



**deeplearning.ai**

# Object Detection

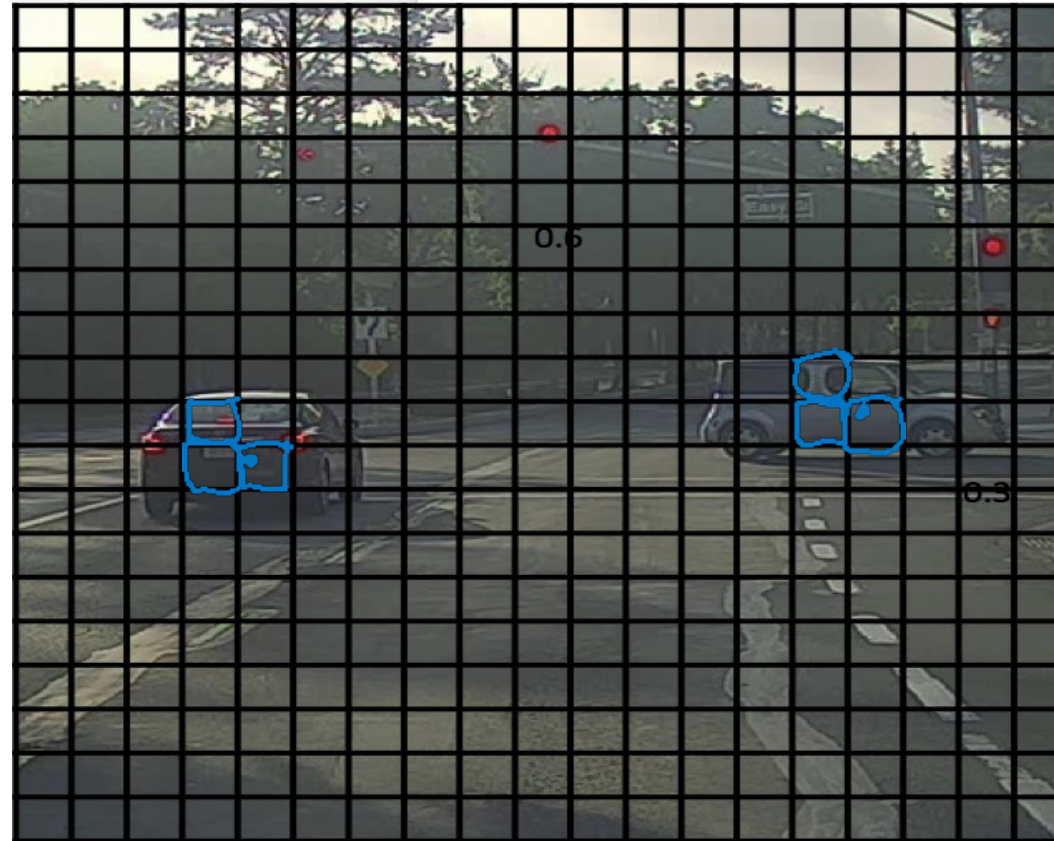
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Non-max  
suppression

# Non-max suppression example

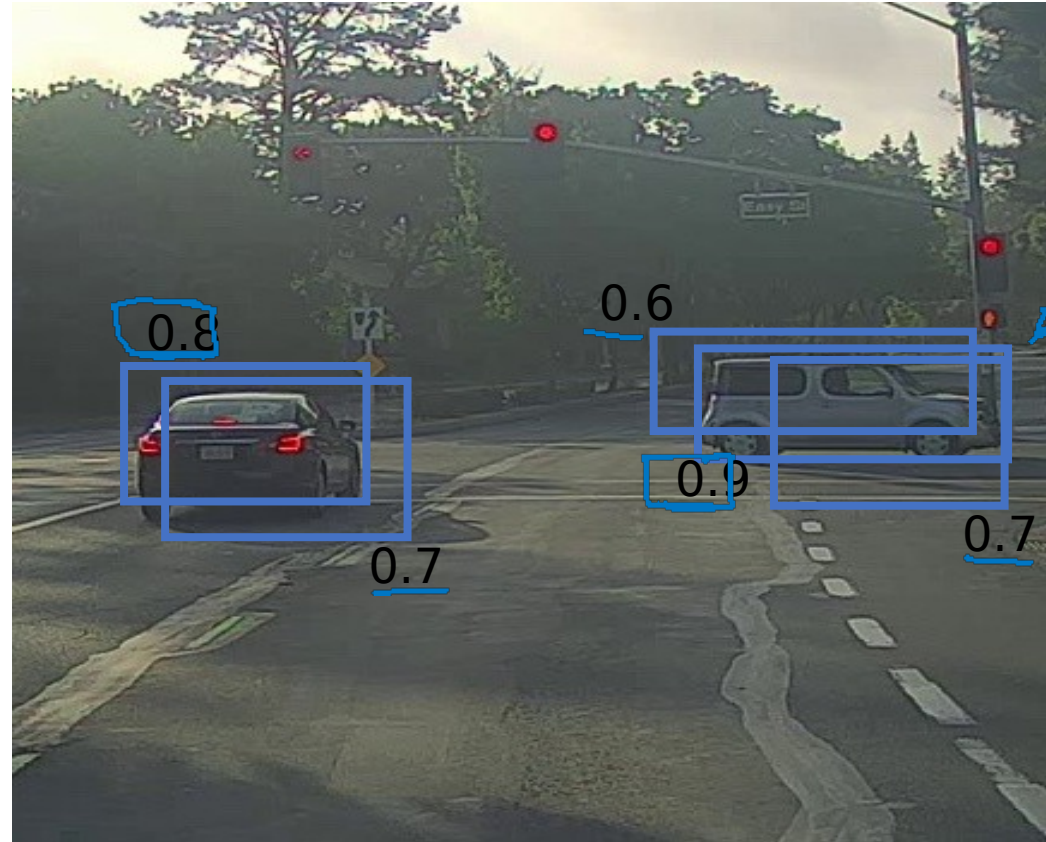


# Non-max suppression example



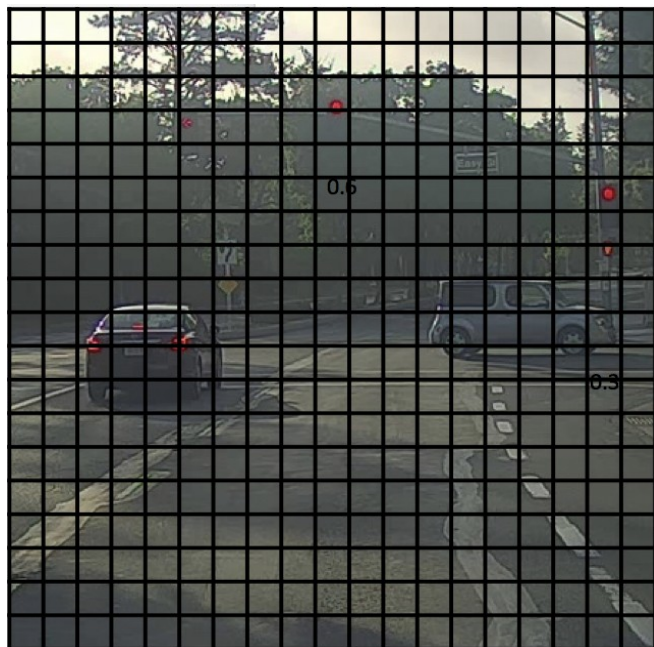
19x19

# Non-max suppression example



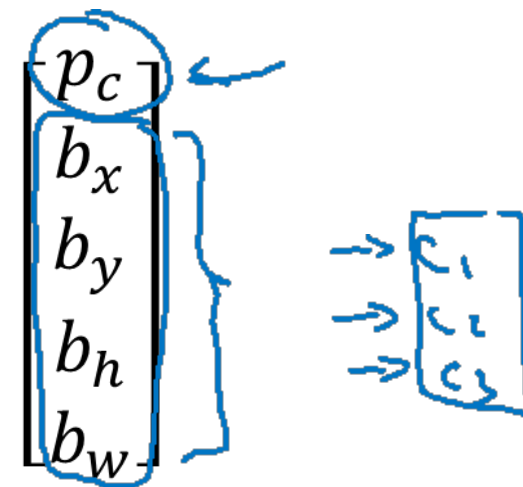
$P_c$

# Non-max suppression algorithm



19x19

Each output prediction is:



Discard all boxes with  $p_c \leq 0.6$

→ While there are any remaining boxes:

- Pick the box with the largest  $p_c$ .  
Output that as a prediction.
- Discard any remaining box with  $\text{IoU} \geq 0.5$  with the box output in the previous step.