

Visión Artificial

“Practica 5”



Nombre:	Raul Rodriguez Valencia	Registro:	19110337
Fecha:	15/Mayo/2022	Materia:	VA
Grupo:	7E1	Semestre:	5

Umbrales

```
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()

#-----

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()

#-----

th = cv2.adaptiveThreshold(grayscaled, 255, cv2.ADAPTIVE_THRESH_GAUSSIAN_C,
cv2.THRESH_BINARY, 115, 1)

cv2.imshow('original',img)
```

```
cv2.imshow('Adaptive threshold',th)
```

```
cv2.waitKey(0)
```

```
cv2.destroyAllWindows()
```

```
#-----
```

```
th = cv2.adaptiveThreshold(grayscaled, 255, cv2.ADAPTIVE_THRESH_GAUSSIAN_C,  
cv2.THRESH_BINARY, 115, 1)
```

```
cv2.imshow('original',img)
```

```
cv2.imshow('Adaptive threshold',th)
```

```
cv2.waitKey(0)
```

```
cv2.destroyAllWindows()
```

```
#-----
```

```
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()
```



