Thresholding OpenCV Python Tutorial

In [ ]:

```
import cv2
import numpy as np

img = cv2.imread('./bookpage.jpg')
retval, threshold = cv2.threshold(img, 12, 255, cv2.THRESH_BINARY)
cv2.imshow('original',img)
cv2.imshow('threshold',threshold)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

grayscale the image, and then do a threshold

In [ ]:

```
import cv2
import numpy as np

grayscaled = cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
retval, threshold = cv2.threshold(grayscaled, 10, 255, cv2.THRESH_BINARY)
cv2.imshow('original',img)
cv2.imshow('threshold',threshold)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Adaptive / Gaussion threshold

In [ ]:

```
import cv2
import numpy as np

img = cv2.imread('./bookpage.jpg')
grayscaled = cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
gaus = cv2.adaptiveThreshold(grayscaled, 255, cv2.ADAPTIVE_THRESH_GAUSSIAN_C, cv2.THRESH_
BINARY, 115, 1)
cv2.imshow('original',img)
cv2.imshow('threshold',threshold)
cv2.imshow('Adaptive threshold',gaus)
#cv2.imshow('threshold2',threshold2)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Otsu's threshold

In [ ]:

```
retval2,threshold2 = cv2.threshold(grayscaled,125,255,cv2.THRESH_BINARY+cv2.THRESH_OTSU)
cv2.imshow('original',img)
cv2.imshow('Otsu threshold',threshold2)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

In [ ]:

```

```