

Lab Sheet (2)

Advanced Computer Graphics with Python

(Chapter 1: Essential Python Commands and Functions)

Write a python script to produce each of the following figures :

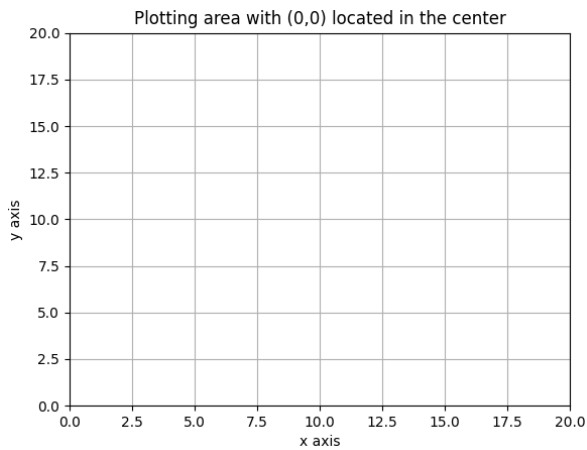


Fig. (1)

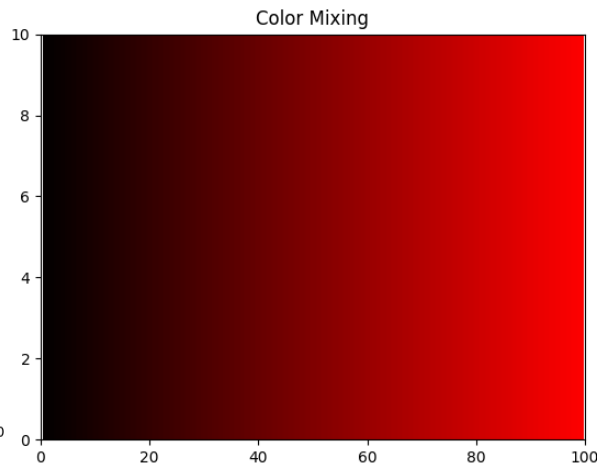


Fig. (2)

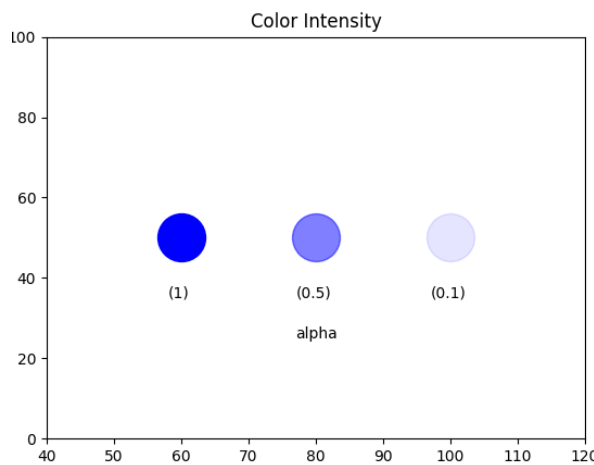


Fig. (3)

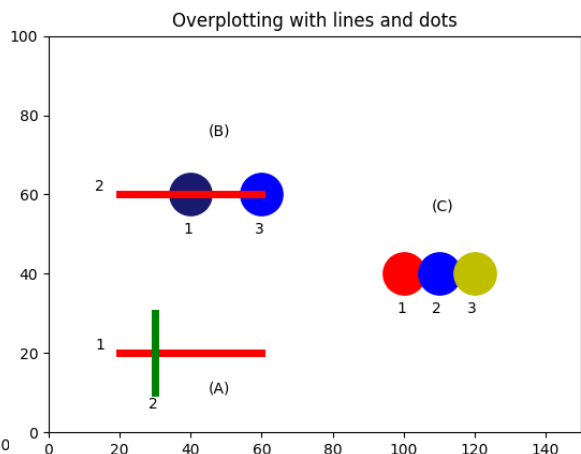


Fig. (4)

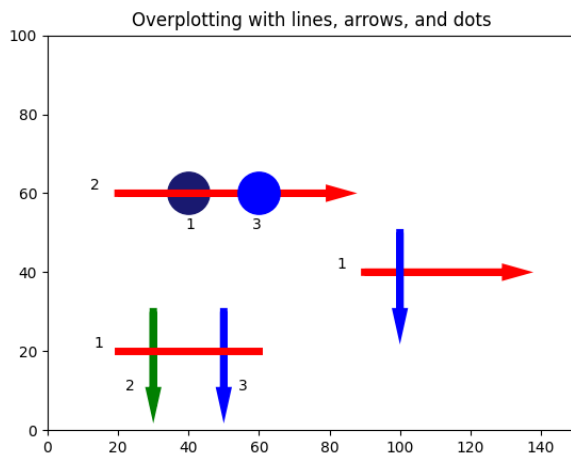


Fig. (5)

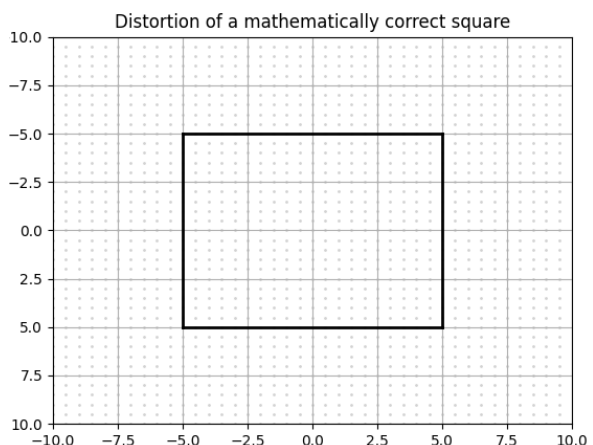


Fig. (6)

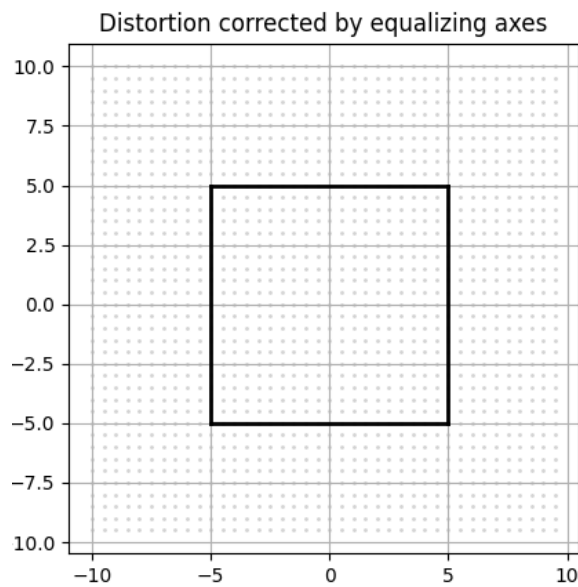


Fig. (7)

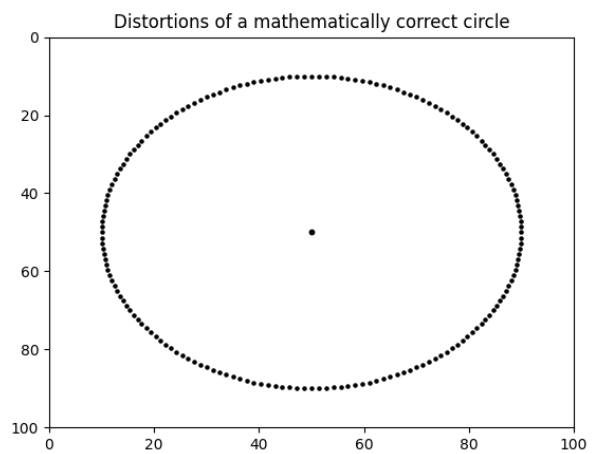


Fig. (8)

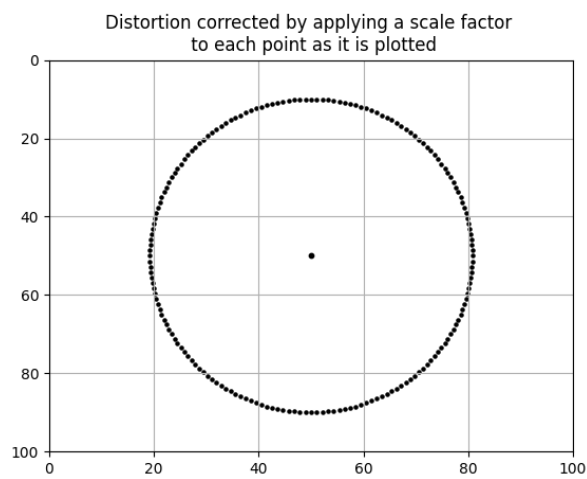


Fig. (9)

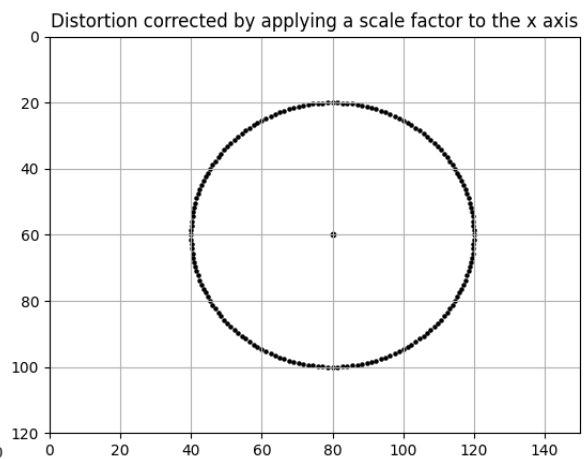


Fig. (10)

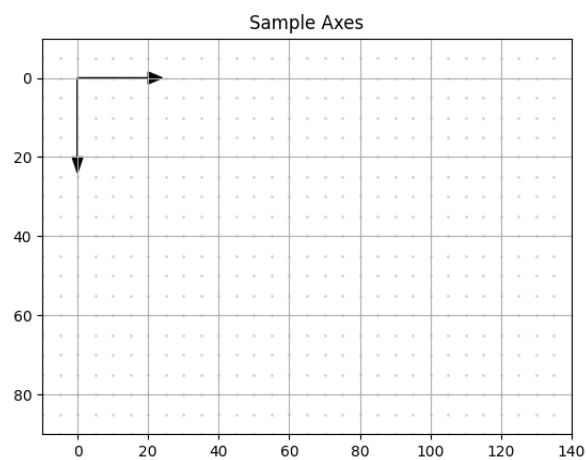


Fig. (11)

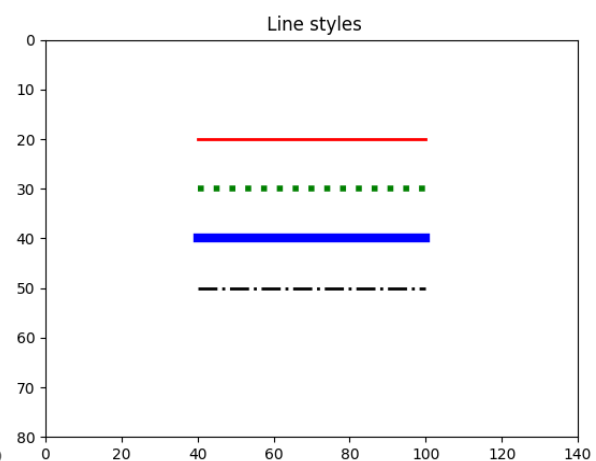


Fig. (12)

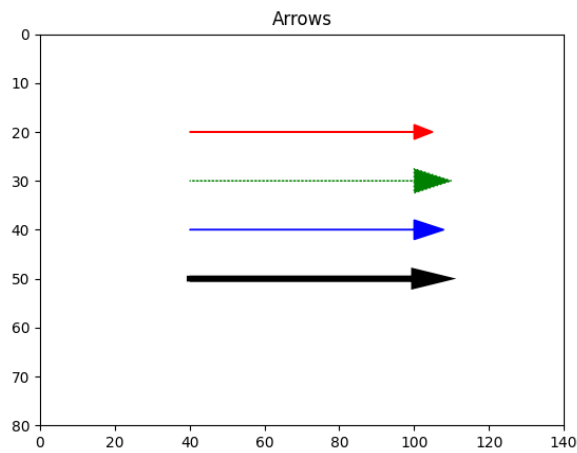


Fig. (13)

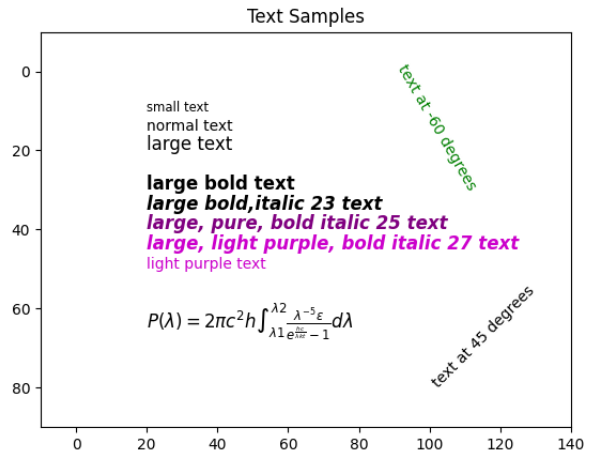


Fig. (14)

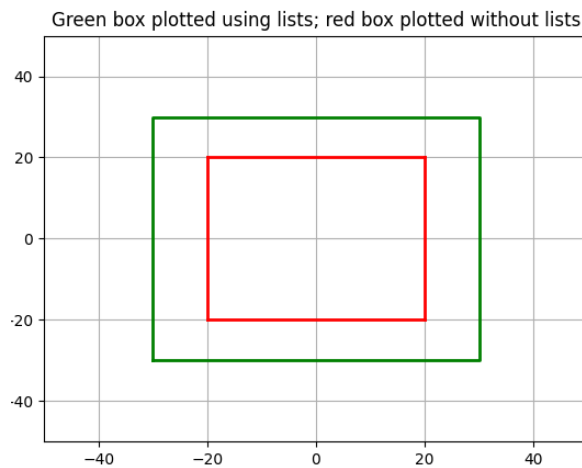


Fig. (15)

Hint

Import libraries :

```
import numpy as np
import matplotlib.pyplot as plt
from math import sin, cos, radians
```

Use Commands :

```
np.arange(), plt.arrow(), plt.axis(), plt.grid(), plt.plot(),
plt.scatter(), plt.show(), plt.text(), plt.title(), plt.xlabel(),
plt.xticks(), plt.ylabel(), plt.yticks()
```