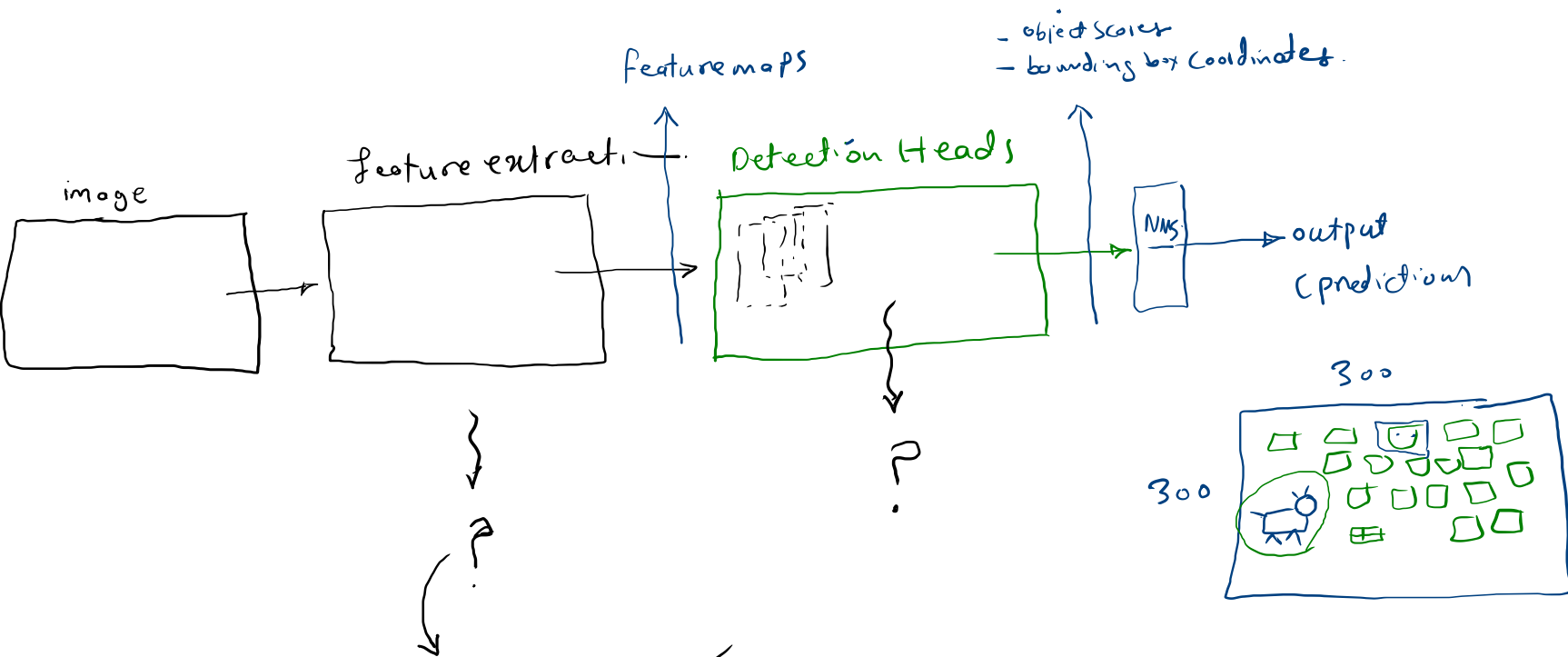


SSD

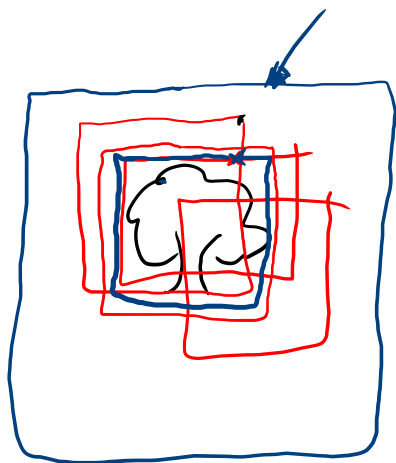
Single shot object Detector.



SSD می تواند حتی به چندین حسیله در تصویر، اعم شش سی سک !

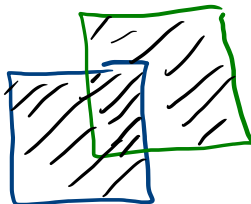
NMS

Non maxima Suppression
Maximum



$$IoU(I) = \frac{\text{truth} \cap \text{ground}}{\text{truth} \cup \text{ground}}$$

truth : الحقيقة
ground : التربة



\rightarrow RPN \rightarrow reg
object a \times back

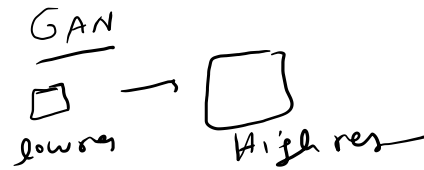
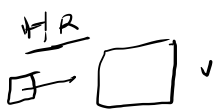
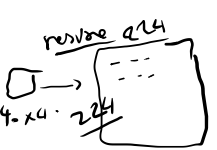
1 : 7

2 : 3

4 : 8

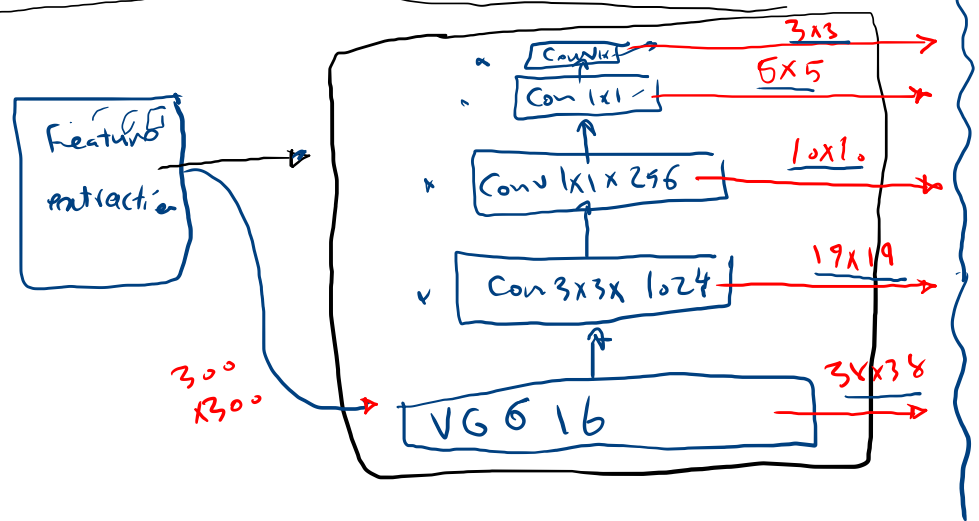
α کیوں؟ feature؟ استخراج کیسے؟

α Detection Head کیا ہے، کیسے، کیسے؟

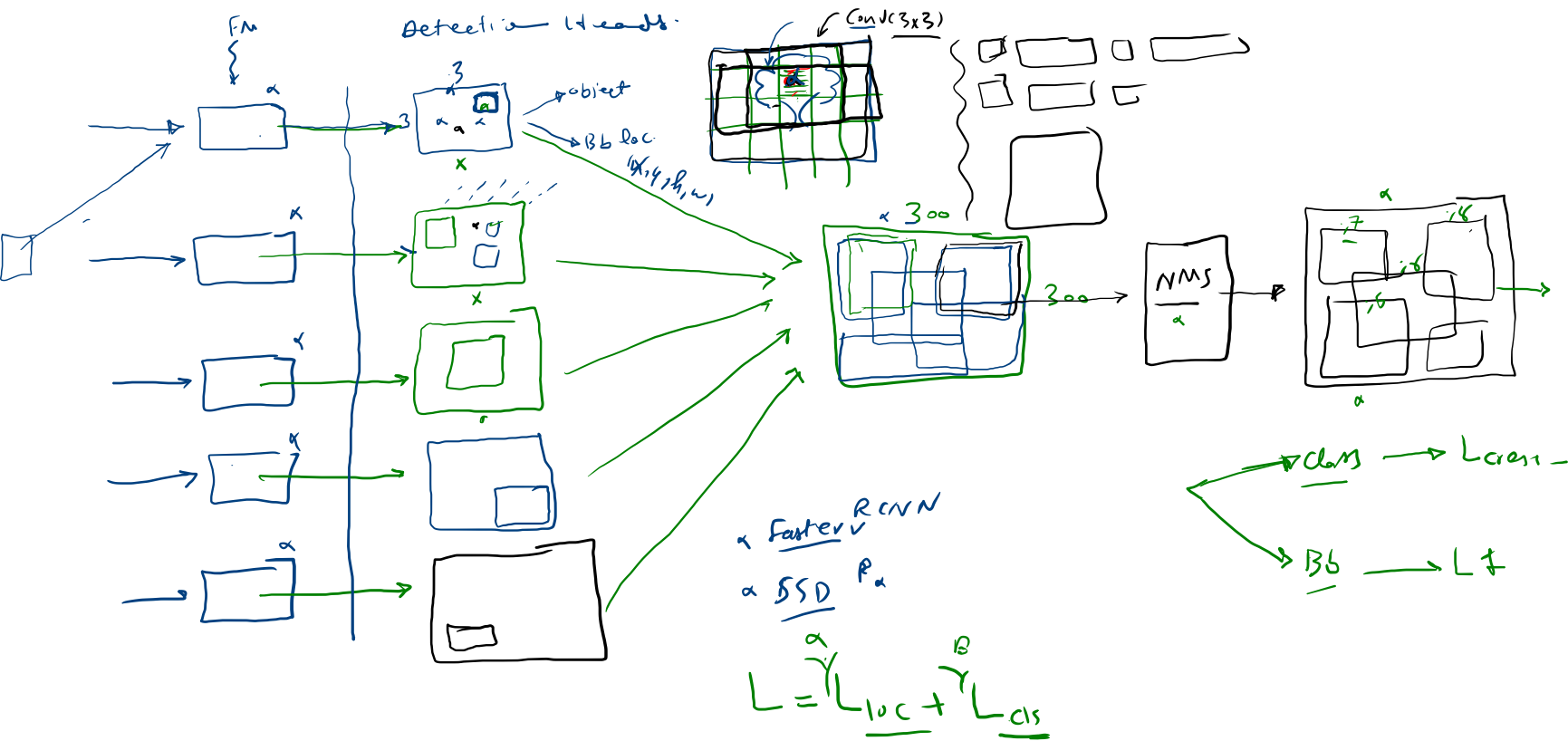


Feature map

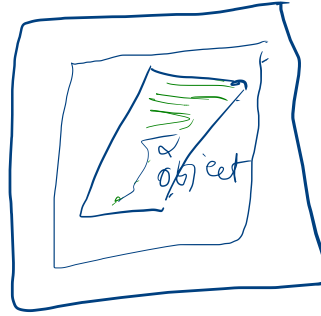
3x7

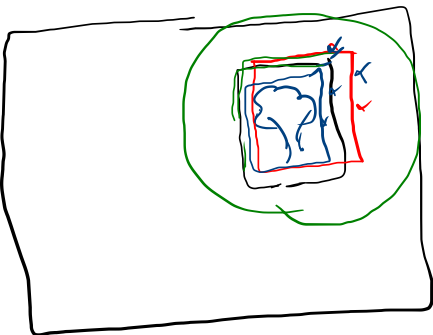


feature extractor



$$\frac{0 \text{ size}}{B \text{ size}} = \checkmark$$





NM* → Train

The End

