MATPLOTLIB

%matplotlib inline
import matplotlib.pyplot as plt
plt.plot([-1, -4.5, 16, 23])
plt.show()

 import matplotlib.pyplot as plt plt.plot([-1, -4.5, 16, 23], "ob") plt.show()

character	description
121	solid line style
1221	dashed line style
1-11	dash-dot line style
191	dotted line style
1.1	point marker
1,1	pixel marker
'0'	circle marker
'ν'	triangle_down marker
1.4.1	triangle_up marker
'<'	triangle_left marker
'>'	triangle_right marker
'1'	tri_down_marker
'2'	tri_up marker
'3'	tri_left marker
'4'	tri_right marker
's'	square marker
'p'	pentagon marker
**	star marker
'h'	hexagon1 marker
(H)	hexagon2 marker
	plus marker
'X'	x marker
. η.	diamond marker
'd'	thin_diamond marker
11	vline marker
_	hline marker

import matplotlib.pyplot as plt

```
days = list(range(1,9))
celsius_min = [19.6, 24.1, 26.7, 28.3, 27.5, 30.5, 32.8, 33.1]
celsius_max = [24.8, 28.9, 31.3, 33.0, 34.9, 35.6, 38.4, 39.2]
plt.xlabel('Day')
plt.ylabel('Degrees Celsius')
plt.plot(days, celsius_min,
     days, celsius_min, "oy",
     days, celsius_max,
     days, celsius_max, "or")
plt.show()
```

Legend

```
# next line only needed if working with "ipython
notebook":
%matplotlib inline
import numpy as np
import matplotlib.pyplot as plt
ax = plt.gca()
ax.plot([1, 2, 3, 4])
ax.legend(['A simple line'])
```

Bar Graph

bars = plt.bar([1,2,3,4], [1,4,9,16])
 bars[0].set_color('green')
 plt.show()