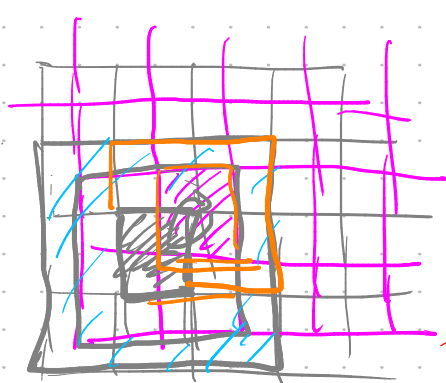
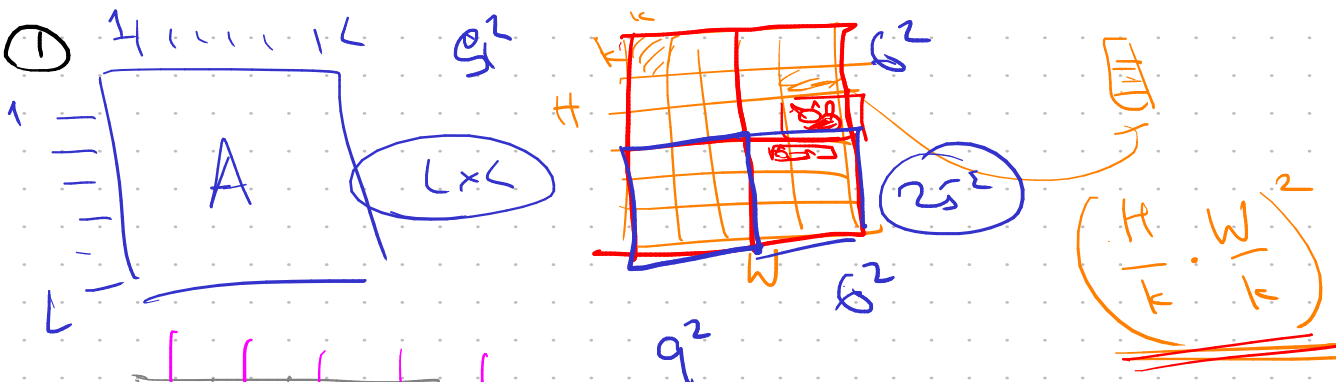
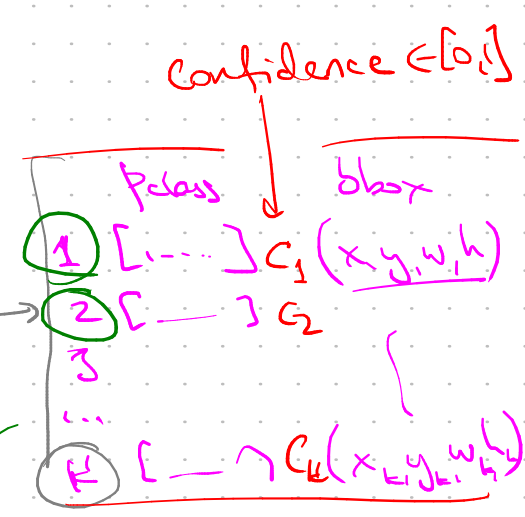
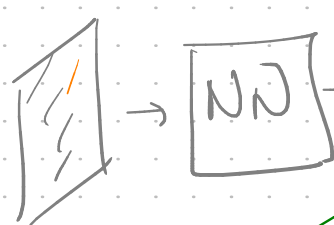
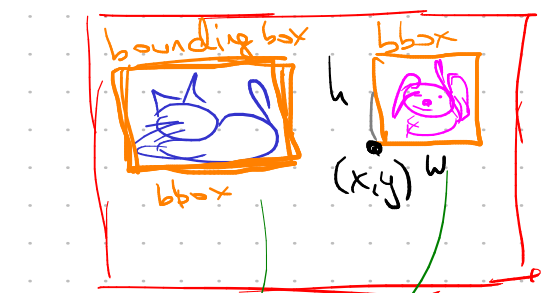




② Object detection



Assignment problem / Hungarian algorithm

0.6-0.7

$IoU = 0$

Loss := $L_{conf} + L_{class} \cdot [obj] + \frac{L_{bbbox} \cdot [obj]}{\text{Cross-entropy}}$

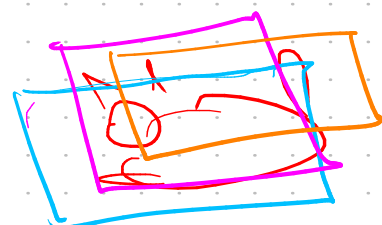
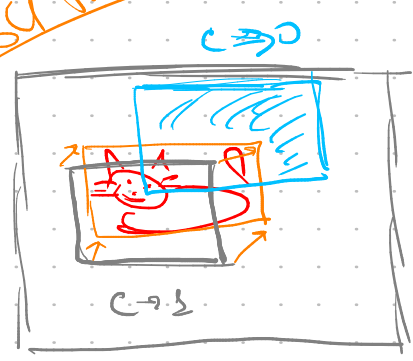
$\|x - \hat{x}\|^2 + \dots + \|h - \hat{h}\|^2$

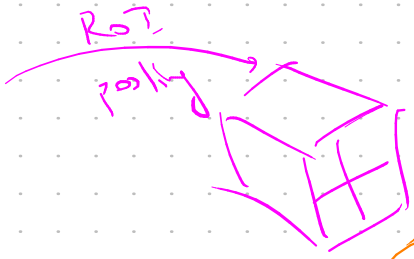
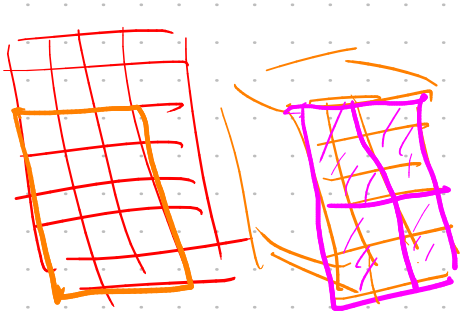
$1 - \dots - 1 + \dots + 1 - \dots$

$IoU(A, B) = \frac{|A \cap B|}{|A \cup B|}$

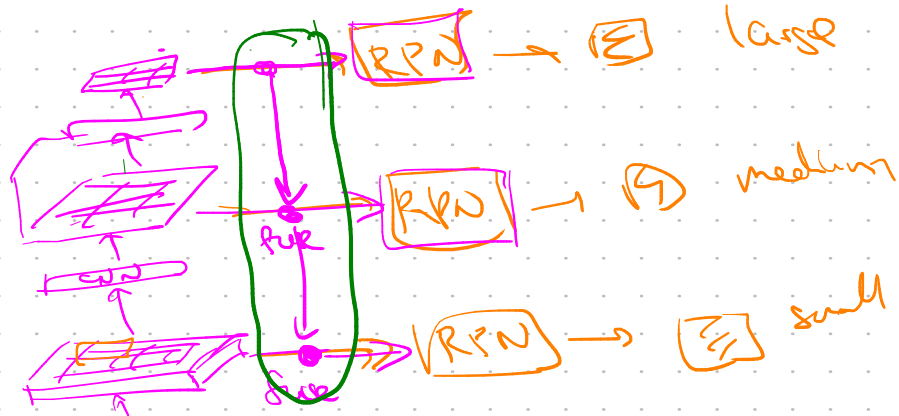
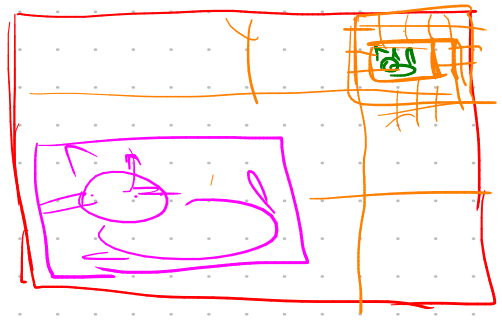
GIoU

IoU threshold





detection head



EfficientNet →

FPN feature pyramid

EfficientDet

