# **Python**

# 파이썬 설치

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#### • Python이란?

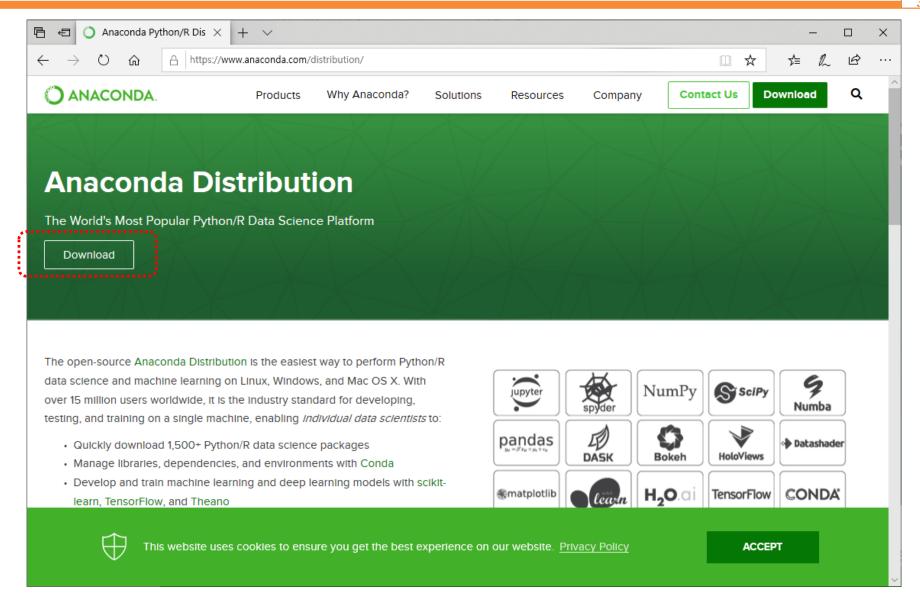
- 1991년 귀도 반 로섬(Guido Van Rossum, 1956년, 네덜란드, 히도 판 로쉼)이 발표
  - 1989년 크리스마스 주에 연구실이 닫혀 있어서 심심한 김에...
  - 기술자들은 심심할 때 항상 걸작이 나온다??
- 다양한 플랫폼에서 쓸 수 있고, 라이브러리(모듈)가 풍부하여, 대학을 비롯한 여러교육 기관, 연구 기관 및 산업계에서 이용이 증가
- Interpreter 언어(컴파일 과정이 필요 없다).
- 들여쓰기를 사용해서 블록을 구분하는 독특한 문법을 채용

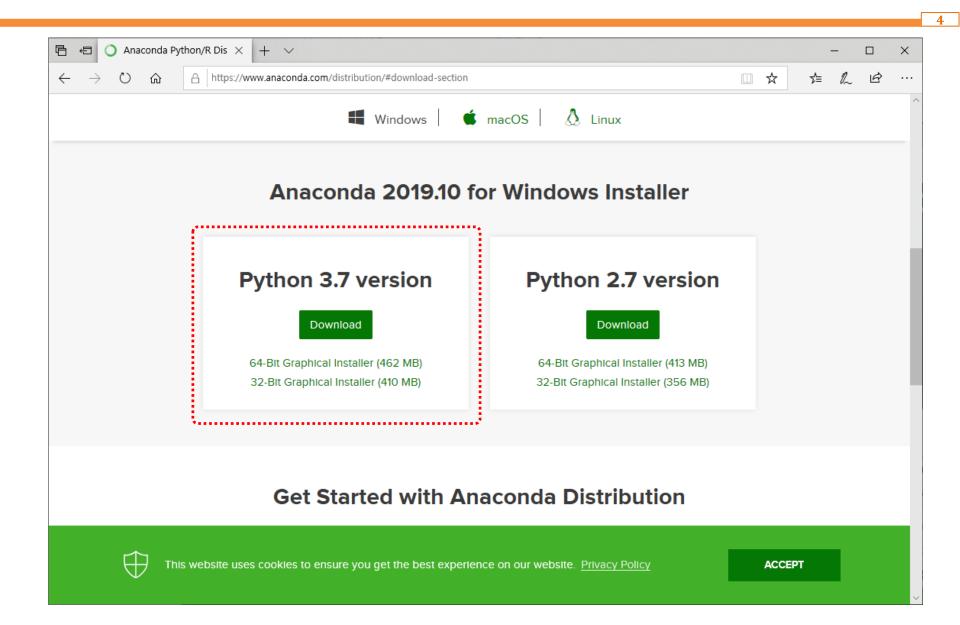
사전적 의미는 '피톤'이라는 이름으로 알려진 고대 그리스신화에 나오는 거대한 뱀의 이름

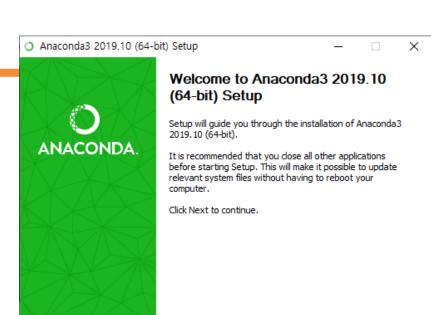
#### • 버전

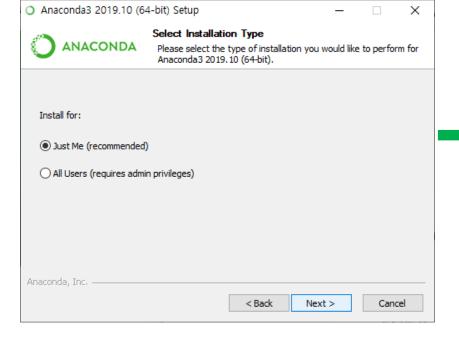
- 2.x(2000년)와 3.x(2008년) 두 가지 버전이 공존.
- 위 두 가지는 서로 호환되지 않음.
- 커뮤니티(Community)
  - 파이콘 코리아(Pycon Korea)
    - https://www.facebook.com/groups/pythonkorea
- https://www.tiobe.com/tiobe-index/

## Anaconda Python 설치



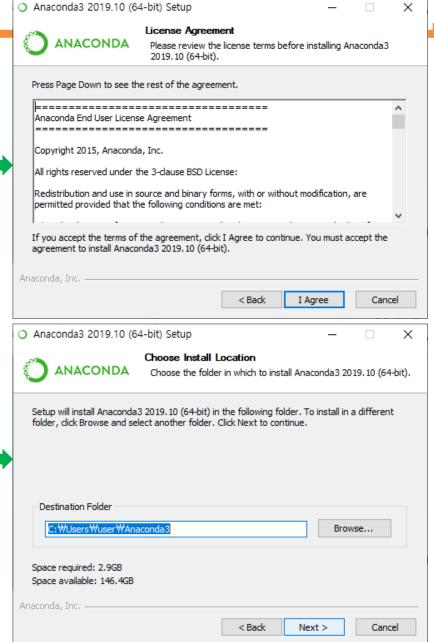




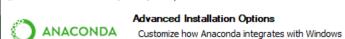


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Add Anaconda to my PATH environment variable

Anaconda3 2019.10 (64-bit) Setup

Advanced Options

Not recommended. Instead, open Anaconda with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.

Register Anaconda as my default Python 3.7

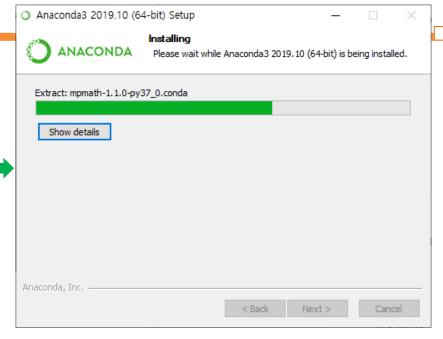
This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.7 on the system.

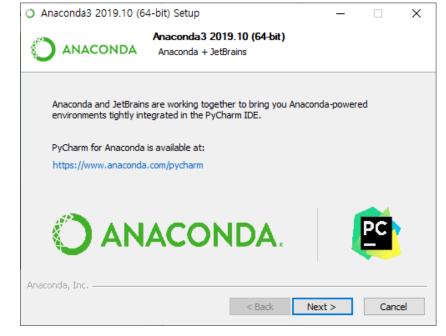
Anaconda, Inc. —

< Back Install

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• 최신 패키지 업데이트: Anaconda Prompt (Anaconda3) 선택



- (base) C:\Users\user>conda update -n base conda
- (base) C:\Users\user>conda update –all
- 파이썬 버전 확인
  - (base) C:\Users\user>python --version
- 텐서플로우(TensorFlow 2)설치
  - (base) C:\Users\user>pip3 install tensorflow

#### **Jupyter Project**

- 대화형 컴퓨팅을 위한 커맨드 쉘
- 40여종 이상의 다양한 언어를 지원
- 브라우저 기반 노트북
  - 코드, 텍스트, 수식, 인라인 플롯, 기타 미디어등을 포함
- 병렬 컴퓨팅을 위한 툴 제공
- **Python** is a requirement (Python 3.3 or greater, or Python 2.7) for installing the Jupyter Notebook itself.
- http://jupyter.org/



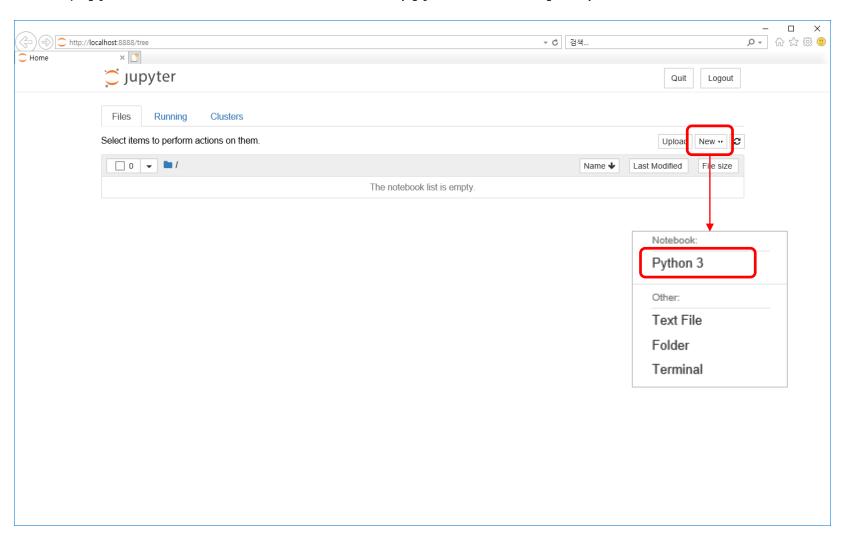
#### jupyter 소스 root경로 설정

- (base) C:₩Users₩user>jupyter notebook --generate-config
  - C:₩Users₩user₩.jupyrt₩jupyter\_notebook\_config.py 파일이 생성.
  - Text editor로 jupyter\_notebook\_config.py에서 원하는 경로(root경로)로 수정

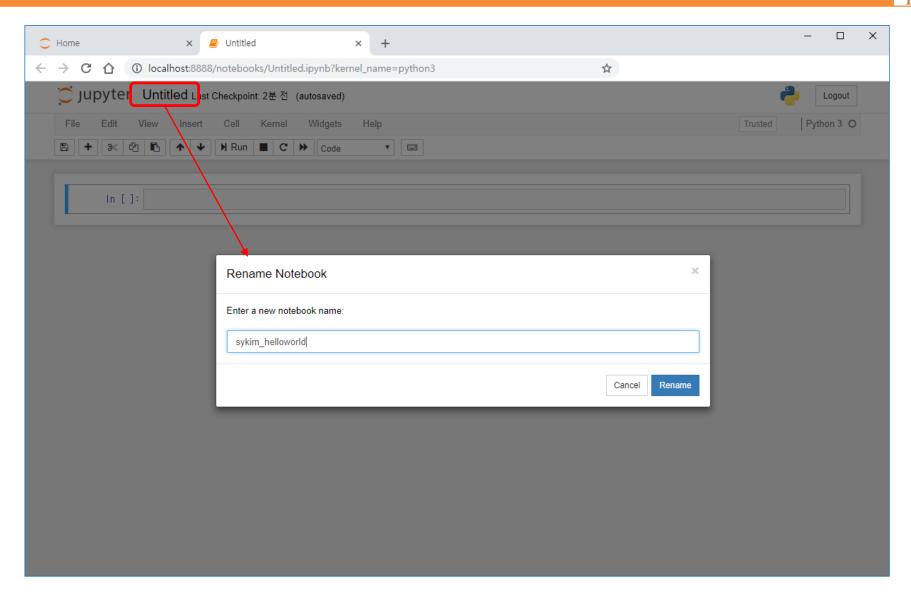
```
201
     ## The MathJax.is configuration file that is to be used.
202
     #c.NotebookApp.mathjax config = 'TeX-AMS-MML HTMLorMML-full, Safe'
203
204
     ## A custom url for MathJax.js. Should be in the form of a case-sensitive url to
205
     # MathJax, for example: /static/components/MathJax/MathJax.js
206
     #c.NotebookApp.mathjax url = ''
207
208
     ## Dict of Python modules to load as notebook server extensions. Entry values can
209
     # be used to enable and disable the loading of the extensions. The extensions
210
     # will be loaded in alphabetical order.
211
     #c.NotebookApp.nbserver extensions = {}
212
213
     ## The directory to use for notehooks and kornels
214
     #c.NotebookApp.notebook dir = ''
215
     c.NotebookApp.notebook dir = 'D:/python workspace'
216
217
     ## Whether to open in a browser after starting. The specific browser used is
218
     # platform dependent and determined by the python standard library `webbrowser`
219
     # module, unless it is overridden using the --browser (NotebookApp.browser)
220
     # configuration option.
221
     #c.NotebookApp.open browser = True
```

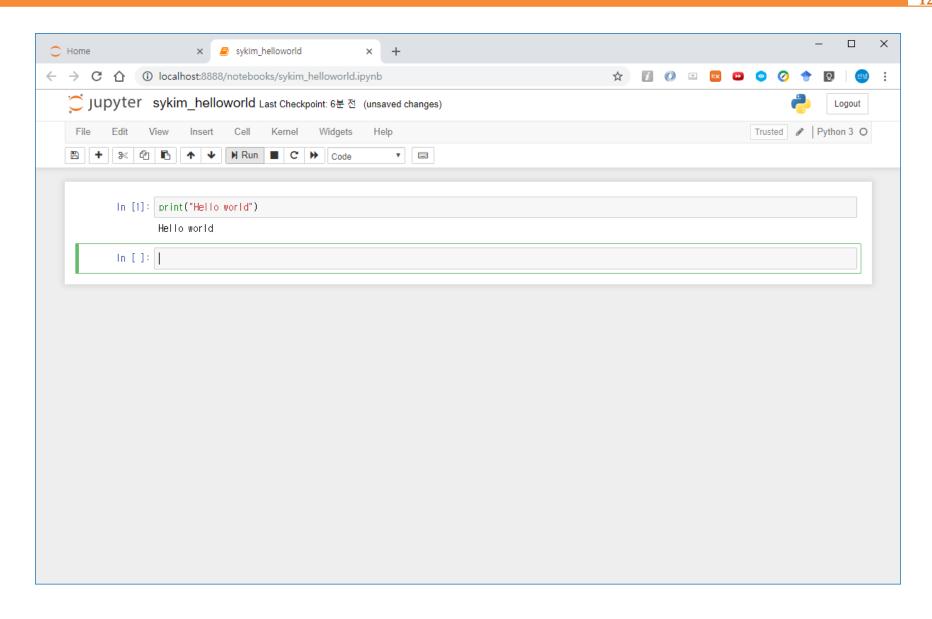
## jupyter 실행

- (base) C:₩Users₩user>jupyter notebook
  - jupyter notebook --notebook-dir=D:/python\_ workspace/ →직접 root설정 경우

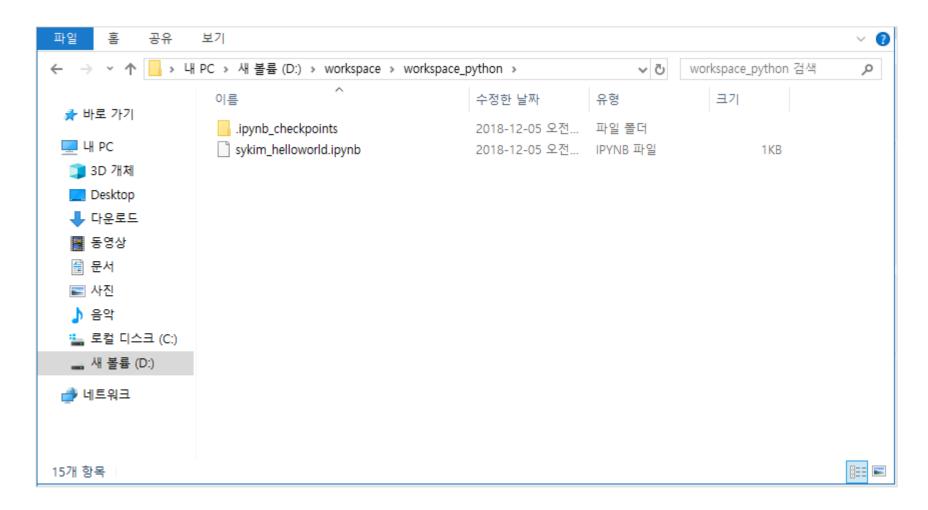


## Python 소스명 변경



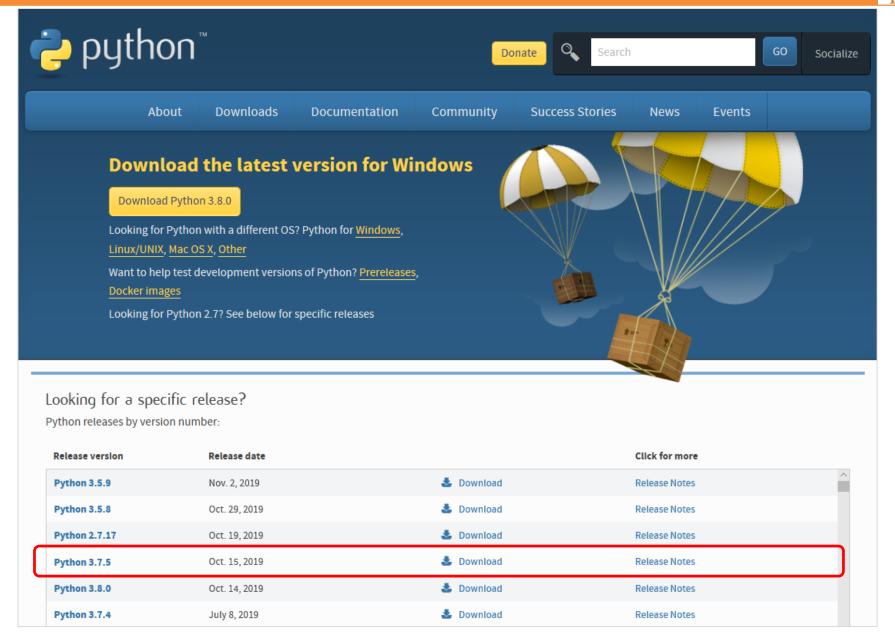


#### 소스경로 확인



참조: 파이썬 설치

## 파이썬(Python) 설치(https://www.python.org/downloads/)



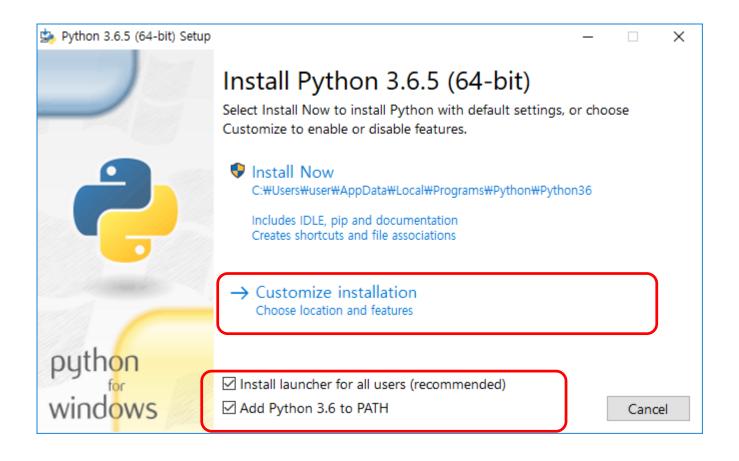
### Windows 64bit 선택

## • 브라우저 스크롤링하여 하단참조

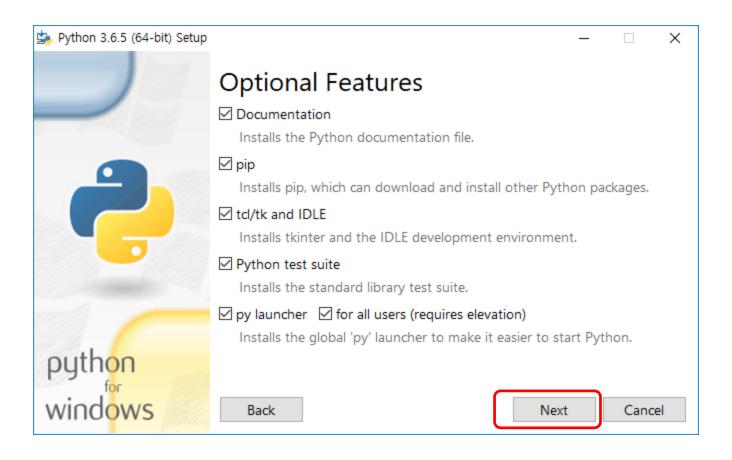
#### = 니구시 \_ \_ \_ = 8 이 어 이 년 6 포 Files

/ersion	Operating System	Description	MD5 Sum	File Size	GPG
Szipped source tarball	Source release		1cd071f78ff6d9c7524c95303a3057aa	23126230	SIG
Z compressed source tarball	Source release		08ed8030b1183107c48f2092e79a87e2	17236432	SIG
nacOS 64-bit/32-bit installer	Mac OS X	{Deprecated) for Mac OS X 10.6 and later	cd503606638c8e6948a591a9229446e4	35020778	SIG
nacOS 64-bit installer	Mac OS X	for macOS 10.9 and later	20d9540e88c6aaba1d2bc1ad5d069359	28198752	SIG
Vindows help file	Windows		608cafa250f8baa11a69bbfcb842c0e0	8141193	SIG
Nindows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64	436b0f803d2a0b393590030b1cd59853	7500597	SIG
Nindows x86-64 executable installer	Windows	for AMD64/EM64T/x64	697f7a884e80ccaa9dff3a77e979b0f8	26777448	SIG
Nindows x86-64 web-based installer	Windows	for AMD64/EM64T/x64	b8b6e5ce8c27c20bfd28f1366ddf8a2f	1363032	SIG
Vindows x86 embeddable zip file	Windows		726877d1a1f5a7dc68f6a4fa48964cd1	6745126	SIG
Vindows x86 executable installer	Windows		cfe9a828af6111d5951b74093d70ee89	25766192	SIG
Windows x86 web-based installer	Windows		ea946f4b76ce63d366d6ed0e32c11370	1324872	SIG

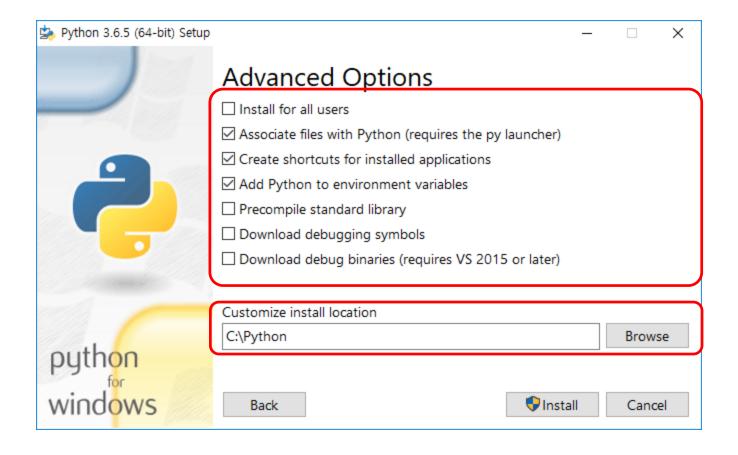
- 반드시 체크 이미지 변경(3.7.5형태로)
  - Install launcher for all users(recommended)
  - Add Pyhthon 3.6 to PATH



파이썬 설치(Python Install)



파이썬 설치(Python Install)



#### **Setup Progress**

