CSI4133_Project_Part A Tracking Objects in Video

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For load three videos and write three output, use these three codes one by one

1. cap = cv2.VideoCapture('video1.avi')

   out = cv2.VideoWriter('output1.avi',fourcc, 30, (480,360))

2. cap = cv2.VideoCapture('video2.avi')

   out = cv2.VideoWriter('output2.avi',fourcc, 30, (480,360))

3. cap = cv2.VideoCapture('video3.avi')

   out = cv2.VideoWriter('output3.avi',fourcc, 30, (480,360))

Because the finger is always moving, it is not a standard rectangle, so it may be recognized as round.

The screenshot of outputs:

Red line for red on back of the hand
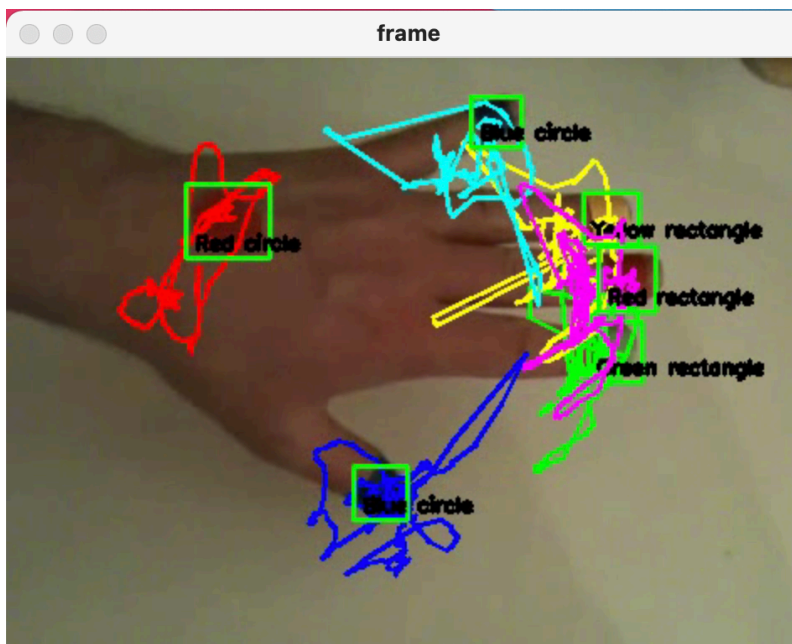
Dark blue line for blue on thumb

Green line for green on forefinger
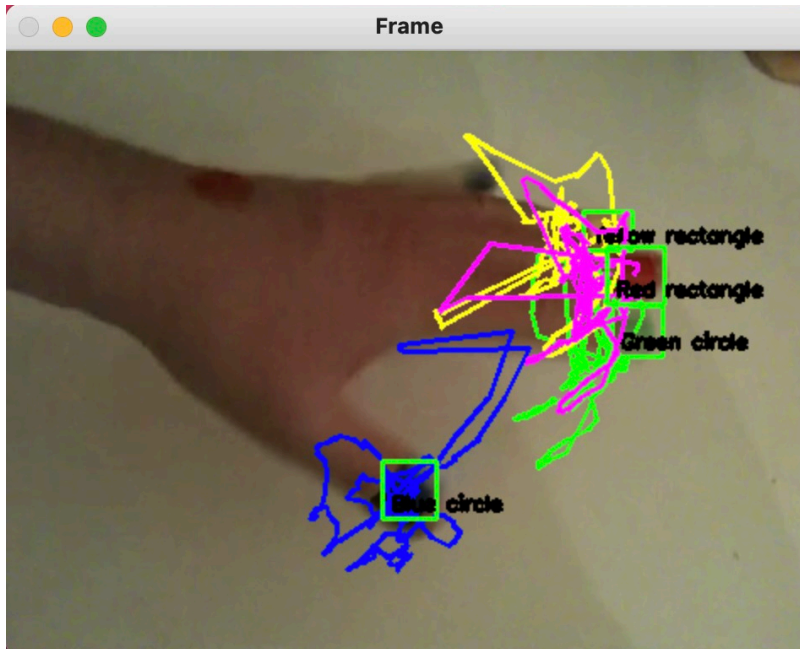
Purple line for red on middle finger

Yellow line for yellow on ring finger
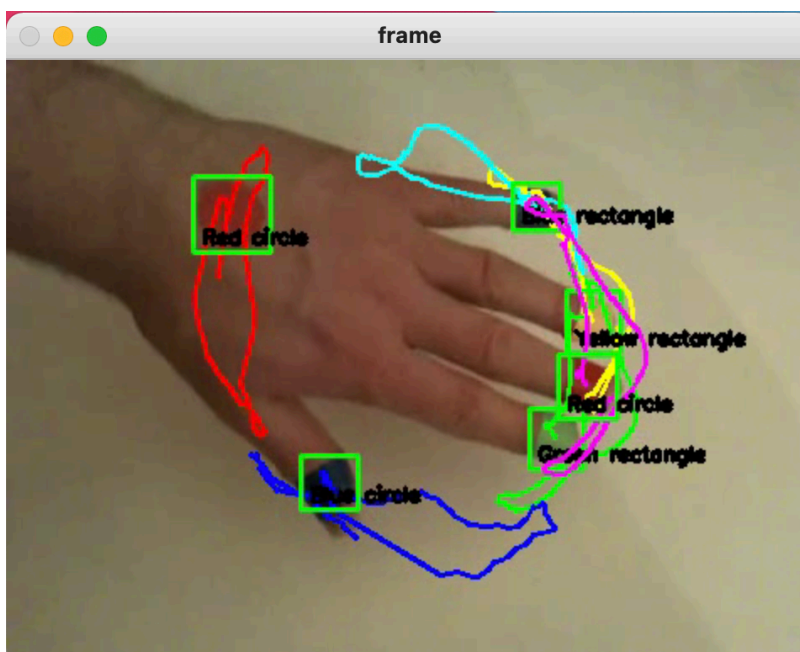
Light blue line for blue on little finger

Output1:

* In the first video, we must use if radius > 10: pts.appendleft(center) in points function, if

  don't set radius > 10, it will be:

(This is wrong)

Output2

Output3: