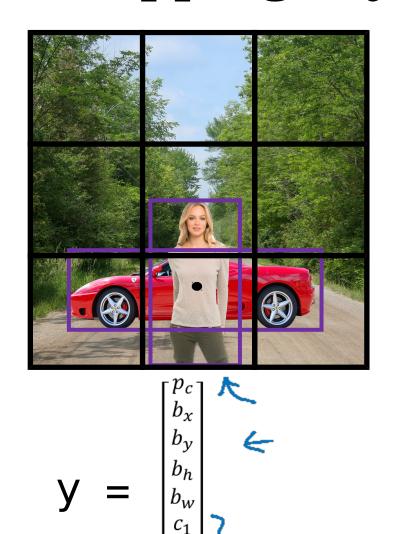
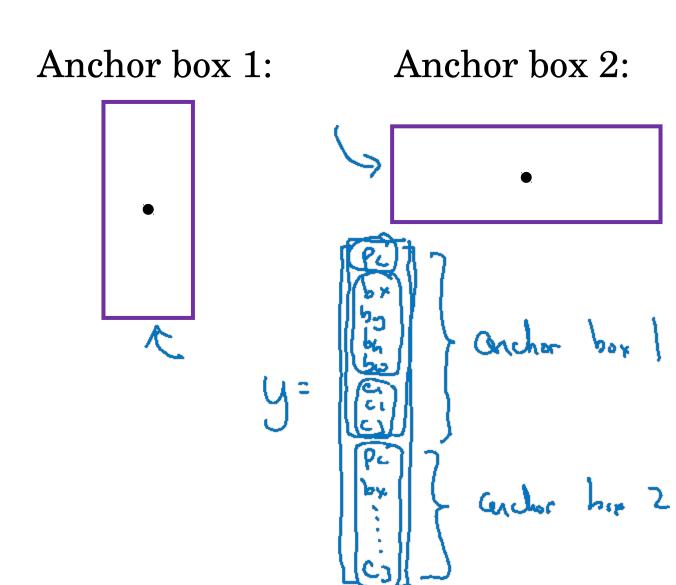


Object Detection

Anchor boxes

Overlapping objects:





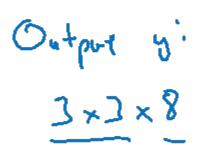
[Redmon et al., 2015, You Only Look Once: Unified real-time object detection]

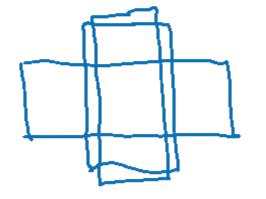
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Anchor box algorithm

Previously:

Each object in training image is assigned to grid cell that contains that object's midpoint.





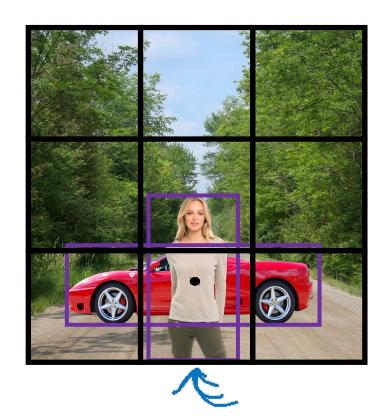
With two anchor boxes:

Each object in training image is assigned to grid cell that contains object's midpoint and anchor box for the grid cell with highest IoU. (grid cell, condon box)

Output y: 3 x 3 x 16 3 x 3 x 2 x 8

Andrew Ng

Anchor box example



Anchor box 1: Anchor box 2:

