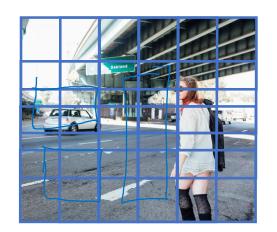
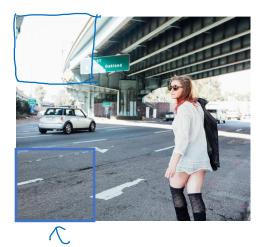


Object Detection

Region proposals (Optional)

Region proposal: R-CNN







Faster algorithms

slow slow slow

→ R-CNN: Propose regions. Classify proposed regions one at a time. Output <u>label</u> + bounding box.

Fast R-CNN: Propose regions. Use convolution implementation of sliding windows to classify all the proposed regions.

Faster R-CNN: Use convolutional network to propose regions.

[Girshik et. al, 2013. Rich feature hierarchies for accurate object detection and semantic segmentation] [Girshik, 2015. Fast R-CNN]

networks] Andrew Ng