



MANUAL INSTALLATION

INSTALLATION ANACONDA

Anaconda is a free and open-source distribution of the Python and R programming languages for scientific computing, that aims to simplify package management and deployment. Package versions are managed by the package management system conda.

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Anaconda 5.2 For macOS Installer

Python 3.6 version *

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Python 2.7 version *

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[How to get Python 3.5 or other Python versions](#)
[How to install ANAconda](#)

Get Started

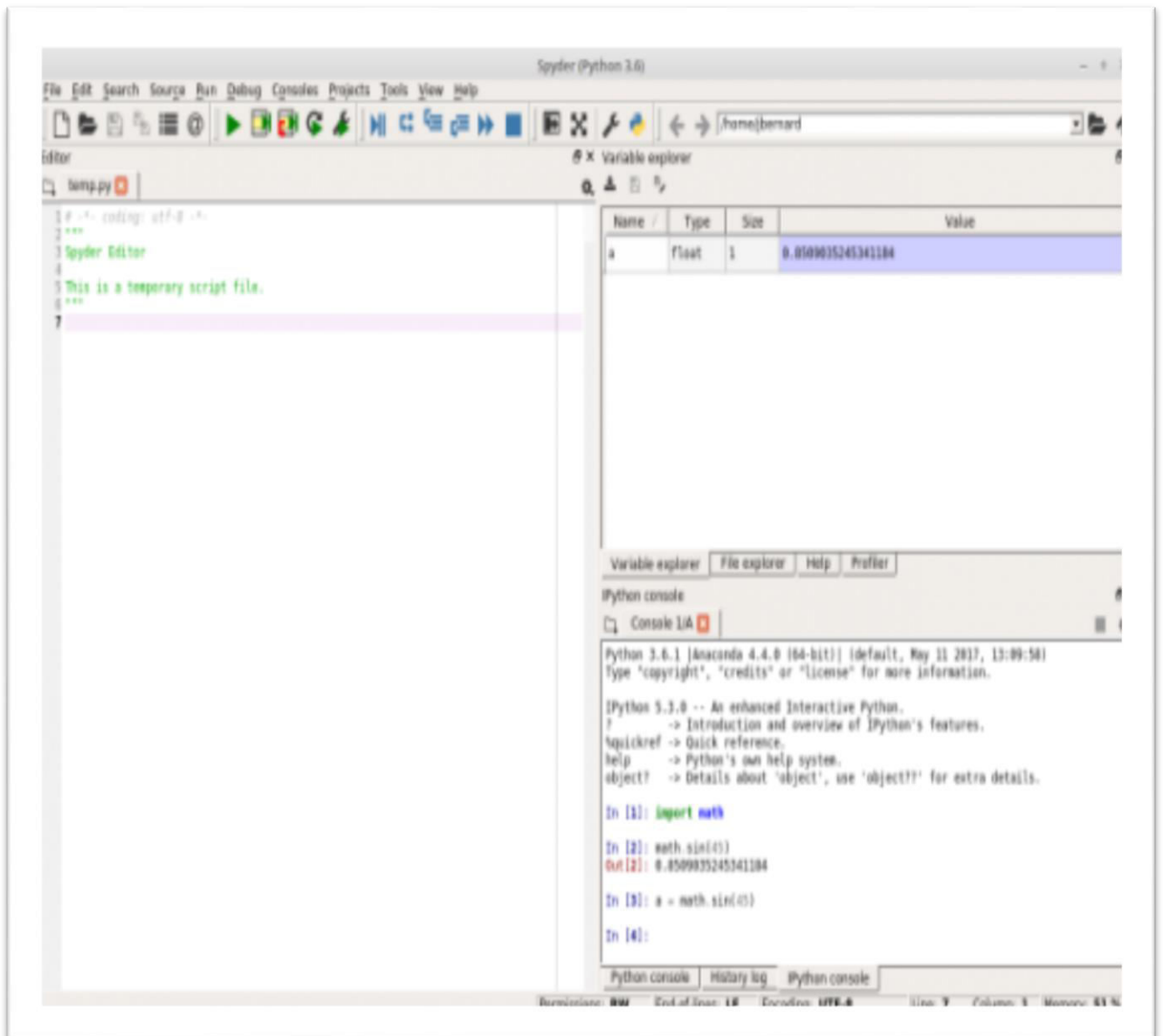
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 <p>JupyterLab 0.27.0</p> <p>An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.</p> <p>Launch</p>	 <p>Jupyter notebook 5.0.0</p> <p>Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.</p> <p>Launch</p>	 <p>QtConsole 4.3.1</p> <p>Python GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.</p> <p>Launch</p>	 <p>Spyder 3.2.3</p> <p>Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features.</p> <p>Launch</p>
 <p>glueviz 0.10.4</p> <p>Multidimensional data visualization across files. Explore relationships within and among related datasets.</p> <p>Install</p>	 <p>Orange3 3.4.1</p> <p>Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.</p> <p>Install</p>	 <p>RStudio 1.0.153</p> <p>A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.</p> <p>Install</p>	

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Administrator: Command Prompt

Microsoft Windows [Version 10.0.18362.657]

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C:\WINDOWS\system32>cd C:\Program Files\Python38\Scripts

C:\Program Files\Python38\Scripts>python

Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 23:11:46) [MSC v.1916 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>> ^Z

C:\Program Files\Python38\Scripts>pip install nltk

Collecting nltk

Using cached https://files.pythonhosted.org/packages/f6/1d/d925cfb4f324ede997f6d47bea4d9babba51b49e87a767c170b77005889d/nltk-3.4.5.zip

Collecting six (from nltk)

Using cached https://files.pythonhosted.org/packages/65/eb/1f97cb97bfc2390a276969c6fae16075da282f5058082d4cb10c6c5c1d0a/six-1.14.0-py2.py3-none-any.whl

Installing collected packages: six, nltk

Running setup.py install for nltk ... done

Successfully installed nltk-3.4.5 six-1.14.0

WARNING: You are using pip version 19.2.3, however version 20.0.2 is available.

You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Program Files\Python38\Scripts>pip install numpy

Collecting numpy

Downloading https://files.pythonhosted.org/packages/95/47/ea0ae5a778aae07ede486f3dc7cd4b788dc53e11b01a17251b020f76a01d/numpy-1.18.1-cp38-cp38-win_amd64.whl (12.8MB)

12.8MB 2.2MB/s

Installing collected packages: numpy

Successfully installed numpy-1.18.1

WARNING: You are using pip version 19.2.3, however version 20.0.2 is available.

You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Program Files\Python38\Scripts>pip install random2

Collecting random2

Using cached https://files.pythonhosted.org/packages/ee/b5/5aca5217501fb06b1e5aed6d5986baa0da5300880e6bb6f421ed18e3a32/random2-1.0.1.zip

Installing collected packages: random2

Running setup.py install for random2 ... done

Successfully installed random2-1.0.1

WARNING: You are using pip version 19.2.3, however version 20.0.2 is available.

You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Program Files\Python38\Scripts>pip install strings

Collecting strings

Using cached https://files.pythonhosted.org/packages/bf/25/472d34792ee3816edcab999b5c00ce5e460ebd928ab5eff77f2a6738e37a/strings-0.1.2.tar.gz

ERROR: Command errored out with exit status 1:

```
command: 'c:\program files\python38\python.exe' -c 'import sys, setuptools, tokenize; sys.argv[0] = '"'"'C:\\Users\\WARI RIDHAWA\\AppData\\Local\\Temp\\pip-install-3dx85juv\\strings\\setup.py'"'"'; __file__ = '"'"'C:\\Users\\WARI RIDHAWA\\AppData\\Local\\Temp\\pip-install-3dx85juv\\strings\\setup.py'"'"';f=getattr(tokenize, '"'"'open'"'"', open)(__file__);code=f.read().replace('"'"'\n'"'"', '"'"'\n'"'"');f.close();exec(compile(code, __file__, '"'"'exec'"'"'))' egg_info --egg-base pip-egg-info
```

cwd: C:\Users\WARI RIDHAWA\AppData\Local\Temp\pip-install-3dx85juv\strings\

Complete output (5 lines):

Traceback (most recent call last):

Type here to search

Tom Hung...@...

Activate Windows
Go to Settings to activate Windows

Python libraries:

1.import os

- import os -**os** — **Miscellaneous operating system Interfaces**
- `sys.platform` has a finer granularity. `os.uname()` gives system-dependent version information..

<https://docs.python.org/3/library/os.html>

2.import re

- **re** — Regular expression operations
- This module provides regular expression matching operations similar to those found in Perl.

```
>>> import re
>>> m = re.search('(?<=abc)def', 'abcdef')
>>> m.group(0)
'def'
```

<https://docs.python.org/3.4/library/re.html>

3.import sys

- `sys` — System-specific parameters and functions
- **This module provides access to some variables used or maintained by the interpreter and to functions that interact strongly with the interpreter. It is always available.**

<https://docs.python.org/3/library/sys.html>

4.import thread

- `threading` — Thread-based parallelism
- This module constructs higher-level threading interfaces on top of the lower level `_thread` module. See also the `queue` module.

<https://docs.python.org/3/library/threading.html>

5.import subprocess

- **subprocess** — Subprocess management
- The **subprocess** module allows you to spawn new processes, connect to their input/output/error pipes, and obtain their return codes. This module intends to replace several older modules and functions.

<https://docs.python.org/3/library/subprocess.html>

6.import cPickle

- **pickle** — Python object serialization

- This documentation describes both the **pickle** module and the **cPickle** module.
- The **pickle** module is not secure against erroneous or maliciously constructed data. Never unpickle data received from an untrusted or unauthenticated source.

<https://docs.python.org/2/library/pickle.html>

7.import boto3

- To install Boto3 on your computer, go to your terminal and run the code.

```
➤ $ pip install boto3
```

<https://realpython.com/python-boto3-aws-s3/>

8.import boto3.client

Client Versus Resource

- At its core, all that Boto3 does is call AWS APIs on your behalf. For the majority of the AWS services, Boto3 offers two distinct ways of accessing these abstracted APIs.
- **Client:** low-level service access
- **Resource:** higher-level object-oriented service access


```
➤ import boto3  
➤ s3_client = boto3.client('s3')
```

➤ To connect to the high-level interface, you'll follow a similar approach, but use `resource()`

```
➤ import boto3  
➤ s3_resource = boto3.resource('s3')
```

<https://realpython.com/python-boto3-aws-s3/>