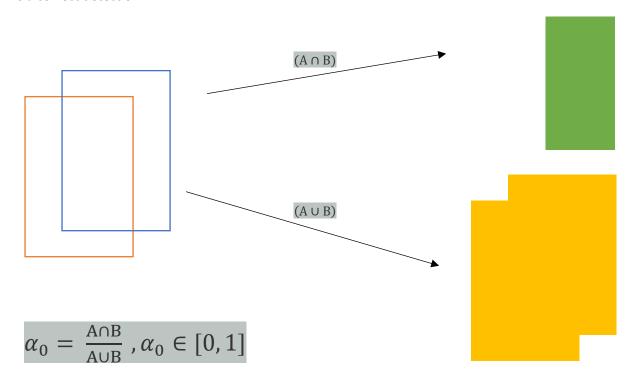
## Task 1

a)

Intersection over union is a way to decide if a predicted bounding box with an associated confidence is a correct detection.



b)

$$precision = \frac{correct\ predictions}{total\ predictions} = \frac{true\ positives}{true\ positives}$$
 $recall = \frac{correct\ predictions}{total\ wanted\ entries} = \frac{true\ positives}{true\ positives}$ 

A true positive is a correct prediction. A false positive is a false prediction.

average precision class 
$$1 = \frac{1+1+1+0.5+0.2}{5} = 0.74$$
  
average precision class  $2 = \frac{1+0.8+0.6+0.5+0.2}{5} = 0.62$   
mean average precision  $= \frac{0.74+0.62}{2} = 0.68$