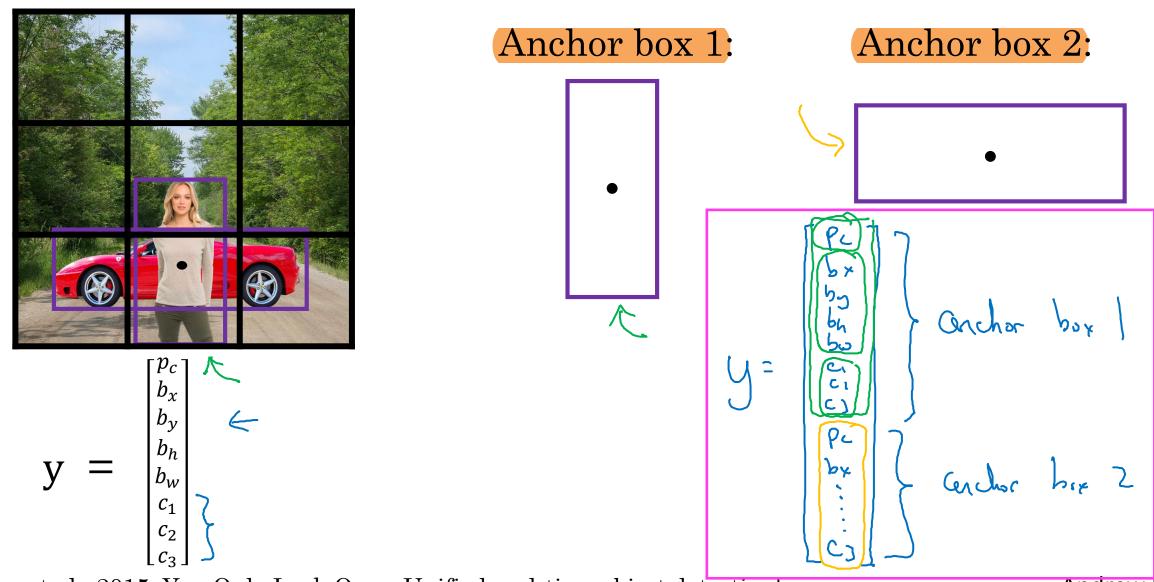


# Object Detection

Anchor boxes

## Overlapping objects:



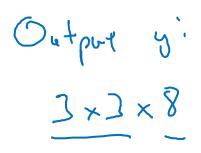
[Redmon et al., 2015, You Only Look Once: Unified real-time object detection]

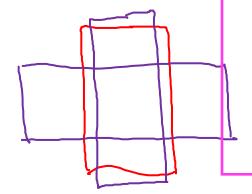
Andrew Ng

### 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.

Output y: 3 x 3 x 16

3×3× 2×8

### Anchor box example

