Script to flipbook

October 21, 2022

1 FLIPBOOK

Script para crear un flipbook

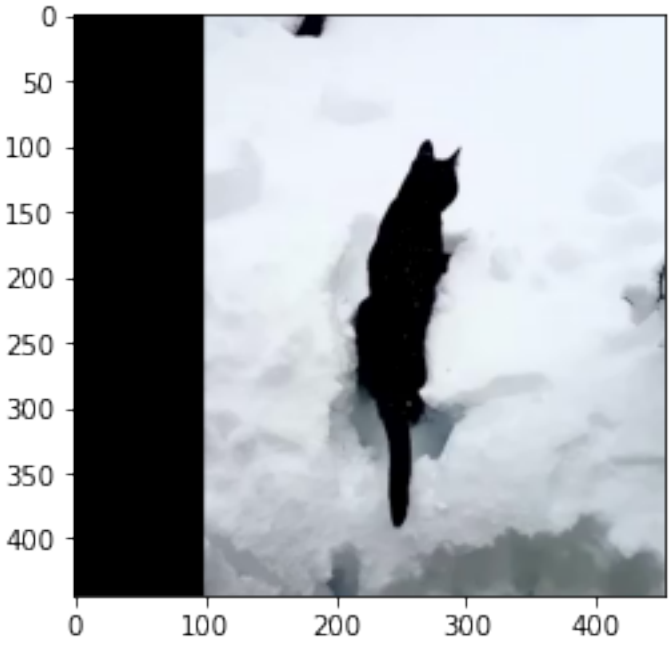
[87]:
```
import cv2
import matplotlib.pyplot as plt
import matplotlib.image as mpimg
import matplotlib.patches as patches
import numpy as np
import os
import re
import glob
import math
```

[94]:
```
# Importe su video
os.chdir('/Users/juliag.dealedo/OneDrive - UAM/Ocio/FlipBook python')
cap=cv2.VideoCapture("Sin título.mov")
```

[95]:
```
# Extraiga los fotogramas
i= 1
frames = []
while(cap.isOpened()):
    ret, frame = cap.read()
    if ret == False:
        break
    frames.append(frame)
```

[96]:
```
# Vire a ver que todo funcione
imgplot = plt.imshow(frames[0])
plt.axis('off')
plt.show()
```

[97]:
```
# Padding con OpenCV
PADDING_SIZE = 100
img = cv2.copyMakeBorder(frames[1], 0, 0, PADDING_SIZE, 0, cv2.BORDER_CONSTANT)
imgplot = plt.imshow(img[:,:,::-1]) # Ajustar color
```



[98]:
```
# Buclee su plot para que sus fotos quepan en un A4
w = 10
h = 10
columns = 3
rows = 6
ax = 0

nPages = math.ceil(len(frames)/18)

for j in range(0, nPages):

    fig = plt.figure(figsize=(8.3, 11.7)) # en inches

    for i in range(0, 18):
        if i+j*18 >= len(frames):
            break
        img = cv2.copyMakeBorder(frames[i+j*18], 0, 0, 100, 0, cv2.
 ↪BORDER_CONSTANT)
        fig.add_subplot(rows, columns, i+1)
        plt.imshow(img[:,:,::-1])
        plt.axis('off')

    plt.savefig(f"test_2-{j}.png")
```