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In [ ]: import cv2
import numpy as np
from matplotlib import pyplot as plt
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In [ ]: # Load Image
img = cv2.imread('Source/gray.bmp')
# img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
# img = cv2.bitwise_not(img)

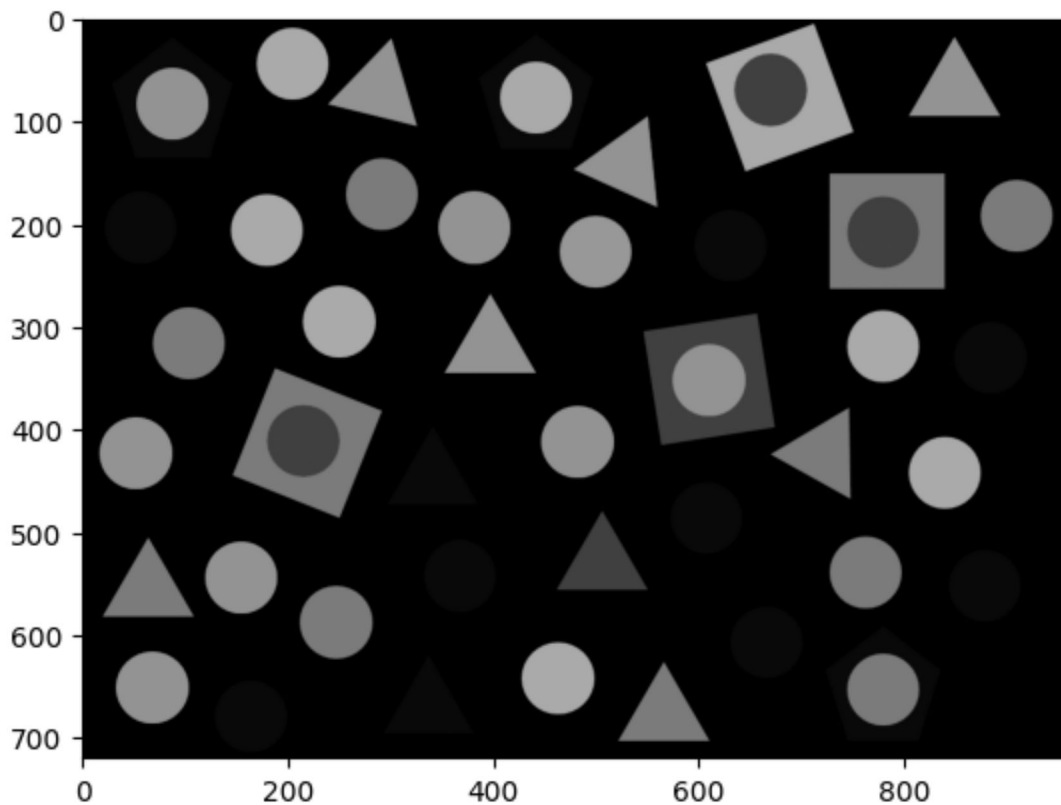
plt.imshow(img, cmap='gray')

def imgDisplay(localImg1, localImg2):
    plt.figure(figsize= (11, 11))

    plt.subplot(1, 2, 1)
    plt.imshow(localImg1, cmap= 'gray')

    plt.subplot(1, 2, 2)
    plt.imshow(localImg2, cmap= 'gray')

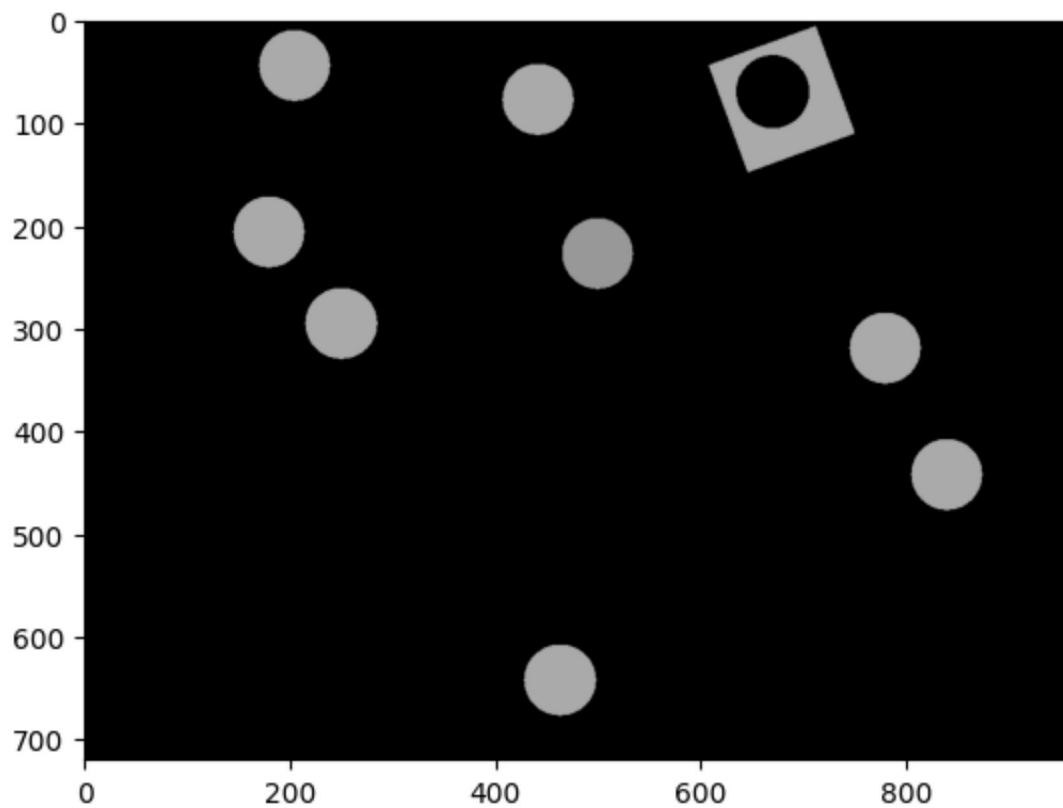
    plt.show()
```



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In [ ]: ret, green = cv2.threshold(img, 150, 255, cv2.THRESH_TOZERO)

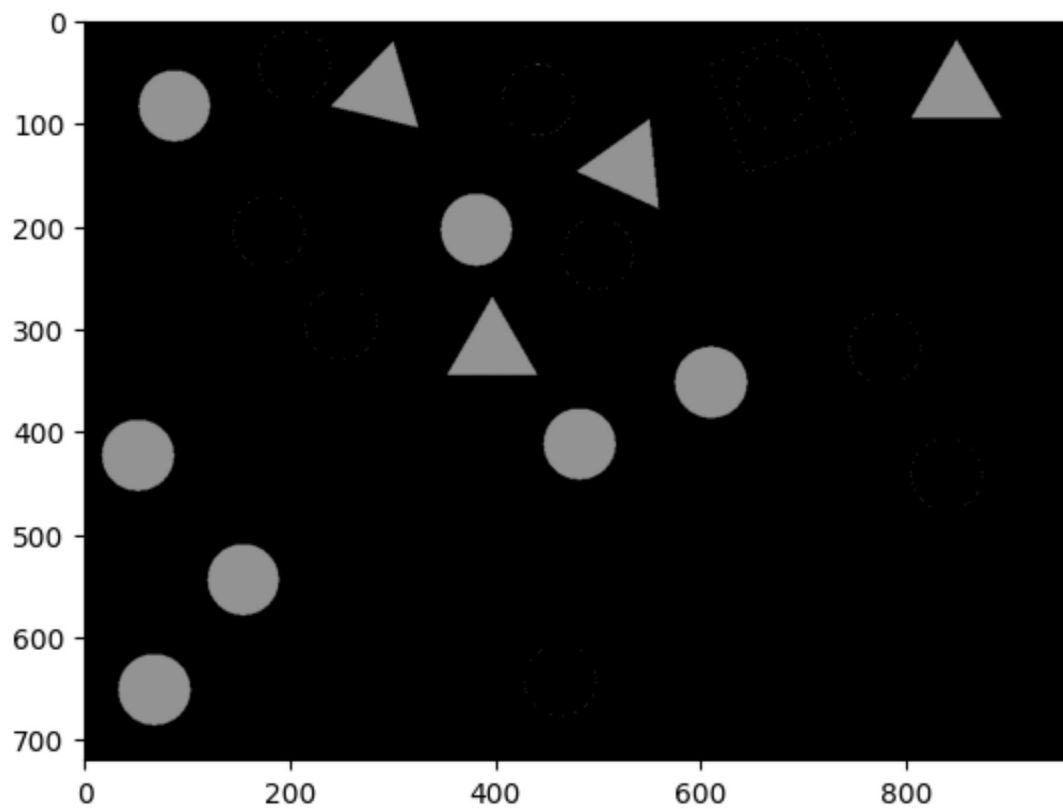
plt.imshow(green, cmap= 'gray')
```

```
Out[ ]: <matplotlib.image.AxesImage at 0x187e7500b20>
```



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In [ ]: ret, red = cv2.threshold(img, 140, 255, cv2.THRESH_TOZERO)
        red = red - green
        plt.imshow(red, cmap= 'gray')
```

```
Out[ ]: <matplotlib.image.AxesImage at 0x187e0a02ca0>
```



```
In [ ]: # Recolor image
red_gray = cv2.cvtColor(red, cv2.COLOR_BGR2GRAY)
green_gray = cv2.cvtColor(green, cv2.COLOR_BGR2GRAY)

# red
r = np.uint8(red_gray * 1)
g = np.uint8(red_gray * 0)
b = np.uint8(red_gray * 0)
red_rgb = cv2.merge([r, g, b])

# green
r = np.uint8(green_gray * 0)
g = np.uint8(green_gray * 1)
b = np.uint8(green_gray * 0)
green_rgb = cv2.merge([r, g, b])

result = red_rgb + green_rgb
# result_rgb = cv2.cvtColor(result, cv2.COLOR_RGB2BGR)

plt.imshow(result)
```

Out[ ]: <matplotlib.image.AxesImage at 0x187e08f49a0>

