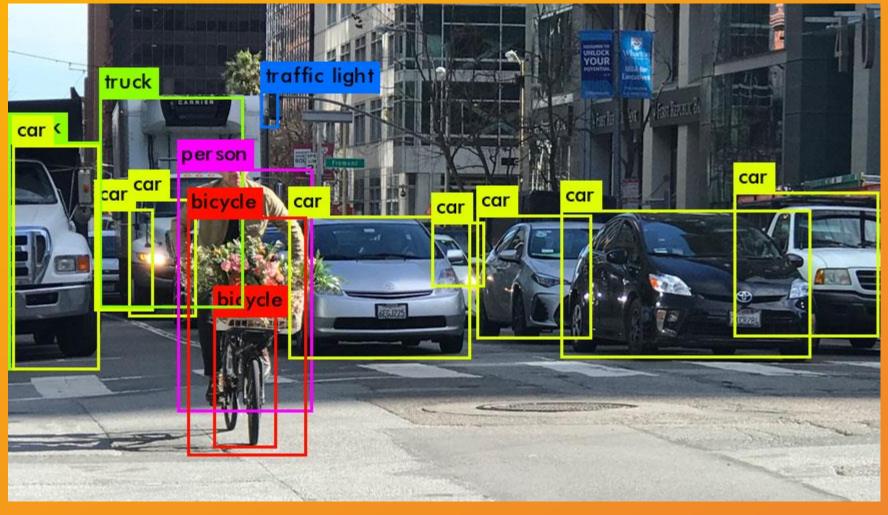
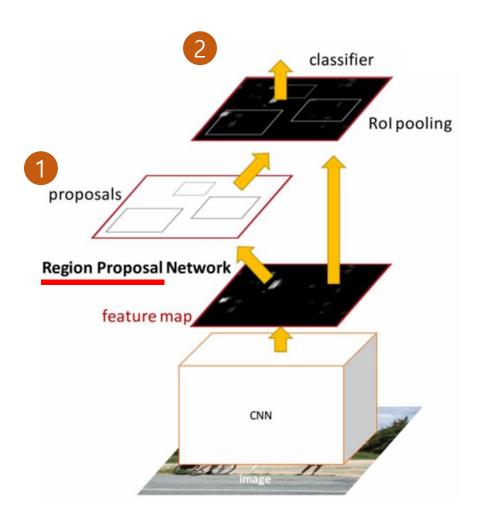
YOLO (You Only Look Once) – 실시간 객체 검출 알고리즘 KIM JEONG HYUN



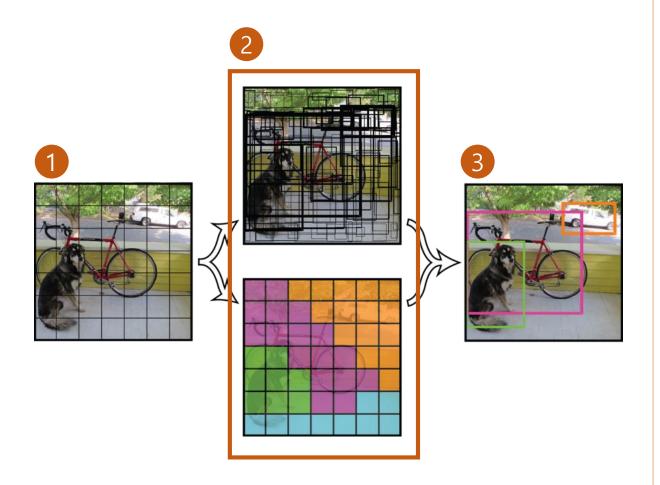
https://www.youtube.com/watch?v=_kxX09i4fds



Fast R-CNN

오브젝트가 있을 것 같은 영역을 뽑아서 제안 객체 검출의 정확성은 높지만 신속하지 못함

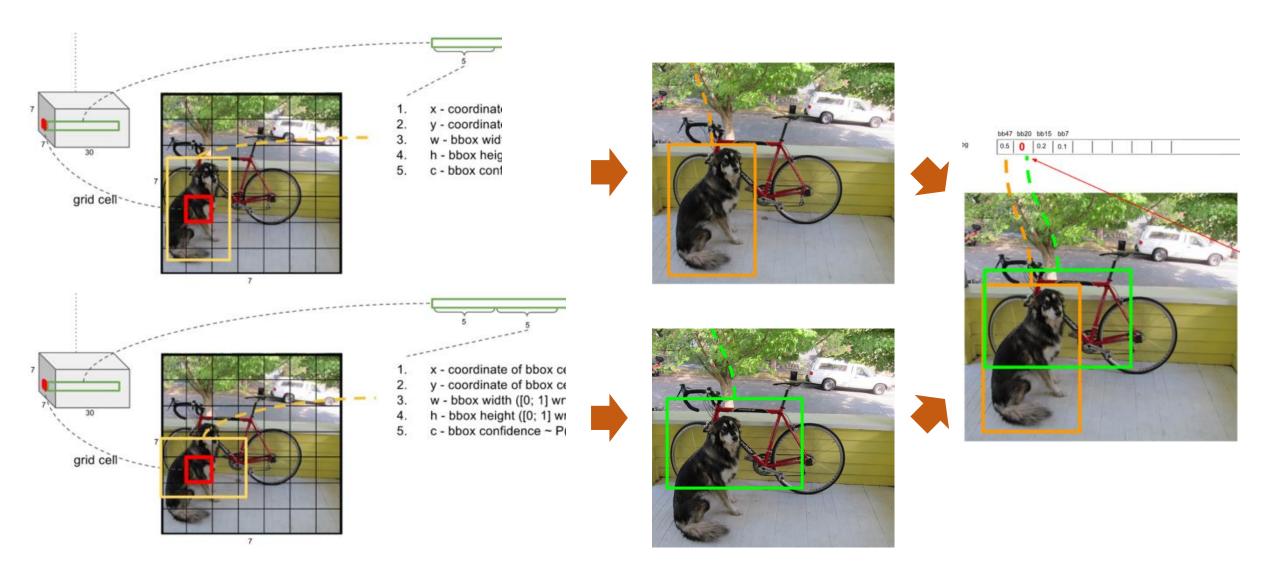
1 2 = Two-stage Methods

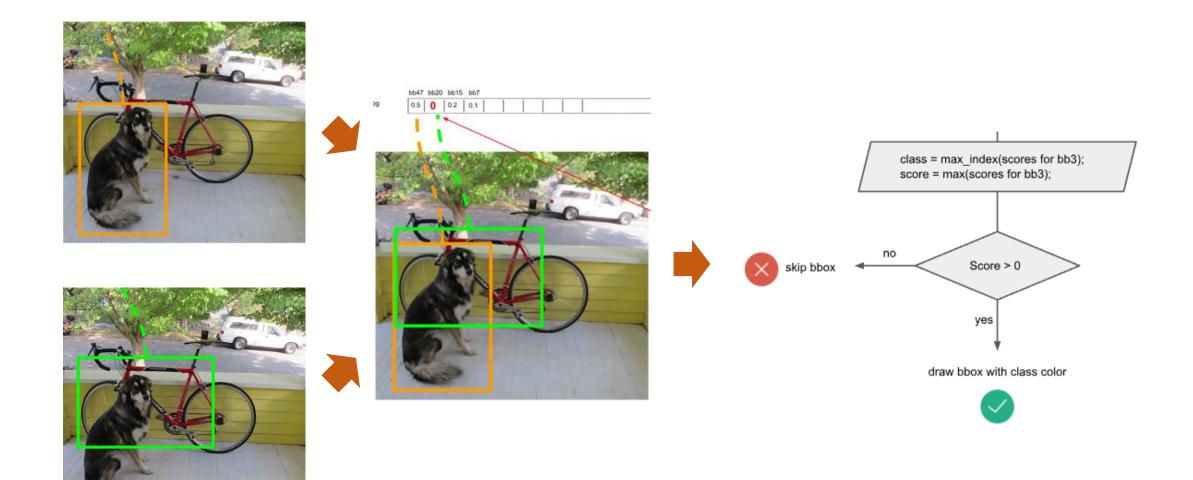


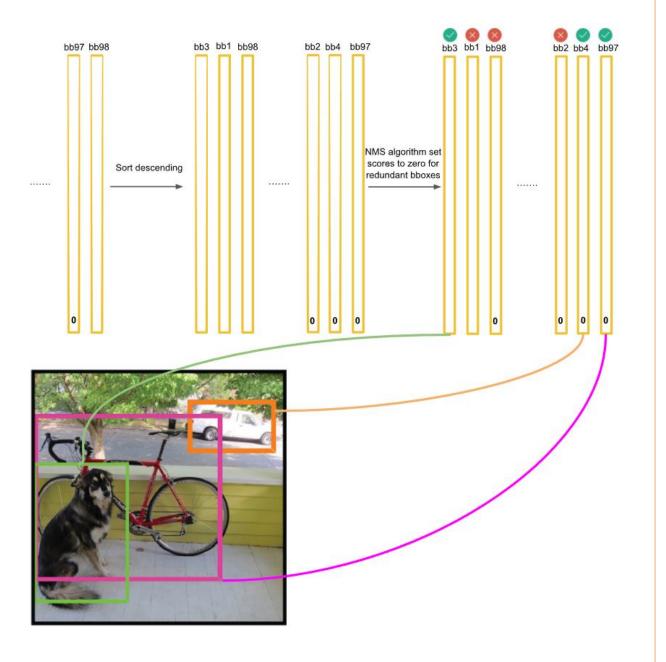
YOLO (You Only Look Once)

- ① 프레임을 7*7 그리드로 분할
- 2 각 그리드를 중심으로 Bound box 생성
 1) Bound box를 그리드 셀(7*7)의 2배만큼 생성
 → 프레임 상의 오브젝트 위치 예측
 2) 제안된 Bound box의 오브젝트 class 구분
- ③ 객체별 class와 영역 검출









한계

R-CNN보다 현저히 낮은 Bound box 개수
→ 복잡한 이미지에서는 낮은 정확도

작은 오브젝트 여러 개가 인접해 있을 때 검출이 어려움

Series: YOLO object detector in PyTorcherson

collection of 5 posts

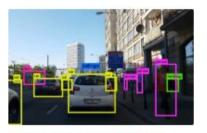


SERIES: YOLO OBJECT DETECTOR IN PYTORCH

How to implement a YOLO (v3) object detector from scratch in PyTorch: Part 1

Tutorial on building YOLO v3 detector from scratch detailing how to create the network architecture from a configuration file, load the weights and designing input/output pipelines.



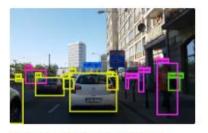


SERIES: YOLO OBJECT DETECTOR IN PYTORCH

How to implement a YOLO (v3) object detector from scratch in PyTorch: Part 2

Part 2 of the tutorial series on how to implement your own YOLO v3 object detector from scratch in PyTorch.



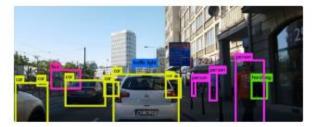


SERIES: YOLO OBJECT DETECTOR IN PYTORCH

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Part 3 of the tutorial series on how to implement a YOLO v3 object detector from scratch in PyTorch.



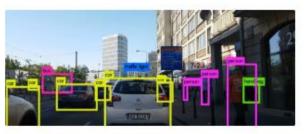


SERIES: YOLO OBJECT DETECTOR IN PYTORCH

How to implement a YOLO (v3) object detector from scratch in PyTorch: Part 4

Part 4 of the tutorial series on how to implement a YOLO v3 object detector from scratch using PyTorch.





SERIES: YOLO OBJECT DETECTOR IN PYTORCH

How to implement a YOLO (v3) object detector from scratch in PyTorch: Part 5

Part 5 of the tutorial series on how to implement a YOLO v3 object detector from scratch using PyTorch.



Project Code

Pytorch로 구현하는 코드 예제와 강의 제공 구현은 가능할 것으로 예상...