# Installing Anaconda

A Scientific Python Environment

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# Why use Anaconda?

- Anaconda is a complete set of python tools (195+ of them) that are useful in one simple and straight forward install (available for Linux, OS X, and Windows).
- This collection of packages are geared towards scientific computing.
- Anaconda is also a powerful and simple package manager which helps in managing the python ecosystem.

### What does Anaconda include?

The packages contained in Anaconda are geared towards scientific computing (data analysis, math, science ...)

All of the essentials (+ a lot more)

- python
- ipython
- matplotlib
- numpy
- pandas

A full list of packages is available at: http://docs.continuum.io/anaconda/pkg-docs.html

# Where to get Anaconda from?

Available free from: http://continuum.io/downloads

**Note:** Continuum will offer you the option of Python 3.5 or Python 2.7. Given that much of the scientific stack has now been migrated to Python 3.5 - it is now the **best** option to go for.

# Python 2.7 or 3.5?

#### Python 2.7

- Pro
  - More packages are available in Python 2.7
  - A lot of examples are written in Python 2.7 syntax.
- Con
  - In maintenance mode not getting new features as the language develops over time.

### Python 3.5 (Best **default** selection)

- Pro
  - Newest version which is the long term future of Python
  - Most of the scientific stack has been ported to Python 3
- Con
  - Sometimes want to use a library which has not been migrated to Python 3 yet. (but can make use of conda environments if needed)



### Installation Guides

The following installation guides are available for:

- 1. OS X
- Windows
- 3. Linux<sup>1</sup>

**Note:** The version numbers shown in the pictures may not perfectly match with the current latest version number.

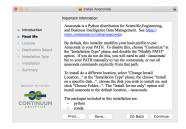
There are also some simple tests at the end of this document to verify if your installation has been successful.

Click on the downloaded OS package: Anaconda3-4.2.0-MacOSX-x86\_64.pkg.<sup>2</sup>



<sup>&</sup>lt;sup>2</sup>There is also a non-graphical alternative using
Anaconda3-4.2.0-Mac0SX-x86\_64.sh which is also available on the website. This method of installation is very similar to the Linux instructions:

The **README** screen tells you what this installer is about to do. Click on **Continue** 



The **LICENSE** provides details of the end user agreement. Once satisified click on **Continue** 



You will need to accept the terms and conditions to continue. Click on **Agree** in the pop up window.

Install for me only should be selected. Sometimes a bug in the anaconda installer suggests Anaconda cannot be installed to this location. If this occurs re-click on the Install for Me Only area and this will disappear.

Now it should look more like this - indicating how much space will be used. Click on **Continue** 







#### Click on Install



#### Done!

Click on the downloaded installer:
Anaconda3-4.2.0-Windows-x86 64.exe



Agree to licence terms and conditions.



Keep the default selection Just Me (Recommended) and click next



Keep the default location which should be an **Anaconda** folder in your user directory.



Be sure to leave both boxes ticked.



#### Done!



### Linux

### Open a terminal and run:

bash Anaconda3-4.2.0-Linux-x86\_64.sh |3

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Amaconda-2.1.6.linum-286.64.5

Maconda-2.1.6.linum-286.64.5

Welcome to Amaconda 2.1.8 (by Continuum Analytics, Inc.)

In order to continue the installation process, please review the license agreement.

Please, press ENTER to continue

Please, press ENTER to continue
```

#### Press **ENTER** to continue the installation



<sup>&</sup>lt;sup>3</sup>This example is run using Linux Mint

#### Linux

Scroll through the license terms and conditions. When asked if you approve type **yes** 

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Keep the default install location by hitting **ENTER**. This will setup an **anaconda** directory in your user account.

```
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#### Linux

Ensure to type **yes** to prepend the anaconda installation to your **PATH**. This ensures anaconda is the default python library on your system.

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#### Done!

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installing: zlswriter-0.5.0 ...
install
```

## Some simple tests

Run these commands in a terminal.

Note: For Windows systems these should be run in a cmd or powershell terminal.

- 1. Try updating conda by typing: conda update conda
- Try updating the anaconda library by typing: conda update anaconda
- 3. Open IPython Notebook by typing: jupyter notebook . Open a new notebook and try out a few python examples
- 4. Install QuantEcon library by typing: pip install quantecon. Next open a Jupyter notebook and try importing the library using: import quantecon as qe