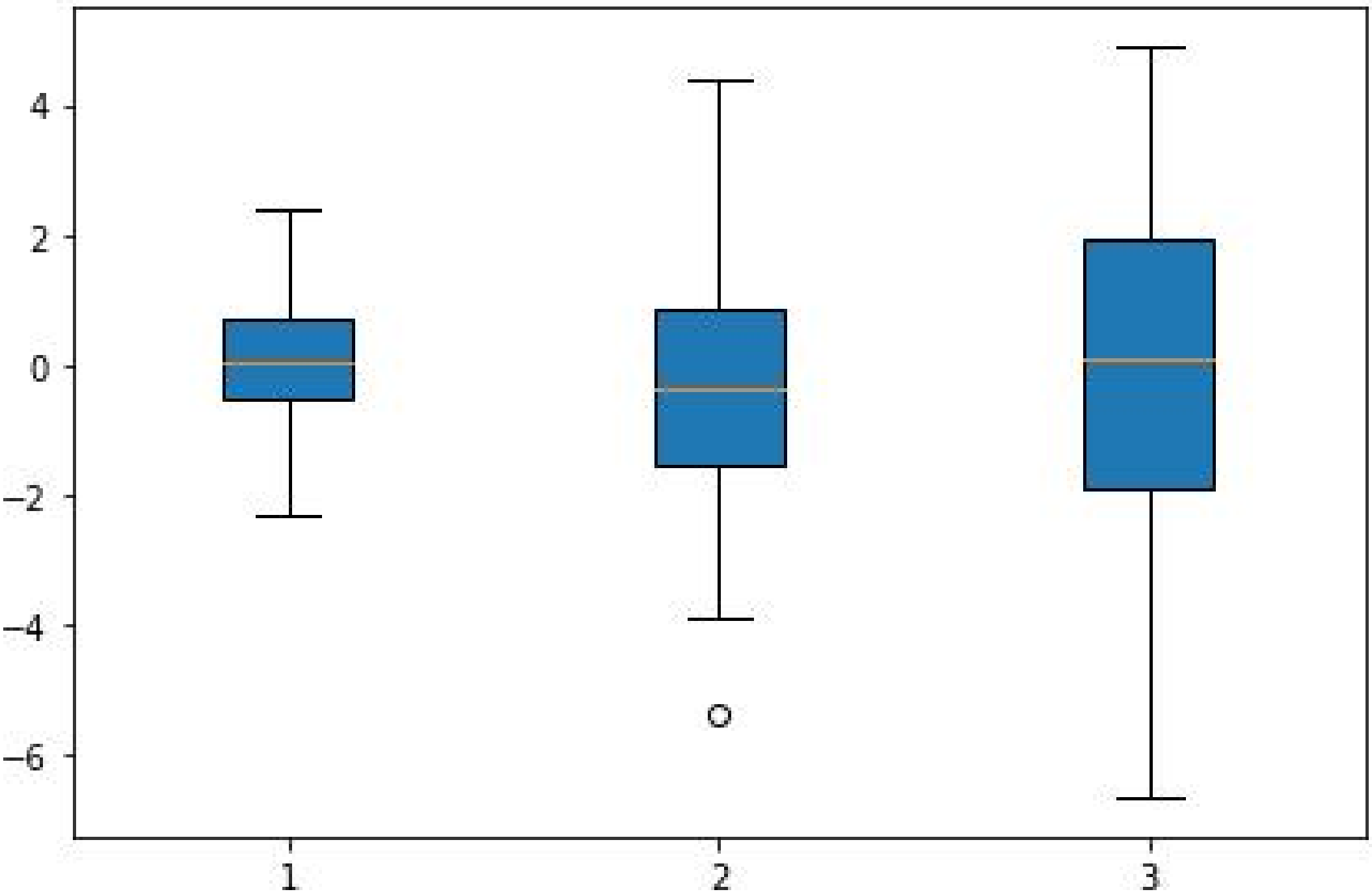
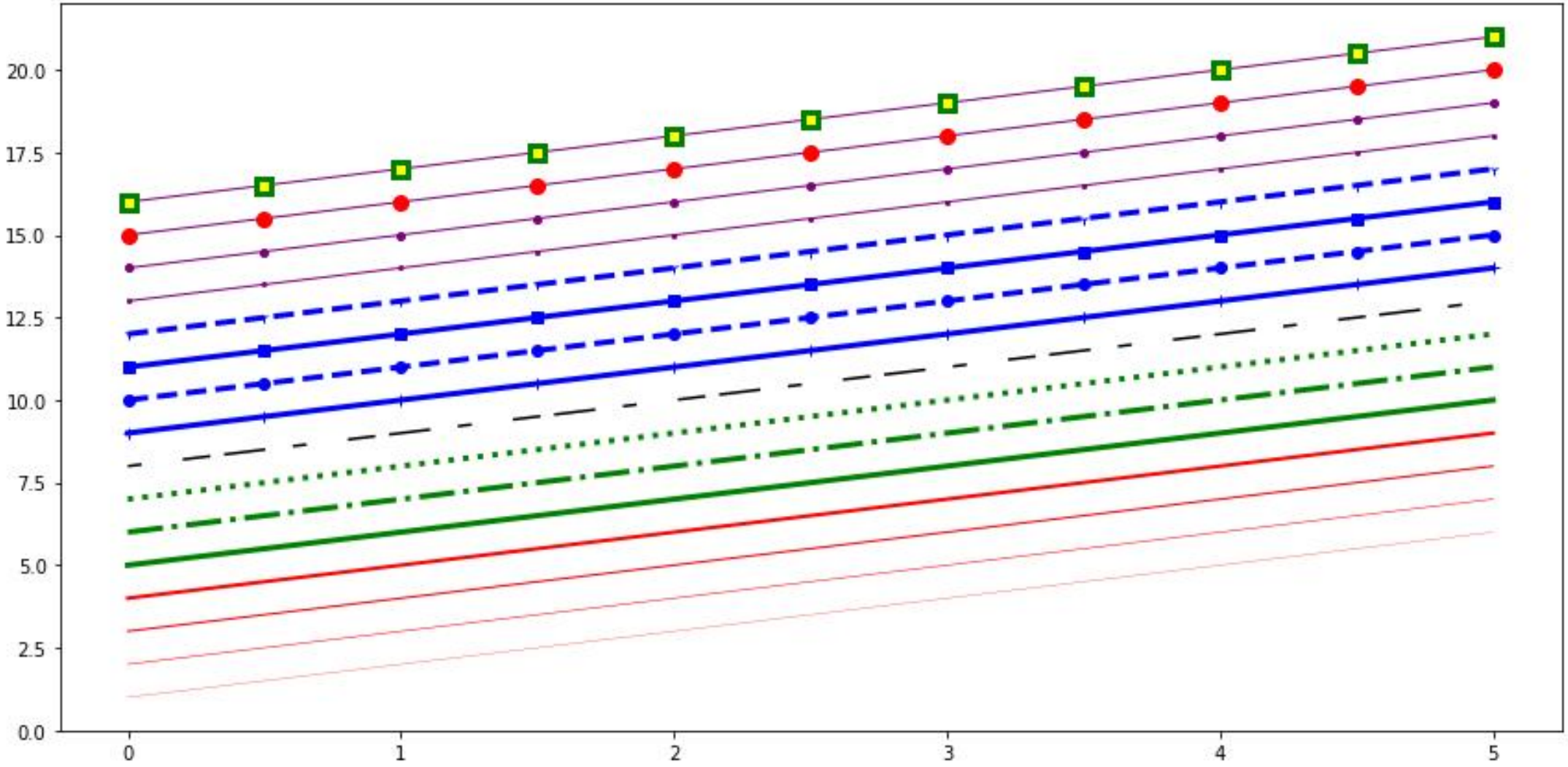

4
2
0
−2
−4
−6
1
2
3


20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
0
1
2
3
4
5

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import cv2
%matplotlib inline
```

✓ 3.5s

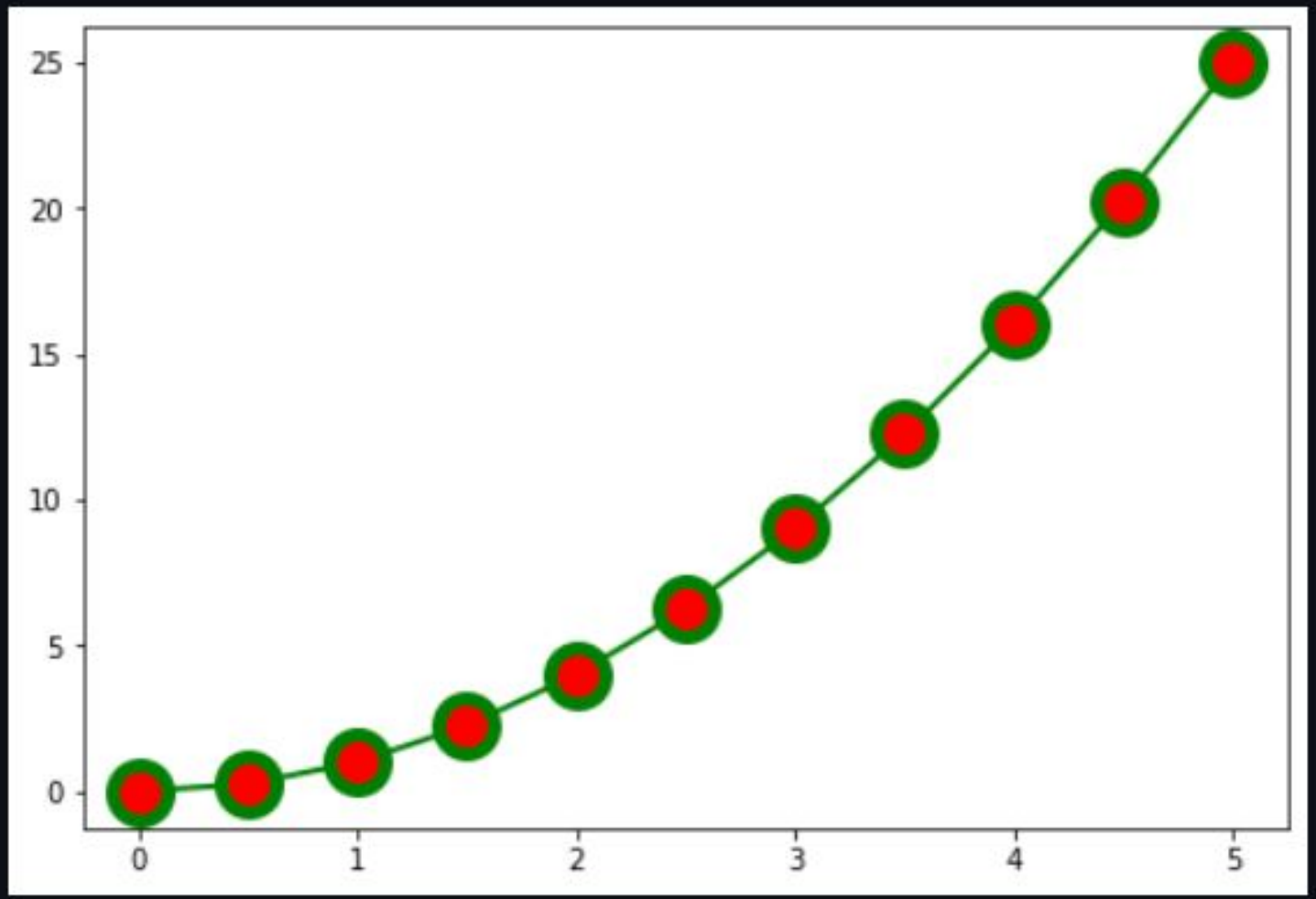
```
x = np.linspace(0,5,11)
y = x ** 2
```

✓ 0.4s

```
fig = plt.figure()

ax = fig.add_axes([0,0,1,1])

ax.plot(x,y,r'g', lw=2, alpha=1, ls='-',marker='o', markersize=20
,markerfacecolor='red', markeredgewidth=5, markeredgecolor="green") # RGB Hex Code can also use
```

✓ 0.4s

```
[<matplotlib.lines.Line2D at 0x24171773b80>]
```

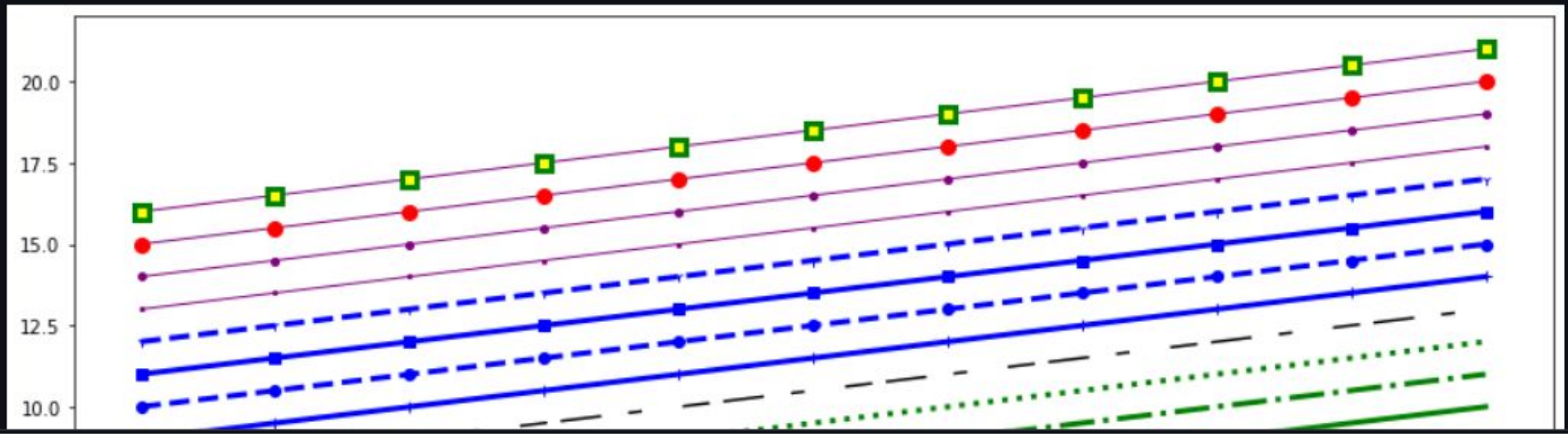


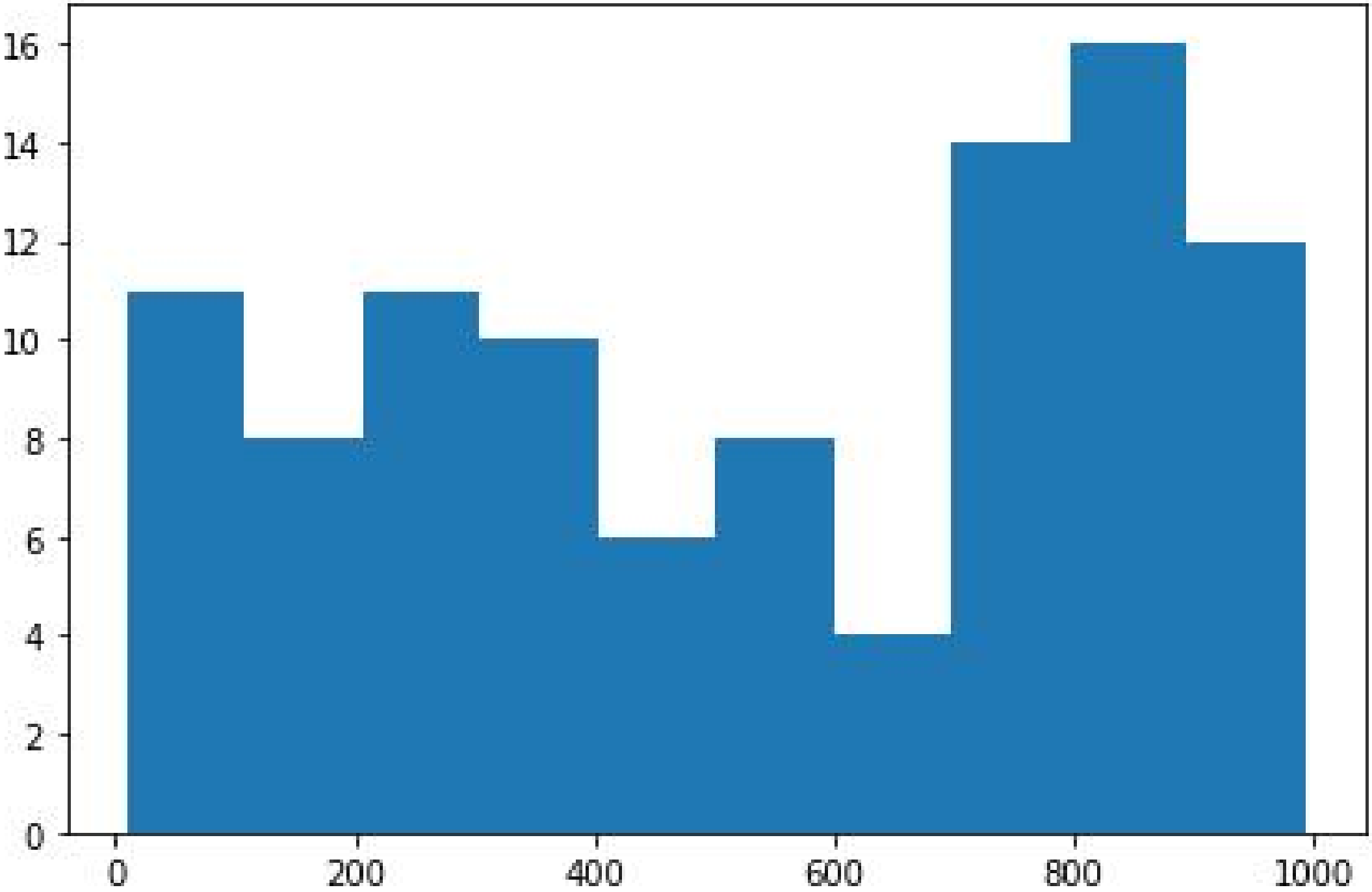
Line and Marker Style

```
fig, ax = plt.subplots(figsize=(12,6))

ax.plot(x, x+1, color="red", lw=0.25)
ax.plot(x, x+2, color="red", lw=0.50)
ax.plot(x, x+3, color="red", lw=1.00)
ax.plot(x, x+4, color="red", lw=2.00)

#possible linestype option '-','_','-.',':','steps'

ax.plot(x, x+5, color="green", lw=3, ls='-')
ax.plot(x, x+6, color="green", lw=3, ls="-.")
ax.plot(x, x+7, color="green", lw=3, ls=":")

#Custom dash
line, = ax.plot(x, x+8, color="black", lw=1.50)
line.set_dashes([5, 15, 10]) #format: line length, space Lenth,..

#possible marker symbols: Marker ='+', 'o', '*', 's', ',', '1', '2','3',

ax.plot(x, x+9, color="blue", lw=3, ls='-', marker='+')
ax.plot(x, x+10, color="blue", lw=3, ls='--', marker='o')
ax.plot(x, x+11, color="blue", lw=3, ls='-', marker='s')
ax.plot(x, x+12, color="blue", lw=3, ls='--', marker='1')
```

```
#marker size and color

ax.plot(x, x+13, color="purple", lw=1, ls='-', marker='o', markersize=2)
ax.plot(x, x+14, color="purple", lw=1, ls='-', marker='o', markersize=4)
ax.plot(x, x+15, color="purple", lw=1, ls='-', marker='o', markersize=8,
markerfacecolor='red',markeredgewidth=1, markeredgecolor='red')

ax.plot(x, x+16, color="purple", lw=1, ls='-', marker='s', markersize=8,
markerfacecolor='yellow', markeredgewidth=3, markeredgecolor='green')

plt.tight_layout()
```

[15] ✓ 0.6s




16
14
12
10
8
6
4
2
0
0
200
400
600
800
1000