thresh

January 31, 2024

[ ]:
```
import cv2 as cv
```

[ ]:
```
img = cv.imread('Images/cat.jpg')
```

[ ]:
```
cv.imshow('Cat', img)
```

Convert to grayscale

[ ]:
```
gray = cv.cvtColor(img, cv.COLOR_BGR2GRAY)
cv.imshow('Gray', gray)
```

Simple Thresholding

[ ]:
```
threshold, thresh = cv.threshold(gray, 150, 255, cv.THRESH_BINARY) # 150 is the␣
 ↪threshold
cv.imshow('Simple Thresholded', thresh)
```

[ ]:
```
threshold, thresh_inv = cv.threshold(gray, 150, 255, cv.THRESH_BINARY_INV) #␣
 ↪150 is the threshold
cv.imshow('Simple Thresholded Inverse', thresh_inv)
```

Adaptive Thresholding

[ ]:
```
adaptive_thresh = cv.adaptiveThreshold(gray, 255, cv.ADAPTIVE_THRESH_MEAN_C, cv.
 ↪THRESH_BINARY, 11, 3)# 255 = max value, 11 = block size, 3 = C value, You␣
 ↪can play with these two last parameters
cv.imshow('Adaptive Thresholding', adaptive_thresh)
```

[ ]:
```
adaptive_thresh_inv = cv.adaptiveThreshold(gray, 255, cv.
 ↪ADAPTIVE_THRESH_MEAN_C, cv.THRESH_BINARY_INV, 11, 3)# 255 = max value, 11 =␣
 ↪block size, 3 = C value, You can play with these two last parameters
cv.imshow('Adaptive Thresholding Inverse', adaptive_thresh_inv)
```

[ ]:
```
cv.waitKey(0)
```