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Python

# 파이썬 설치

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# Anaconda 설치

## Python 단독설치




- Python이란?
  - 1991년 귀도 반 로섬(Guido Van Rossum, 1956년, 네덜란드, 히도 판 로섬)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 여러 교육 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
- Python coding convention
  - <https://www.python.org/dev/peps/pep-0008/>
- 커뮤니티(Community)
  - 파이콘 코리아(Pycon Korea)
  - <https://www.facebook.com/groups/pythonkorea>



출처 : 위키피디아

- <https://www.anaconda.com/products/individual>

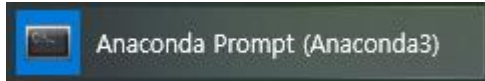
## Anaconda Installers

Windows 	MacOS 	Linux 
<div>Python 3.8</div> <div>64-Bit Graphical Installer (457 MB)</div> <div>32-Bit Graphical Installer (403 MB)</div>	<div>Python 3.8</div> <div>64-Bit Graphical Installer (435 MB)</div> <div>64-Bit Command Line Installer (428 MB)</div>	<div>Python 3.8</div> <div>64-Bit (x86) Installer (529 MB)</div> <div>64-Bit (Power8 and Power9) Installer (279 MB)</div>

ADDITIONAL INSTALLERS

The [archive](#) has older versions of Anaconda Individual Edition installers. The Miniconda installer homepage can be found [here](#).

- 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
- pip3 유틸리티
  - (base) C:\Users\user>pip3 install tensorflow
  - (base) C:\Users\user>pip3 --help
  - (base) C:\Users\user>pip3 list
  - (base) C:\Users\user>pip3 install tensorflow
  - (base) C:\Users\user>pip3 uninstall 패키지명

- <https://code.visualstudio.com/>

The image shows the Visual Studio Code website on the left and a screenshot of the Visual Studio Code application interface on the right.

**Visual Studio Code Website:**

- Header: Visual Studio Code, Docs, Updates, Blog, API, Extensions, FAQ, Learn, Search Docs, Download.
- Message: Version 1.51 is now available! Read about the new features and fixes from October.
- Text: Code editing. Redefined.
- Text: Free. Built on open source. Runs everywhere.
- Buttons: Download for Windows (Stable Build), Other platforms and Insiders Edition.
- Text: By using VS Code, you agree to its license and privacy statement.

**Visual Studio Code Application Interface:**

- File Edit Selection View Go Debug Terminal Help serviceWorker.js - create-react-app - Visual Studio Code - In...
- EXTENSIONS: MARKETPLACE @sort:installs
- Extensions List:
  - Python 2019.6.24221 54.9M ★ 4.5 Microsoft [Install]
  - GitLens — Git sup... 9.8.5 23.1M ★ 5 Eric Amodio [Install]
  - C/C++ 0.24.0 23M ★ 3.5 C/C++ IntelliSense, debugging, and ... Microsoft [Install]
  - ESLint 1.9.0 21.9M ★ 4.5 Integrates ESLint JavaScript into VS ... Dirk Baeumer [Install]
  - Debugger for Ch... 4.11.6 20.6M ★ 4 Debug your JavaScript code in the C... Microsoft [Install]
  - Language Supp... 0.47.0 18.7M ★ 4.5 Java Linting, Intellisense, formatting, ... Red Hat [Install]
  - vscode-icons 8.8.0 17.2M ★ 5 Icons for Visual Studio Code VSCode Icons Team [Install]
  - Vetur 0.21.1 17M ★ 4.5 Vue tooling for VS Code Pine Wu [Install]
  - C# 1.21.0 15.6M ★ 4 C# for Visual Studio Code (powered ... Microsoft [Install]
- JS App.js JS index.js JS serviceWorker.js
- Code Editor:

```
src > JS serviceWorker.js > register > window.addEventListener("load") callback
39
40
41
42 // Add some additional logging to localhost, p
43 // service worker/PWA documentation.
44
45 navigator.serviceWorker.ready.then(() => {
46   product
47   productSub
48   removeSiteSpecificTrackingException
49   removeWebWideTrackingException
50   requestMediaKeySystemAccess
51   sendBeacon
52   serviceWorker (property) Navigator.serviceWorke...
53   storage
54   storeSiteSpecificTrackingException
55   storeWebWideTrackingException
56   userAgent
57   vendor
58
59 function registerValidSW(swUrl, config) {
60   navigator.serviceWorker
61     .register(swUrl)
62     .then(registration => {
```
- TERMINAL 1: node

```
You can now view create-react-app in the browser.
Local:      http://localhost:3000/
On Your Network: http://10.211.55.3:3000/
Note that the development build is not optimized.
```
- Status Bar: master, 0 errors, 0 warnings, 0 info, Ln 43, Col 19, Spaces: 2, UTF-8, LF, JavaScript


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

```
201  ## The MathJax.js 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 notebooks and kernels.
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
```




# Anaconda 설치 Python 단독설치





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Download Python 3.8.0

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Looking for Python 2.7? See below for specific releases



### Looking for a specific release?

Python releases by version number:

Release version	Release date		Click for more
<a href="#">Python 3.5.9</a>	Nov. 2, 2019	 <a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.5.8</a>	Oct. 29, 2019	 <a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 2.7.17</a>	Oct. 19, 2019	 <a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.7.5</a>	Oct. 15, 2019	 <a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.8.0</a>	Oct. 14, 2019	 <a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.7.4</a>	July 8, 2019	 <a href="#">Download</a>	<a href="#">Release Notes</a>

## Files

Version	Operating System	Description	MD5 Sum	File Size	PGP
<a href="#">Gzipped source tarball</a>	Source release		1cd071f78ff6d9c7524c95303a3057aa	23126230	<a href="#">SIG</a>
<a href="#">XZ compressed source tarball</a>	Source release		08ed8030b1183107c48f2092e79a87e2	17236432	<a href="#">SIG</a>
<a href="#">macOS 64-bit/32-bit installer</a>	Mac OS X	{Deprecated} for Mac OS X 10.6 and later	cd503606638c8e6948a591a9229446e4	35020778	<a href="#">SIG</a>
<a href="#">macOS 64-bit installer</a>	Mac OS X	for macOS 10.9 and later	20d9540e88c6aaba1d2bc1ad5d069359	28198752	<a href="#">SIG</a>
<a href="#">Windows help file</a>	Windows		608cafa250f8baa11a69bbfcb842c0e0	8141193	<a href="#">SIG</a>
<a href="#">Windows x86-64 embeddable zip file</a>	Windows	for AMD64/EM64T/x64	436b0f803d2a0b393590030b1cd59853	7500597	<a href="#">SIG</a>
<a href="#">Windows x86-64 executable installer</a>	Windows	for AMD64/EM64T/x64	697f7a884e80ccaa9dff3a77e979b0f8	26777448	<a href="#">SIG</a>
<a href="#">Windows x86-64 web-based installer</a>	Windows	for AMD64/EM64T/x64	b8b6e5ce8c27c20bfd28f1366ddf8a2f	1363032	<a href="#">SIG</a>
<a href="#">Windows x86 embeddable zip file</a>	Windows		726877d1a1f5a7dc68f6a4fa48964cd1	6745126	<a href="#">SIG</a>
<a href="#">Windows x86 executable installer</a>	Windows		cfe9a828af6111d5951b74093d70ee89	25766192	<a href="#">SIG</a>
<a href="#">Windows x86 web-based installer</a>	Windows		ea946f4b76ce63d366d6ed0e32c11370	1324872	<a href="#">SIG</a>

