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# coding: utf-8
# In[]:
import cv2
import numpy as np
camera=cv2.VideoCapture(0)
while(True):
  ret, img = camera.read()
  hsv=cv2.cvtColor(img,cv2.COLOR_BGR2HSV)
  red lower=np.array([136,87,111],np.uint8)
  red_upper=np.array([180,255,255],np.uint8)
  blue lower=np.array([99,115,150],np.uint8)
  blue_upper=np.array([110,255,255],np.uint8)
  yellow_lower=np.array([22,60,200],np.uint8)
  yellow upper=np.array([60,255,255],np.uint8)
  red=cv2.inRange(hsv, red_lower, red_upper)
  blue=cv2.inRange(hsv,blue lower,blue upper)
  yellow=cv2.inRange(hsv,yellow lower,yellow upper)
  kernal = np.ones((5,5), "uint8")
  red=cv2.dilate(red, kernal)
  res=cv2.bitwise and(img, img, mask = red)
  blue=cv2.dilate(blue,kernal)
  res1=cv2.bitwise and(img, img, mask = blue)
  yellow=cv2.dilate(yellow,kernal)
  res2=cv2.bitwise and(img, img, mask = yellow)
(ret,contours,hierarchy)=cv2.findContours(red,cv2.RETR_TREE,cv2.CHAIN_APPROX_SIMPLE)
  for pic, contour in enumerate(contours):
    area = cv2.contourArea(contour)
    if(area>300):
       x,y,w,h = cv2.boundingRect(contour)
       img = cv2.rectangle(img,(x,y),(x+w,y+h),(0,0,255),2)
       cv2.putText(img,"RED",(x,y),cv2.FONT_HERSHEY_SIMPLEX, 0.7, (0,0,255))
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(ret,contours,hierarchy)=cv2.findContours(blue,cv2.RETR_TREE,cv2.CHAIN_APPROX_SIMPLE)
  for pic, contour in enumerate(contours):
    area = cv2.contourArea(contour)
    if(area>300):
      x,y,w,h = cv2.boundingRect(contour)
      img = cv2.rectangle(img,(x,y),(x+w,y+h),(255,0,0),2)
      cv2.putText(img,"Blue",(x,y),cv2.FONT_HERSHEY_SIMPLEX, 0.7, (255,0,0))
(ret,contours,hierarchy)=cv2.findContours(yellow,cv2.RETR_TREE,cv2.CHAIN_APPROX_SIMPLE)
  for pic, contour in enumerate(contours):
    area = cv2.contourArea(contour)
    if(area>300):
      x,y,w,h = cv2.boundingRect(contour)
      img = cv2.rectangle(img,(x,y),(x+w,y+h),(0,255,0),2)
      cv2.putText(img,"Yellow",(x,y),cv2.FONT_HERSHEY_SIMPLEX, 1.0, (0,255,0))
    cv2.imshow("Tracking",img)
    if cv2.waitKey(10) \& 0xFF == ord('q'):
      camera.release()
      cv2.destroyAllWindows()
       break
```