Python102

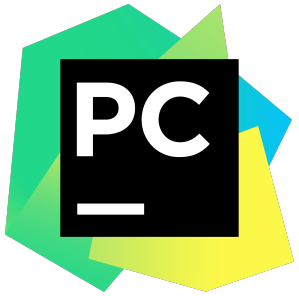
Python for Data Science Bootcamp

(1) Python Environment Set-up

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)





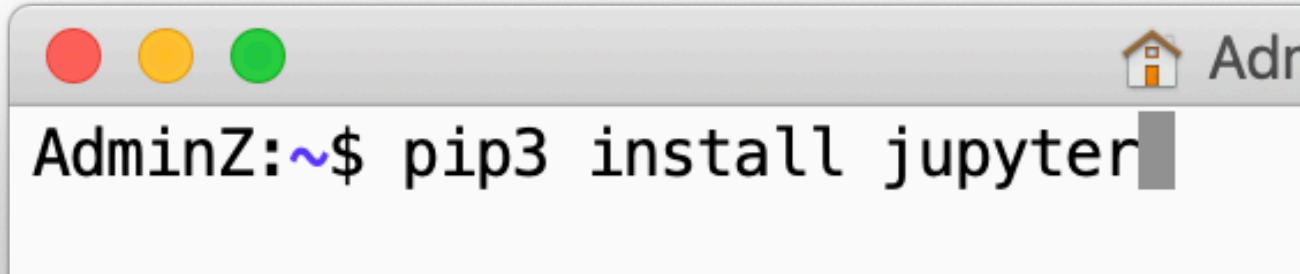
Experience users who already have Python

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

pip3 install jupyter

or

pip install jupyter

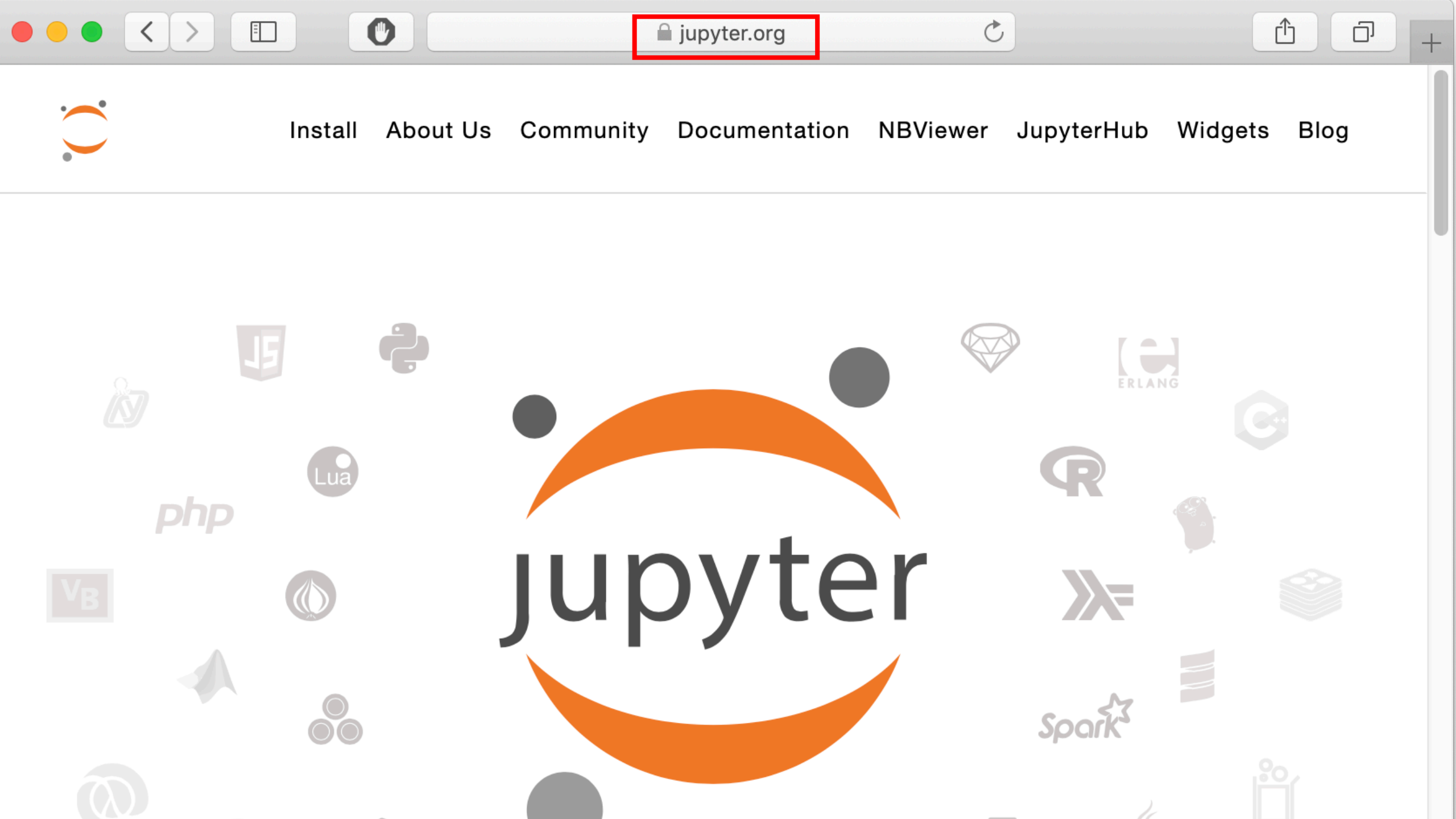


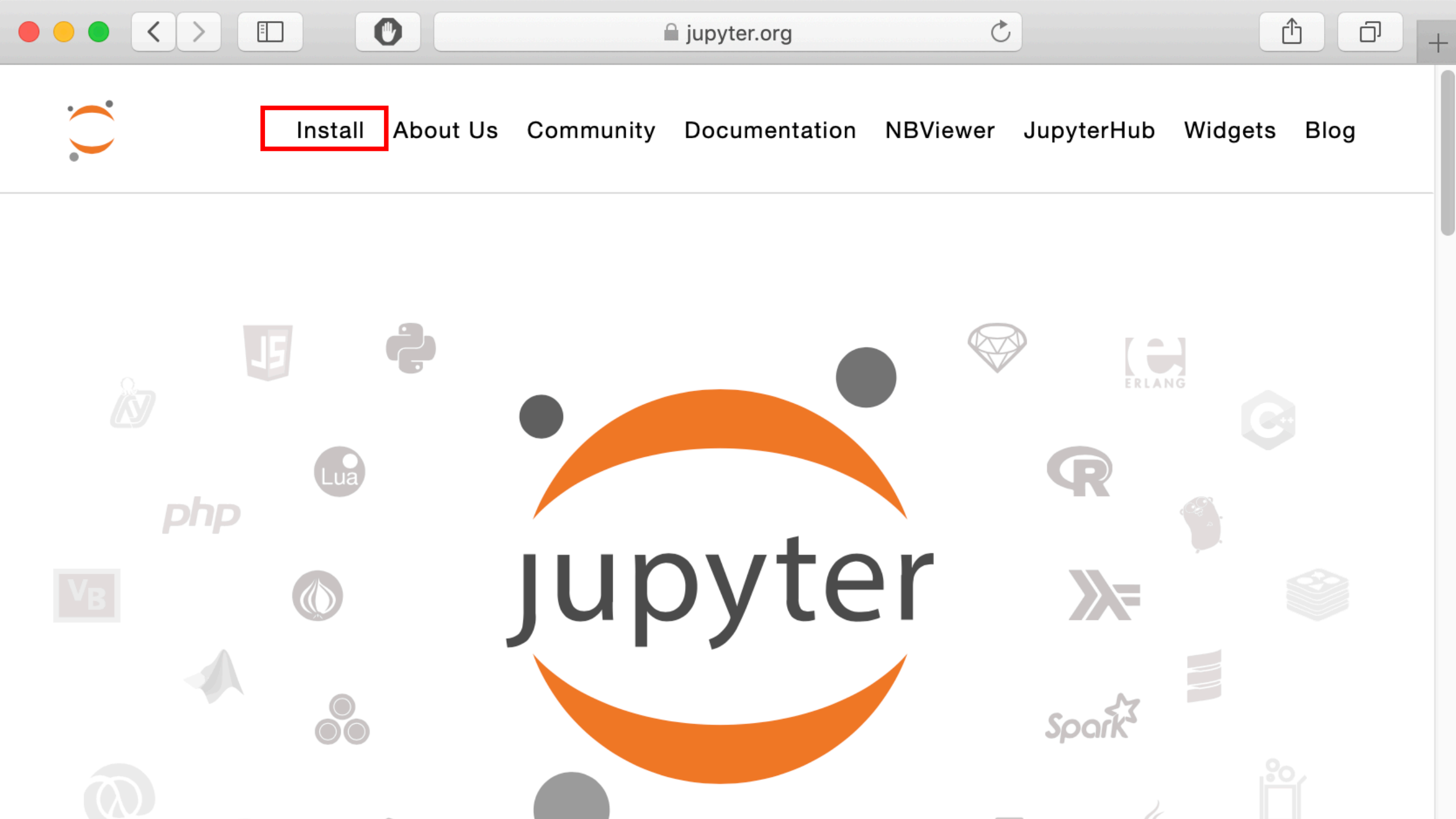
Recommended: New Users

- 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.jupyter.org


jupyter.org
Install
About Us
Community
Documentation
NBViewer
JupyterHub
Widgets
Blog
jupyter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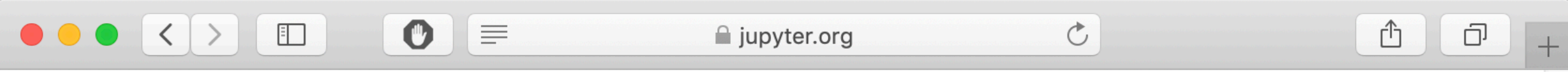


Prerequisite: Python

While Jupyter runs code in many programming languages, Python is a requirement (Python 3.3 or greater, or Python 2.7) for installing the Jupyter Notebook itself.

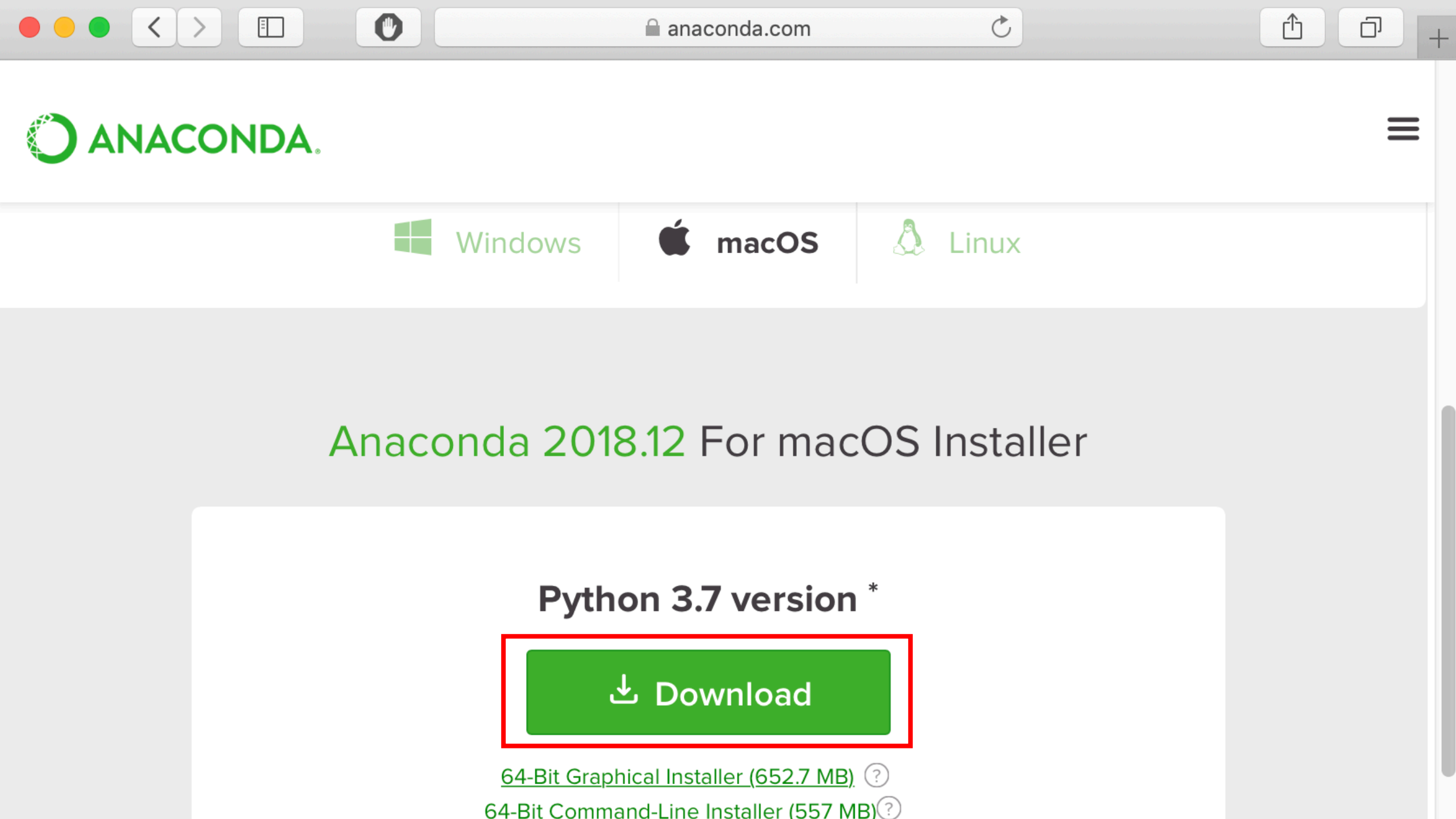
Installing Jupyter using Anaconda

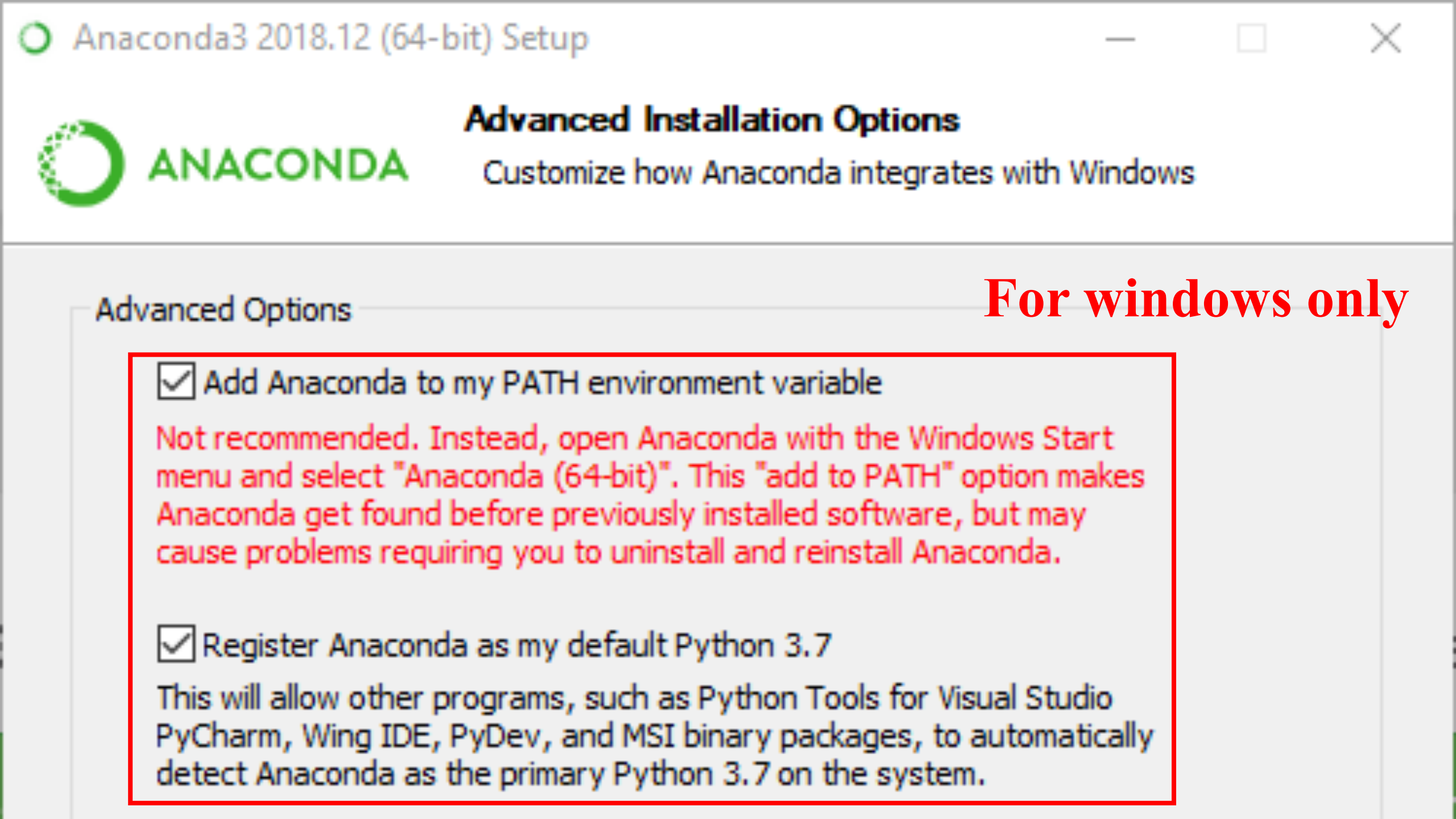
We **strongly recommend** installing Python and Jupyter using the Anaconda Distribution, which includes Python, the Jupyter Notebook, and other commonly used packages for scientific computing and data science.

First, download Anaconda. We recommend downloading Anaconda's latest Python 3 version.

Second, install the version of Anaconda which you downloaded, following the instructions on the download page.

Congratulations, you have installed Jupyter Notebook! To run the notebook, run the following command at the Terminal (Mac/Linux) or Command Prompt (Windows):


anaconda.com
ANACONDA.
Windows
macOS
Linux
Anaconda 2018.12 For macOS Installer
Python 3.7 version *
Download
64-Bit Graphical Installer (652.7 MB)
64-Bit Command-Line Installer (557 MB)


Anaconda3 2018.12 (64-bit) Setup
ANACONDA
Advanced Installation Options
Customize how Anaconda integrates with Windows
For windows only
Advanced Options
Add Anaconda to my PATH environment variable
Not recommended. Instead, open Anaconda with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.
Register Anaconda as my default Python 3.7
This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.7 on the system.

ANACONDA NAVIGATOR

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- Environments
- Learning
- Community

Applications on base (root) Channels Refresh

JupyterLab
0.35.3
An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.
Launch

Notebook
5.7.4
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch

Qt Console
↗ 4.4.3
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.
Launch

Spyder
3.3.2
Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features
Launch

VS Code
1.30.2
Streamlined code editor with support for development operations like debugging, task running and version control.
Launch

Glueviz
0.13.3
Multidimensional data visualization across files. Explore relationships within and among related datasets.
Install

Orange 3
3.17.0
Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.
Install

RStudio
1.1.456
A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.
Install

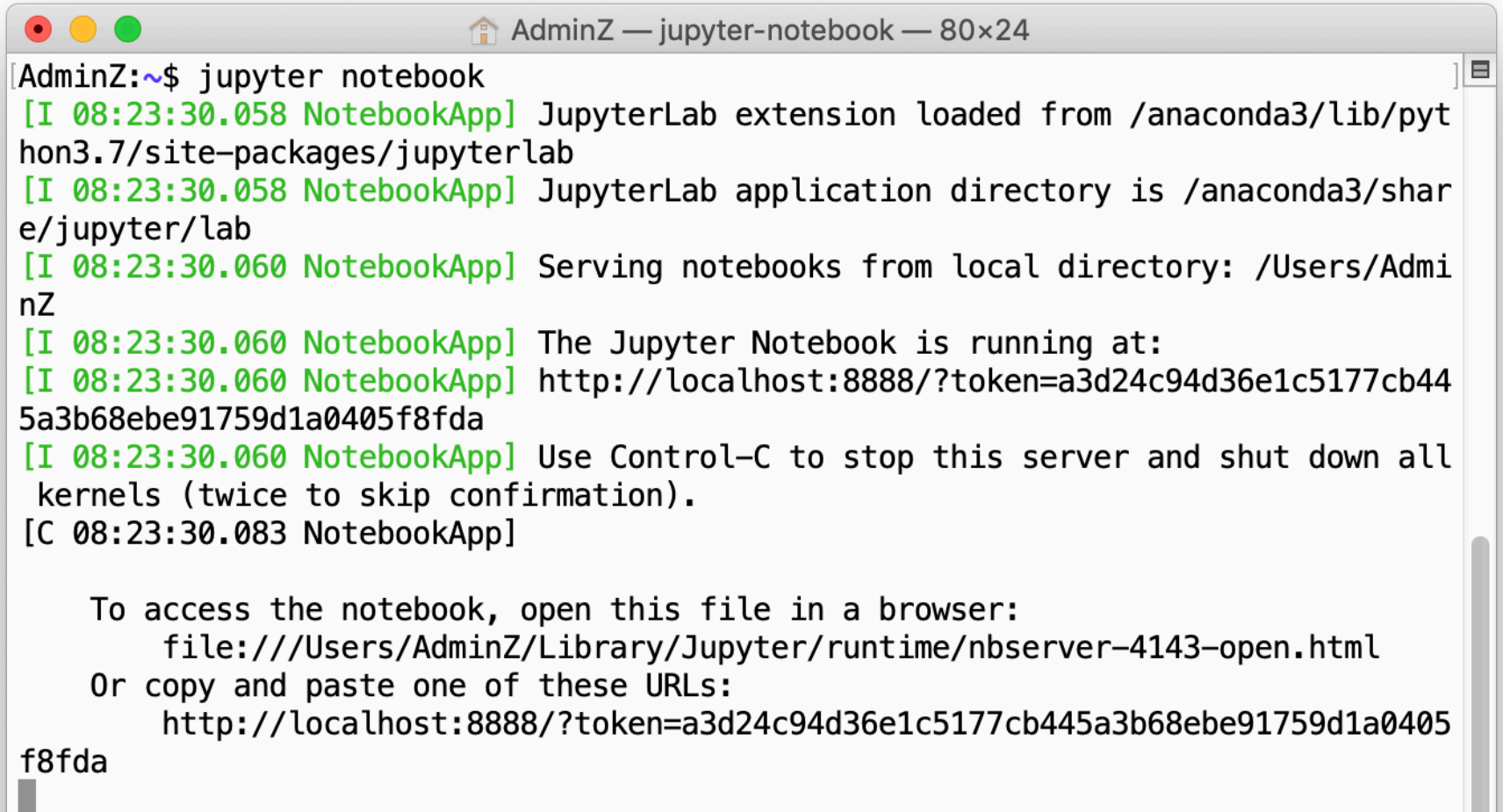
Documentation

Developer Blog

Environment Set-up

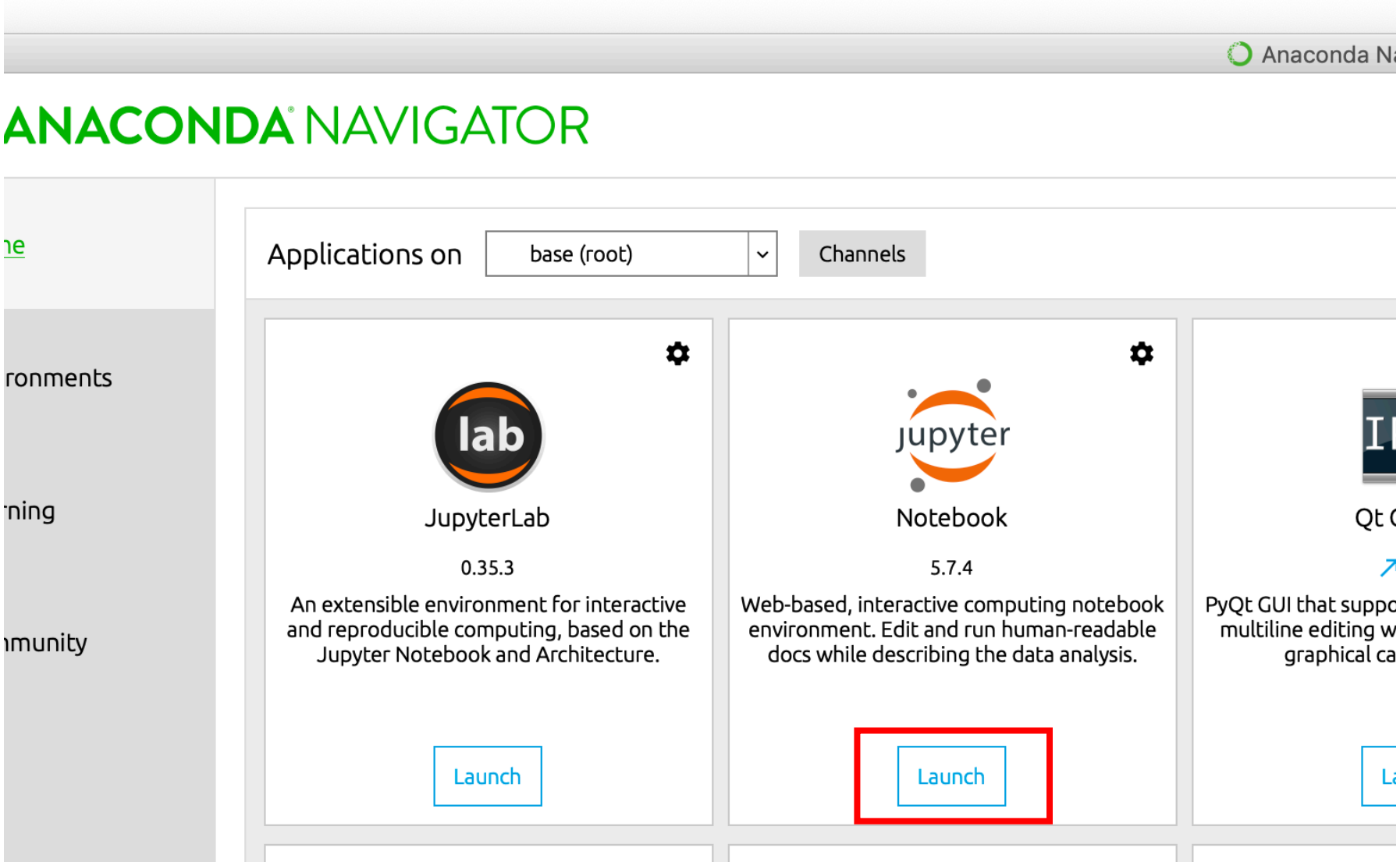
- Let's go to command prompt or terminal and use:

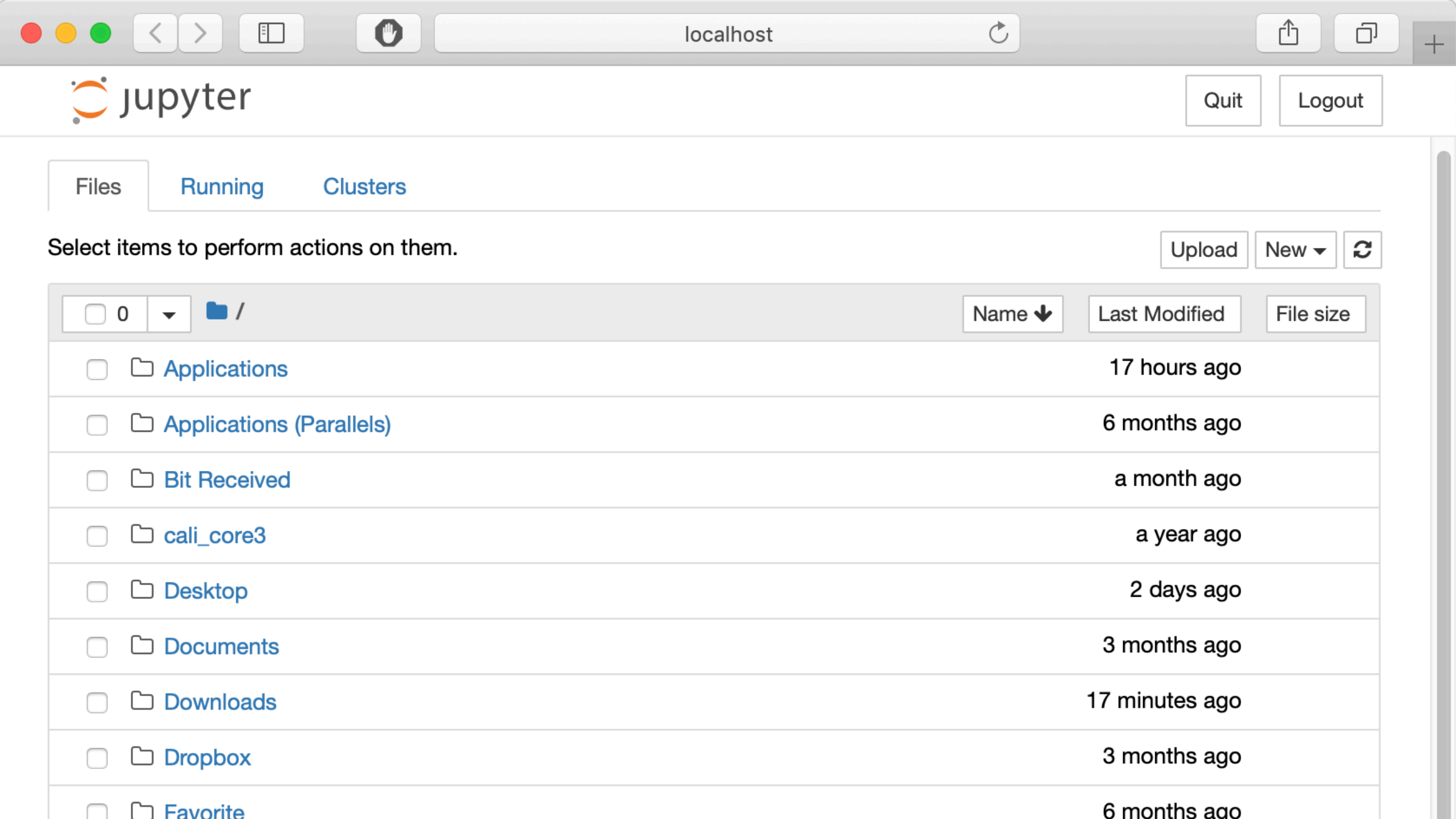
jupyter notebook



Environment Set-up

- Or launch on Anaconda Navigator




localhost
jupyter
Quit
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
0
/
Name
Last Modified
File size
Applications
17 hours ago
Applications (Parallels)
6 months ago
Bit Received
a month ago
cali_core3
a year ago
Desktop
2 days ago
Documents
3 months ago
Downloads
17 minutes ago
Dropbox
3 months ago
Favorite
6 months ago