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→ THE SPARKS FOUNDATION INTERNSHIP

(IoT and Computer Vision)

→ OBJECT DETECTION USING OPEN CV

First import all libraries

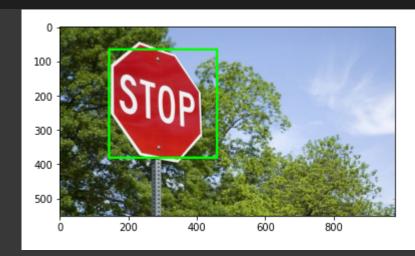
```
import.cv2
from.matplotlib.import.pyplot.as.plt

#.Opening.image
img.=.cv2.imread("/content/image.jpg")
#.OpenCV.opens.images.as.BRG
#.but.we.want.it.as.RGB.and
#.we.also.need.a.grayscale
#.version
img_gray.=.cv2.cvtColor(img,.cv2.COLOR_BGR2GRAY)
img_rgb.=.cv2.cvtColor(img,.cv2.COLOR_BGR2GRAY)
img_rgb.=.cv2.cvtColor(img,.cv2.COLOR_BGR2RGB)

#.Creates.the.environment
#.of.the.picture.and.shows.it
plt.subplot(1,.1,.1)
plt.imshow(img_rgb)
plt.show()
```

```
100 -
200 -
300 -
400 -
500 -
0 200 400 600 800
```

```
import cv2
from matplotlib import pyplot as plt
# Opening image
img = cv2.imread("/content/image.jpg")
# OpenCV opens images as BRG
# but we want it as RGB We'll
# also need a grayscale version
img_gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
img_rgb = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
# Use minSize because for not
# bothering with extra-small
# dots that would look like STOP signs
stop_data = cv2.CascadeClassifier('/content/stop_data.xml')
found = stop_data.detectMultiScale(img_gray,
               minSize =(20, 20)
# Don't do anything if there's
# no sign
amount_found = len(found)
if amount_found != 0:
```



Thanks For Watching

