

Object Detection

Object localization

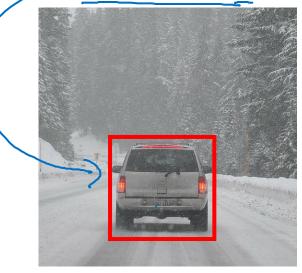
What are localization and detection?

Image classification



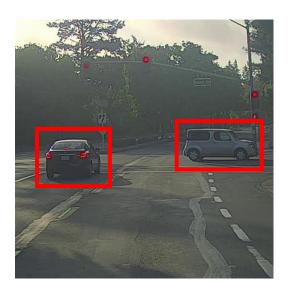
" Car"

Classification with localization



"Car

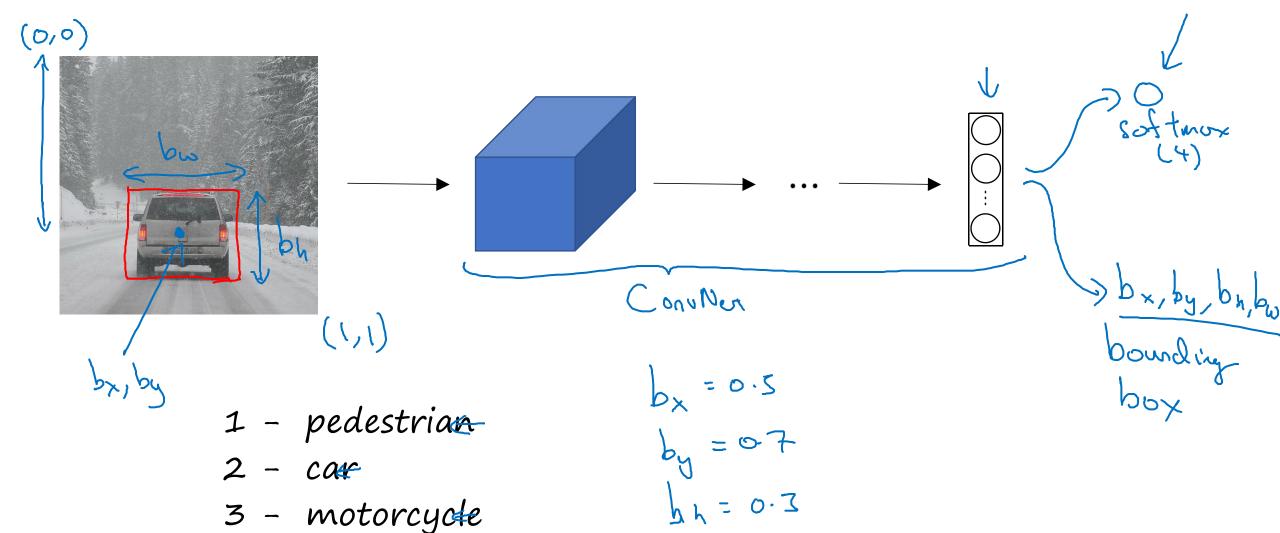
Detection



multiple objects

bjert

Classification with localization



background bw = 0.4

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Defining the target label y

1 - pedestrian

2 - car

3 - motorcycle

4 - background

$$\begin{cases}
(\hat{y}, y)^{2} \\
+ \dots + (\hat{y}, y)^{2}
\end{cases}$$
is then an object to output $B_{2}, B_{3}, B_{4}, B_{4$

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