import numpy as np

import cv2

def resize(img):

return cv2.resize(img, (512, 512))

cap=cv2.VideoCapture("C:\\Users\\Windows 10\\Downloads\\ball.mp4")

#cap=cv2.VideoCapture(0)

ret,frame=cap.read()

l\_b=np.array([0,230,170])# lower hsv bound for red

u\_b=np.array([255,255,220])# upper hsv bound to red

while ret==True:

ret,frame=cap.read()

hsv=cv2.cvtColor(frame,cv2.COLOR\_BGR2HSV)

mask=cv2.inRange(hsv,l\_b,u\_b)

mask=resize(mask)

contours,\_= cv2.findContours(mask,cv2.RETR\_TREE,cv2.CHAIN\_APPROX\_SIMPLE)

max\_contour = contours[0]

for contour in contours:

if cv2.contourArea(contour)>cv2.contourArea(max\_contour):

max\_contour = contour

approx=cv2.approxPolyDP(contour, 0.01\*cv2.arcLength(contour,True),True)

x,y,w,h=cv2.boundingRect(approx)

cv2.rectangle(frame,(x,y),(x+w,y+h),(0,255,0),4)

cv2.imshow("frame",resize(frame))

cv2.imshow("mask",mask)

key=cv2.waitKey(1)

if key==ord('q'):

break

cap.release()

cv2.waitKey(0)

cv2.destroyAllWindows()