# **Matplotlib Getting Started and Pyplot**

**Installation of Matplotlib**

If you have [Python](https://www.w3schools.com/python/default.asp) and [PIP](https://www.w3schools.com/python/python_pip.asp) already installed on a system, then installation of Matplotlib is very easy.

Install it using this command:

C:\Users\*Your Name*>pip install matplotlib

If this command fails, then use a python distribution that already has Matplotlib installed,  like Anaconda, Spyder etc.

## Import Matplotlib

Once Matplotlib is installed, import it in your applications by adding the import *module* statement:

import matplotlib

Now Matplotlib is imported and ready to use:

## Checking Matplotlib Version

The version string is stored under \_\_version\_\_ attribute.

### **Example**

import matplotlib  
  
print(matplotlib.\_\_version\_\_)

## Pyplot

Most of the Matplotlib utilities lies under the pyplot submodule, and are usually imported under the plt alias:

import matplotlib.pyplot as plt

Now the Pyplot package can be referred to as plt.

### **Example**

Draw a line in a diagram from position (0,0) to position (6,250):

import matplotlib.pyplot as plt  
import numpy as np  
  
xpoints = np.array([0, 6])  
ypoints = np.array([0, 250])  
  
plt.plot(xpoints, ypoints)  
plt.show()

