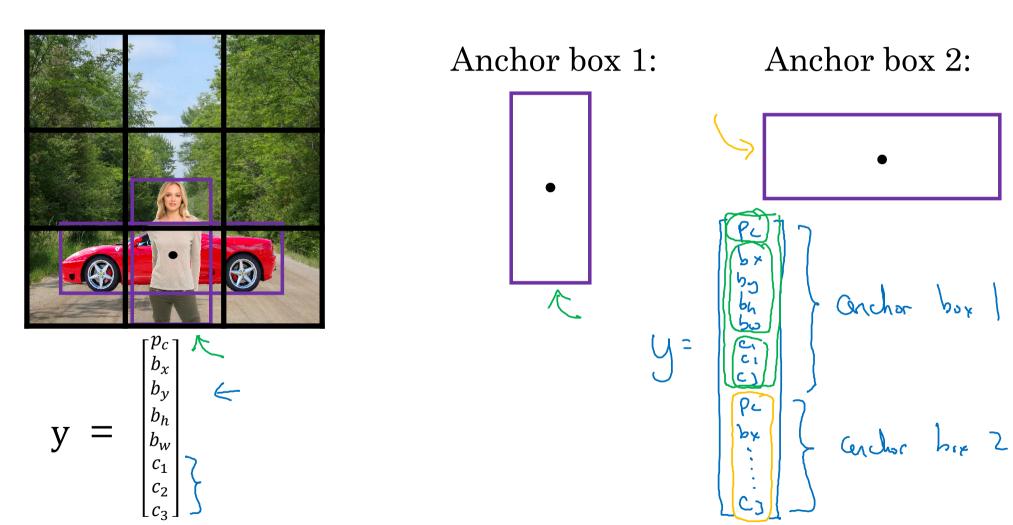


Object Detection

Anchor boxes

Overlapping objects:



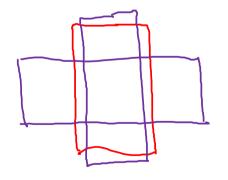
[Redmon et al., 2015, You Only Look Once: Unified real-time object detection]

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Anchor box algorithm

Previously:

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

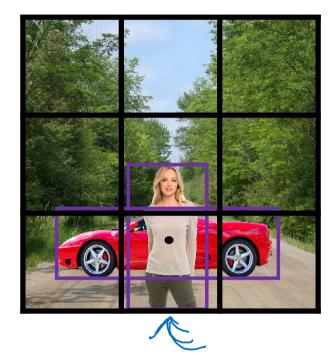


With two anchor boxes:

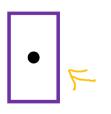
Each object in training image is assigned to grid cell that contains object's midpoint and anchor box for the grid cell with highest IoU.

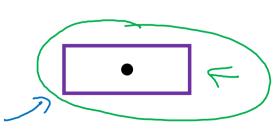
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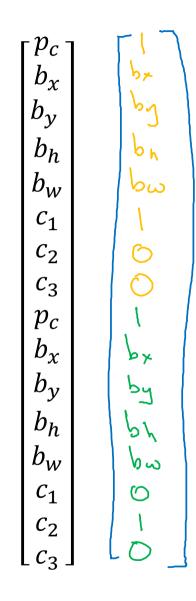
Anchor box example

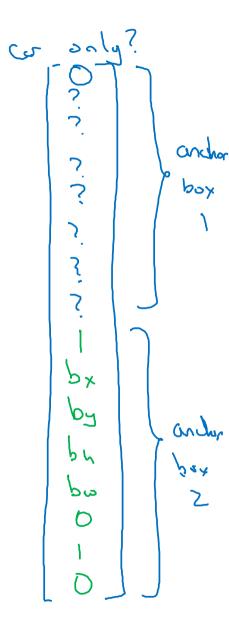


Anchor box 1: Anchor box 2:









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