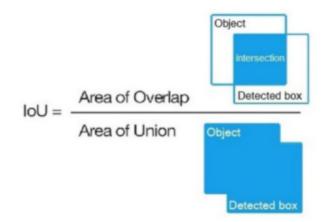
性能指标

平均精度 mean Average Precision (mAP) (AP)

$$mAP = \frac{1}{N} \sum_{i=1}^{N} AP_i$$

交并比 Intersection over Union (IoU)



真阳性 True Positive (TP)

假阳性 False Positive (FP)

假阴性 False Negatives (FN)

只要检测出来了,不管IoU,都是positive,大于IoU的才是True,小于IoU阈值的是False 没检测出来,就是Negatives,第二个框都没有,IoU就是0,所以是False

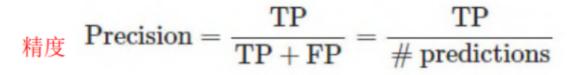
召回: 真实存在, 检测出来多少

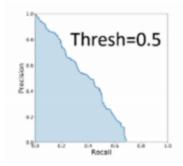
$$\frac{\text{TP}}{\text{TP} + \text{FN}} = \frac{\text{TP}}{\text{\# ground truths}}$$

精度: 所有检测出来的, 真实的多少

AP50 or AP0.5

APO. 50: 0. 55: 0. 95





精度召回曲线下的面积

$$mAP_{ ext{COCO}} = rac{mAP_{0.50} + mAP_{0.55} + \ldots + mAP_{0.95}}{10}$$

