

Software Installation Tutorials

PYTHON INSTALLATION ERIC Y. CHOU, PHD.

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Python

https://www.python.org/



- Python is an dynamic object-oriented programming language that can be compared with Java and .NET languages as a general-purpose substrate for software development. It offers strong support for integrating with other technologies, higher programmer productivity throughout the development life cycle, and is well suited for complex projects.
- Python is the most rapidly growing open source programming language.
 According to InfoWorld its user base nearly doubled in 2004, and currently includes about 14% of all programmers.
- Python is being used in mission critical applications in the world's largest stock exchange, forms the basis for high end newspaper websites, runs on millions of cell phones, and is used in industries as diverse as ship building, feature length movie animation, and air traffic control.
- Python is available for most operating systems, including Windows, UNIX, Linux, and Mac OS.



Python Installation

Go Python!!!

- 1. Python Interpreter
- 2. PyDev
- 3. plugins, add-on's, and site-packages

Python Editing with PyDev on Eclipse

INSTALL NEW SOFTWARE/PLUGINS/PATH



Setup Idle Environment

- 1. Idle.py
- 2. Use notepad++ with python interpreter



PyDev Configuration

- 1. Create a new workspace if you want to share a same Eclipse with Java but different workspace. (Cross-language project can still have another workspace)
- 2. set the text file property (UTF-8, Unix)
- 3. Make sure the PyDev plugin has been installed.
- 4. set perspective.
- 5. set interpreter path.
- 6. try first python program

Basic Graphics

HTTP://MCSP.WARTBURG.EDU/ZELLE/PYTHON/GRAPHICS.PY

NumPy/SciPy

HTTP://WWW.NUMPY.ORG/



matplotlib

HTTP://MATPLOTLIB.ORG/



OpenCV

HTTP://OPENCV.ORG/



PyOpenGL

HTTPS://WWW.OPENGL.ORG/



PyQt5

WWW.RIVERBANKCOMPUTING.COM



py2exe

HTTP://WWW.PY2EXE.ORG/



SIP/six/datautil/pyparsing

Scikit (Scientific Kits

HTTPS://WWW.SCIPY.ORG/SCIKITS.HTML



Jupyter and IPython

HTTP://JUPYTER.ORG