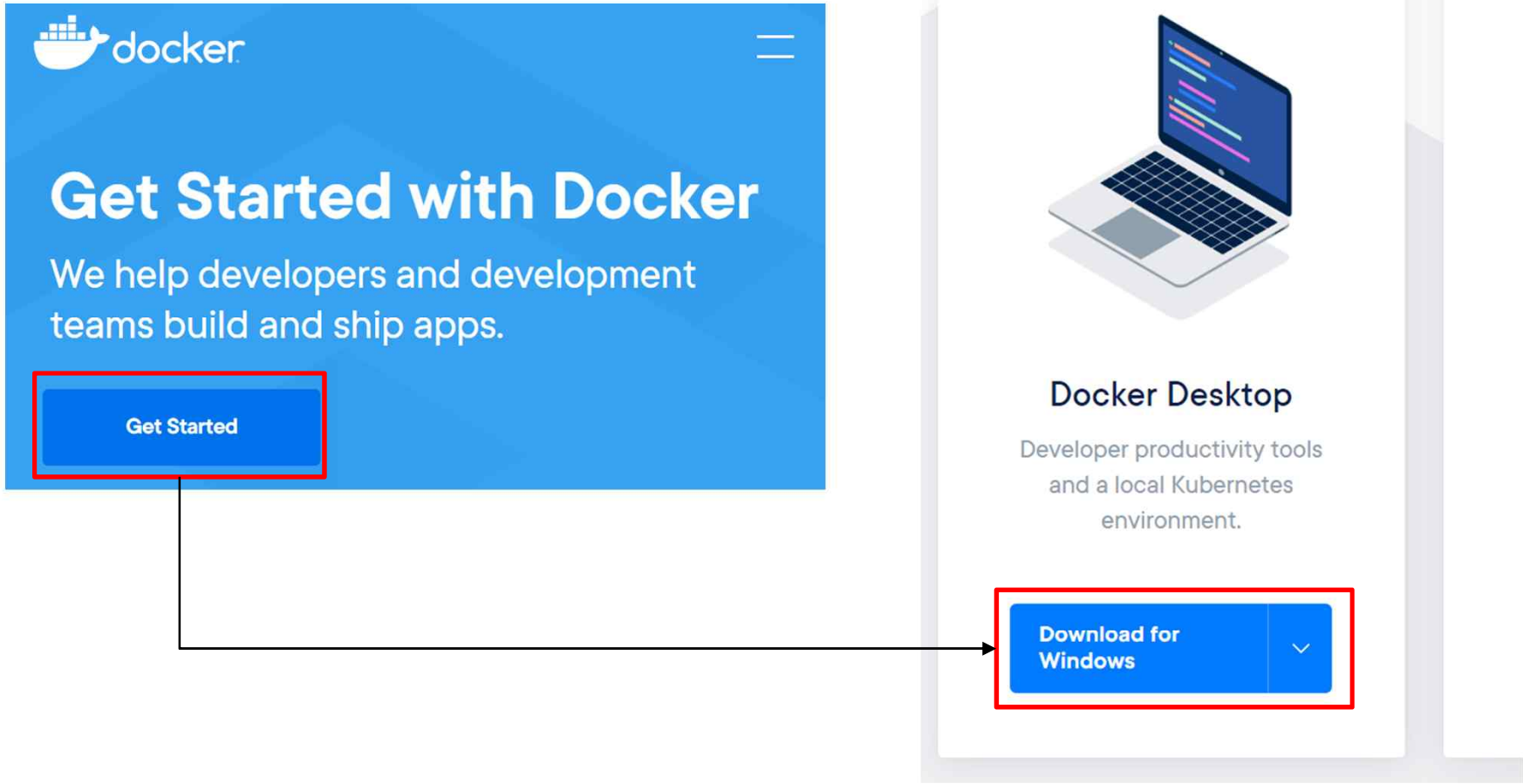
1강

환경설정

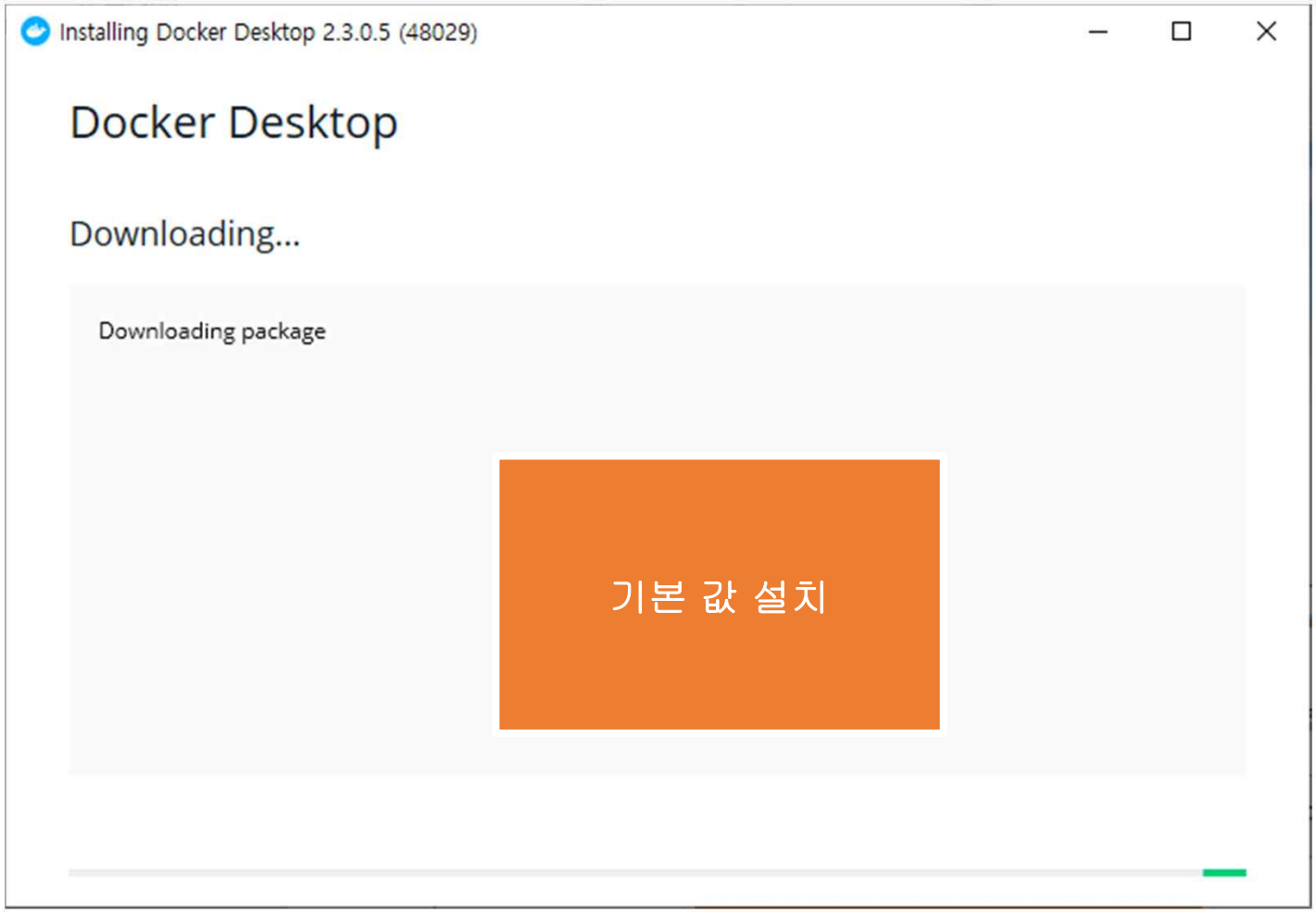
Docker 설치

Download

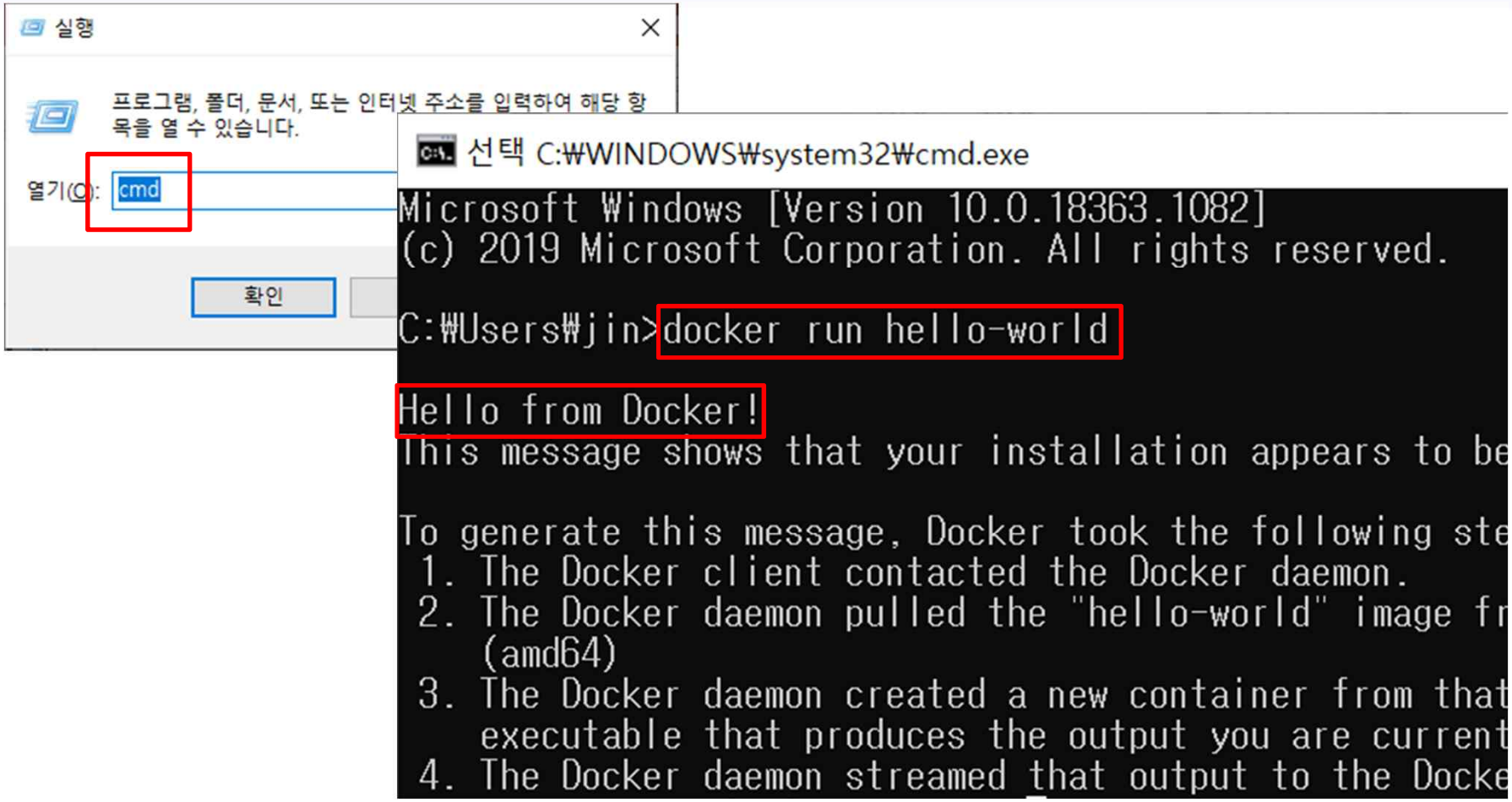
- https://www.docker.com/



설치


Installing Docker Desktop 2.3.0.5 (48029)
Docker Desktop
Downloading...
Downloading package
기본 값 설치

동작 확인


실행
프로그램, 폴더, 문서, 또는 인터넷 주소를 입력하여 해당 항목을 열 수 있습니다.
열기(O):
cmd
확인
선택 C:₩WINDOWS₩system32₩cmd.exe
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.
C:₩Users₩jin>docker run hello-world
Hello from Docker!
This message shows that your installation appears to be
To generate this message, Docker took the following ste
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image fr
(amd64)
3. The Docker daemon created a new container from that
executable that produces the output you are current
4. The Docker daemon streamed that output to the Docke

파이썬 설치

이미지 다운로드

```
C:₩Users₩jin>docker pull continuumio/miniconda3
Using default tag: latest
latest: Pulling from continuumio/miniconda3
68ced04f60ab: Pull complete
9c388eb6d33c: Pull complete
96cf53b3a9dd: Pull complete
Digest: sha256:456e3196bf3ffb13fee7c9216db4b18b5e6f4d37090b31df3e0309926e98cfe2
Status: Downloaded newer image for continuumio/miniconda3:latest
docker.io/continuumio/miniconda3:latest
```

이미지 실행

```
C:₩Users₩jin>docker run -i -t continuumio/miniconda3 /bin/bash
(base) root@c0e9c992f710:/# ls -l
total 64
drwxr-xr-x   1 root root 4096 Mar 12  2020 bin
drwxr-xr-x   2 root root 4096 Feb  1  2020 boot
drwxr-xr-x   5 root root  360 Sep 23 00:46 dev
drwxr-xr-x   1 root root 4096 Sep 23 00:46 etc
drwxr-xr-x   2 root root 4096 Feb  1  2020 home
drwxr-xr-x   1 root root 4096 Mar 12  2020 lib
drwxr-xr-x   2 root root 4096 Feb 24  2020 lib64
```

파이썬 실행

```
(base) root@c0e9c992f710:/# python3 -c "print(3*5)"
15
(base) root@c0e9c992f710:/# exit
exit

C:₩Users₩jin>_
```

라이브러리 설치

```
C:₩Users₩jin>docker run -i -t continuumio/miniconda3 /bin/bash
(base) root@198b72317f17:/# pip install beautifulsoup4
Collecting beautifulsoup4
  Downloading beautifulsoup4-4.9.1-py3-none-any.whl (115 kB)
     |                                | 115 kB 578 kB/s
Collecting soupsieve>1.2
  Downloading soupsieve-2.0.1-py3-none-any.whl (32 kB)
Installing collected packages: soupsieve, beautifulsoup4
Successfully installed beautifulsoup4-4.9.1 soupsieve-2.0.1
(base) root@198b72317f17:/# pip install requests
Requirement already satisfied: requests in /opt/conda/lib/python
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /opt/con
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=
equests) (1.25.8)
Requirement already satisfied: idna<2.9,>=2.5 in /opt/conda/lib/
Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/
(base) root@198b72317f17:/#
```

컨테이너 저장하기

```
C:₩Users₩jin>docker ps -a
CONTAINER ID        IMAGE                    COMMAND             CREATED
             NAMES
198b72317f17        continuumio/miniconda3   "/bin/bash"         3 minutes ago
             naughty_heyrovsky
c0e9c992f710        continuumio/miniconda3   "/bin/bash"         10 minutes ago
             condescending_edison
ce52d80ac4e7        hello-world              "/hello"            24 minutes ago
             kind_mccarthy

C:₩Users₩jin>docker commit 198b72317f17 python:init
sha256:2180c81fd210b00e476c4959e4632a0cc0cb0604a836fcb5941d869d2b0e7455

C:₩Users₩jin>_
```

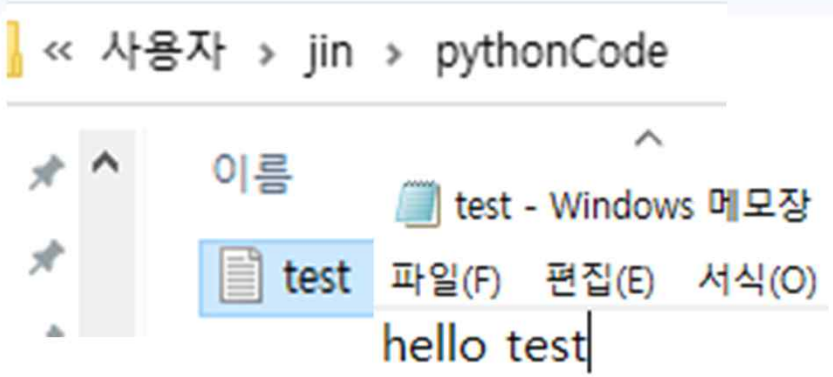
1. docker ps -a를 통해 실행중인 이미지 확인
2. 나타난 이미지 중 최근 이미지의 컨테이너ID 확인
3. docker commit [컨테이너id] [저장할이름:태그명]으로 저장

저장한 컨테이너 실행

```
C:₩Users₩jin>docker run -i -t python:init
(base) root@00cf4c77dff5:/# pip freeze
asn1crypto==1.3.0
beautifulsoup4==4.9.1
certifi==2019.11.28
cffi==1.14.0
chardet==3.0.4
conda==4.8.2
conda-package-handling==1.6.0
cryptography==2.8
idna==2.8
pycosat==0.6.3
pycparser==2.19
pyOpenSSL==19.1.0
PySocks==1.7.1
requests==2.22.0
```

1. 기존에 저장한 이미지 실행
2. pip freeze로 설치된 모듈 확인
3. 기존에 설치한 두 모듈 확인

마운트 하기



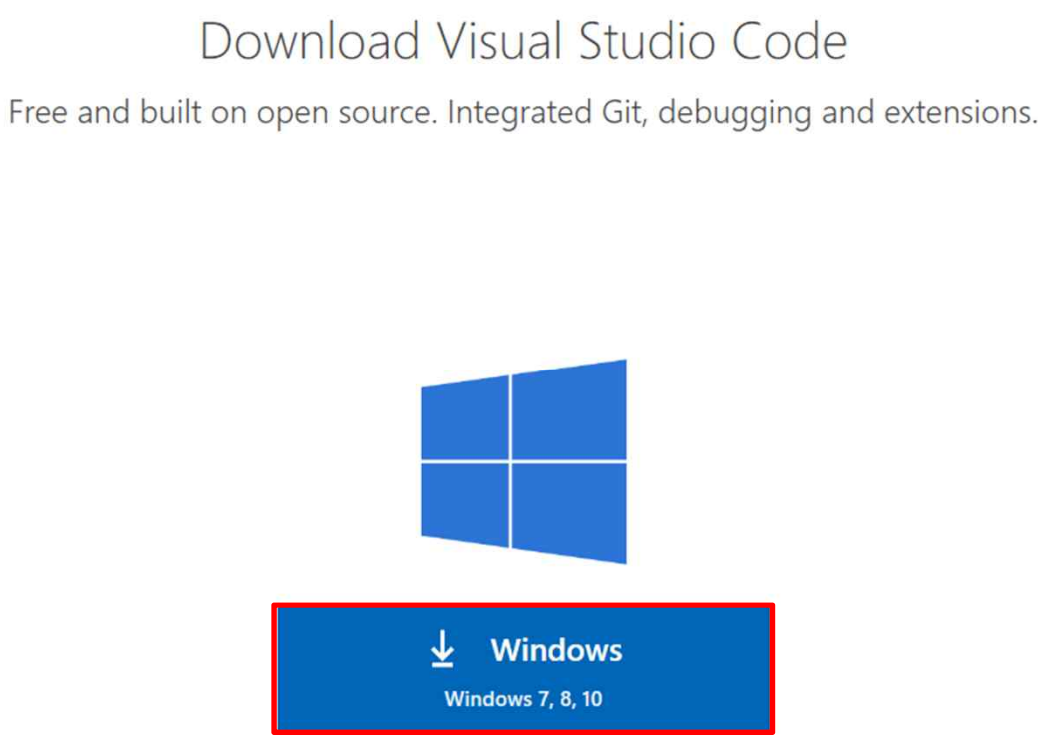

```
C:₩Users₩jin>docker run -i -t -v /c/users/jin/pythonCode:/pythonCode python:init
(base) root@a5581f69b902:/# cd pythonCode/
(base) root@a5581f69b902:/pythonCode# ls
test.txt
(base) root@a5581f69b902:/pythonCode# cat test.txt
Hello test(base) root@a5581f69b902:/pythonCode#
```

docker run –i –t –v [윈도우 폴더]:[컨테이너 폴더] [이미지 이름]:[태그이름]

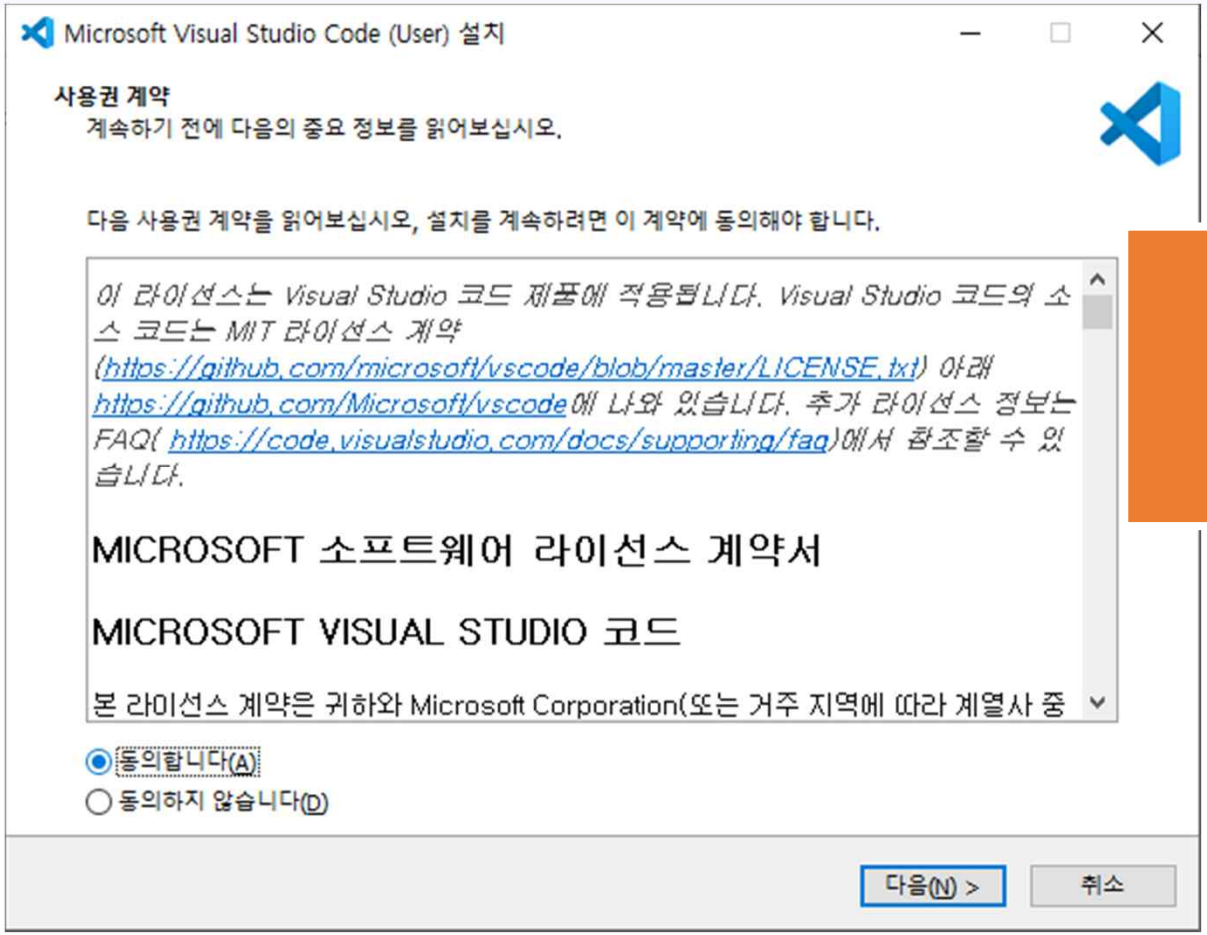
Vscode 설치

다운로드

- https://code.visualstudio.com/download



설치


Microsoft Visual Studio Code (User) 설치
사용권 계약
계속하기 전에 다음의 중요 정보를 읽어보십시오.
다음 사용권 계약을 읽어보십시오. 설치를 계속하려면 이 계약에 동의해야 합니다.
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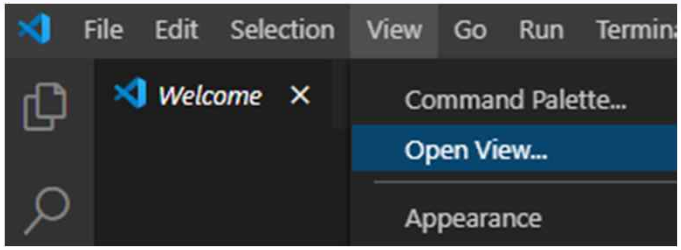
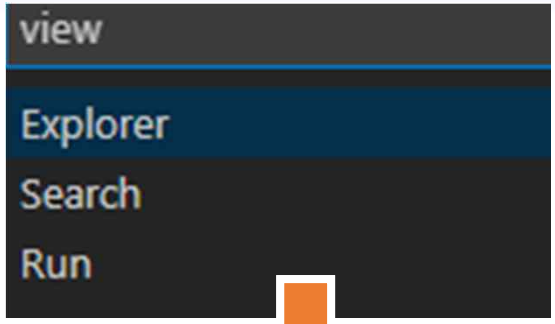
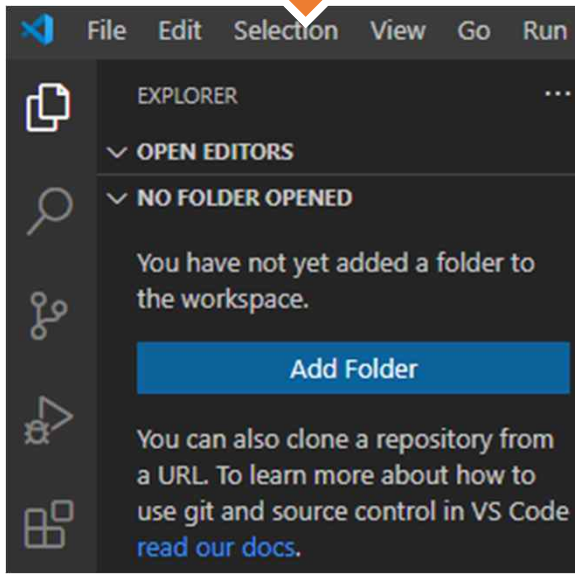
동의하지 않습니다(D)
다음(N) >
취소

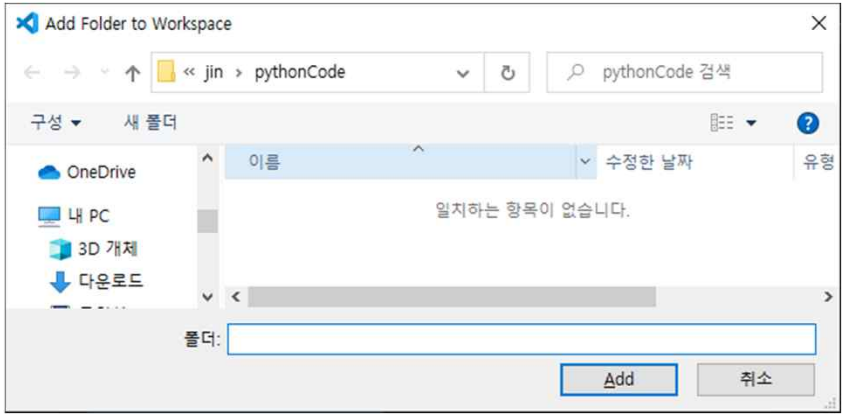
기본 값 설치

폴더 지정


File
Edit
Selection
View
Go
Run
Termin
Welcome
Command Palette...
Open View...
Appearance


view
Explorer
Search
Run


File
Edit
Selection
View
Go
Run
EXPLORER
OPEN EDITORS
NO FOLDER OPENED
You have not yet added a folder to the workspace.
Add Folder
You can also clone a repository from a URL. To learn more about how to use git and source control in VS Code read our docs.


Add Folder to Workspace
« jin › pythonCode
pythonCode 검색
구성
새 폴더
OneDrive
내 PC
3D 개체
다운로드
이름
수정한 날짜
유형
일치하는 항목이 없습니다.
폴더:
Add
취소