import cv2 as cv

import numpy as np

cam = cv.VideoCapture(0)

lower\_yellow = np.array([20,100,100])

upper\_yellow = np.array([40,255,255])

while(True):

ret, frame = cam.read()

image\_smooth = cv.GaussianBlur(frame,(7,7),0)

image\_hsv = cv.cvtColor(image\_smooth, cv.COLOR\_BGR2HSV)

image\_threshold = cv.inRange(image\_hsv, lower\_yellow, upper\_yellow)

contours, heirarchy = cv.findContours(image\_threshold, \

cv.RETR\_TREE, \

cv.CHAIN\_APPROX\_NONE)

if(len(contours)!=0):

areas = [cv.contourArea(c) for c in contours]

max\_index = np.argmax(areas)

cnt = contours[max\_index]

x\_bound, y\_bound, w\_bound, h\_bound = cv.boundingRect(cnt)

cv.rectangle(frame, (x\_bound, y\_bound), (x\_bound + w\_bound, y\_bound + h\_bound),(255,0,0),2)

cv.imshow('Frame',frame)

key = cv.waitKey(100)

if key == 27:

break

cam.release()

cv.destroyAllWindows()