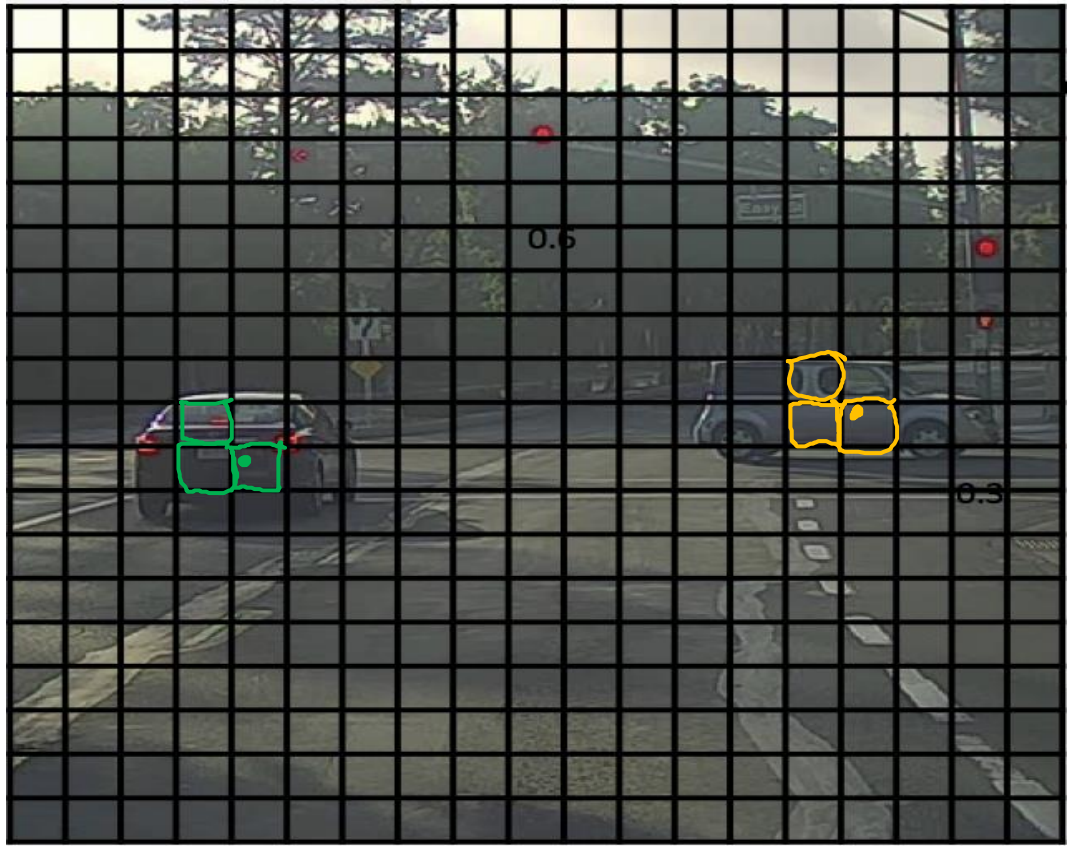
deeplearning.ai

Object Detection

Non-max suppression

Non-max suppression example

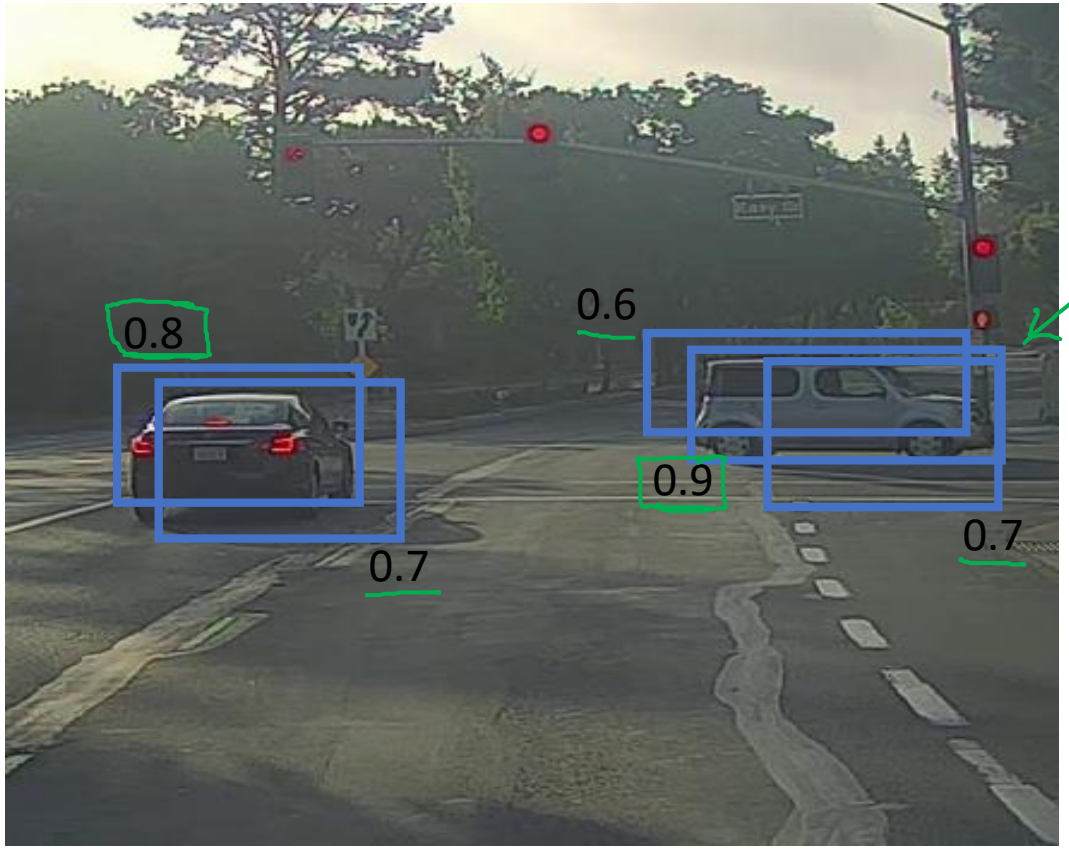
Non-max suppression example



19×19

Non-max suppression example

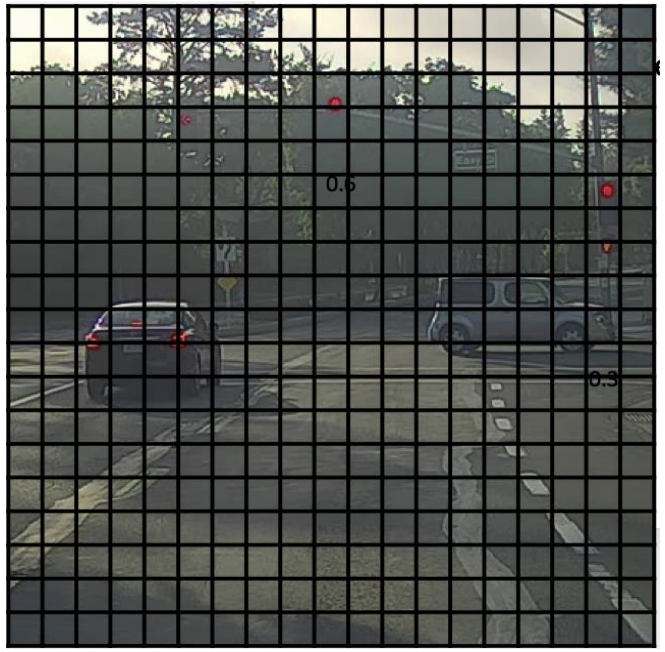
Keep the 0.8 box, remove the 0.7 box



P_c

Keep the 0.9 box, remove the 0.7 & 0.6 boxes

Non-max suppression algorithm



19× 19

Each output prediction is: $\begin{bmatrix} p_c \\ b_x \\ b_y \\ b_h \\ b_w \end{bmatrix}$

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 IoU ≥ 0.5 with the box output in the previous step