

# Short Term Course on Machine Learning for Image and video Recognition

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## Python-Lectures

### Introduction

Python is a modern, robust, high level programming language. It is very easy to pick up even if you are completely new to programming.

### Installation

Mac OS X and Linux comes pre installed with python. Windows users can download python from <https://www.python.org/downloads/> (<https://www.python.org/downloads/>) .

To install IPython run,

```
$ pip install ipython[all]
```

This will install all the necessary dependencies for the notebook, qtconsole, tests etc.

### Installation from unofficial distributions

Installing all the necessary libraries might prove troublesome. Anaconda and Canopy comes pre packaged with all the necessary python libraries and also IPython.

#### Anaconda

Download Anaconda from <https://www.continuum.io/downloads> (<https://www.continuum.io/downloads>)

Anaconda is completely free and includes more than 300 python packages. Both python 2.7 and 3.4 options are available.

#### Canopy

Download Canopy from <https://store.enthought.com/downloads/#default> (<https://store.enthought.com/downloads/#default>)

Canopy has a premium version which offers 300+ python packages. But the free version works just fine. Canopy as of now supports only 2.7 but it comes with its own text editor and IPython environment.

## Jupyter

Download and Install Jupyter from <https://jupyter.org/install> (<https://jupyter.org/install>).

As a web application in which you can create and share documents that contain live code, equations, visualizations as well as text, the Jupyter Notebook is one of the ideal tools to help you to gain the data science skills you need.

## Launching in Jupyter Notebook

From the terminal

```
jupyter notebook
```

Open the terminal and execute the above.

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