Python102

Python for Data Science Bootcamp

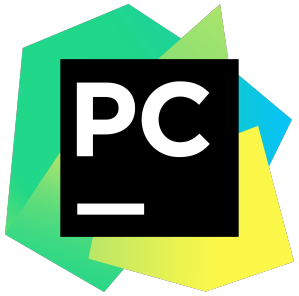
(1.2) Python Environment Set-up for macOS

(Specific versions of Python)

AIAT Academy

Environment Set-up

- Latest version of Python (3.7.x) will be used for this course.
- You are free to use any development environment you prefer
  - Python IDE (PyCharm, Sublime Text, etc.)
  - Local Environment for Python Programming (Jupyter Notebook)
  - Cloud Environment for Python Programming (Google Colab)





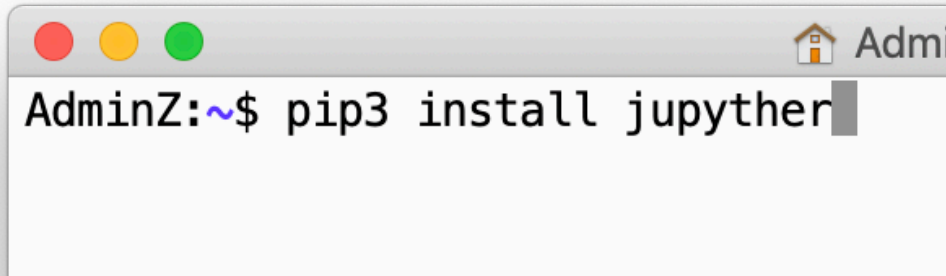
Experience users who already have Python

- To install Jupyter, existing Python user may use **pip** (Python's Package Manager) to install Jupyter
- Just to your command prompt or terminal and use:

pip3 install jupyter

or

pip install jupyter



Recommended: New Users

- For new users, we highly recommend installing Anaconda.

  Anaconda conveniently installs Python, the Jupyter Notebook, and other commonly used packages for scientific computing and data science.

- Let's go to www.jupyther.org

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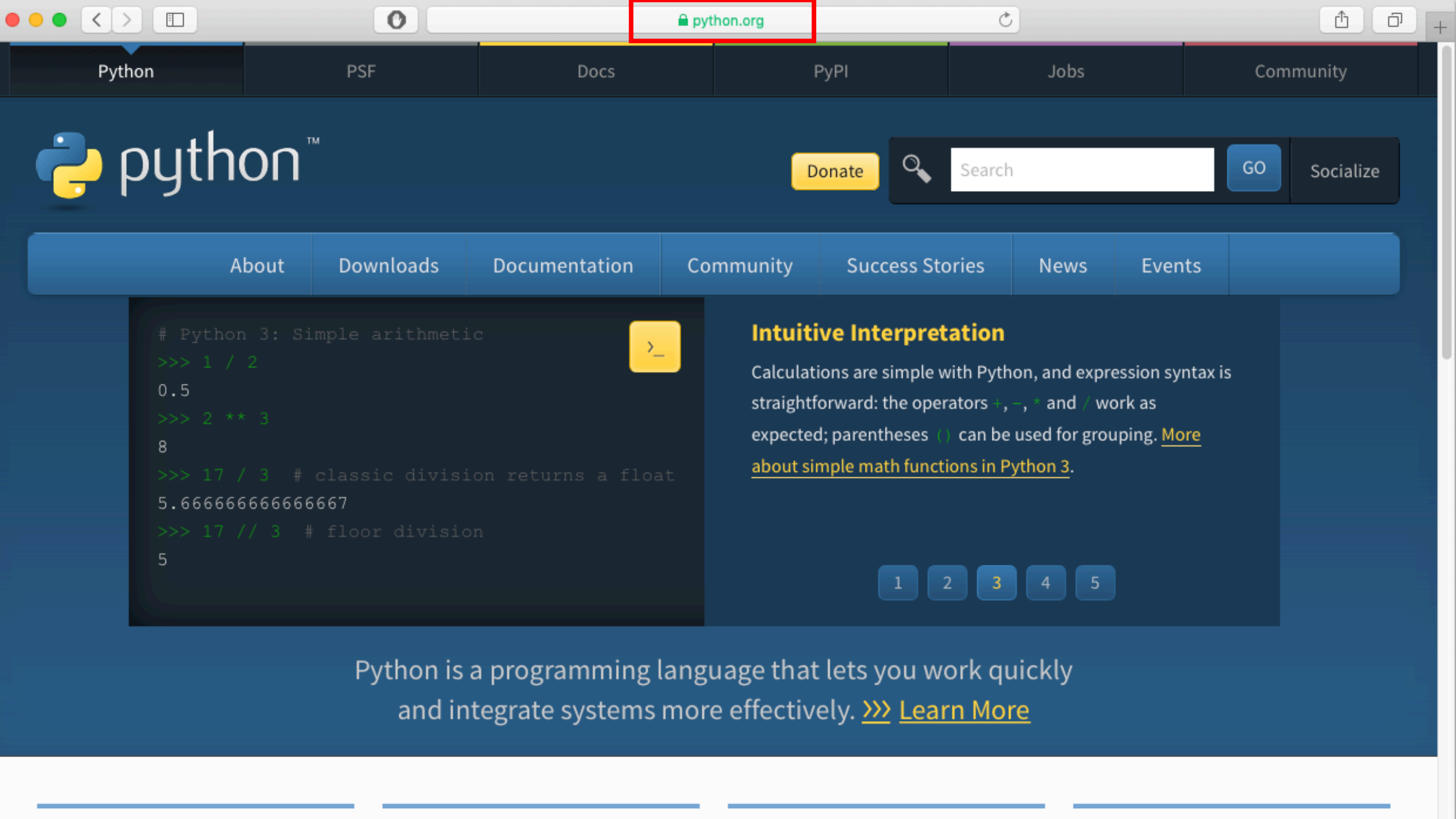
Python Installation
(for specific version)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# Python 3: Simple arithmetic
>>> 1 / 2
0.5
>>> 2 ** 3
8
>>> 17 / 3 # classic division returns a float
5.666666666666667
>>> 17 // 3 # floor division
5
Intuitive Interpretation
Calculations are simple with Python, and expression syntax is straightforward: the operators +, -, * and / work as expected; parentheses ( ) can be used for grouping. More about simple math functions in Python 3.
1
2
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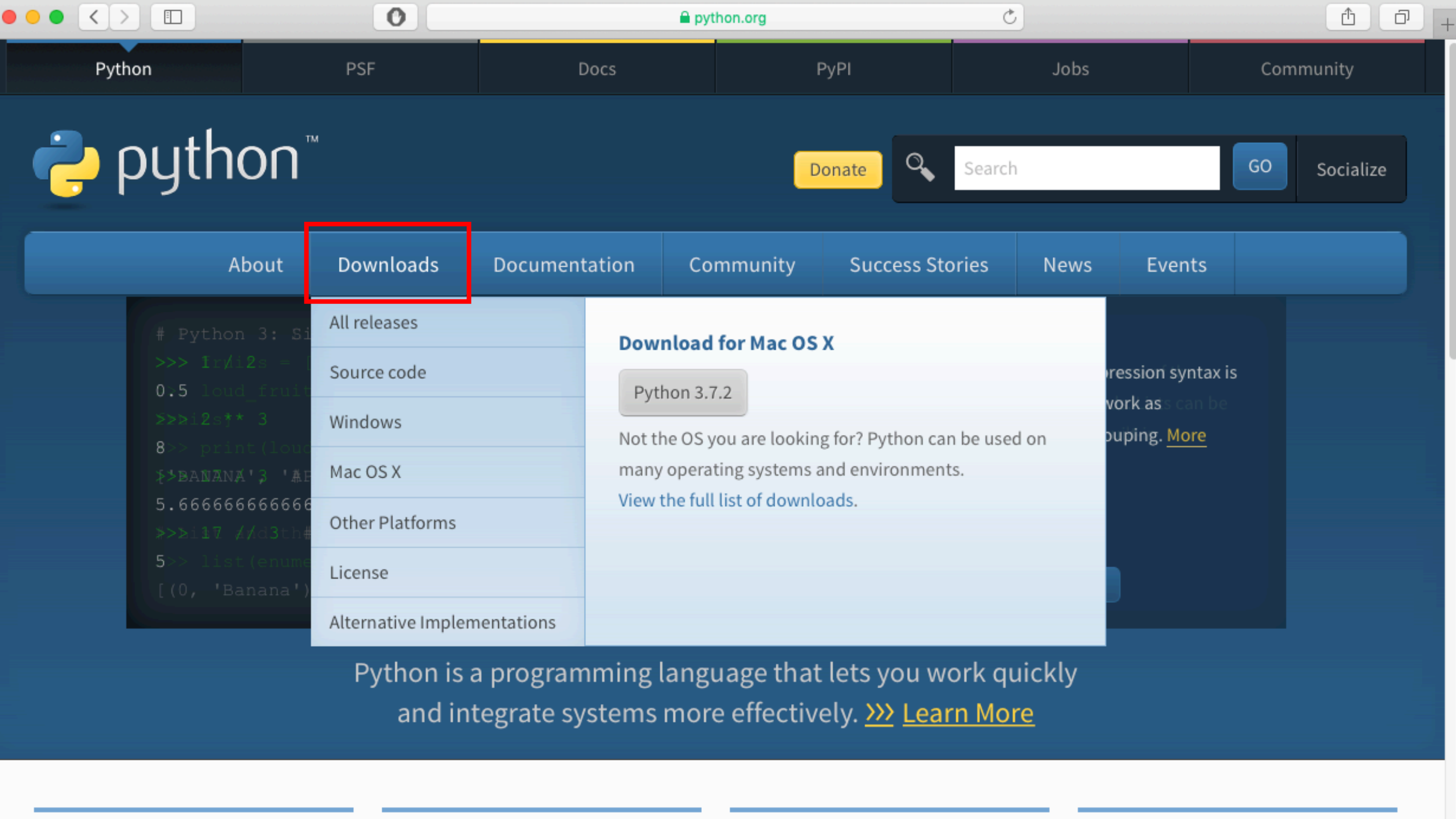
5
Python is a programming language that lets you work quickly and integrate systems more effectively. >>> Learn More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View the full list of downloads.
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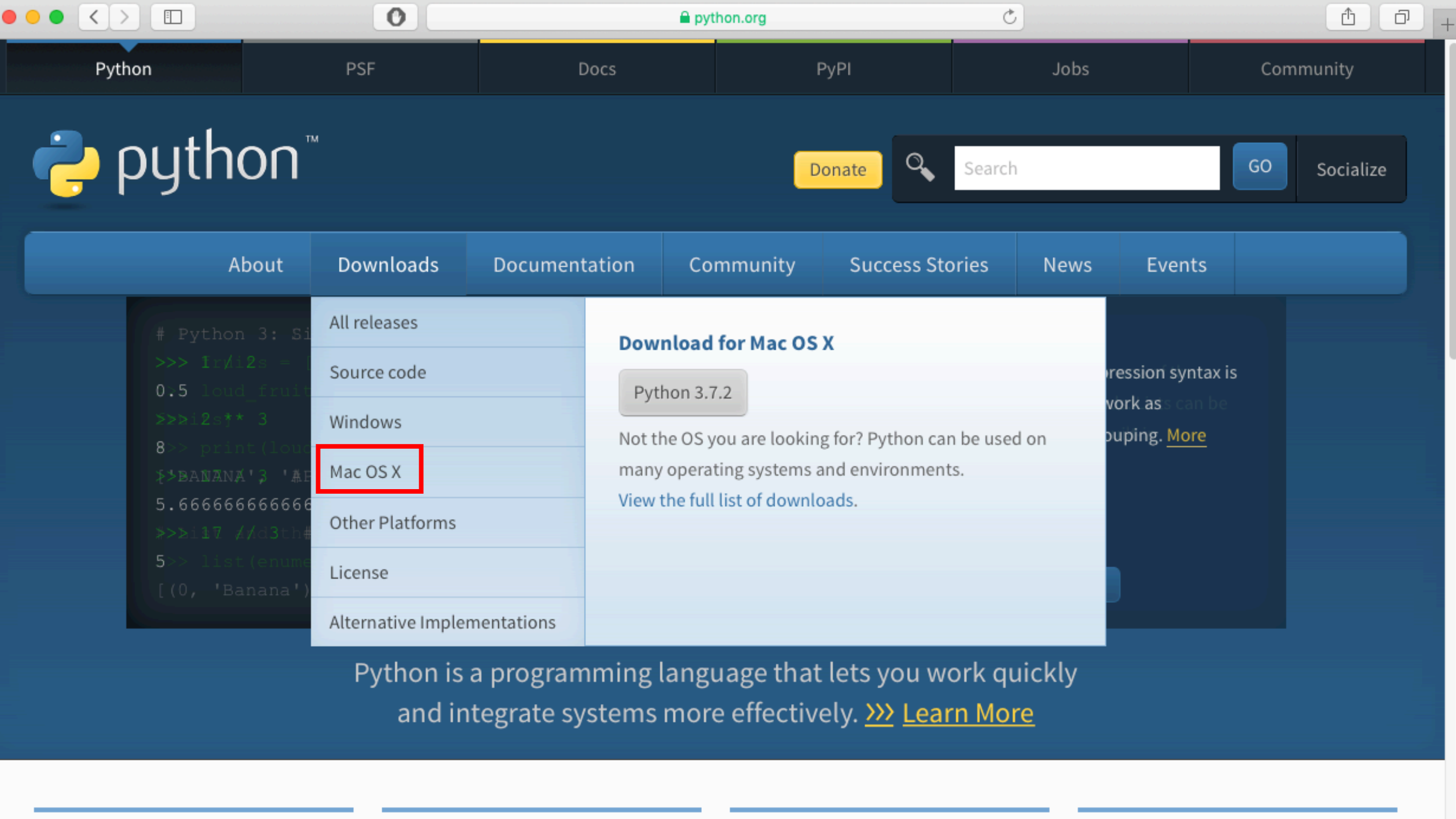
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Python Releases for Mac OS X

- Latest Python 3 Release - Python 3.7.2
- Latest Python 2 Release - Python 2.7.15
- Python 3.7.2 - 2018-12-24
  - Download macOS 64-bit installer
  - Download macOS 64-bit/32-bit installer
- Python 3.6.8 - 2018-12-24
  - Download macOS 64-bit installer
  - Download macOS 64-bit/32-bit installer
- Python 3.7.2rc1 - 2018-12-11

macOS 64 bit

macOS 32/64 bit

Install Python

Welcome to the Python Installer

- **Introduction**
- Read Me
- License
- Destination Select
- Installation Type
- Installation
- Summary

This package will install **Python 3.7.2** for **macOS 10.9 or later**.

Python for macOS consists of the Python programming language interpreter, plus a set of programs to allow easy access to it for macOS users including an integrated development environment **IDLE**.

At the end of this install, click on `Install Certificates` for SSL root certificates

NEW in 3.7.0: two installer variants (10.9+ 64-bit-only, 10.6+ 64-/32-bit), built-in Tcl/Tk 8.6 support (no additional third-party downloads!), OpenSSL 1.1.0, and more!

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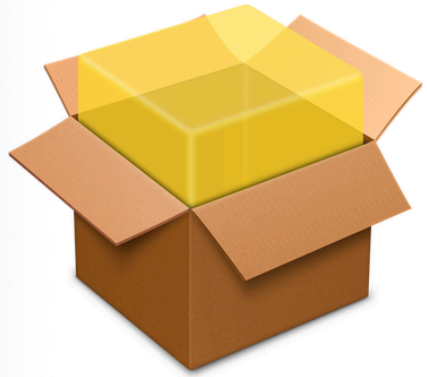

python-3.7.2-macosx10.9.pkg

Installer package - 27.8 MB

Install Python

Important Information

- Introduction
- **Read Me**
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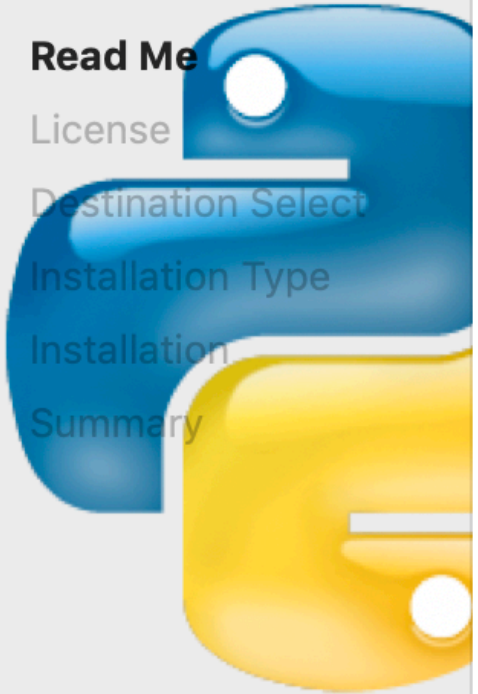
- Installation
- Summary



This package will install Python 3.7.2 for macOS 10.9 or later for the following architecture(s): x86_64.

Which installer variant should I use?

For Python.3.7, python.org currently provides two installer variants for download: one that installs a *64-bit-only* Python capable of running on *macOS 10.9 (Mavericks)* or later; and one that installs a *64-bit/32-bit Intel* Python capable of running on *macOS 10.6 (Snow Leopard)* or later. (This ReadMe was installed with the *10.9 or later* variant.) If you are running on macOS 10.9 or later and if you have no need for compatibility with older systems, use the 10.9 variant. Use the 10.6 variant if you are running on macOS 10.6 through 10.8 or if you want to produce standalone applications that can run on systems from 10.6. The Pythons installed by these installers are built with private copies of some third-party libraries not included with or newer than those in macOS itself. The list of these libraries varies by installer variant and is included at the end of the License.rtf file.

Certificate verification and OpenSSL

This variant of Python 3.7 includes its own private copy of OpenSSL 1.1.0. The deprecated Apple-supplied OpenSSL libraries are no

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Install Python

Software License Agreement

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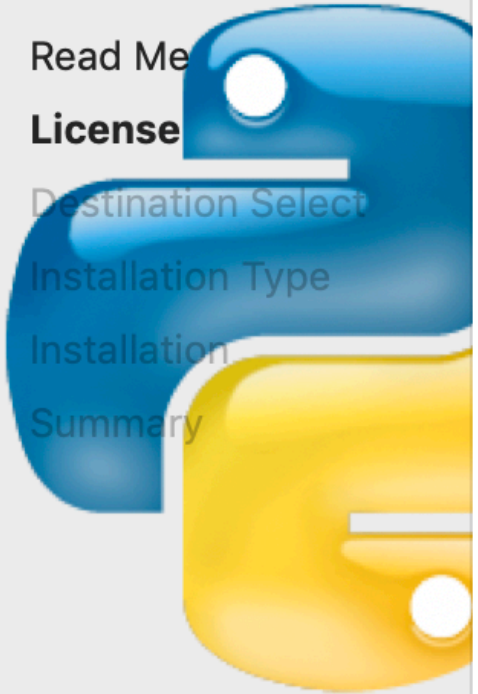

HISTORY AND LICENSE

HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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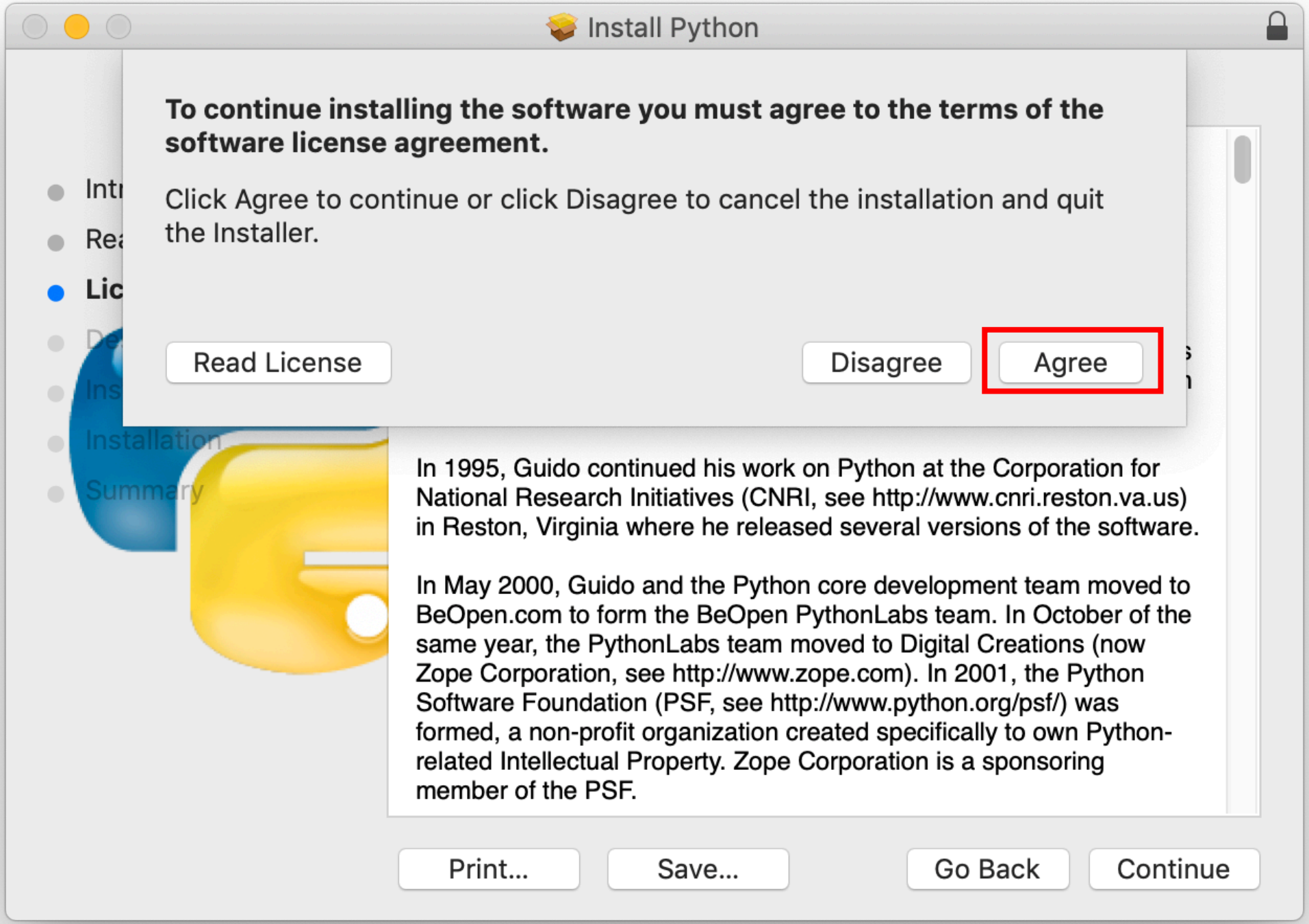

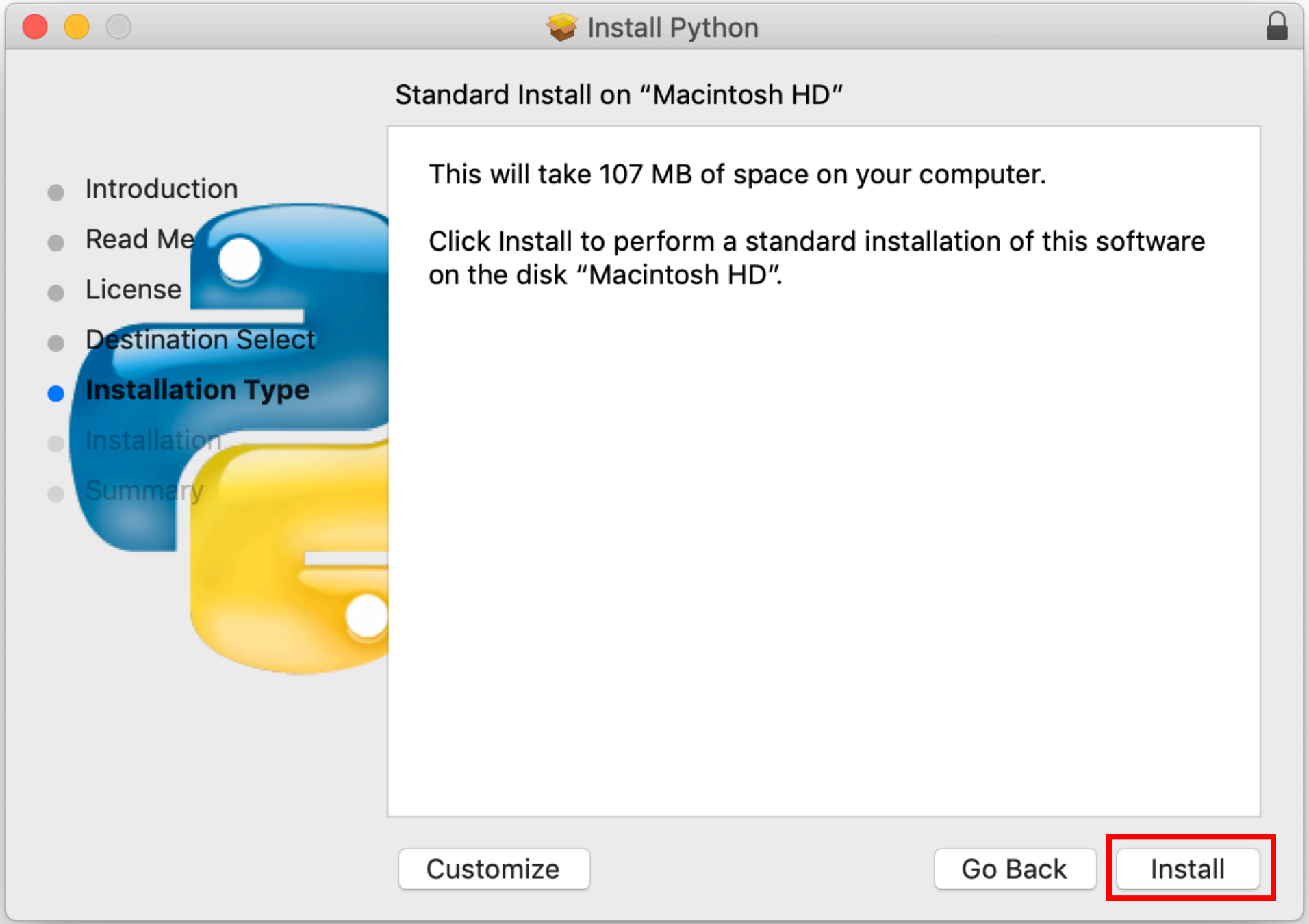

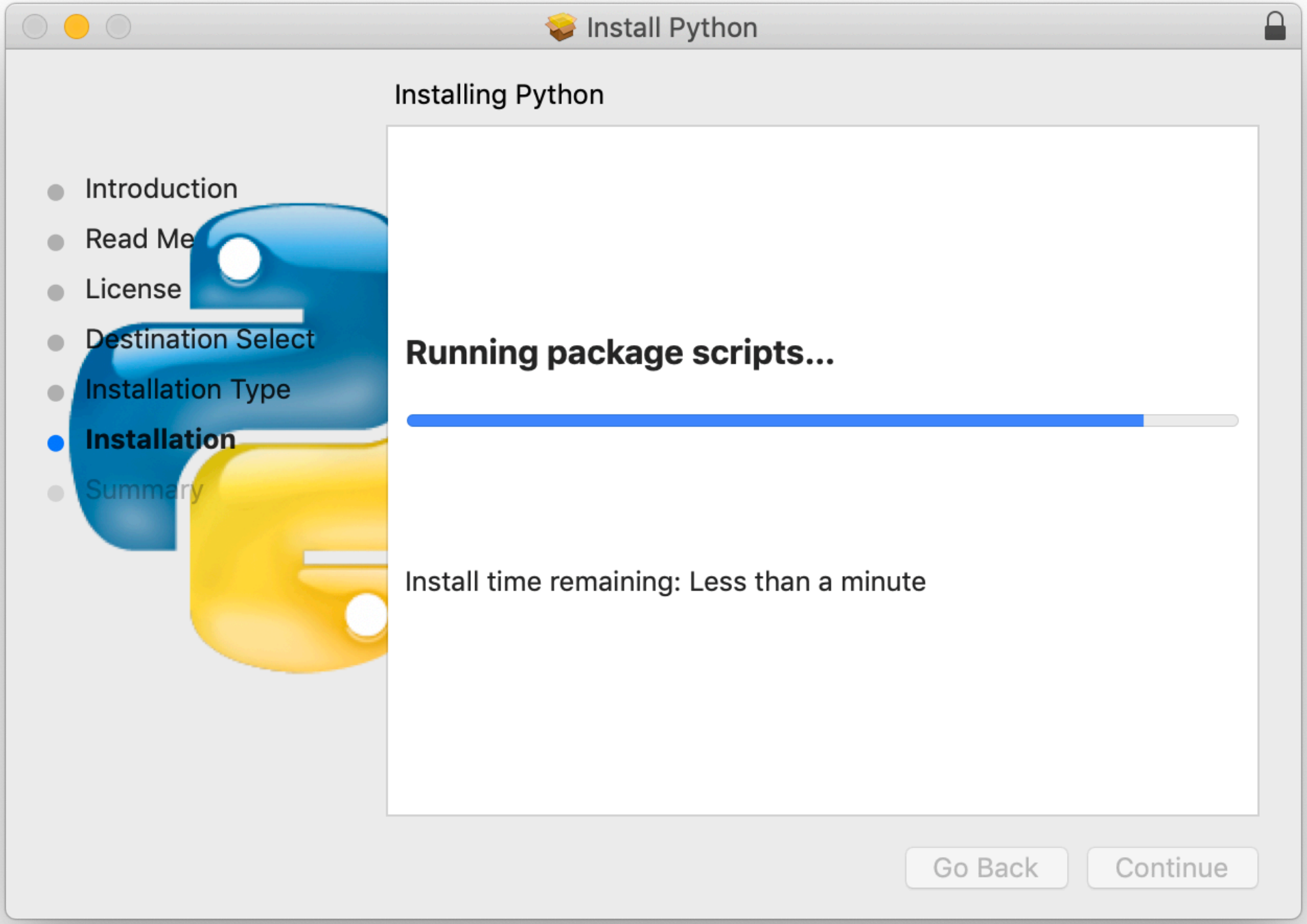

AdminZ — -bash — 80×24

```
Last login: Thu Jan 24 22:27:20 on ttys000
AdminZ:~$ python3
```

AdminZ — Python — 80×24

```
Last login: Thu Jan 24 22:27:20 on ttys000
AdminZ:~$ python3
Python 3.7.2 (v3.7.2:9a3ffc0492, Dec 24 2018, 02:44:43)
[Clang 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

AdminZ — Python — 80×24

```
Last login: Thu Jan 24 22:27:20 on ttys000
AdminZ:~$ python3
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[Clang 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license" for more informa
>>> print("Hello, world.")
Hello, world.
>>>
```