

Graphics 설치

Python 기반

Outline

- I. Portable Python 다운로드
- II. Portable Python 설치
- III. 패키지 설치
- IV. 설치 확인

1. Portable Python 다운로드

구글링:
SourceForge



portable python



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About 58,400,000 results (0.46 seconds)

<https://portablepython.com>

Portable Python - Portable Python

Python(x,y) is a free scientific and engineering development software for numerical computations, data analysis and data visualization based on **Python** ...

People also ask

Is there a portable version of Python?



What is portable Python?



How do I run a portable Python?



How do I make a Python environment Portable?



Feedback

<https://winpython.github.io>

WinPython

portable — WinPython is a free open-source **portable** distribution of the **Python** programming language for Windows 8/10 and scientific and educational usage.

<https://sourceforge.net> > ... > Software Development

Portable Python download | SourceForge.net

Apr 10, 2021 — Download **Portable Python** for free. Minimum barebones **Portable Python** distribution with PyScripter as development environment.

★★★★★ Rating: 5 · 2 votes · Free · Windows · Developer

1. Portable Python 다운로드

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 **Portable Python**
Brought to you by: [thewatcher2018](#)

★★★★★ 2 Reviews Downloads: 610 This Week

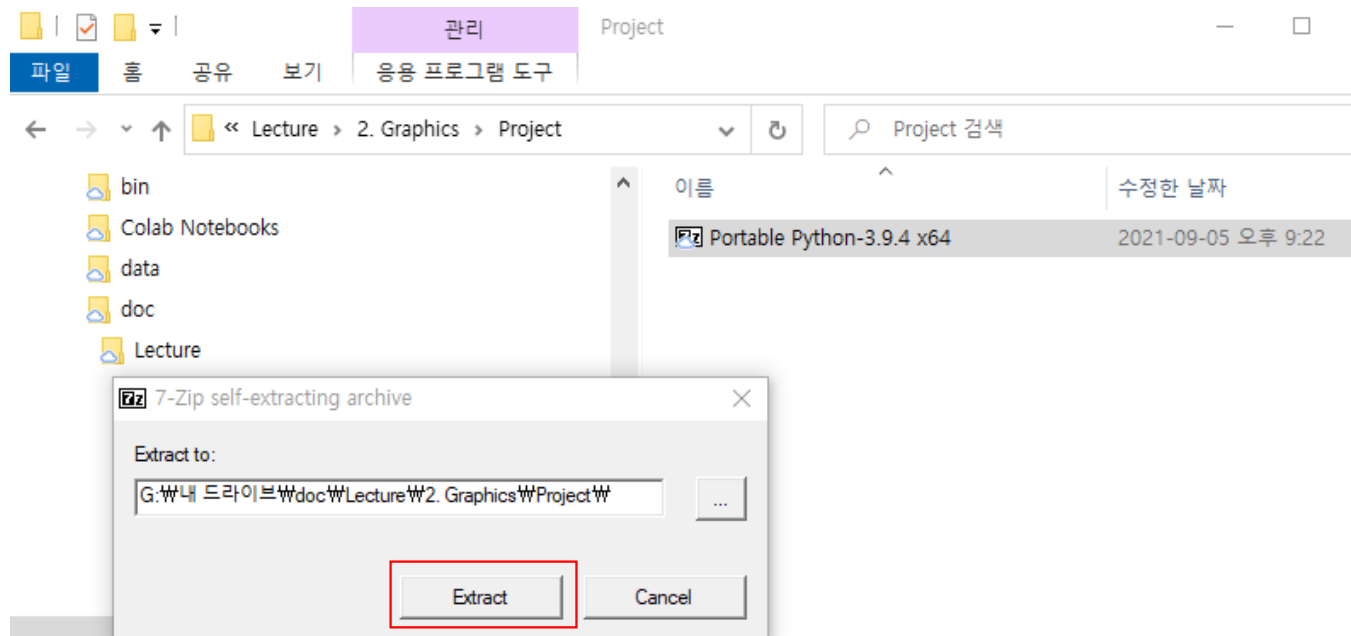
Windows

Summary	Files	Reviews	Support	Code
<p>Minimum barebones Portable Python distribution with PyScripter as development environment. Co those provided with the official python setup from python.org</p> <p>NOTE: This project is NOT affiliated with portablepython.com though this project is inspired by it</p>				

<https://sourceforge.net/projects/portable-python/files/latest/download>

2. Portable Python 설치

원하는 폴더에 이동 및 더블 클릭



[드라이브 - computergraphics]

3. 패키지 설치

Console-launcher 선택 더블클릭 → Command 창

App	2021-04-11 오전 4:53
Console-Launcher	2021-04-11 오전 4:53
how to use PIP	2018-11-02 오전 1:32
IDLE-Launcher	2021-04-11 오전 4:53
License	2018-02-13 오전 5:14
PyScripter-Launcher	2021-04-11 오전 4:53
Python-Launcher	2021-04-11 오전 4:53
PythonW-Launcher64	2021-04-11 오전 4:53
Readme	2021-04-11 오전 4:53

```
Portable Python 3.9.4 (64 bit) Console
Python3.9.4 (tags/v3.9.4:1f2e308, Apr 6 2021, 13:40:21) [MSC v.1928 64 bit (AMD64)]
G:\내 드라이브\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>
```

3. 패키지 설치

- Pip 업데이트
=> python -m pip install --upgrade pip
- Opengl 설치
=> python -m pip install PyOpenGL
- glfw 설치
=> python -m pip install glfw
- pyrr 설치
=> python -m pip install pyrr
- pillow 설치
=> python -m pip install pillow

```
G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>python -m pip install --upgrade pip
Collecting pip
  Downloading pip-21.2.4-py3-none-any.whl (1.6 MB)
    |#####| 1.6 MB 6.4 MB/s
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 20.2.3
    Uninstalling pip-20.2.3:
      Successfully uninstalled pip-20.2.3
  WARNING: The scripts pip.exe, pip3.exe and pip3.exe are installed in 'G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64\AppData\Python\Scripts' which is not on PATH.
    Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed pip-21.2.4

G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>
G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>python -m pip install PyOpenGL
Collecting PyOpenGL
  Downloading PyOpenGL-3.1.5-py3-none-any.whl (2.4 MB)
    |#####| 2.4 MB 6.8 MB/s
Installing collected packages: PyOpenGL
Successfully installed PyOpenGL-3.1.5

G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>
G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>python -m pip install glfw
Collecting glfw
  Downloading glfw-2.1.0-py2.py3.py30.py31.py32.py33.py34.py35.py36.py37.py38-none-win_and64.whl (491 kB)
    |#####| 491 kB 6.8 MB/s
Installing collected packages: glfw
Successfully installed glfw-2.1.0

G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>
G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>python -m pip install pyrr
Collecting pyrr
  Downloading pyrr-0.10.3-py3-none-any.whl (46 kB)
    |#####| 46 kB 1.8 MB/s
Collecting numpy
  Downloading numpy-1.21.2-cp38-cp39-win_and64.whl (14.0 MB)
    |#####| 14.0 MB 6.8 MB/s
Collecting multidispatch
  Downloading multidispatch-0.6.0-py3-none-any.whl (11 kB)
Collecting six
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, numpy, multidispatch, pyrr
  WARNING: The script f2py.exe is installed in 'G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64\AppData\Python\Scripts' which is not on PATH.
    Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed multidispatch-0.6.0 numpy-1.21.2 pyrr-0.10.3 six-1.16.0

G:\내 드라이브\doc\Lecture\2. Graphics\Project\Portable Python-3.9.4 x64>python -m pip install pillow
Collecting pillow
  Downloading Pillow-8.3.2-cp38-cp39-win_and64.whl (3.2 MB)
    |#####| 3.2 MB 6.4 MB/s
Installing collected packages: pillow
Successfully installed pillow-8.3.2
```

4. 설치 확인

뭣함 파일이없음

- test.py 파일을 원하는 폴더에 넣기
- 패키지 설치한 portable python console창에서 test.py 넣은 폴더로 이동
(dos 명령어 사용
같은 드라이브라면 cd 폴더 주소 **cd source**
다른 드라이브라면 드라이브 이동 후 cd 폴더 주소) **cd C:\computergraphics\Source**
- Python script 실행
=> **python test.py** 입력
- 삼각형이 잘 나오면 성공

