

Anaconda and Jupyter Notebook Setup Instructions

1. Download and install Anaconda (Python 3.6 version, Graphical Installer). Anaconda is a special distribution of Python for scientific computing and data analysis – you'll also get Jupyter (improved iPython notebooks) with this installation.

<https://www.continuum.io/downloads>

The screenshot shows the Anaconda download page for macOS. At the top, there are three tabs: "Download for Windows", "Download for macOS" (which is selected), and "Download for Linux". Below the tabs, the page is titled "Anaconda 4.3.1 For macOS". A note for "macOS 10.12.2 users" recommends upgrading to 10.12.3 or later. Below this, there is a "Changelog" link and instructions for the "Graphical Installer" and "Command Line Installer". On the right side, there are two sections for installers. The first section is for "Python 3.6 version" and contains two buttons: "GRAPHICAL INSTALLER (424M)" (highlighted with a yellow box) and "COMMAND-LINE INSTALLER (363M)". The second section is for "Python 2.7 version" and contains two buttons: "GRAPHICAL INSTALLER (419M)" and "COMMAND-LINE INSTALLER (358M)".

Download for Windows Download for macOS Download for Linux

Anaconda 4.3.1

For macOS

macOS 10.12.2 users: To prevent permissions problems, we recommend that you upgrade to macOS 10.12.3 or later before installing Anaconda.

Anaconda is BSD licensed which gives you permission to use Anaconda commercially and for redistribution.

[Changelog](#)

Graphical Installer

1. Download the graphical installer
2. Double-click the downloaded **.pkg** file and follow the instructions

Command Line Installer

Python 3.6 version

GRAPHICAL INSTALLER (424M)

COMMAND-LINE INSTALLER (363M)

64-Bit

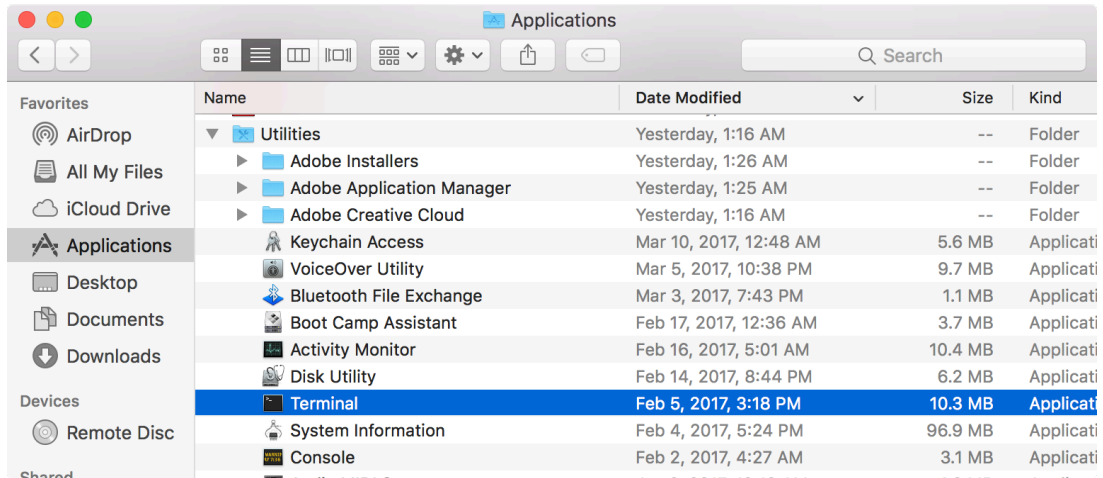
Python 2.7 version

GRAPHICAL INSTALLER (419M)

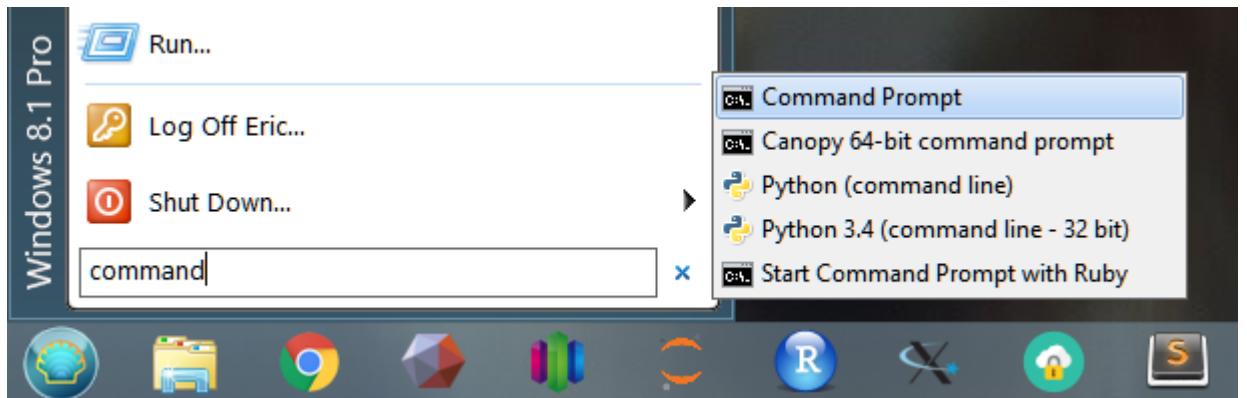
COMMAND-LINE INSTALLER (358M)

2. Open up a command prompt. Try to get familiar with the command prompt on your machine in general – it is very useful for all sorts of tasks when programming.

MacOS: Finder -> Applications -> Utilities -> Terminal

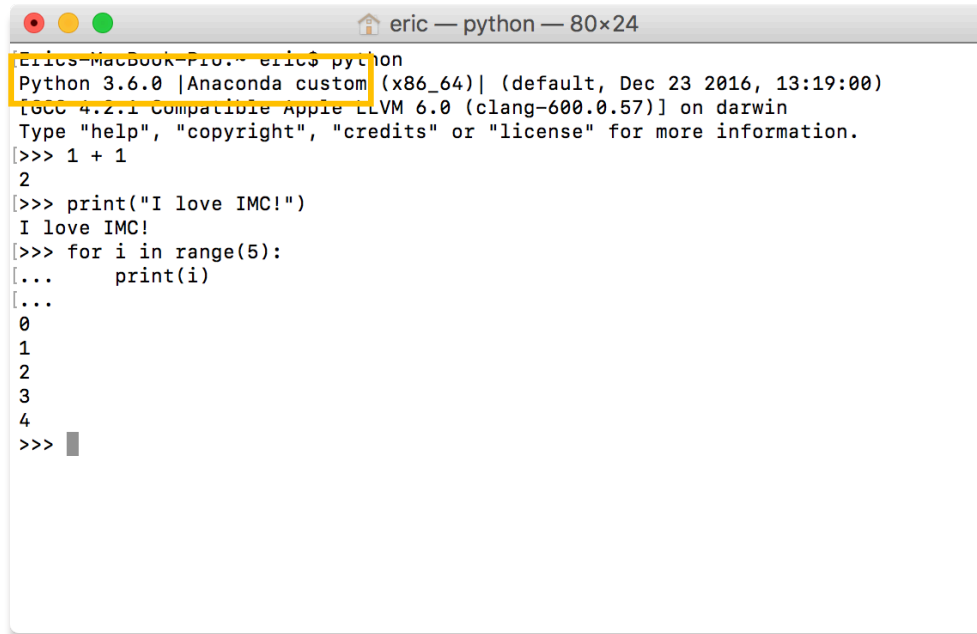


Windows: Start Menu -> Search -> "command prompt"

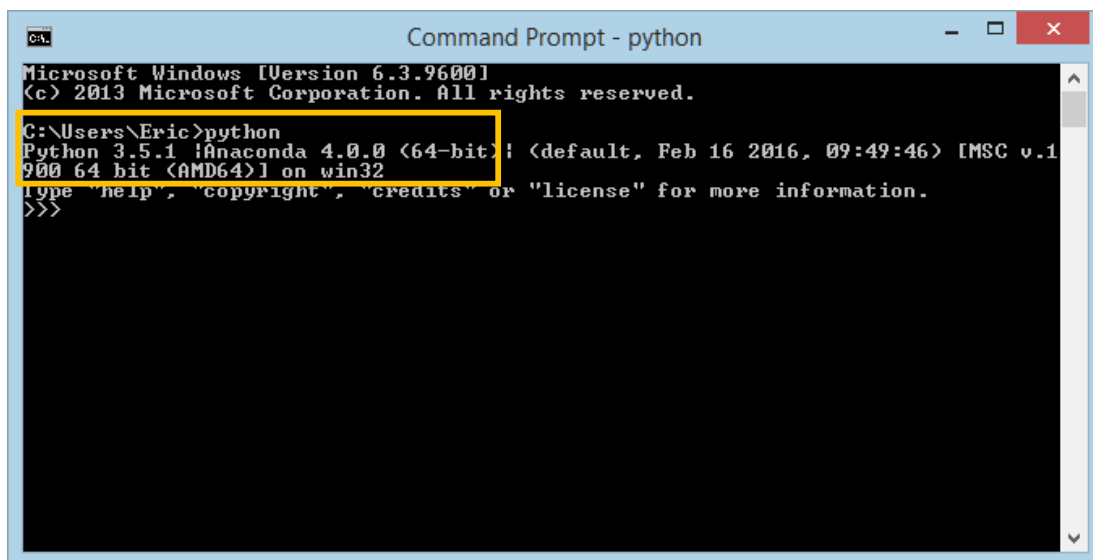


3. Check your Python version. Type `python` and run the command. This will open up a Python REPL (an interactive shell that shows Python input and output). If you installed Anaconda correctly, you should see “Python 3.6.x | Anaconda” in the command prompt.

Run some commands to see the REPL in action. Run the function `quit()` to exit Python and return to your command prompt.



```
eric — python — 80x24
eric@MacBook-Pro:~$ python
Python 3.6.0 |Anaconda custom (x86_64)| (default, Dec 23 2016, 13:19:00)
[GCC 4.2.1 Compatible Apple LLVM 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> 1 + 1
2
>>> print("I love IMC!")
I love IMC!
>>> for i in range(5):
...     print(i)
...
0
1
2
3
4
>>>
```



```
Command Prompt - python
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

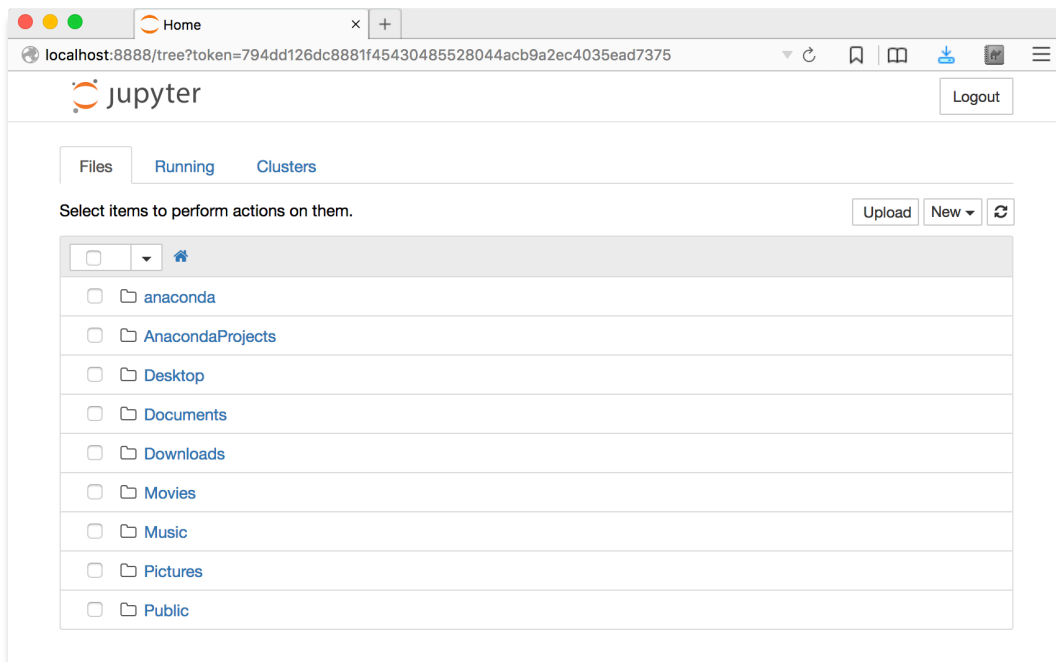
C:\Users\Eric>python
Python 3.5.1 |Anaconda 4.0.0 (64-bit)| (default, Feb 16 2016, 09:49:46) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

4. Run the Jupyter Notebook by running the command `jupyter notebook`.

```
eric — jupyter-notebook — 80x24
Last login: Thu Apr 13 21:30:29 on ttys000
[Eric-MacBook-Pro:~ eric$ jupyter notebook ]
[I 21:30:48.705 NotebookApp] Serving notebooks from local directory: /Users/eric
[I 21:30:48.705 NotebookApp] 0 active kernels
[I 21:30:48.705 NotebookApp] The Jupyter Notebook is running at: http://localhost:8888/?token=f7433f6feaa033f8a87b3b81e23cd325d654bf566b05bb2e
[I 21:30:48.705 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 21:30:48.708 NotebookApp]

Copy/paste this URL into your browser when you connect for the first time,
to login with a token:
    http://localhost:8888/?token=f7433f6feaa033f8a87b3b81e23cd325d654bf566b05bb2e
[I 21:30:48.815 NotebookApp] Accepting one-time-token-authenticated connection from ::1
```

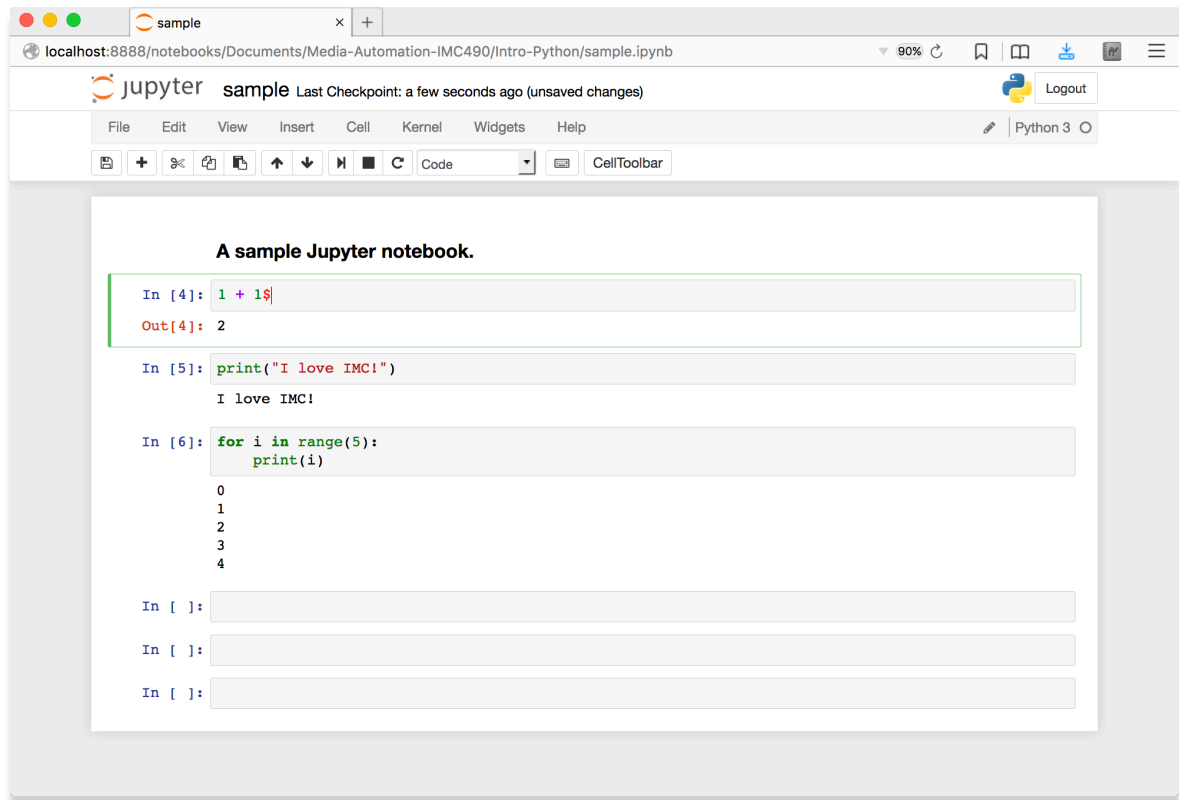
Jupyter is a web application that runs on your computer through a local web server, so this command will start up a web server and open up your default browser to the address: "localhost:8888."



If nothing pops up or you close Jupyter out, you can open up a web browser and navigate to localhost:8888 to get back to Jupyter.

Note that if you close your terminal, it kills the process and your Jupyter notebook as well.

Use the Jupyter graphical interface to navigate to the sample notebook (Canvas -> Labs -> Lab 1 – Intro to Python -> sample.ipynb).



You're all set up!