```
□def p(x,x2,y,y2):
     plt.plot([x,x2,x2,x,x],[y,y,y2,y2,y],'-o')
⊡def get_distance(x,x2,xp,xp2):
         a = np.min([x2,xp2]) - np.max([x,xp])
                                                                       20
         return a if a>0 else 0
□def calculate_iou(rect1,rect2):
                                                                       15
     x,y,w,h = rect1
     xp,yp,wp,hp = rect2
     x2 = x + w
     y2=y+h
                                                                       10
     xp2 = xp + wp
     yp2 = yp + hp
     s1 = h*w
     s2 = hp*wp
                                                                        5
     s = get_distance(x,x2,xp,xp2) * get_distance(y,y2,yp,yp2)
     su=s1+s2 - s
                                                                        0
     iou = s/su
                                                                                           0.2
                                                                           0.0
                                                                                   0.1
                                                                                                   0.3
                                                                                                          0.4
                                                                                                                  0.5
                                                                                                                          0.6
                                                                                                                                  0.7
     return iou
                    healthy
```