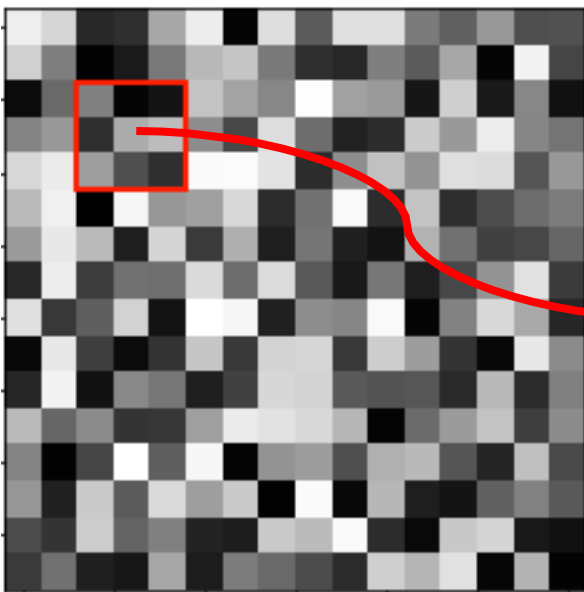
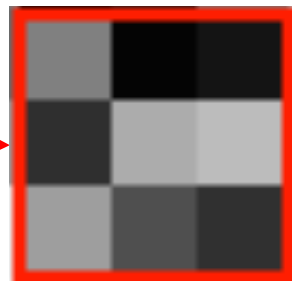


3x3 slidingwindow



512x3x3 feature map



**3x3 conv**

Output 512

**1x1conv  
Object**

Output 9x2

Output 9x4

**1x1conv  
Regre.**

Loss:

$$\frac{1}{N_{cls}} \sum_i L_{cls}(p_i, p_i^*)$$

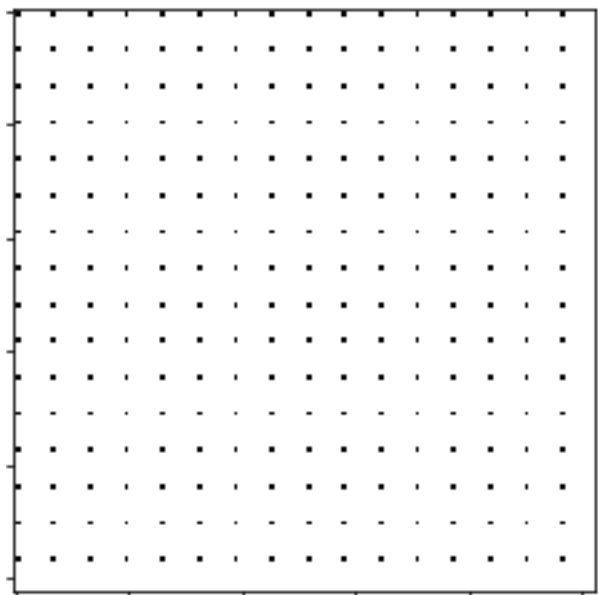
**16x16x9  
proposals**

Proposal:  
Objectscore  
Boundary box coord

Loss:

$$\lambda \frac{1}{N_{reg}} \sum_i p_i^* L_{reg}(t_i, t_i^*)$$

Anchor centers in image



Each anchor=  
**3 scales**  
Ex. 10, 30, 50  
**3 aspect ratios**  
Ex 1:1, 1:2, 2:1

Anchors in image for 1 center

