

In [1]:

```
import cv2
from IPython.display import Image, display
from ipywidgets import interact, widgets
import numpy as np

img = cv2.imread("p.png")
img = cv2.cvtColor(img, cv2.COLOR_BGR2HSV)
num_channels = 1 if img.ndim == 2 else img.shape[2]
parts = {}

def imshow(img):
    ret, encoded=cv2.imencode(".png",img)
    display(Image(encoded))

def inRange(**kwargs):
    lower = tuple([int(l) for l, h in kwargs.values()])
    upper = tuple([int(h) for l, h in kwargs.values()])
    binary = cv2.inRange(img, lowerb=lower, upperb=upper)
    imshow(binary)

for i in range(num_channels):
    slider = widgets.SelectionRangeSlider(options=np.arange(256),index=(0, 255), description=f"channel {i}")
    slider.layout.width = "400px"
    parts[f"channel{i}"] = slider

interact(inRange, **parts)
```

channel 0 ☐

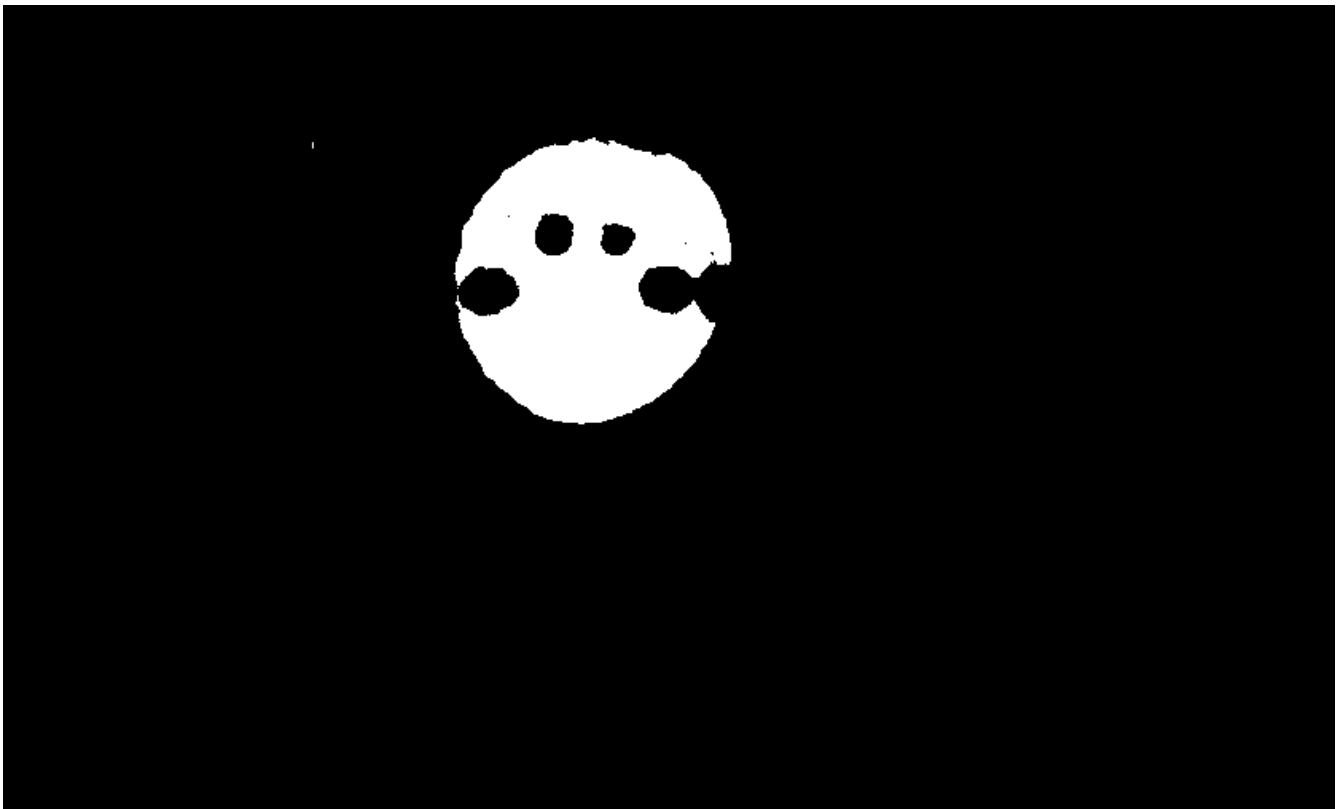
☐ 0-255

channel 1 ☒

☐ 139-255

channel 2 ☐

☐ 0-255



Out[1]: <function __main__.inRange(**kwargs)>

In []:

