



**deeplearning.ai**

# Object Detection

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Object  
detection

# Car detection example

Training set:

$x$

$y$



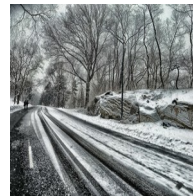
1



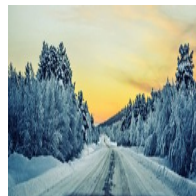
1



1



0



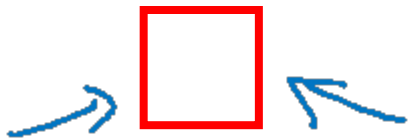
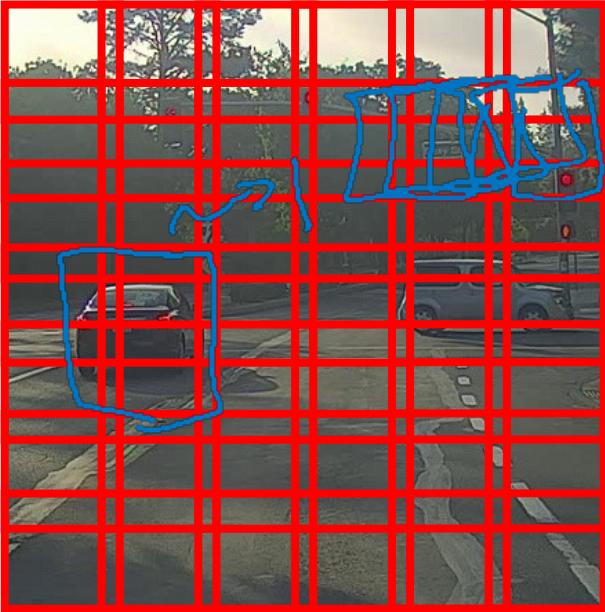
0



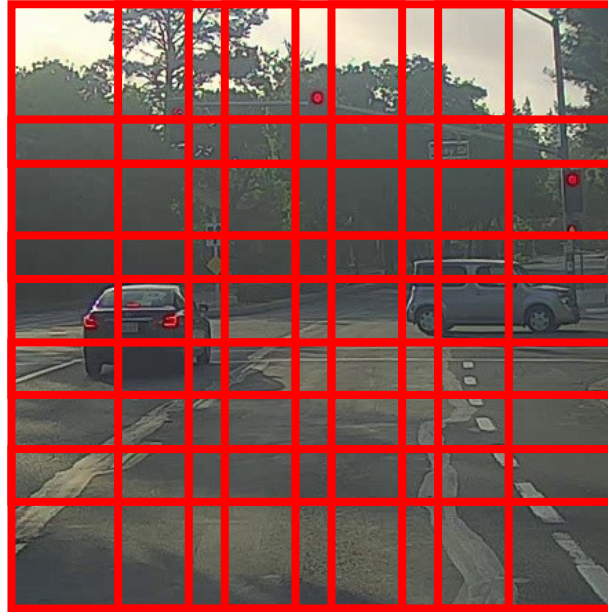
$\rightarrow$  ConvNet  $\rightarrow y$

# Sliding windows detection

→ ConvNet → 0



→ ConvNet



Computation cost

