

Fastcampus Data Science SCHOOL

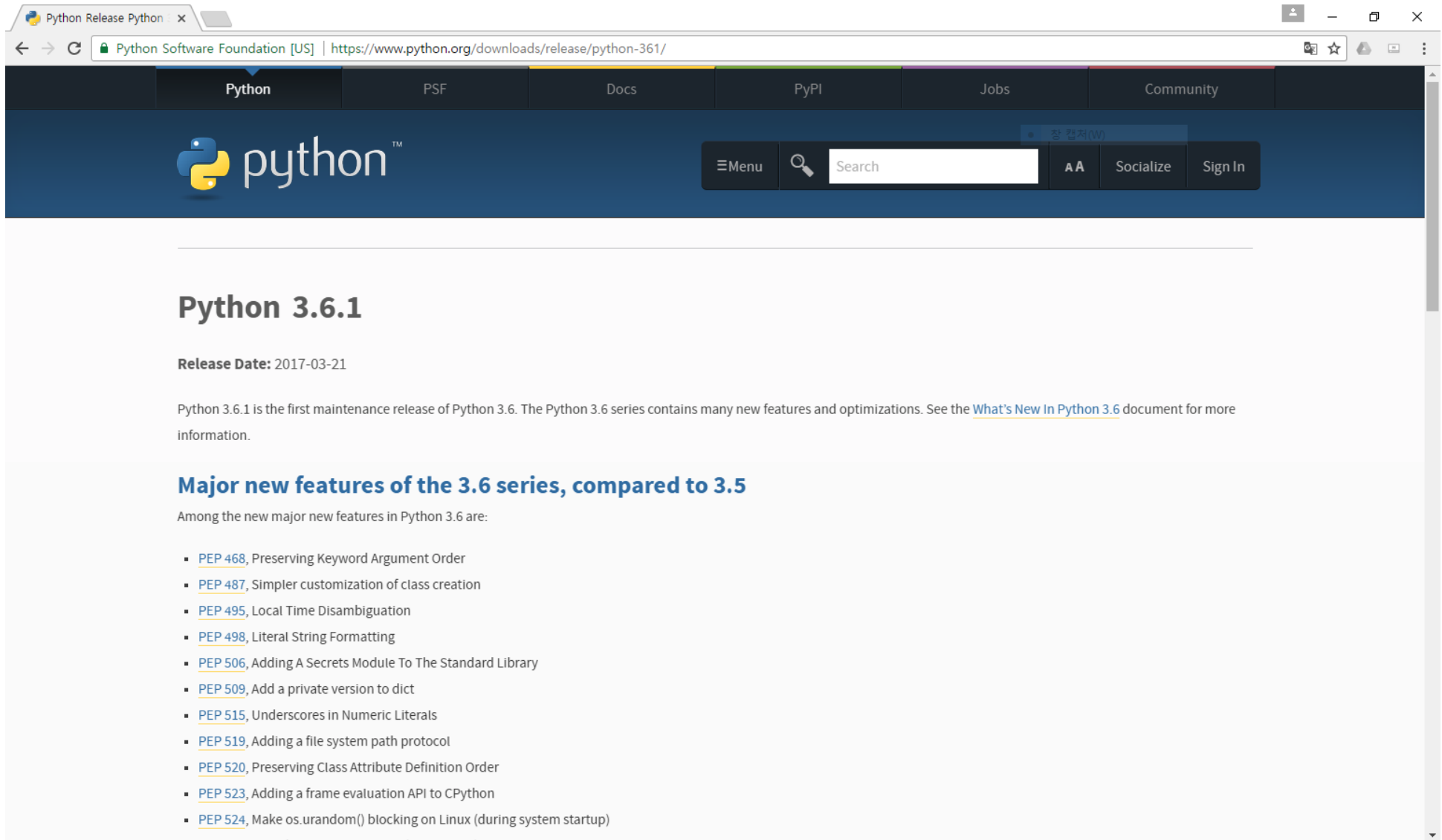
Python Basic

How to Install Python

How to Install Python - Windows

How to Install Python - Windows

python download link



The screenshot shows a web browser window with the URL <https://www.python.org/downloads/release/python-361/>. The page features a dark blue header with the Python logo and navigation links: Python, PSF, Docs, PyPI, Jobs, and Community. A search bar and links for 'Menu', 'Socialize', and 'Sign In' are also present. The main content area is titled 'Python 3.6.1' and includes the release date '2017-03-21'. A paragraph describes it as the first maintenance release of Python 3.6. Below this, a section titled 'Major new features of the 3.6 series, compared to 3.5' lists 15 new features, each preceded by a bullet point and a link to a PEP document.

Python 3.6.1

Release Date: 2017-03-21

Python 3.6.1 is the first maintenance release of Python 3.6. The Python 3.6 series contains many new features and optimizations. See the [What's New In Python 3.6](#) document for more information.

Major new features of the 3.6 series, compared to 3.5

Among the new major new features in Python 3.6 are:

- [PEP 468](#), Preserving Keyword Argument Order
- [PEP 487](#), Simpler customization of class creation
- [PEP 495](#), Local Time Disambiguation
- [PEP 498](#), Literal String Formatting
- [PEP 506](#), Adding A Secrets Module To The Standard Library
- [PEP 509](#), Add a private version to dict
- [PEP 515](#), Underscores in Numeric Literals
- [PEP 519](#), Adding a file system path protocol
- [PEP 520](#), Preserving Class Attribute Definition Order
- [PEP 523](#), Adding a frame evaluation API to CPython
- [PEP 524](#), Make `os.urandom()` blocking on Linux (during system startup)
- [PEP 535](#), Anonymous Generators (provisional)

How to Install Python - Windows

click windows x86-64 executable Installer

The screenshot shows the Python Software Foundation website for Python 3.6.1. The browser address bar shows the URL: <https://www.python.org/downloads/release/python-361/>. The page title is "Files". Below the title is a table with columns: Version, Operating System, Description, MD5 Sum, File Size, and GPG. The table lists various download options for Python 3.6.1. The "Windows x86-64 executable installer" is highlighted. Below the table is a footer with links for About, Downloads, Documentation, Community, Success Stories, and News.

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		2d0fc9f3a5940707590e07f03ecb08b9	22540566	SIG
XZ compressed source tarball	Source release		692b4fc3a2ba0d54d1495d4ead5b0b5c	16872064	SIG
Mac OS X 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	6dd08e7027d2a1b3a2c02cfacbe611ef	27511848	SIG
Windows help file	Windows		69082441d723060fb333dcda8815105e	7986690	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64, not Itanium processors	708496ebbe9a730d19d5d288afd216f1	6926999	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64, not Itanium processors	ad69fdacde90f2ce8286c279b11ca188	31392272	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64, not Itanium processors	a055a1a0e938e74c712a1c495261ae6c	1312520	SIG
Windows x86 embeddable zip file	Windows		8dff09a1b19b7a7dcb915765328484cf	6320763	SIG
Windows x86 executable installer	Windows		3773db079c173bd6d8a631896c72a88f	30453192	SIG
Windows x86 web-based installer	Windows		f58f019335f39e0b45a0ae68027888d7	1287064	SIG

About	Downloads	Documentation	Community	Success Stories	News
Applications	All releases	Docs	Diversity	Arts	Python News
Quotes	Source code	Audio/Visual Talks	Mailing Lists	Business	Community News
Getting Started	Windows	Beginner's Guide	IRC	Education	PSF News
Help	Mac OS X	Developer's Guide	Python Conferences	Engineering	PyCon News
Python Brochure	Other Platforms	FAQ	Special Interest Groups	Government	
	License	Non-English Docs	Python Wiki	Scientific	Events
Contributing	Alternative Implementations	PEP Index	Python Logo	Software Development	Python Events

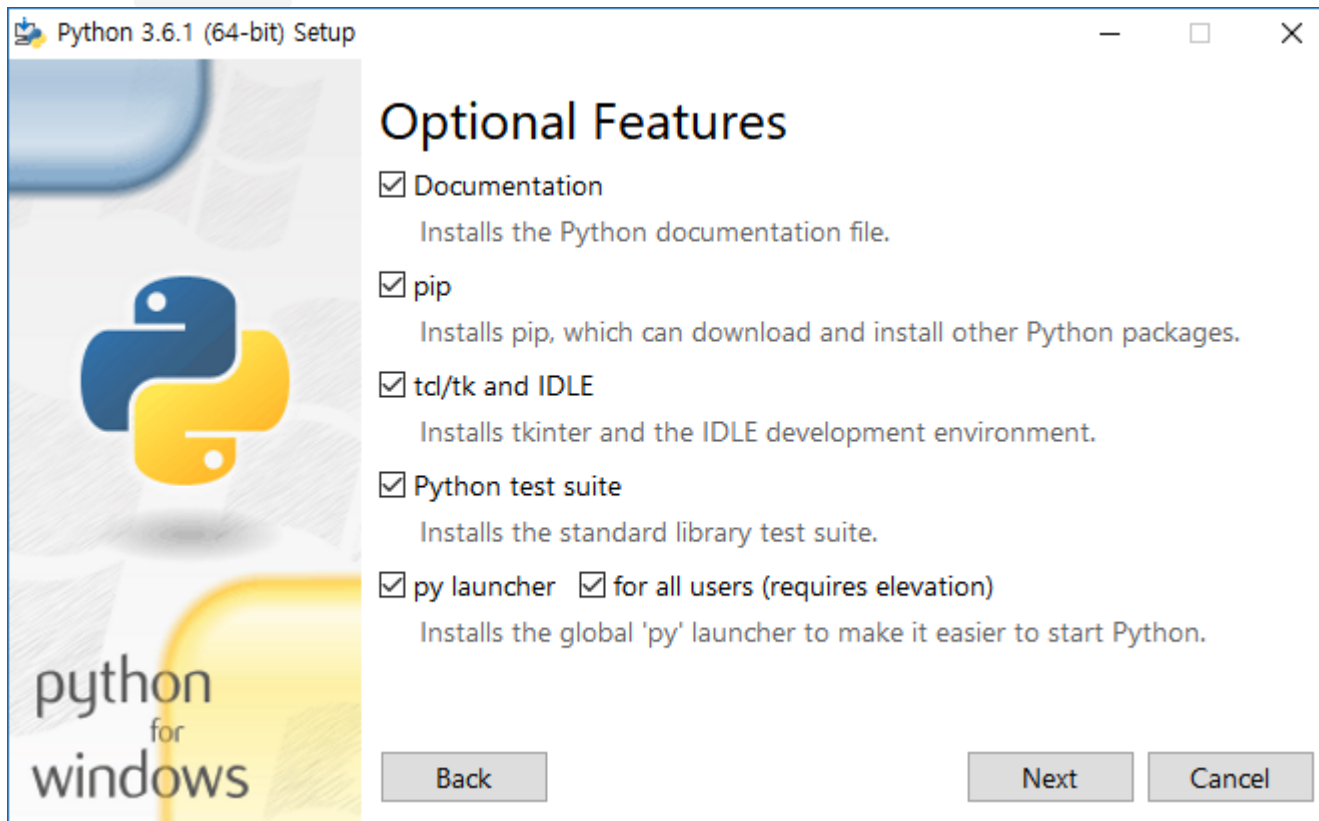
How to Install Python - Windows

enable **Add Python 3.6 to PATH** and click **Customize installation**



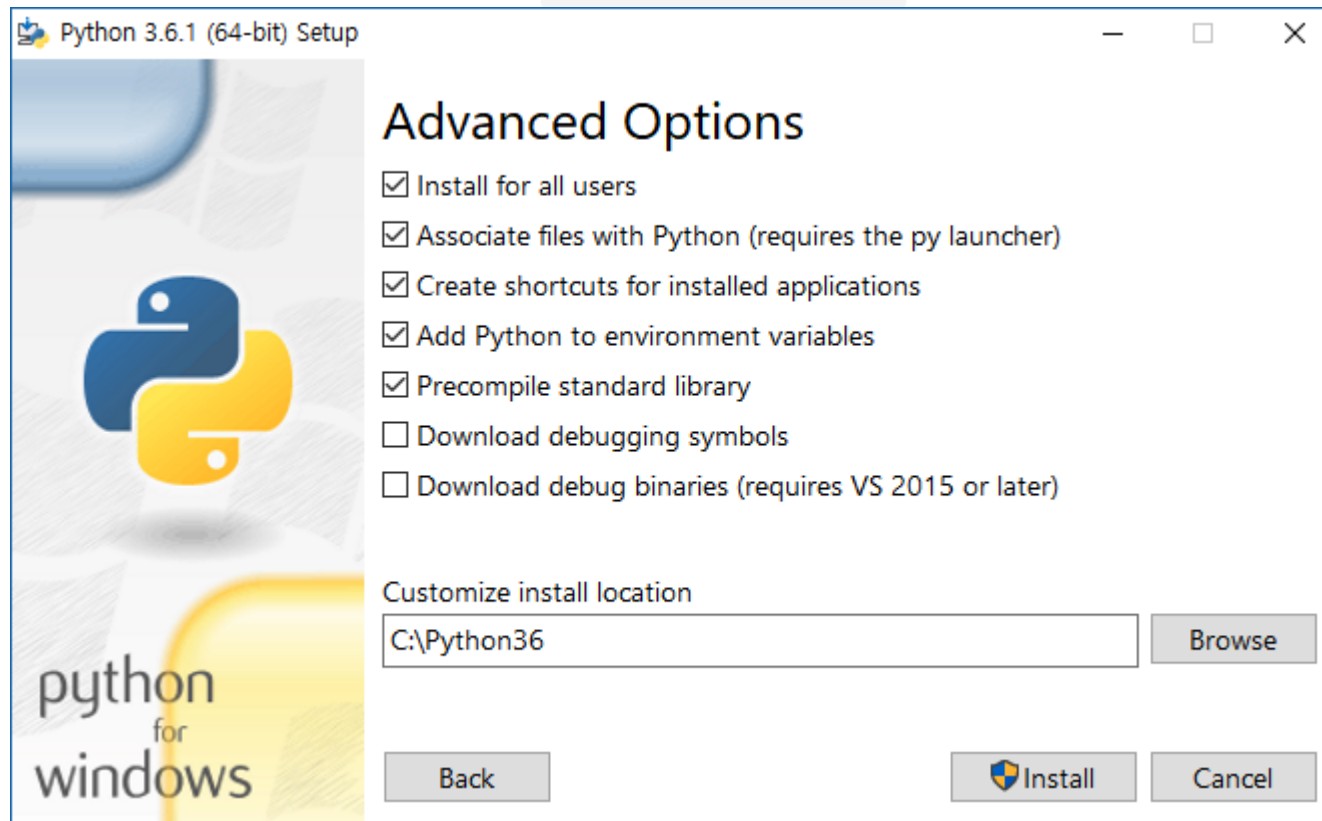
How to Install Python - Windows

click **Next**

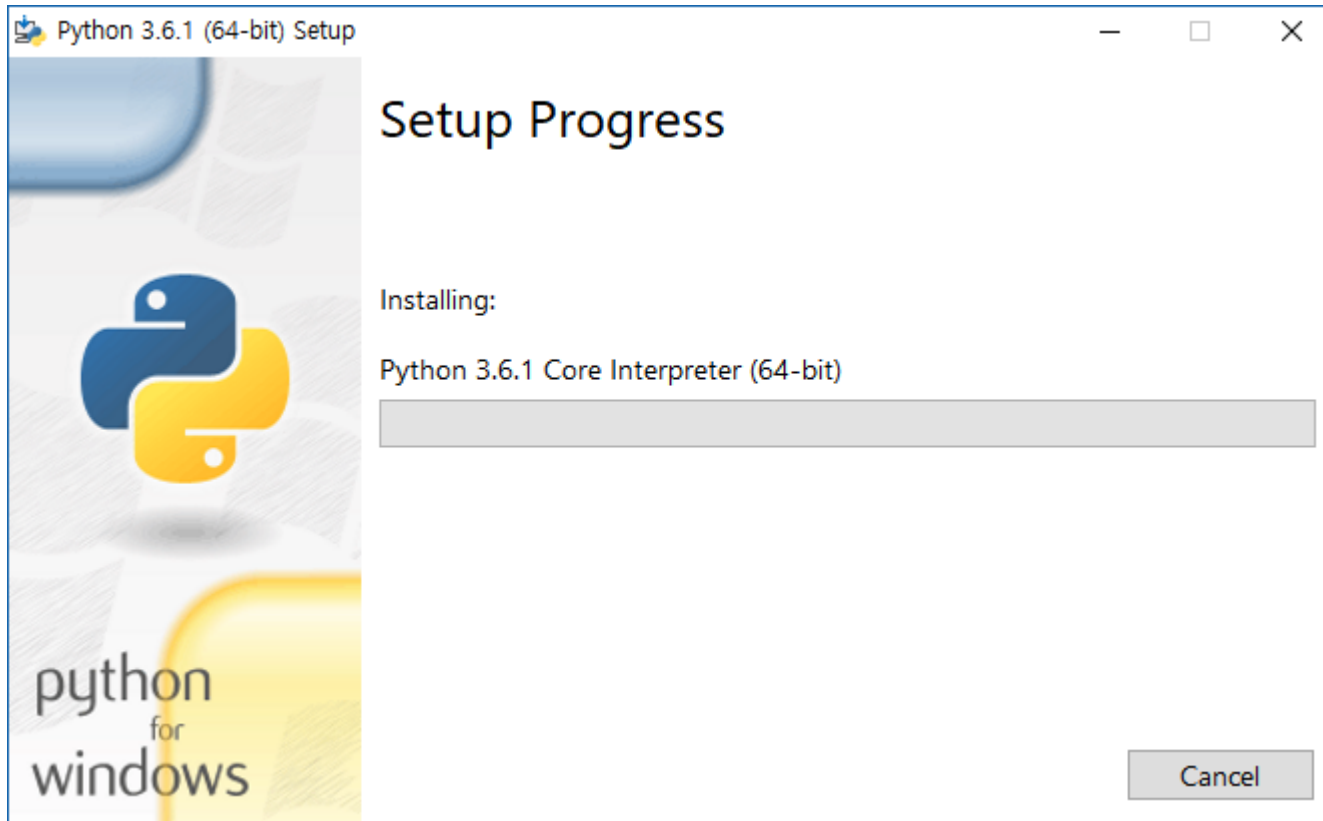


How to Install Python - Windows

Set install location to `C:\Python36`

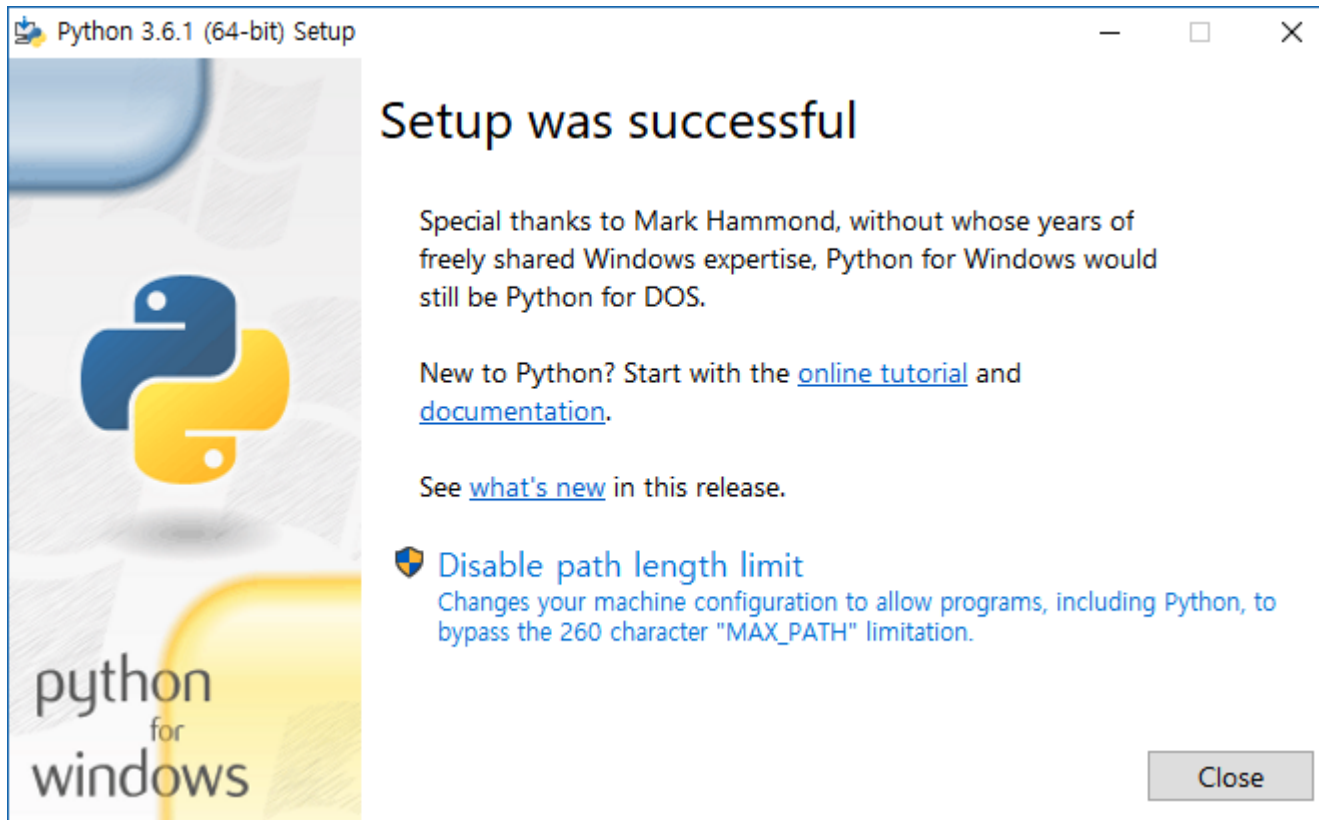


How to Install Python - Windows

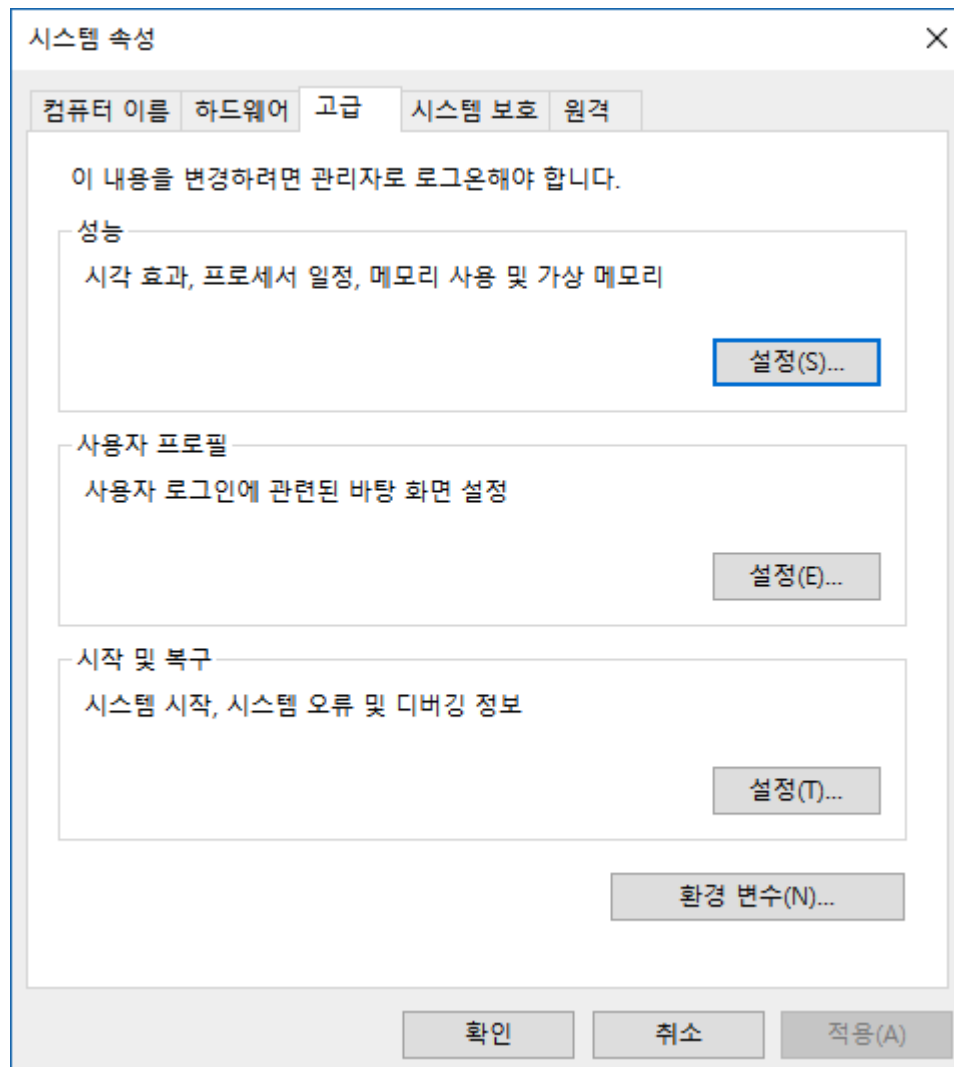


How to Install Python - Windows

Installation Completed

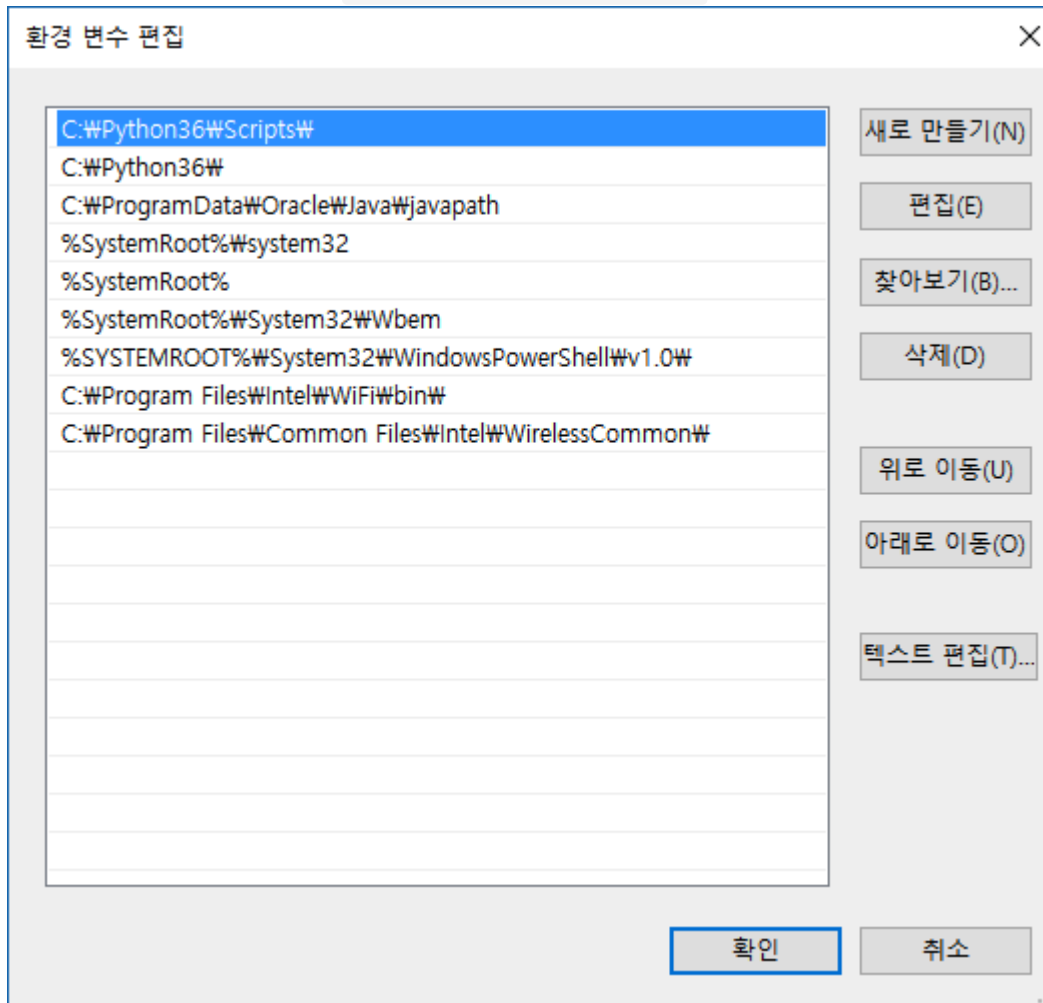


How to Install Python - Windows



How to Install Python - Windows

Check PATH C:\Python36



How to Install Python - Windows

It worked!

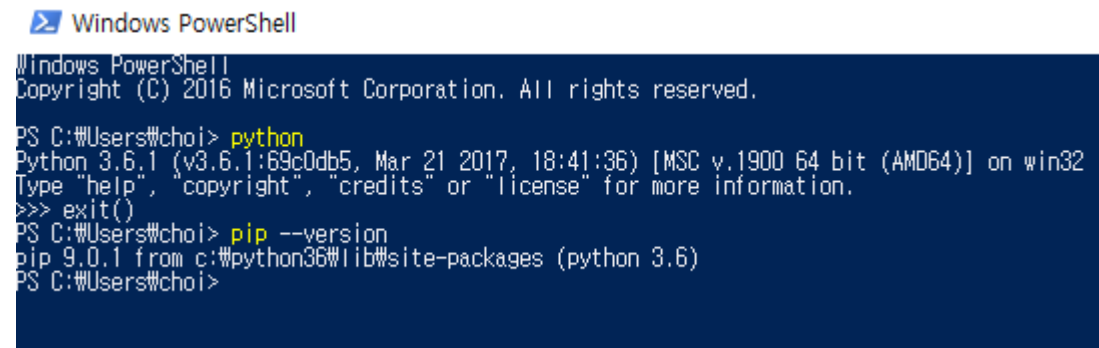
 Windows PowerShell

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\wchoi> python
Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 18:41:36) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

How to Install Python - Windows

check `$ pip --version`



```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\choi> python
Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 18:41:36) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
PS C:\Users\choi> pip --version
pip 9.0.1 from c:\python36\lib\site-packages (python 3.6)
PS C:\Users\choi>
```

How to Install Python - Windows

\$ `pip install jupyter` to install jupyter notebook

Windows PowerShell

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\choi> python
Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 18:41:36) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
PS C:\Users\choi> pip --version
pip 9.0.1 from c:\python36\lib\site-packages (python 3.6)
PS C:\Users\choi> pip install jupyter
Collecting jupyter
  Downloading jupyter-1.0.0-py2.py3-none-any.whl
Collecting notebook (from jupyter)
  Downloading notebook-5.0.0-py2.py3-none-any.whl (6.9MB)
    100% |#####| 6.9MB 33kB/s
Collecting ipywidgets (from jupyter)
  Downloading ipywidgets-6.0.0-py2.py3-none-any.whl (46kB)
    100% |#####| 51kB 122kB/s
Collecting jupyter-console (from jupyter)
  Downloading jupyter_console-5.1.0-py2.py3-none-any.whl
Collecting qtconsole (from jupyter)
```

How to Install Python - Windows

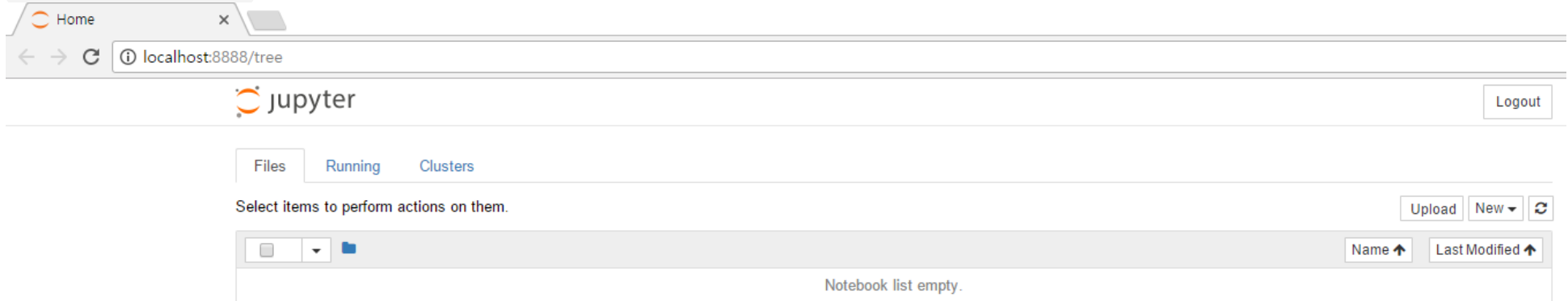
\$ jupyter notebook to run jupyter notebook

```
Windows PowerShell
PS C:\Users\choi\Documents\python> jupyter notebook
[I 18:56:22.871 NotebookApp] Writing notebook server cookie secret to C:\Users\choi\AppData\Roaming\jupyter\runtime\notebook_cookie_secret
[I 18:56:24.113 NotebookApp] Serving notebooks from local directory: C:\Users\choi\Documents\python
[I 18:56:24.113 NotebookApp] 0 active kernels
[I 18:56:24.113 NotebookApp] The Jupyter Notebook is running at: http://localhost:8888/?token=ae21b84bef7e38d3161194b5f0dab2b195efd39ad39c7
[I 18:56:24.114 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation)
[C 18:56:24.124 NotebookApp]

Copy/paste this URL into your browser when you connect for the first time,
to login with a token:
    http://localhost:8888/?token=ae21b84bef7e38d3161194b5f0dab2b195efd39ad39c7
[I 18:56:40.563 NotebookApp] Accepting one-time-token-authenticated connection from ::1
```


How to Install Python - Windows

Complete!



How to Install Python - MacOS, Linux(Ubuntu)

How to Install Python - Linux(Ubuntu)

```
$ sudo apt-get install python3.6.1
```

OR

Python Version Management - MacOS, Linux(Ubuntu)

Pyenv, Virtualenv

Pyenv - MacOS

Homebrew for MacOS

```
/usr/bin/ruby -e "$(curl -fsSL  
https://raw.githubusercontent.com/Homebrew/install/master/install  
)"
```

- Linux의 apt-get 처럼 패키지 관리를 할 수 있도록 도와주는 매니저
- apt-get 대신 brew를 입력하면 동일하게 사용가능

Pyenv - MacOS

```
$ xcode-select --install
```

```
$ brew update
```

```
$ brew install openssl readline xz
```

```
$ brew install pyenv
```

```
$ echo 'eval "$(pyenv init -)"' >> ~/.bashrc
```

```
$ exec $SHELL
```

Pyenv - Linux(Ubuntu)

Ubuntu

```
$ git clone https://github.com/pyenv/pyenv.git ~/.pyenv
```

```
$ apt-get install -y make build-essential libssl-dev zlib1g-dev  
libbz2-dev libreadline-dev libsqlite3-dev wget curl llvm  
libncurses5-dev xz-utils tk-dev
```

```
$ echo 'export PYENV_ROOT="$HOME/.pyenv"' >> ~/.bashrc
```

```
$ echo 'export PATH="$PYENV_ROOT/bin:$PATH"' >> ~/.bashrc
```

```
$ echo 'eval "$(pyenv init -)"' >> ~/.bashrc
```

```
$ exec $SHELL
```


Pyenv Installation check

```
$ pyenv
```

```
$ pyenv
```

```
pyenv 1.0.10
```

```
Usage: pyenv <command> [<args>]
```

Some useful pyenv commands are:

commands	List all available pyenv commands
local	Set or show the local application-specific Python version
global	Set or show the global Python version
shell	Set or show the shell-specific Python version
install	Install a Python version using python-build
uninstall	Uninstall a specific Python version
rehash	Rehash pyenv shims (run this after installing executables)
version	Show the current Python version and its origin
versions	List all Python versions available to pyenv
which	Display the full path to an executable
whence	List all Python versions that contain the given executable

See `pyenv help <command>' for information on a specific command.

For full documentation, see: <https://github.com/pyenv/pyenv#readme>

Virtualenv - MacOS

```
$ brew install pyenv-virtualenv
```

```
$ echo 'eval "$(pyenv virtualenv-init -)"' >> ~/.bashrc
```

```
$ exec $SHELL
```

Virtualenv - Linux

```
$ git clone https://github.com/pyenv/pyenv-virtualenv.git $(pyen
```

```
$ echo 'eval "$(pyenv virtualenv-init -)"' >> ~/.bashrc
```

```
$ exec $SHELL
```

Create New version for specific project

install python with pyenv

```
$ pyenv install --list
```

```
$ pyenv install 3.6.1
```

```
$ pyenv versions
```

```
$ pyenv virtualenv 3.6.1 firstenv
```

```
$ pyenv versions
```

```
$ pyenv activate firstenv
```

Install jupyter - MacOS, Linux

```
$ pip install jupyter
```

```
$ pip list
```

```
$ jupyter notebook
```

If these process doesn't work

- Try <https://c9.io/>
- Try <https://repl.it/>

Enjoy Python!