GitHub 연동
-  3. 원클릭 배포 (One-Click Deploy)



4교시: 데모데이 및 성찰

## 경험 공유 (Demo Day)

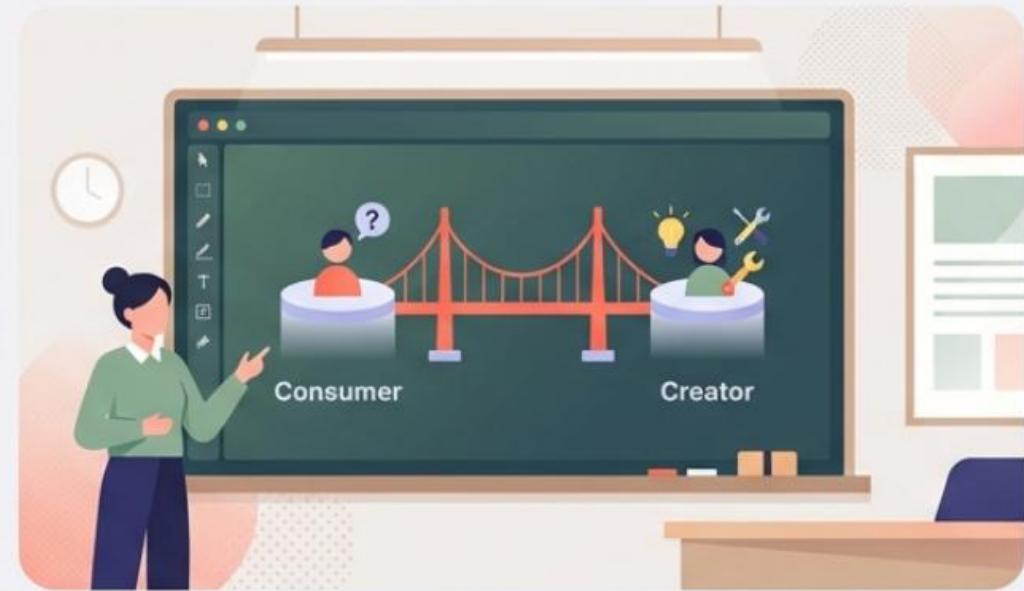
- 배포된 URL을 QR코드로 변환
- 서로의 서비스에 접속하여 테스트

기술적 완성도보다는 '기획 의도'와  
'문제 해결 과정'에 집중해주세요.



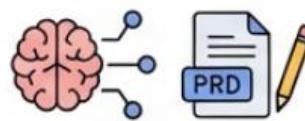
# 교실로 연결하기 (Reflection)

1. 이 서비스를 실제 수업이나 업무에 어떻게 적용할 수 있을까?
2. AI 소비자(Consumer)에서 AI 도구 생산자(Creator)로의 변화.



내가 상상한 것을  
4시간 만에  
만들었다는 자신감.

# 바이브 코딩 요약 (Cheat Sheet)



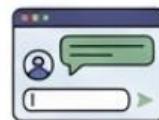
## 1. Ideate

Brain + Tools (PRD 작성)



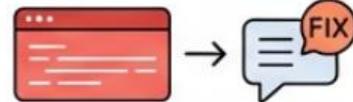
## 2. Setup

GitHub Codespaces + Streamlit



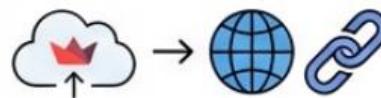
## 3. Prompt

“나는 초보자야. [기능] 전체 코드 짜줘.”



## 4. Debug

에러 메시지 복사 → ‘이거 고쳐줘’



## 5. Deploy

Streamlit Cloud → URL 공유

코딩 실력보다 중요한 것은 질문하는 능력입니다.

[ 교사의 역할 변화 ]

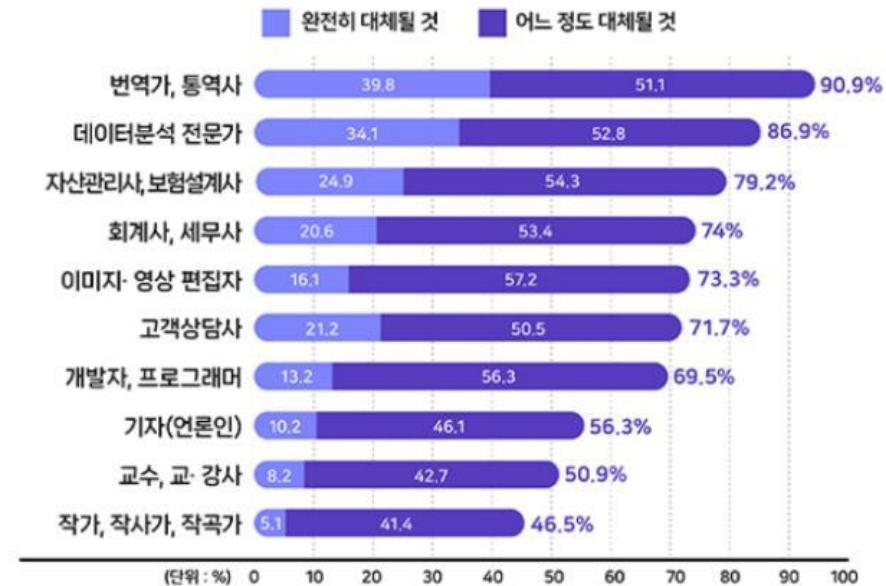
학교에서 무엇을 배우든  
남은 인생의 대부분을  
평생 처음 보는 무언가를  
하면서 살아가야 하는 시대

&lt;표 3-6&gt; 직업 세분류별 자동화 가능 직무 비중(2030년 기술 수준)

상위 20	직업(KECO_2018)	자동화 가능 직무 (2030)	하위 20	직업(KECO_2018)	자동화 가능 직무 (2030)
1	주방장 및 요리 연구가	1.00	1	의회의원 · 고위공무원 및 공공단체임원	0.64
2	세탁원(다림질원)	1.00	2	대학교수	0.64
3	주방 보조원	1.00	3	판사 및 검사	0.69
4	재봉사	1.00	4	사회과학 연구원	0.70
5	패스트푸드 준비원	1.00	5	변호사	0.74
6	조적공 및 석재부설원	1.00	6	인문과학 연구원	0.76
7	시멘트 · 광물제품 생산기계 조작원	1.00	7	항공기 조종사	0.78
8	냉 · 난방 설비 조작원	1.00	8	생명과학 연구원	0.79
9	청소원	1.00	9	정부행정 관리자	0.80
10	제관원	1.00	10	지휘자, 작곡가 및 연주가	0.80
11	금형원	1.00	11	작가	0.80
12	바닥재 시공원	1.00	12	자연과학 연구원	0.82
13	의복 · 가죽 · 모피 수선원	1.00	13	회계사	0.83
14	주조원	1.00	14	상담 전문가	0.84
15	제분 · 도정 기계 조작원	1.00	15	항공기 정비원	0.84
16	고무 · 플라스틱 제품 조립원	1.00	16	배우 및 모델	0.84
17	떡 제조원	1.00	17	기자 및 언론 전문가	0.85
18	단조원	1.00	18	세무사	0.85
19	과실 · 채소 기계 조작원	1.00	19	손해사정사	0.85
20	음료 조리사	1.00	20	자연과학 시험원	0.86

## 사라질 위기 직업 1위는 번역사와 통역사

### 10개 직업군의 생성형 AI 대체 가능성에 대한 전망 인식



&lt;출처 : 한국언론진흥재단, 챗-GPT 이용경험 및 인식(23.4.12.)&gt;

한국언론진흥재단 온라인 설문조사에 따르면, 10개 직업군 중 번역가, 통역사가 생성형 AI의 발달에 따른 대체 가능성이 가장 높은 직업군으로 나타났습니다.

# 조선의 쉘프, 숙수(熟手)

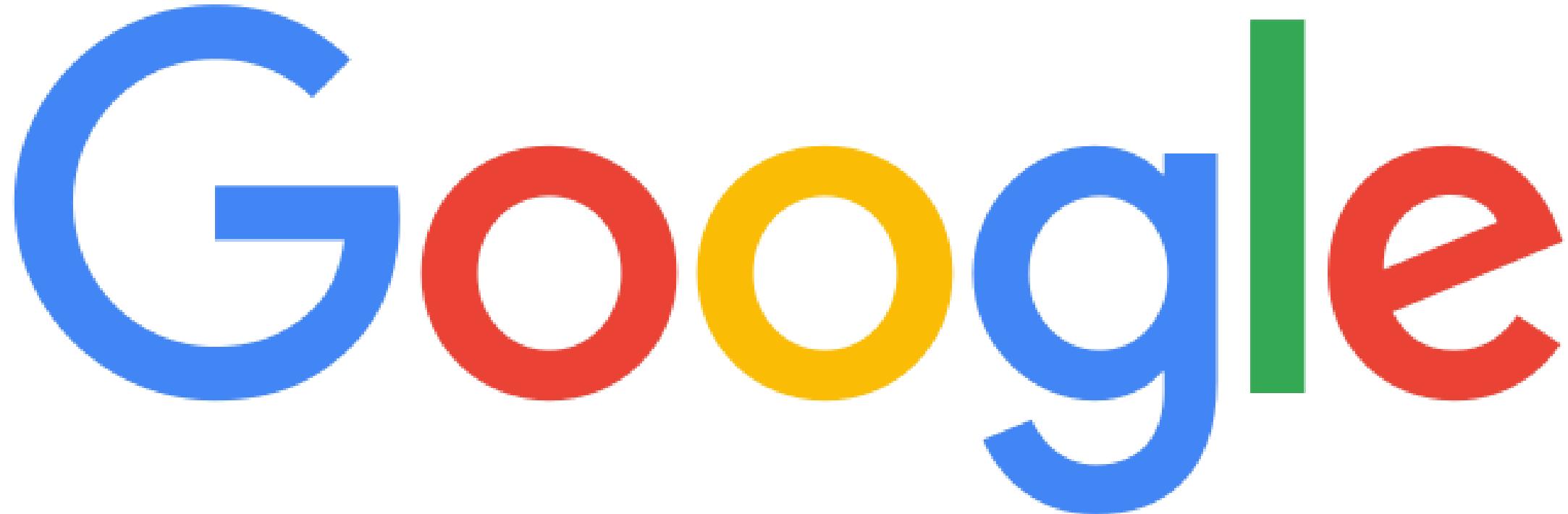












과거

현재

미래

지식 중심

역량 중심

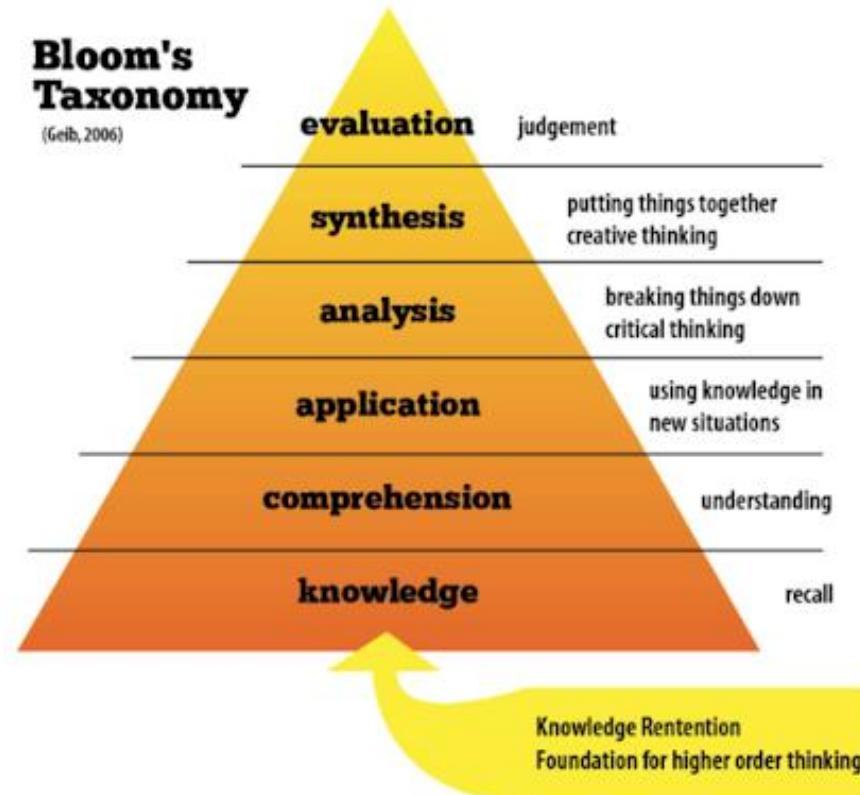
?

4서 삼경을 모두 외운다.

코딩을 할 수 있다.

GOOGLE

생성형 AI



무엇을 가르쳐야 할까?

→ 어떤 학생으로 성장시켜야 할까?

자신의 생각으로 새로운 길(직업)을 만들 수 있는 학생

- 질문이 있는 수업: 질문 = 가설
- 토론수업 - 하브루타
- 프로젝트수업: 문제해결력, 창의성