



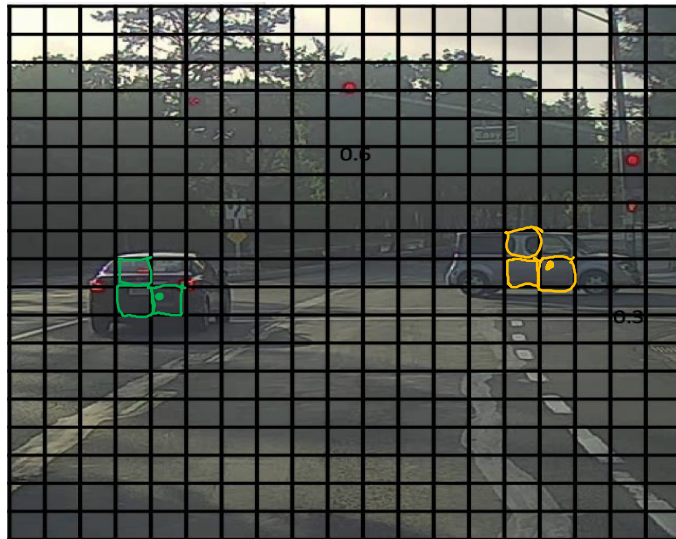
deeplearning.ai

Object Detection

Non-max suppression

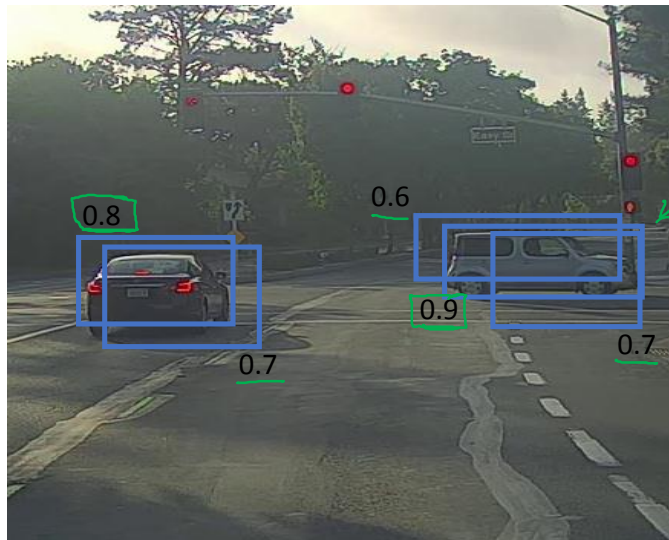
solve: your algorithm may find multiple detections of the same object

Non-max suppression example



19x19

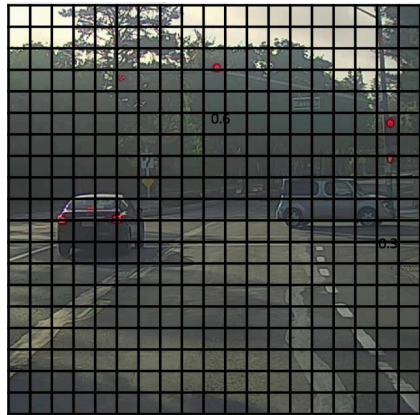
Non-max suppression example



P_c IOU

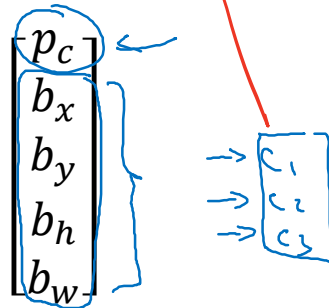
Non-max suppression algorithm

independently carry out non-max suppression three times



19 × 19

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