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PersonCountpy - CAUsers\srina\OneDrive\Desktop\Pn
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##Contador de personas
##Federico Mejia
import numpy as np
import cv2
Import Person
import time
import pyttsx3
import requests
import rime
import sys
##Import ibmiorf.application
import andom
organization = "Tai9le"
deviceType = "device"
deviceType = "device"
deviceType = "device"
deviceType = "device"
authMethod = "12345"
authMethod = "12345670"
engine.say('Hello')
engine.say('Hello')
engine.runAndWait()
##Contadores de entrada y salida
#Contadores de entrada y salida
cnt_up = 0
cnt_down = 0
#Fuente de video
#cap = cv2.VideoCapture(0)
#cap = cv2.VideoCapture('people.mp4')
#Propiedades del video
##cap.set(3,160) #Width
##cap.set(4,120) #Height
#Imprime las propiedades de captura a consola

cap = cv2.VideoCapture('people.mp#')

#cap = cv2.VideoCapture(0)

for i in range(19):

    print (i, cap.get(i))
print (i, cap.get(i))
w = cap.get(3)
h = cap.get(4)
frameArea - h*w
areaTH = frameArea/250
print ('Area Threshold', areaTH)
```

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Point ('Area Threshold', areaTh)

Hines de entraid/amids

line up = int(2'(h/5))

up linit = int(2'(h/5))

up linit = int(4'(h/5))

up linit = int(4'(h/5))

print ('Red line y:', str(line down))

print ('Red line y:', str(line up))

line down color = (25, 0,0)

line up color = (05, 25)

print ('Red line y:', str(line up))

line down color = (25, 0,0)

line up color = (05, 25)

print ('Red line y:', str(line up))

print ('Red line up)

print ('Red line up)

print ('Red line up)

print ('Red line up)

print ('Red line up
```

Ln: 1 Col: 0

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data = { 'UP' : cnt up, 'down': cnt down}

#print data

def myOnPublishCallback():
       print ("Published Up People Count = %s" % str(cnt_up), "Down People Count = %s " % str(cnt_down), "to IBM Watson")
    success = deviceCli.publishEvent("PeopleCounter", "json", data, qos=0, on_publish=myOnPublishCallback)
if not success:
   print("Not connected to IoTF")
    deviceCli.disconnect()
def ibmstart(cnt_up,cnt_down):
    try:
             deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken deviceCli = ibmiotr.device.Client(deviceOptions)
             print(type(deviceCli))
#.....
   except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()
deviceCli.connect()
ibmwork(cnt_up,cnt_down,deviceCli)
for i in persons:
    #Aplica substraction de fondo
fgmask = fgbg.apply(frame)
fgmask2 = fgbg.apply(frame)
    #Binariazcion para eliminar sombras (color gris)
                                                                                                                                                                                               Ln:1 Col:0
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#Binariazcion para eliminar sombras (color gris)
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```
break
if i.getState() == '1':
    if i.getDir() == 'down' and i.getY() > down_limit:
        i.setDone()
    elif i.getDir() == 'up' and i.getY() < up_limit:
        i.setDone()
if i.timedOut():
    fsacar i de la lista persons
    index = persons.index(i)
</pre>
                       cv2.circle(frame, (cx,cy), 5, (0,0,255), -1)
img = cv2.rectangle(frame, (x,y), (x+w,y+h), (0,255,0),2)
fcv2.drawContours(frame, cnt, -1, (0,255,0), 3)
#END for cnt in contours0
****************
for i in persons:
    if len(i.getTracks()) >= 2:
        pts = np.array(i.getTracks(), np.int32)
        pts = pts.reshape((-1,1,2))
        frame = cv2.polylines(frame, [pts], False, i.getRGB())
    if i.getId() == 9:
        print str(i.getX()), ',', str(i.getY())
    cv2.putText(frame, str(i.getId()),(i.getX(),i.getY()),font,0.3,i.getRGB(),1,cv2.LINE AA)
                                                                                                                                                                                                                                                                                                                    Ln: 1 Col: 0
```

Ln: 255 Col: 1

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