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YOLOv7

Introduction

Overview

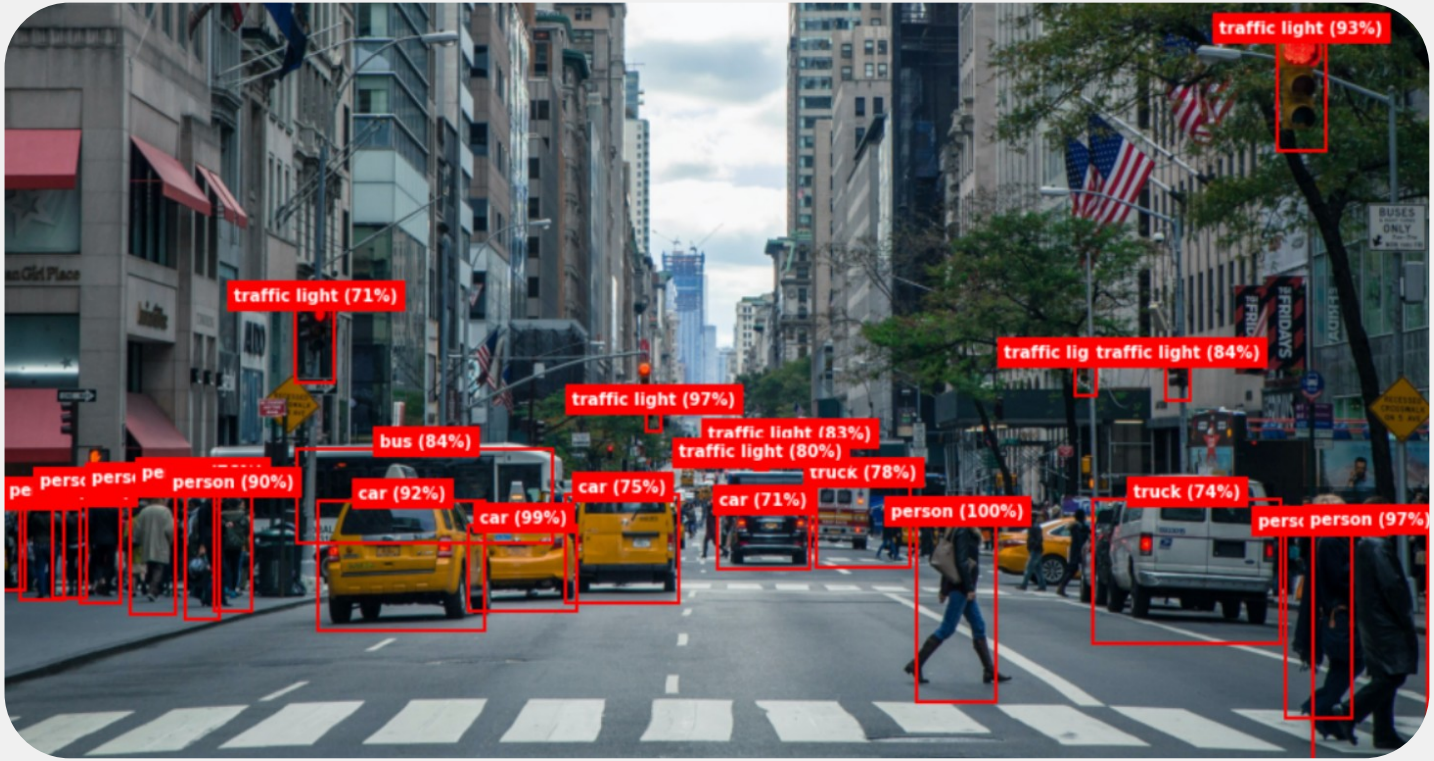
- What is YOLO
- What is Object Detection
- Versions of YOLO
- Significance of YOLOv7

What is YOLO?

YOLO : an algorithm that uses neural networks to provide real-time object detection

- **High Speed and Accuracy**
- **Only forward propagation**
- **Object Detection – Single Stage Detector**

Object Detection



Object Detection

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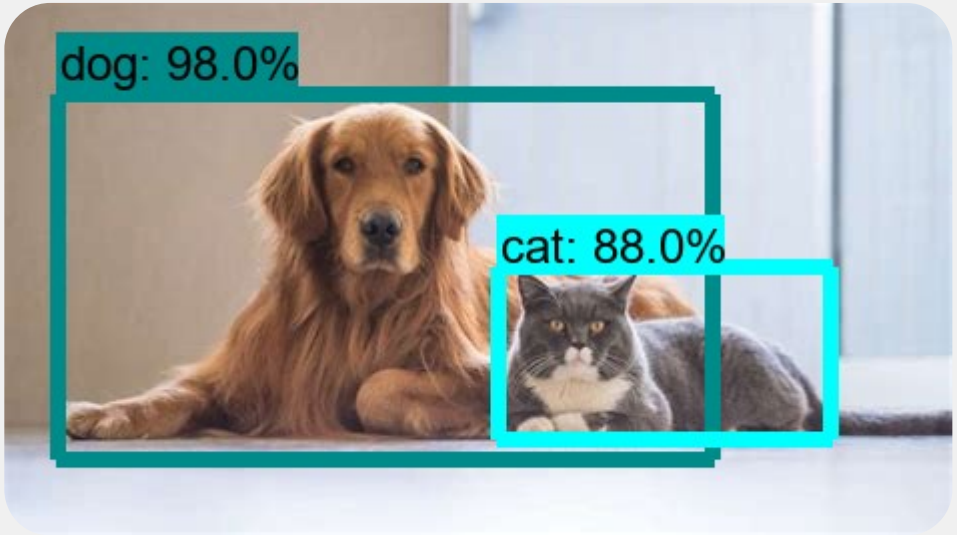
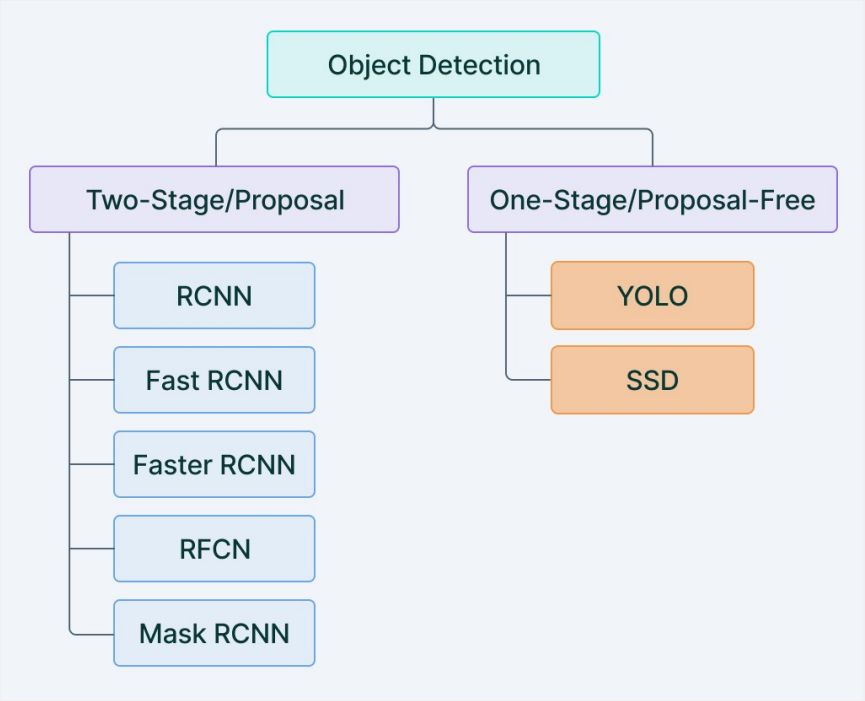
Definition : Detection of various objects in digital images and videos



Object Detection



Types of Object Detection

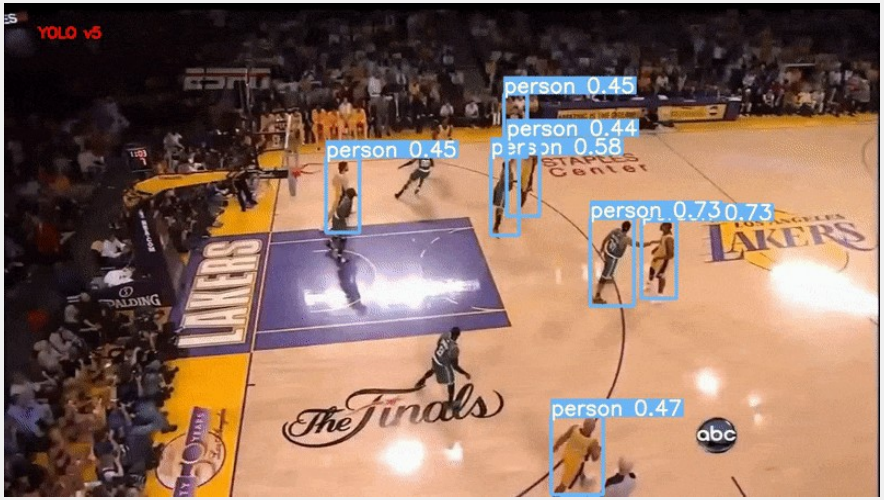
Two Stage – detection and recognition are two different process

One Stage – detection and recognition happen together

Versions of YOLO

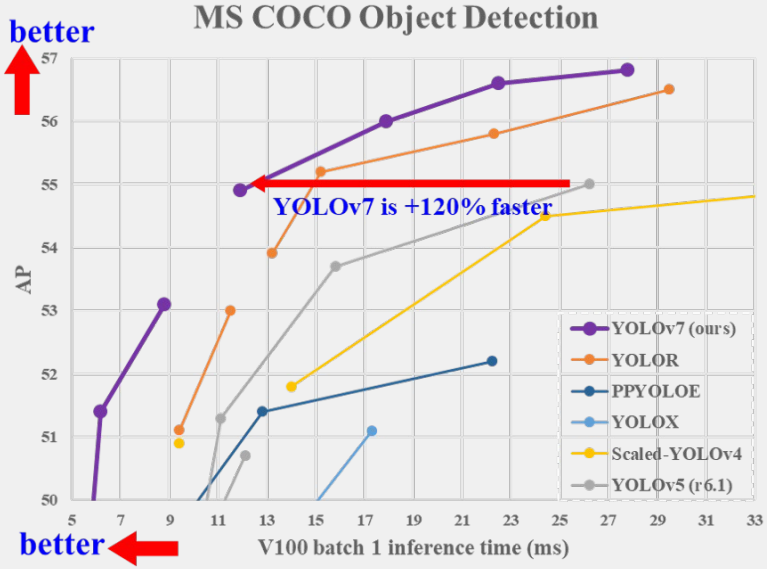
- YOLOv1
- YOLOv2
- YOLOv3
- YOLOv4
- YOLOv5
- YOLOv6
- YOLOv7
- YOLOR

Significance of YOLOv7



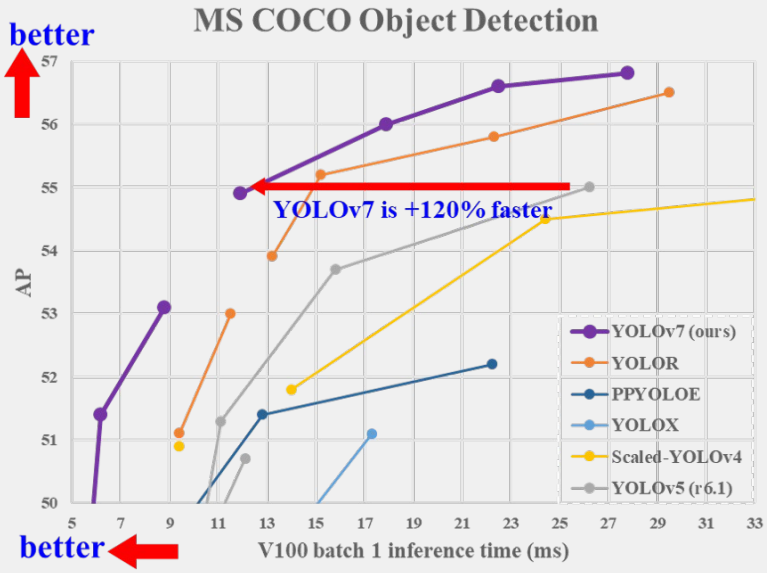
YOLOv7 surpasses all known object detectors in both speed and accuracy in the range from 5 FPS to 160 FPS

Significance of YOLOv7



YOLOv7 outperforms these many object detectors in accuracy being 56.8% AP

Significance of YOLOv7



- 75% fewer parameters than YOLOv4.
- 36% lesser computational time.
- 1.5x times higher AP than YOLOv4

Thank You