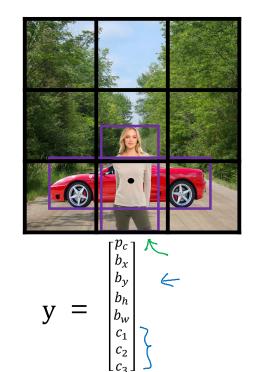


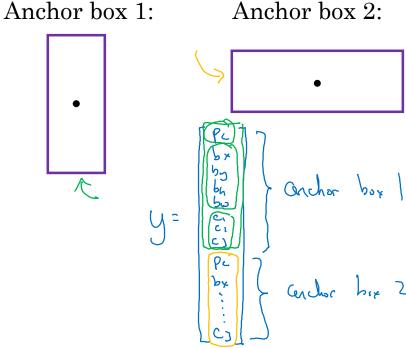
Object Detection

Anchor boxes

deter multiple objects in a grid cells.

Overlapping objects:





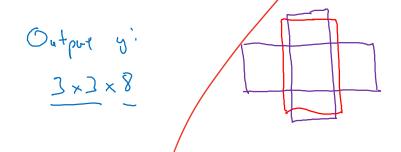
[Redmon et al., 2015, You Only Look Once: Unified real-time object detection]

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Anchor box algorithm

Previously:

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



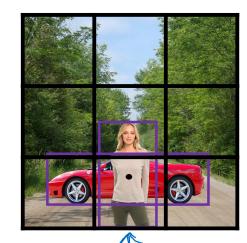
With two anchor boxes:

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.

 $4 \quad 9$ 3×16 $3 \times 2 \times 8$

Andrew Ng

Anchor box example



Anchor box 1: Anchor box 2:

