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Task 2: Color Identification in Images

```
In [ ]:
```

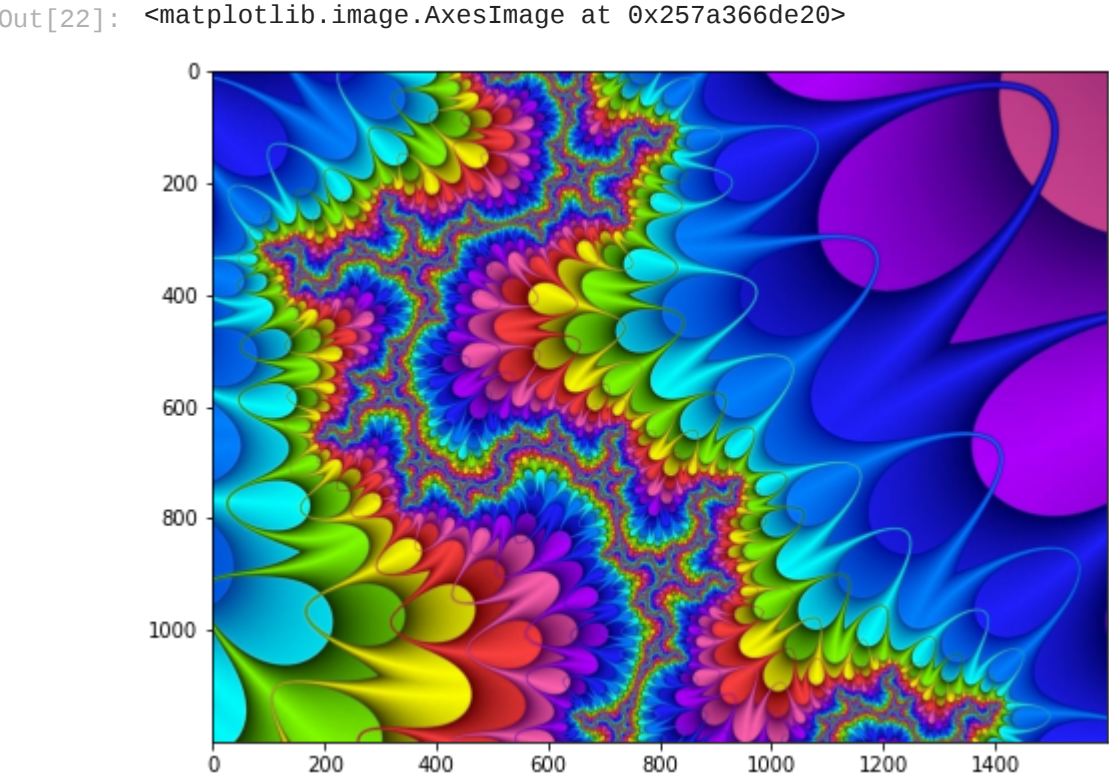
Import Libraries

```
In [20]: import cv2
import numpy as np
import matplotlib.pyplot as plt
```

Image

```
In [21]: image=cv2.imread("C:\\Users\\Admin\\Desktop\\1523270.jpg")
```

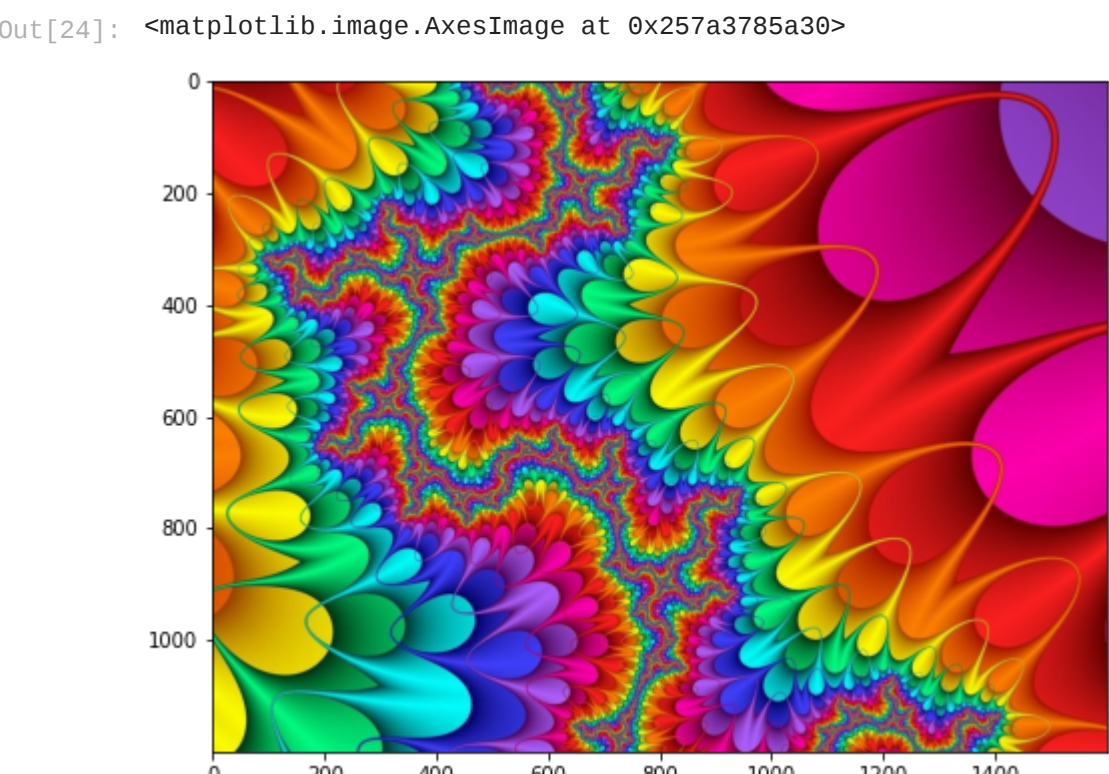
```
In [22]: plt.figure(figsize=(8,8))
plt.imshow(image)
```



Convert image in RGB format

```
In [23]: RGB=cv2.cvtColor(image,cv2.COLOR_BGR2RGB)
```

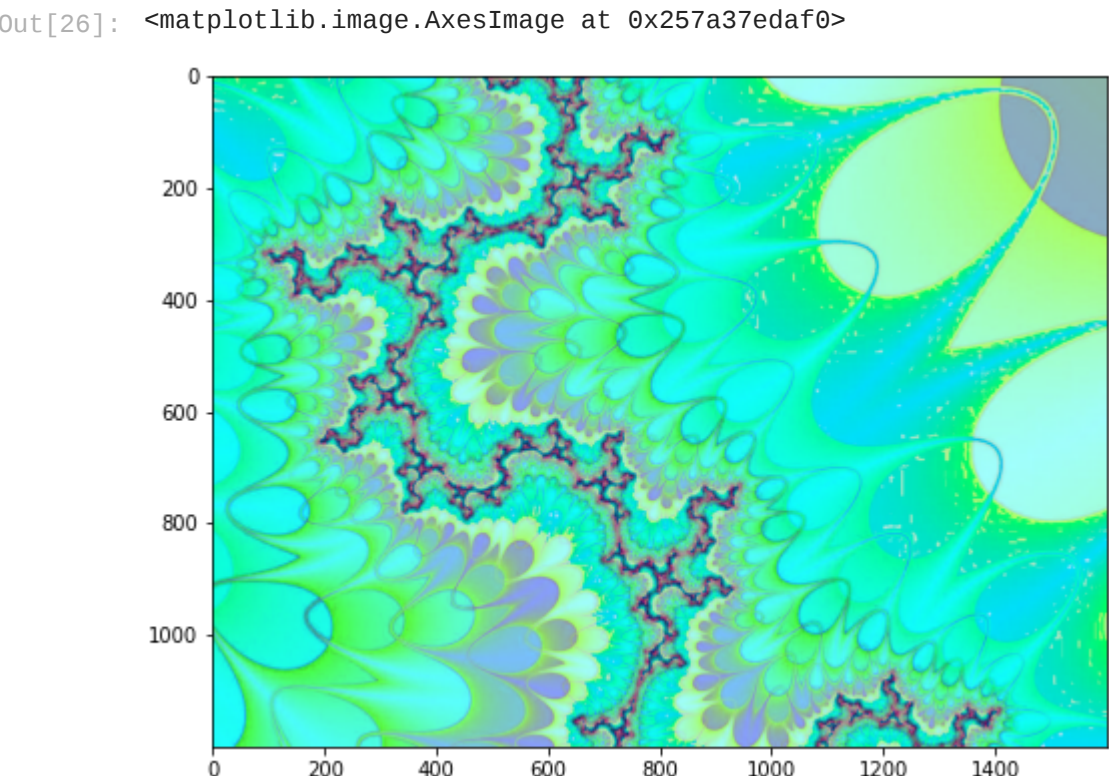
```
In [24]: plt.figure(figsize=(8,8))
plt.imshow(RGB)
```



Convert image in RGB to HSV format

```
In [25]: HSV=cv2.cvtColor(RGB,cv2.COLOR_RGB2HSV)
```

```
In [26]: plt.figure(figsize=(8,8))
plt.imshow(HSV)
```

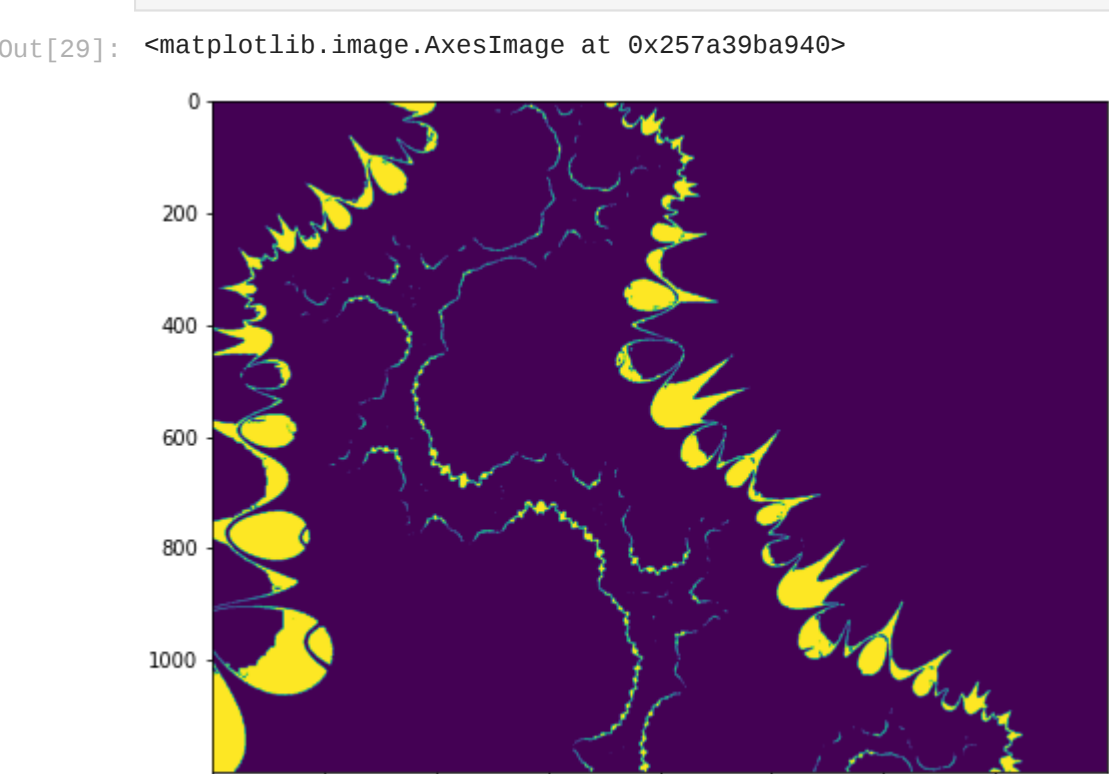


To detect yellow color

```
In [27]: lower=np.array([25,150,50])
upper=np.array([35,255,255])
```

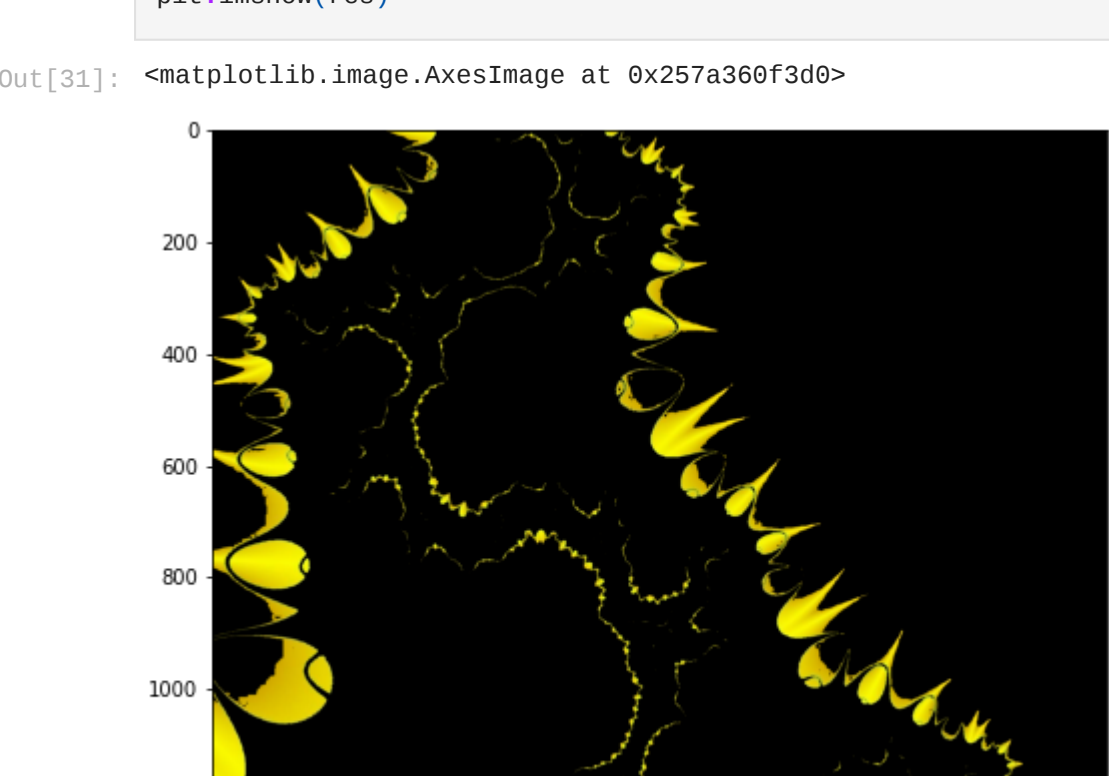
```
In [28]: mask=cv2.inRange(HSV, lower, upper)
```

```
In [29]: plt.figure(figsize=(8,8))
plt.imshow(mask)
```



```
In [30]: res=cv2.bitwise_and(RGB, RGB, mask=mask)
```

```
In [31]: plt.figure(figsize=(8,8))
plt.imshow(res)
```



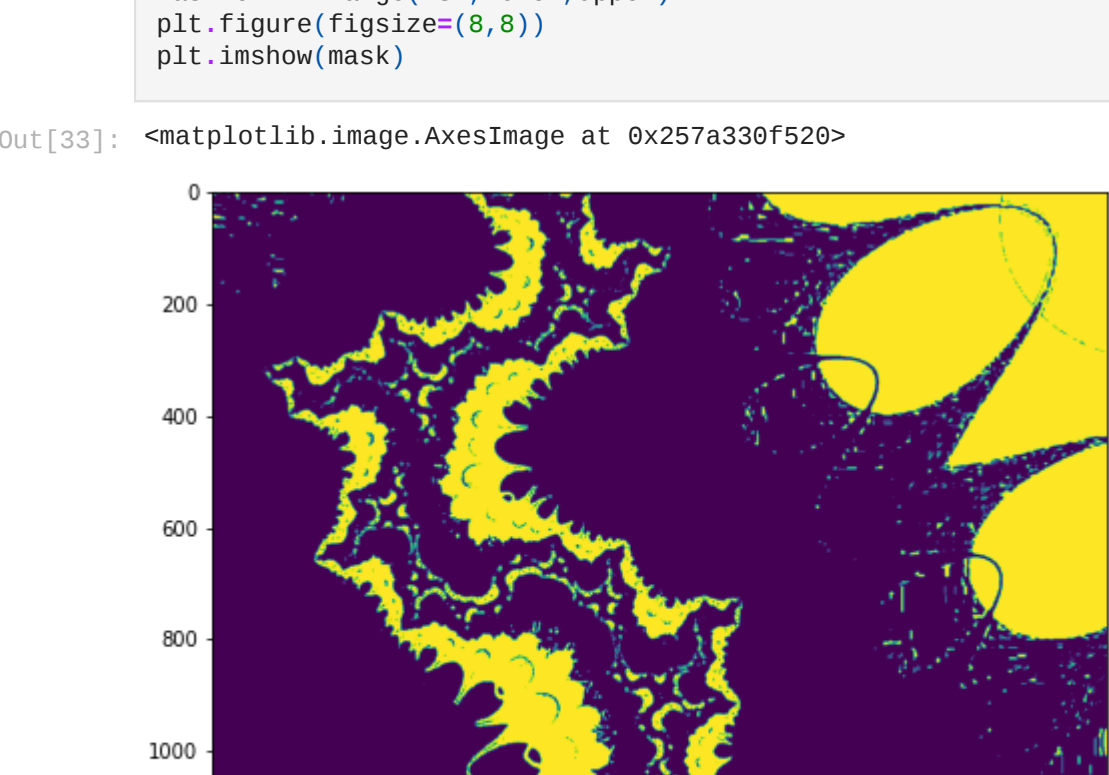
```
In [ ]:
```

TRIAL

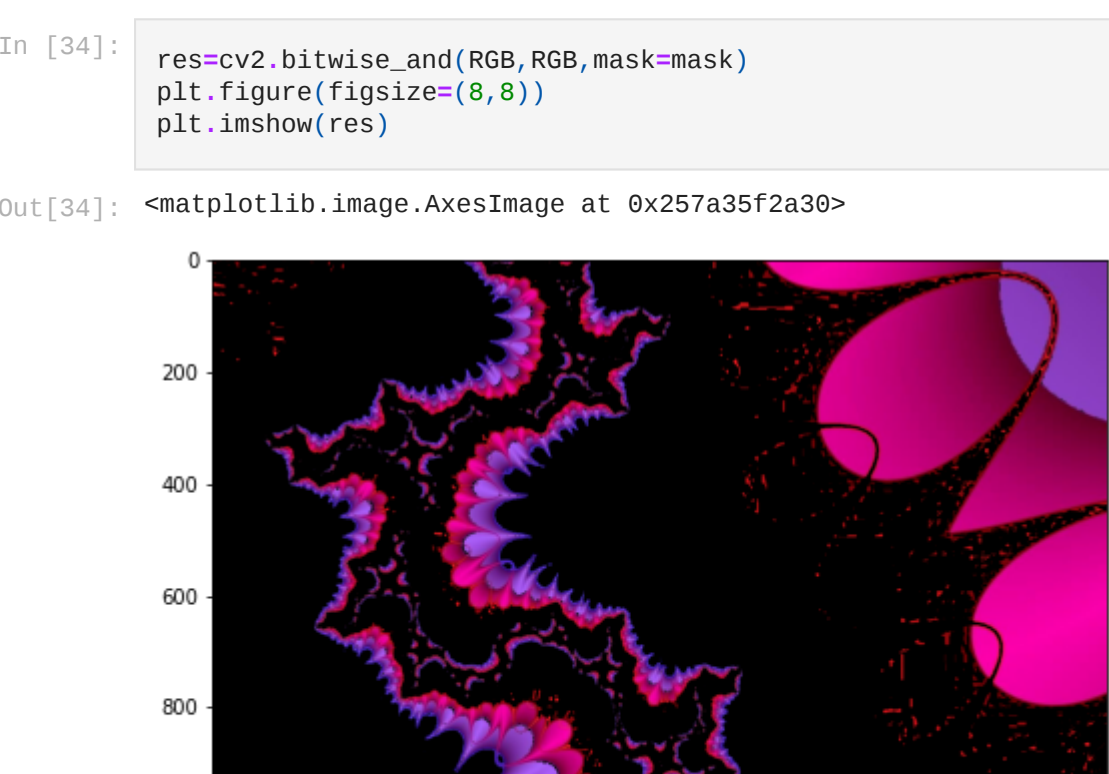
To detect pink color

```
In [32]: lower=np.array([125,150,50])
upper=np.array([255,255,255])
```

```
In [33]: mask=cv2.inRange(HSV, lower, upper)
plt.figure(figsize=(8,8))
plt.imshow(mask)
```



```
In [34]: res=cv2.bitwise_and(RGB, RGB, mask=mask)
plt.figure(figsize=(8,8))
plt.imshow(res)
```



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In [ ]:
```

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In [ ]:
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