basic

January 31, 2024

```python
import cv2 as cv
```

```python
img =  cv.imread('Images/cat.jpg')
```

```python
cv.imshow('Cat', img)
```

Convert to grayscale

```python
gray = cv.cvtColor(img, cv.COLOR_BGR2GRAY)
cv.imshow('Gray', gray)
```

Blur

```python
blur = cv.GaussianBlur(img, (3,3), cv.BORDER_DEFAULT)# (3,3) = kernel if we
  increase it it will blur more like (5,5)
cv.imshow('Blur', blur)
```

Edge Cascade

```python
canny = cv.Canny(blur, 125, 175)
cv.imshow('Canny', canny)
```

Dilating the image

```python
dilated = cv.dilate(canny, (3,3), iterations=1)
cv.imshow('Dilated', dilated)
```

Eroding

```python
eroded = cv.erode(dilated, (3,3), iterations=1)
cv.imshow('Eroded', eroded)
```

Resize

```python
resized = cv.resize(img, (500,500), interpolation=cv.INTER_CUBIC)
cv.imshow('Resized', resized)
```

Cropping

```
cropped = img[50:200, 200:400]
cv.imshow('Cropped', cropped)
```

```
cv.waitKey(0)
```