프로그래밍 환경 구축

Spring 2021

Saehee Park

E-mail : hee00315@gmail.com
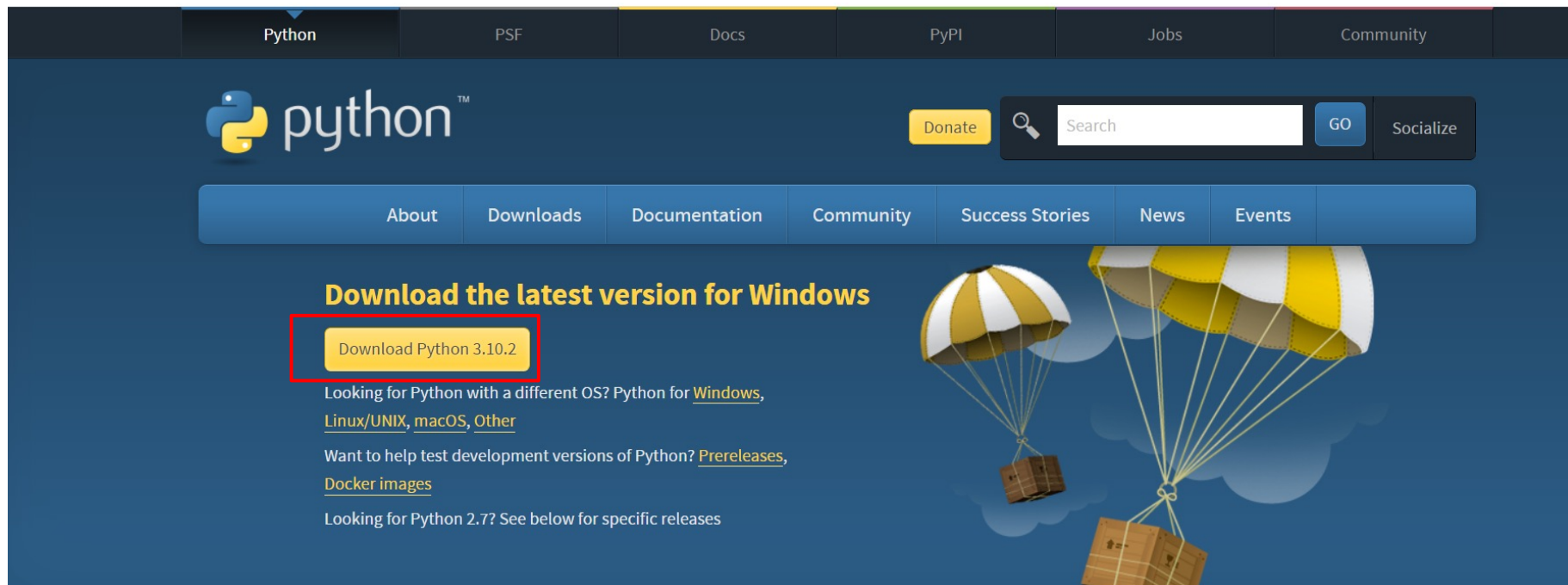Video Lecture: http://lms.mju.ac.kr
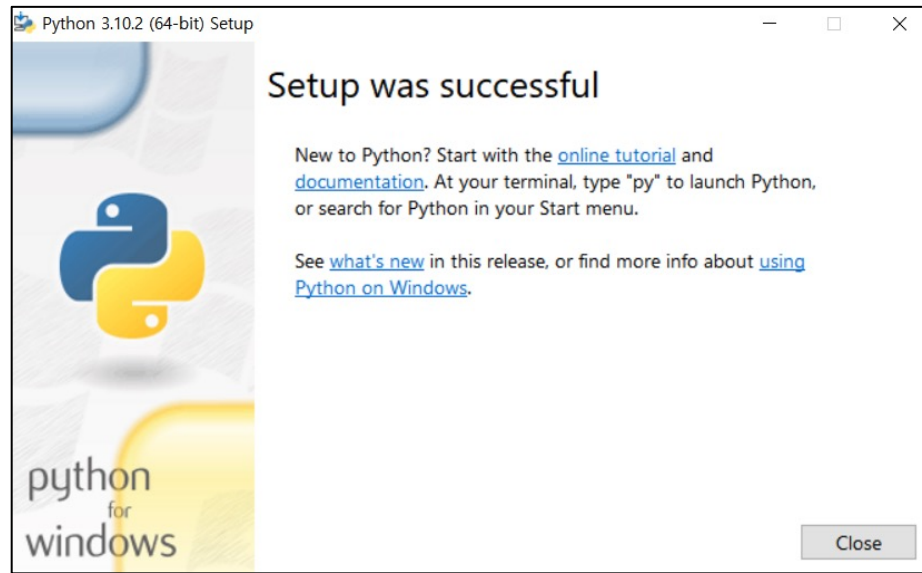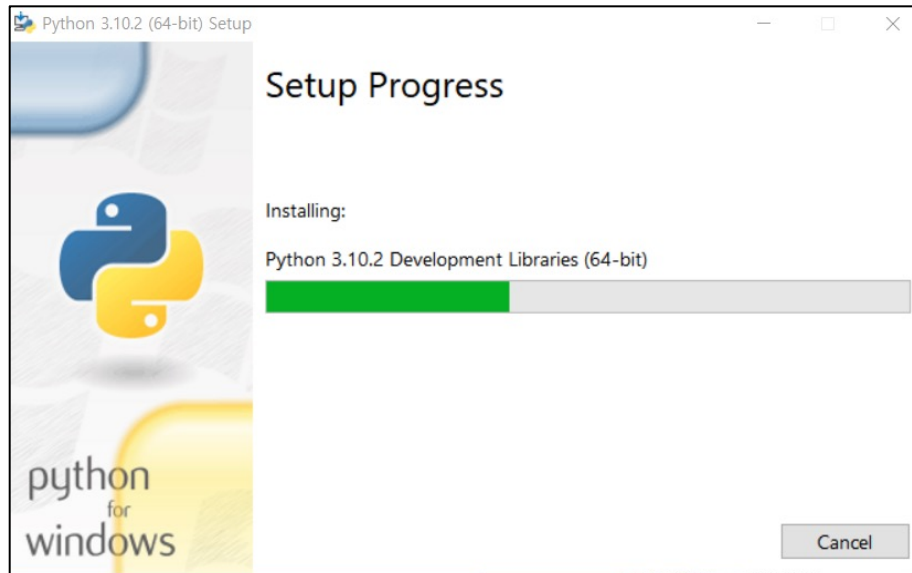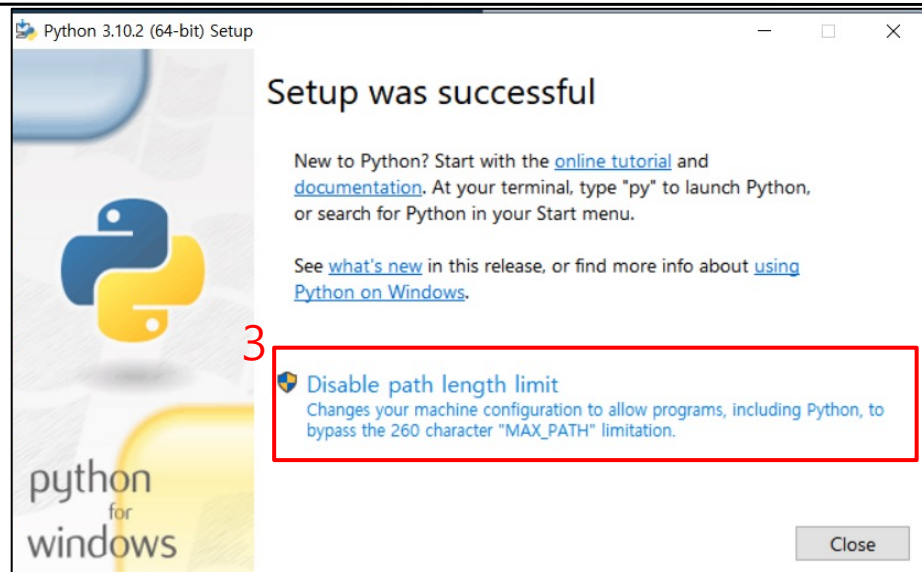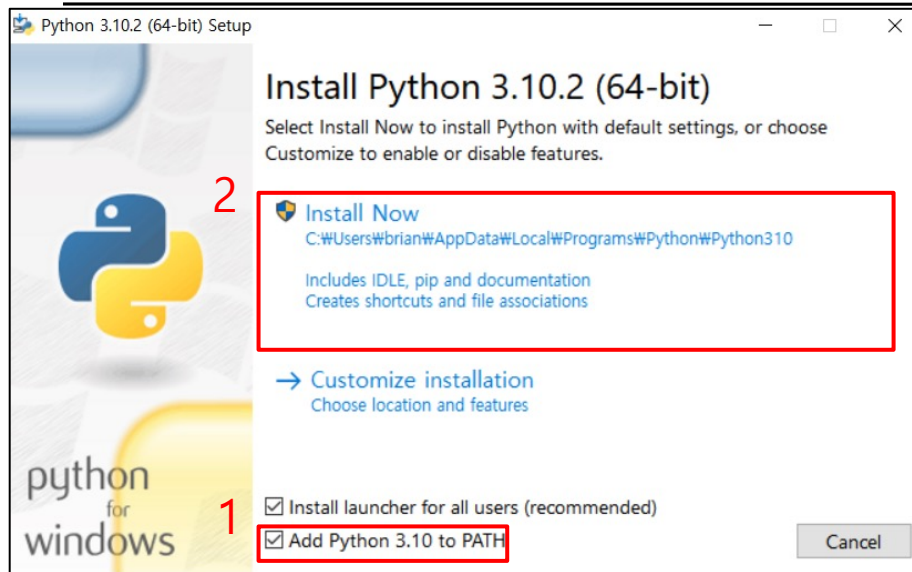Lecture Note: https:// lms.mju.ac.kr

Contents

- **Install Python**

- **Install Source Code Editor**
  - Sublime Text 4
  - Visual Studio Code
  - Jupyter Notebook

Install Python (Windows10)

- Downloading Python
  - https://www.python.org/downloads/

Install Python (Windows10)

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Install Python (Windows10)
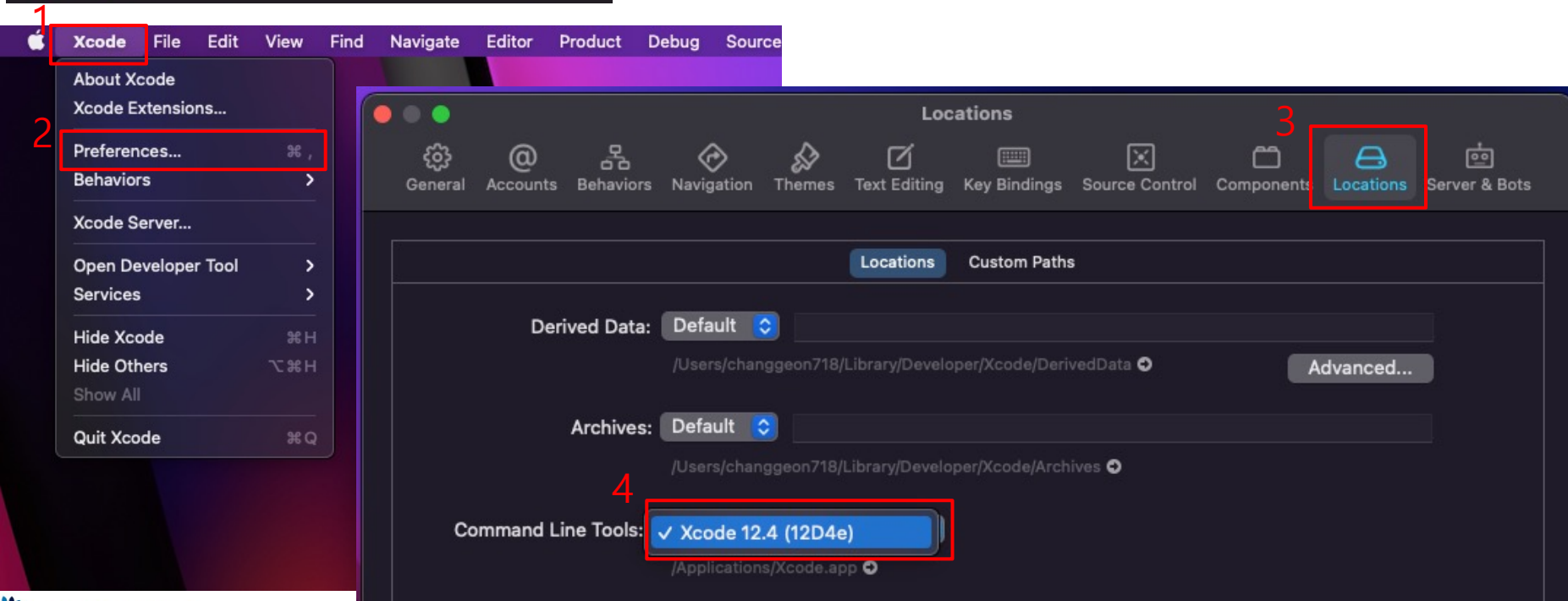
- 설치된 python, pip 버전 확인
  - python -V
  - pip -V
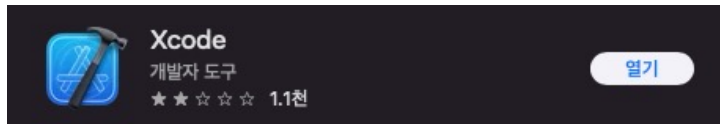
Install Python (Mac OS)

- Check the Python version
  - Mac OS는 기본적으로 python2와 3 모두 사용

  - Python 3.4 이상 버전을 사용.

Install Python (Mac OS)

- Install Xcode
  - AppStore에서 다운로드.
  - Xcode에서 command lines tools 옵션이 필요.

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Install Python (Mac OS)

- **Install homebrew**
  - package manager for Mac OS
  - https://brew.sh/index_ko

Homebrew 설치하기

```
$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

터미널에 붙여넣기 하세요.

해당 스크립트는 무엇을 할지 설명하고 실행하기 전에 잠시 멈춥니다. 더 자세한 설치 옵션사항을 보려면 여기를 참고하세요.

- **Install Python**
  - Install with Homebrew
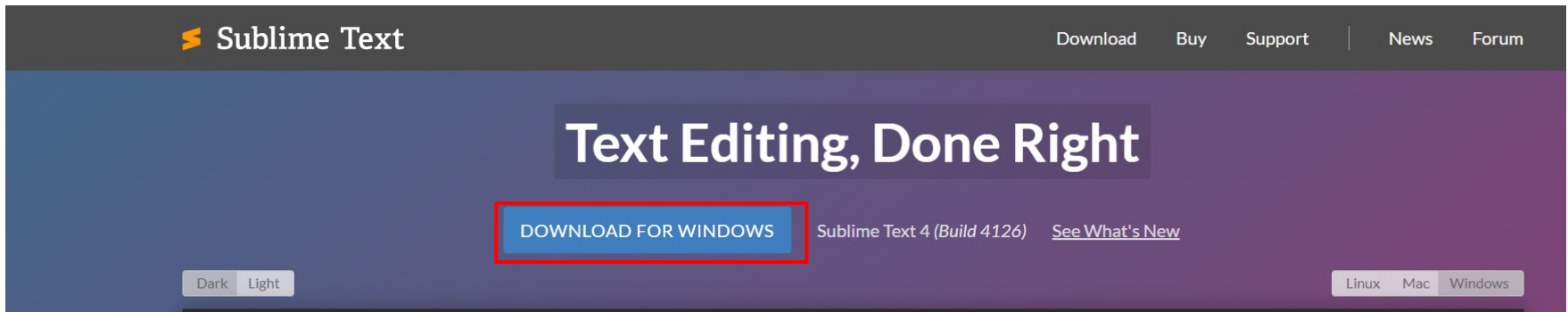
```
$ brew install python
```

Sublime Text 4

- Cross-platform source code editor.

- 동작 속도가 매우 빠르다.

- 현대에 주로 사용되는 언어를 기본으로 지원.

Install Sublime Text 4

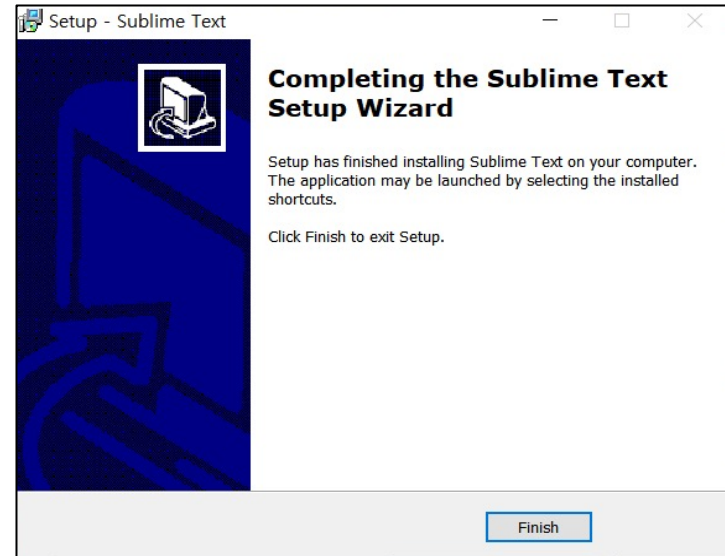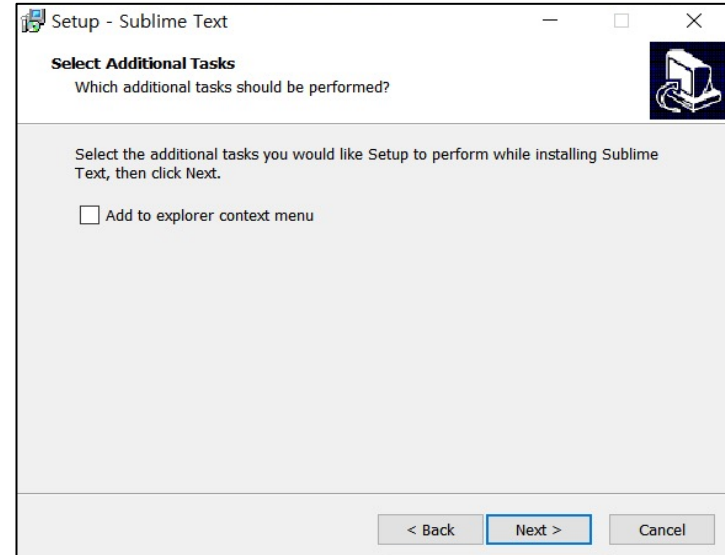- Downloading Sublime Text 4
  - https://www.sublimetext.com/
- Windows10

- Mac OS

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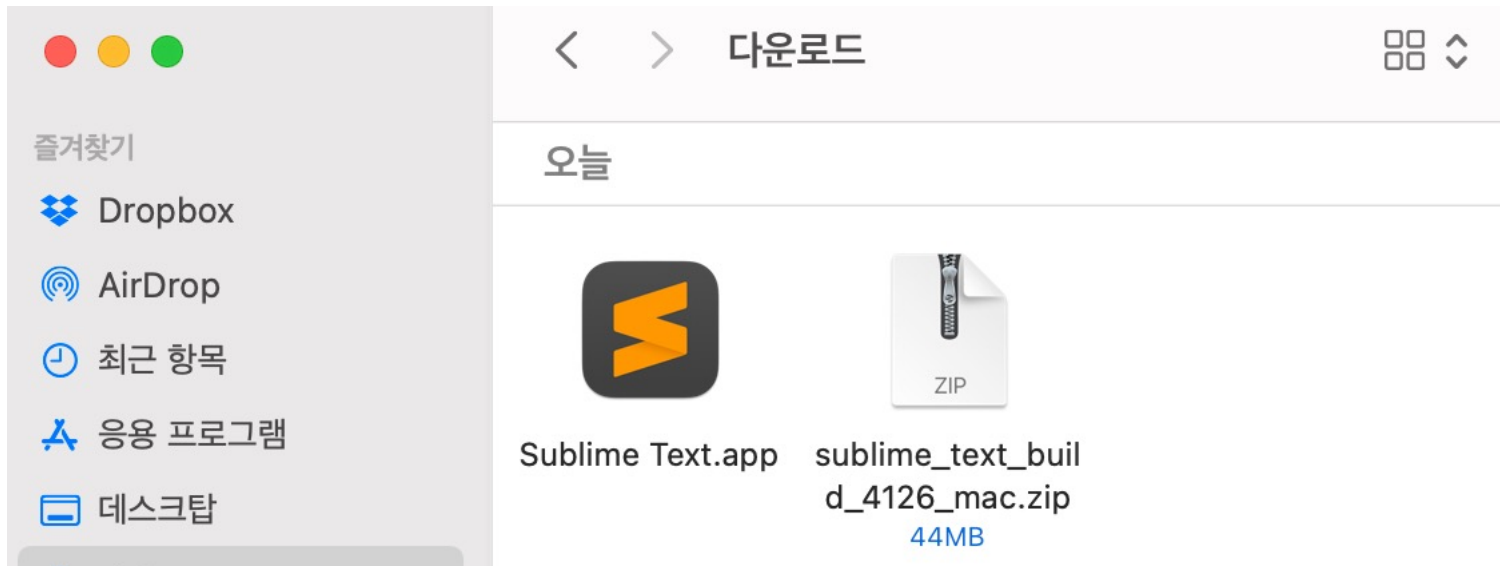
Install Sublime Text 4 (Windows10)

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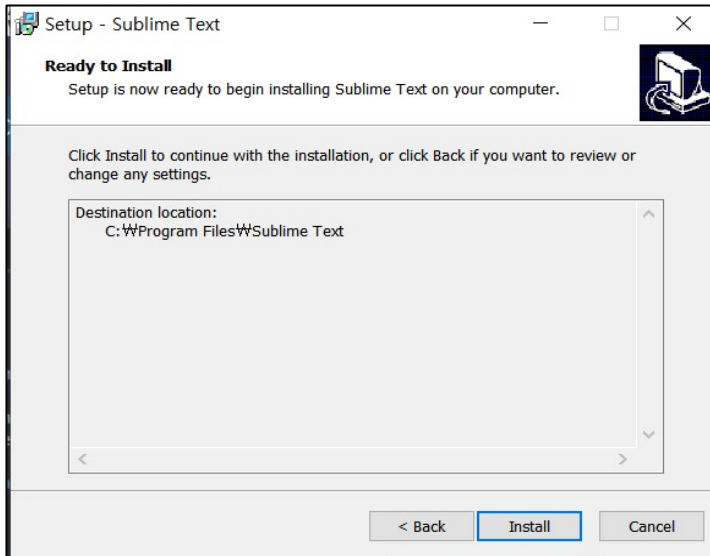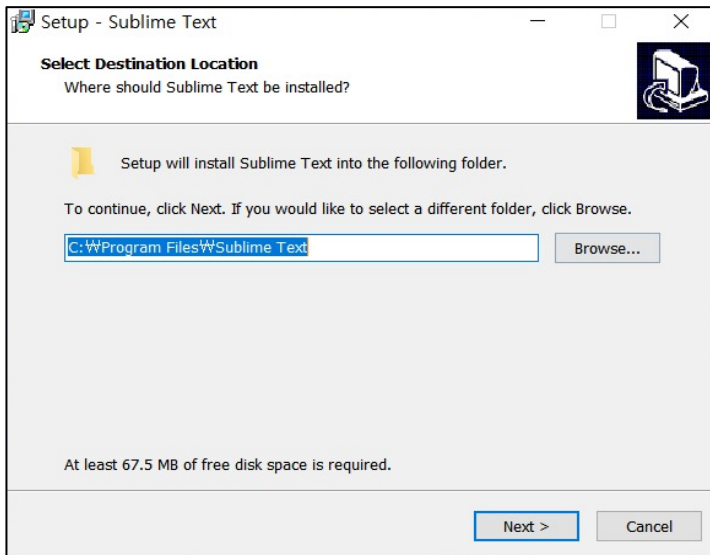
Install Sublime Text 4 (Mac OS)

- 다운로드한 zip 파일 압축 해제

- Sublime Text 드래그 하여 응용 프로그램 옮기기

Visual Studio Code

- Cross-platform source code editor.

- 터미널이 내장되어 별도로 터미널을 열 필요가 없음.

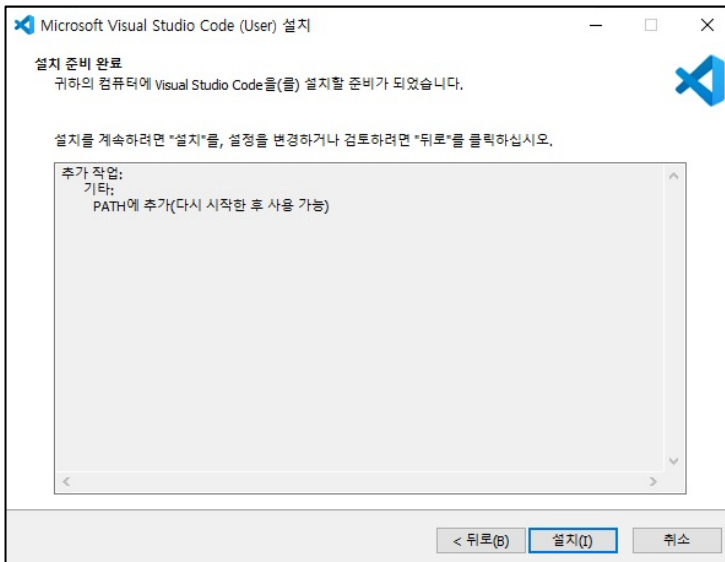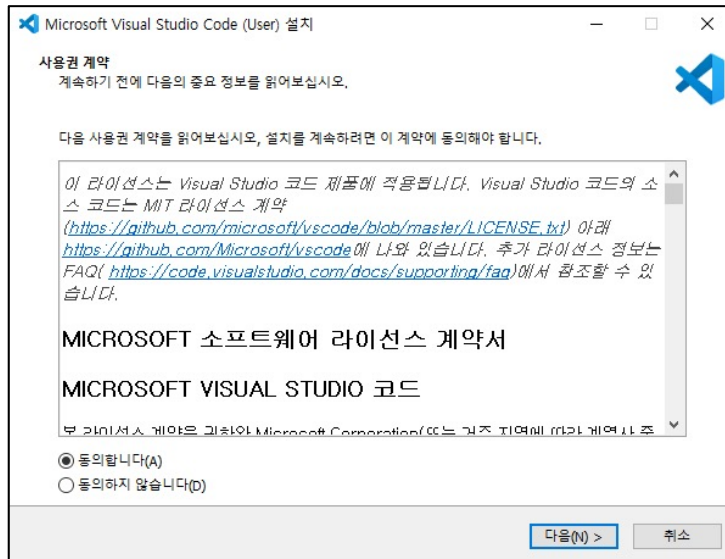- 확장 기능이 매우 많음.

Install Visual Studio Code

- Downloading Visual Studio Code
  - https://code.visualstudio.com/download
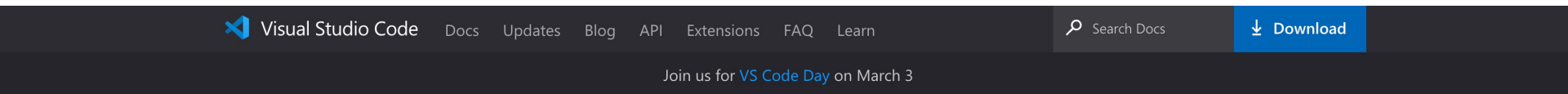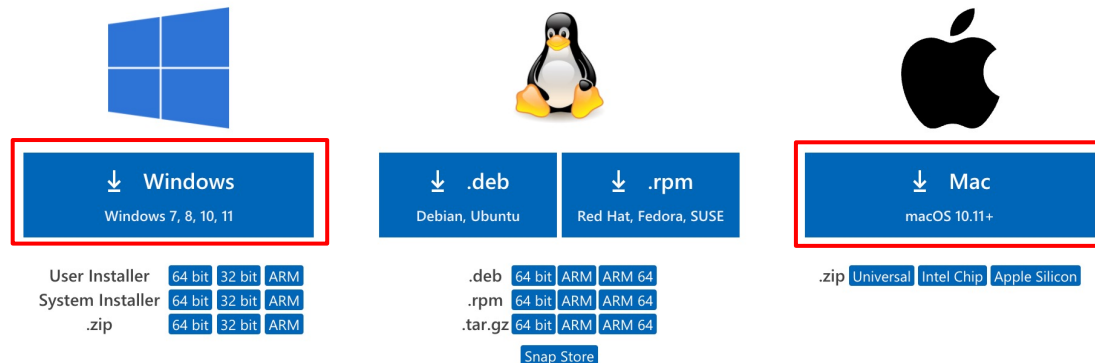
Install Visual Studio Code (Windows10)

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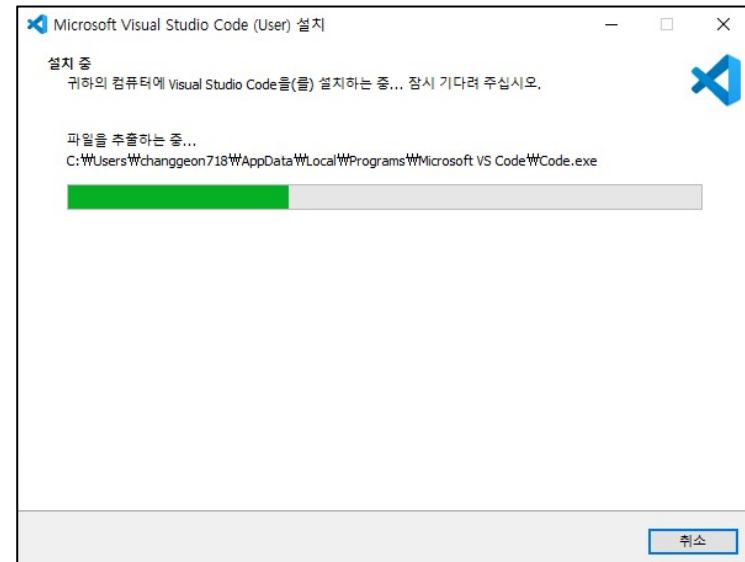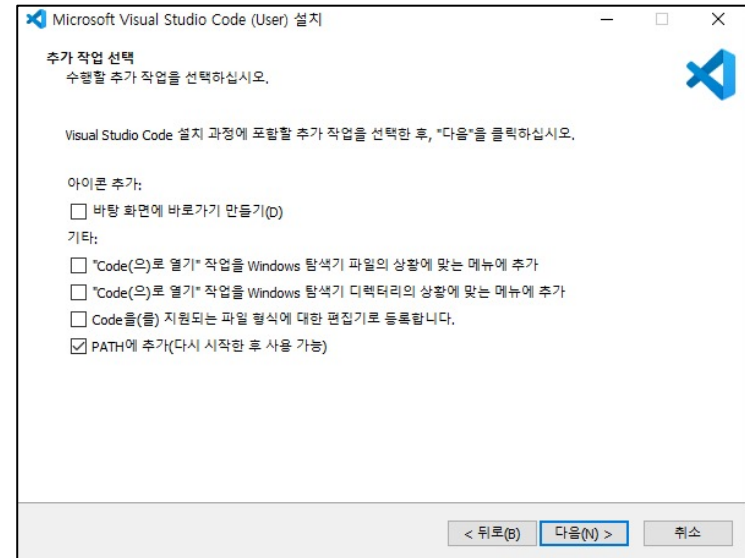
Install Visual Studio Code (Mac OS)

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- Visual Studio Code 드래그 하여 응용 프로그램 옮기기
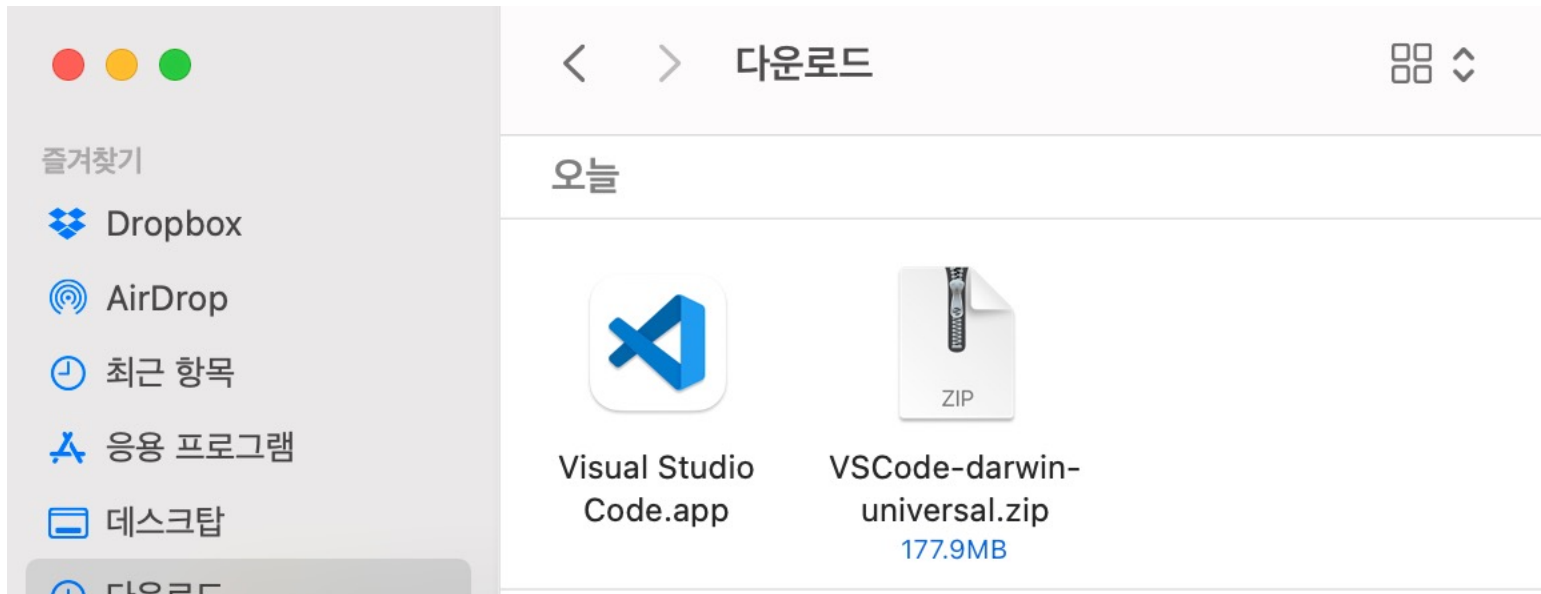
Jupyter Notebook

- python 기반의 웹 코딩 라이브러리.

- 데이터 분석 및 수치 분석에 많이 사용.

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Install Jupyter Notebook

- CMD(Windows10), Terminal(Mac OS)에서 명령어 실행.
  - pip install jupyter

Windows 10

Mac OS

Jupyter Notebook

- Jupyter Notebook 실행
  - jupyter notebook (사용할 디렉토리에서 명령어 입력)
- Windows10

- Mac OS
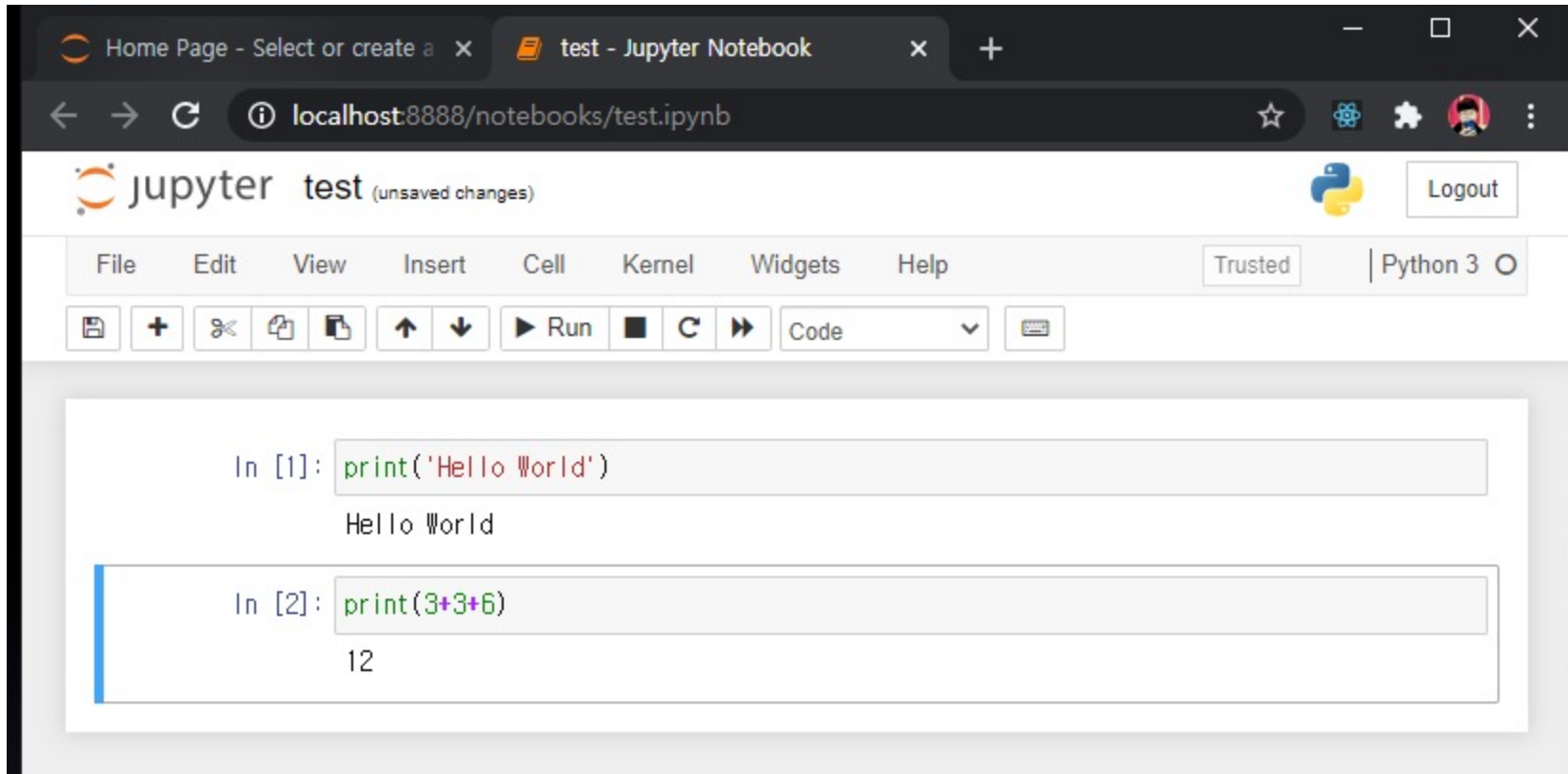
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Jupyter Notebook

- Jupyter Notebook 사용방법

Jupyter Notebook

- 블록 실행
  - Control + enter (현재 블록 실행 후 다음 블록으로 이동)
  - Shift + enter (현재 블록만 실행)

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