

deeplearning.ai

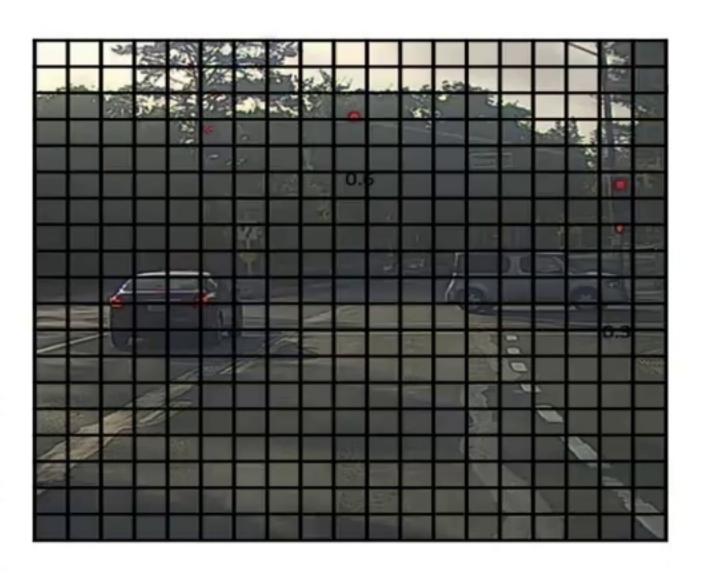


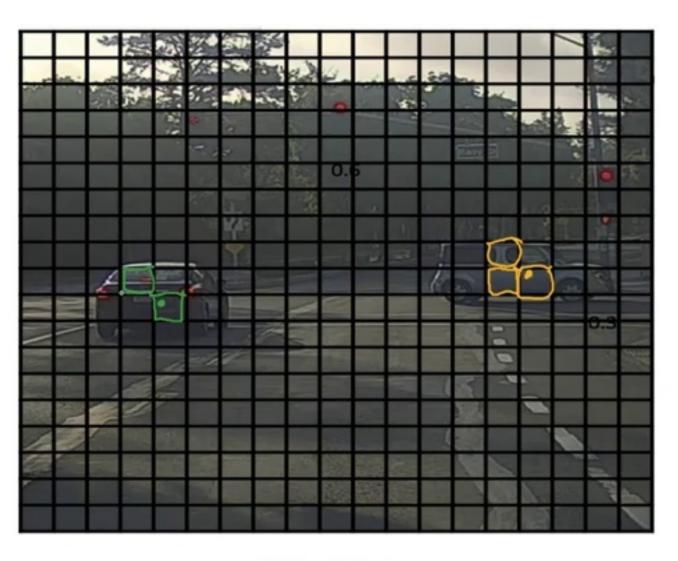


Object Detection

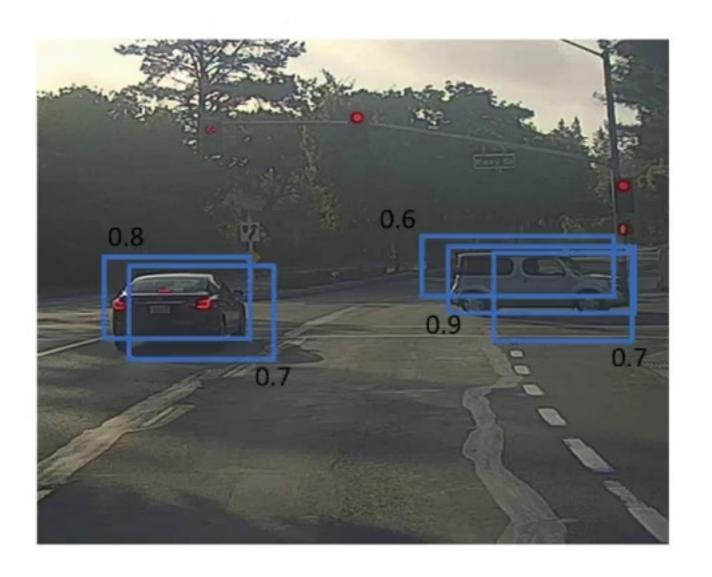
Non-max suppression

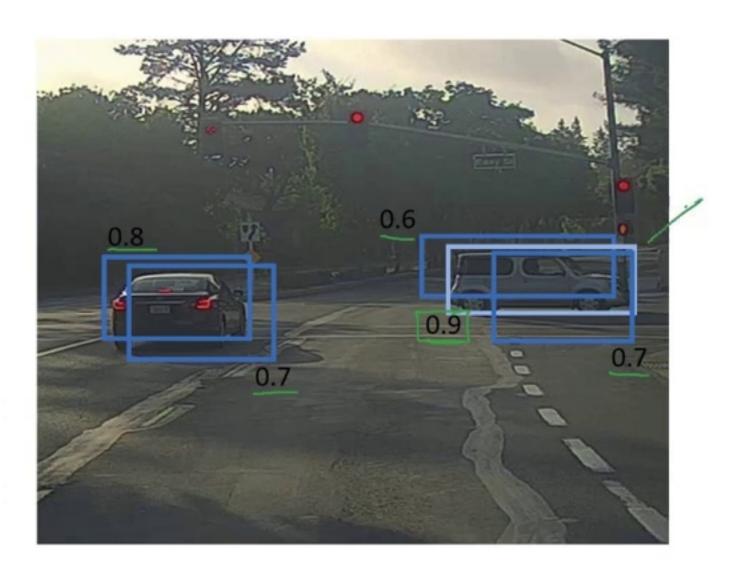


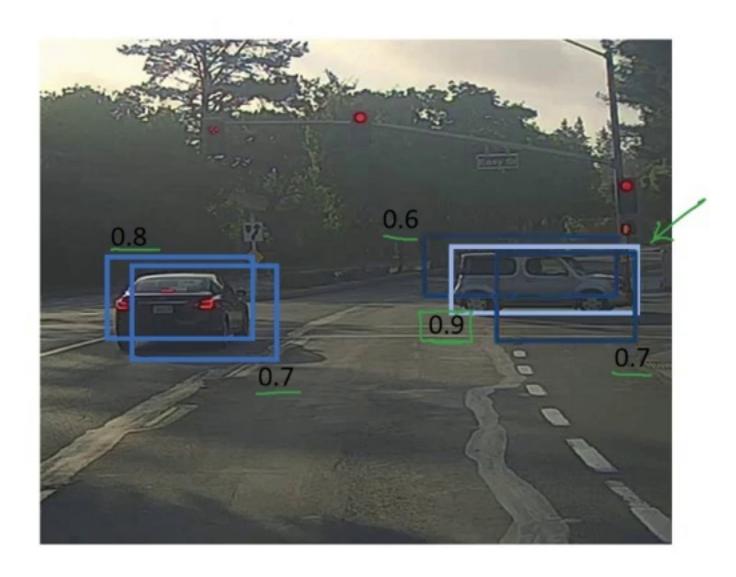


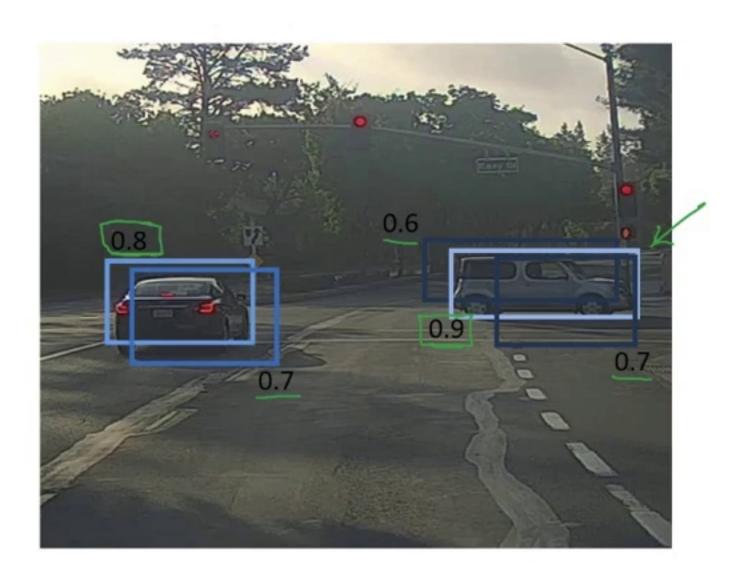


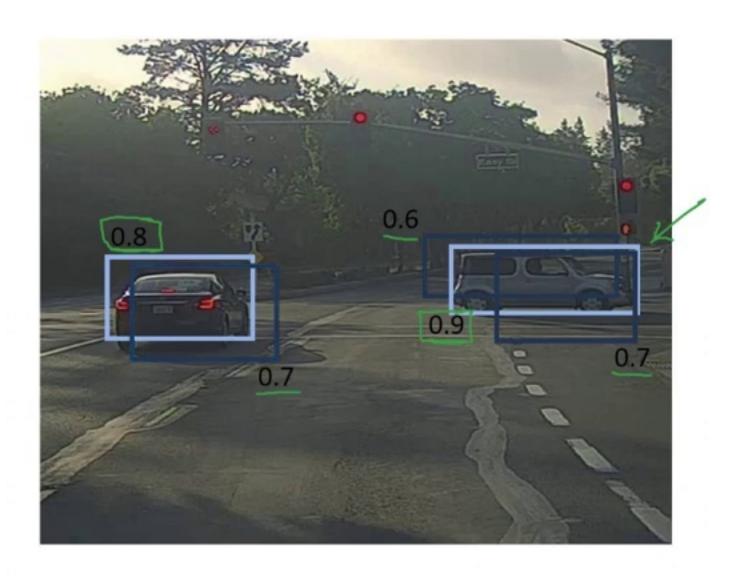
19×19

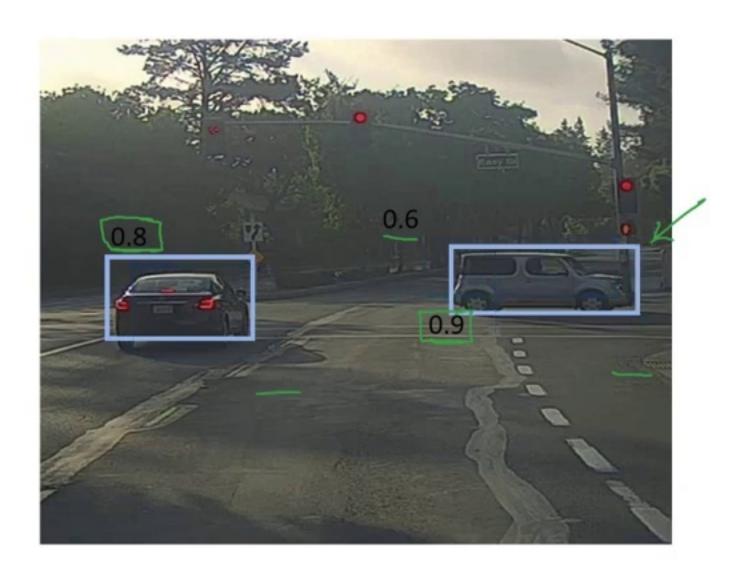


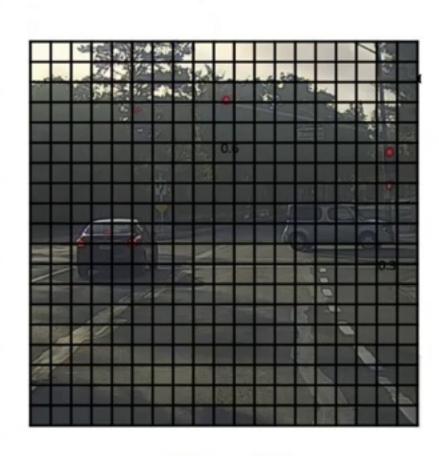






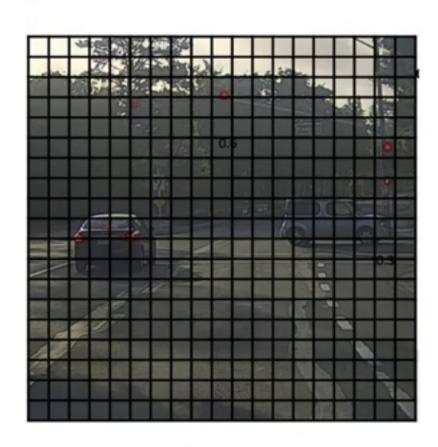






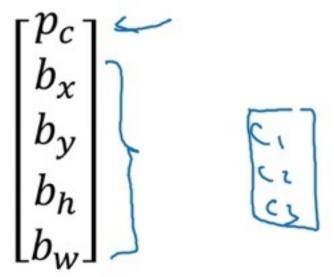
19×19

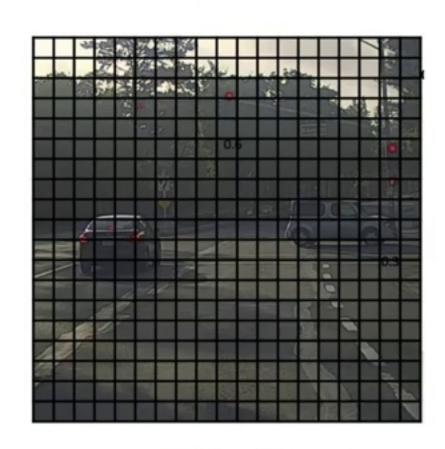
Each output prediction is: $\begin{bmatrix} b_x \\ b_y \\ b_h \end{bmatrix}$



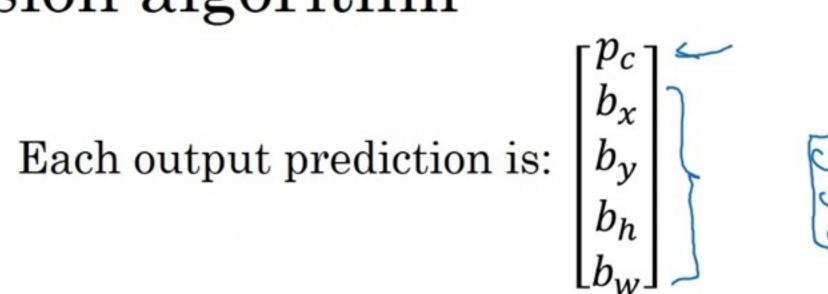
19×19

Each output prediction is:

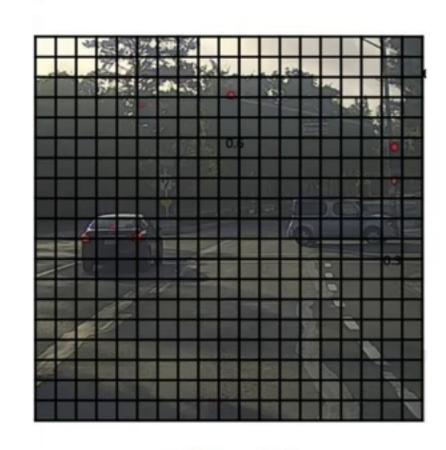




 19×19

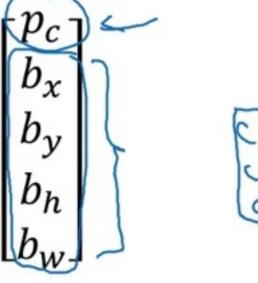


Discard all boxes with $p_c \leq 0.6$



 19×19

Each output prediction is:



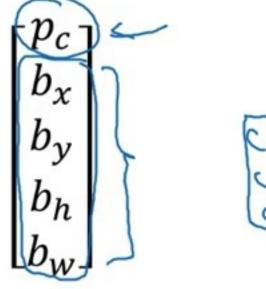
Discard all boxes with $p_c \leq 0.6$

While there are any remaining boxes:



 19×19

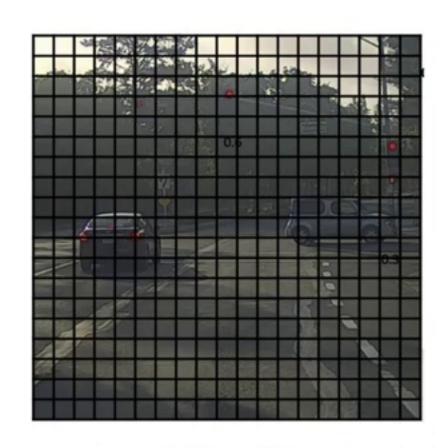
Each output prediction is:



Discard all boxes with $p_c \leq 0.6$

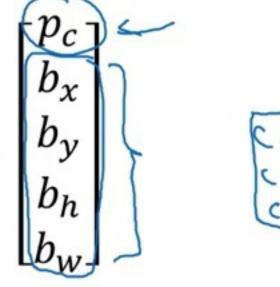
While there are any remaining boxes:

• Pick the box with the largest p_c Output that as a prediction.



 19×19

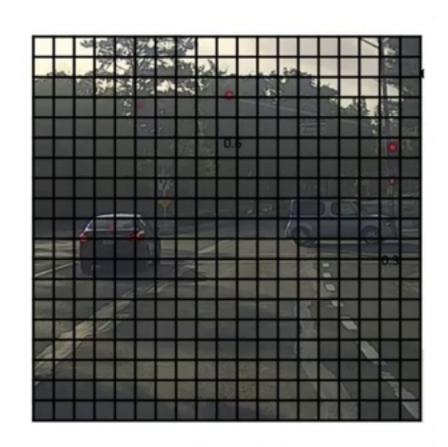
Each output prediction is:



Discard all boxes with $p_c \leq 0.6$

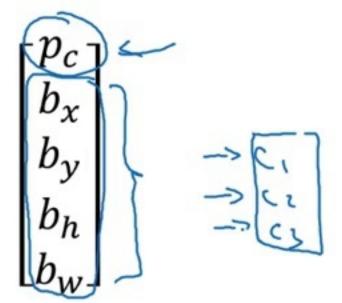
While there are any remaining boxes:

- Pick the box with the largest p_c Output that as a prediction.



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 IoU ≥ 0.5 with the box output in the previous step

 Andrew Ng