



deeplearning.ai

# Object Detection

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## Non-max suppression

지금까지 배웠던 object detection 알고리즘의 문제 중 하나는 어떤 오브젝트에 대해 한 개가 아니라 multiple detection을 찾는 다는 점이다. non-max suppression이 이 문제를 해결해준다.

# Non-max suppression example

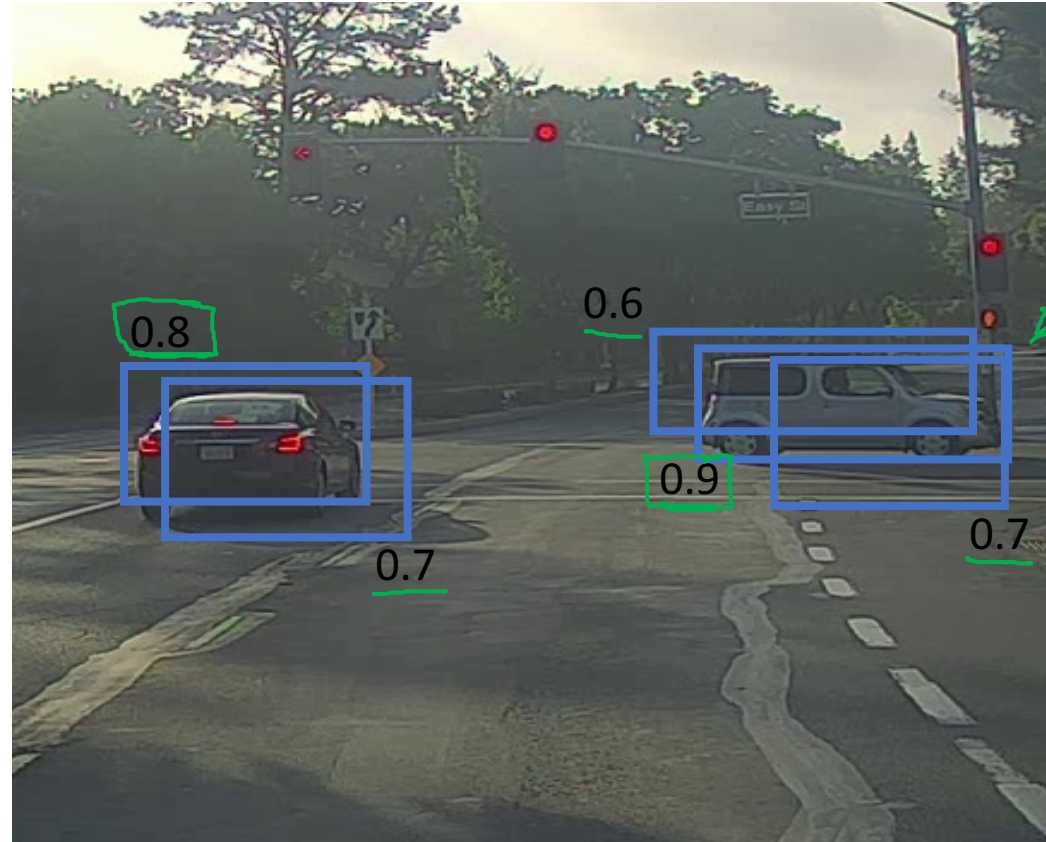


# Non-max suppression example



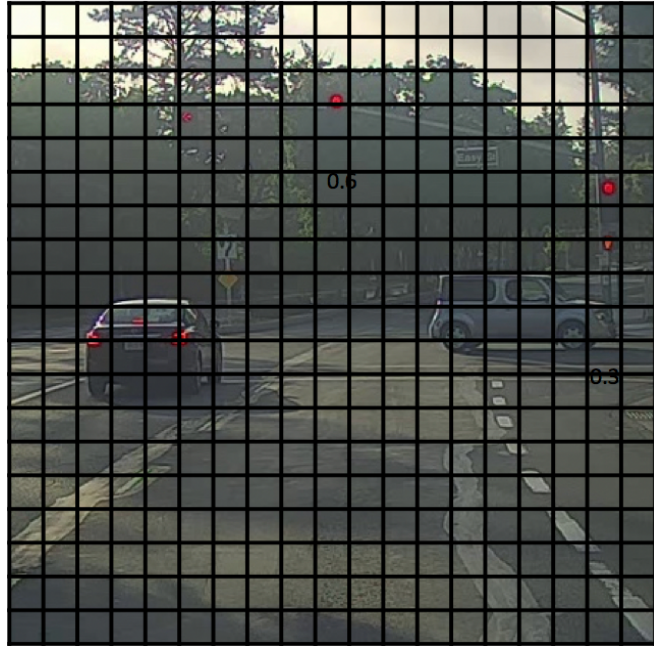
19x19

# Non-max suppression example



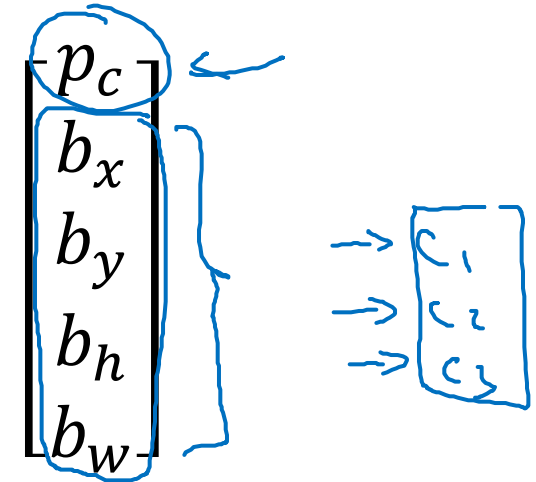
$P_c$

# Non-max suppression algorithm



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