test

July 19, 2021

[52]:
```
import cv2
import numpy as np


# Set threshold level


#image = [coords[0][0]:coords[0][1],coords[-1][0]:coords[-1][1]]
```

[54]:
```
image = cv2.imread('test.jpg')
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
```

[55]:
```
threshold_level = 55

# Find coordinates of all pixels below threshold
coords = np.column_stack(np.where(gray < threshold_level))
```

[56]:
```
coords
```

[56]:
```
array([[333, 448],
       [334, 146],
       [334, 147],
       …,
       [673, 448],
       [673, 449],
       [673, 450]])
```

[57]:
```
x1,y1=coords[1]
x2,y2= coords[-1]
x1,y1,x2,y2
```

[57]:
```
(334, 146, 673, 450)
```

[59]:
```
print(coords)

# Create mask of all pixels lower than threshold level
mask = gray < threshold_level
```

```
# Color the pixels in the mask
#image[mask] = (204, 119, 250)
```

```
[[333 448]
 [334 146]
 [334 147]
 …
 [673 448]
 [673 449]
 [673 450]]
```

[ ]:

[60]:
```
cropped_image = image[x1:x2, y1:y2]
```

[61]:
```
cv2.imshow('image', cropped_image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

[ ]: