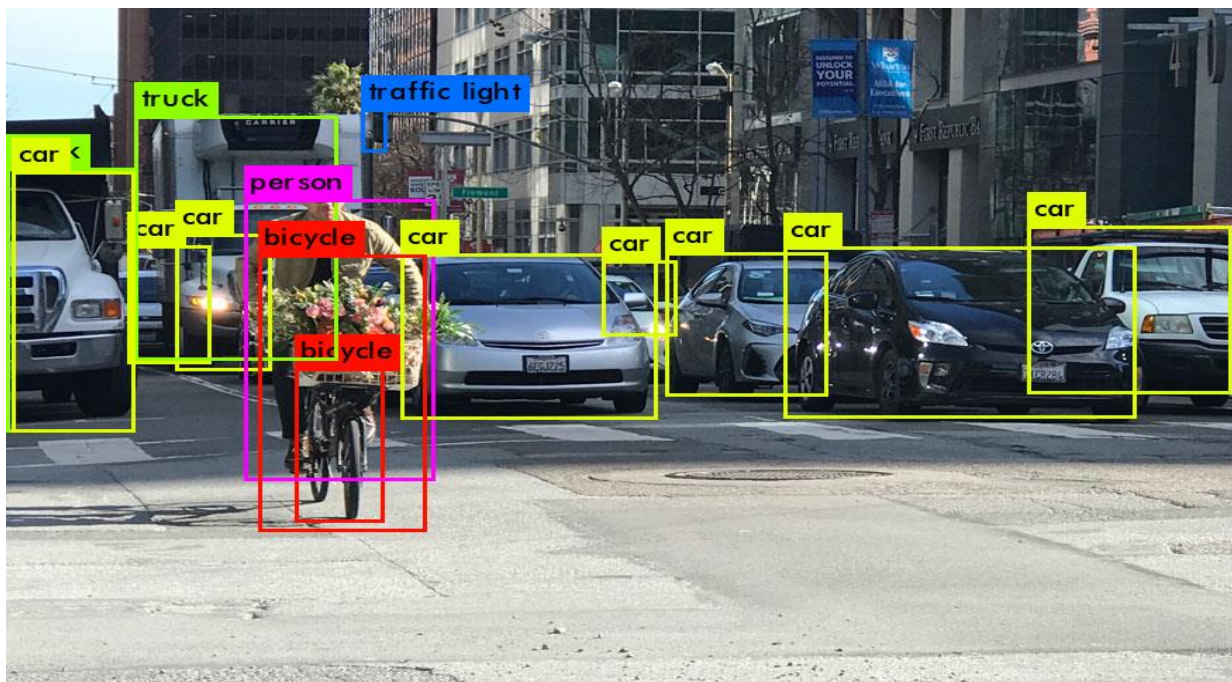


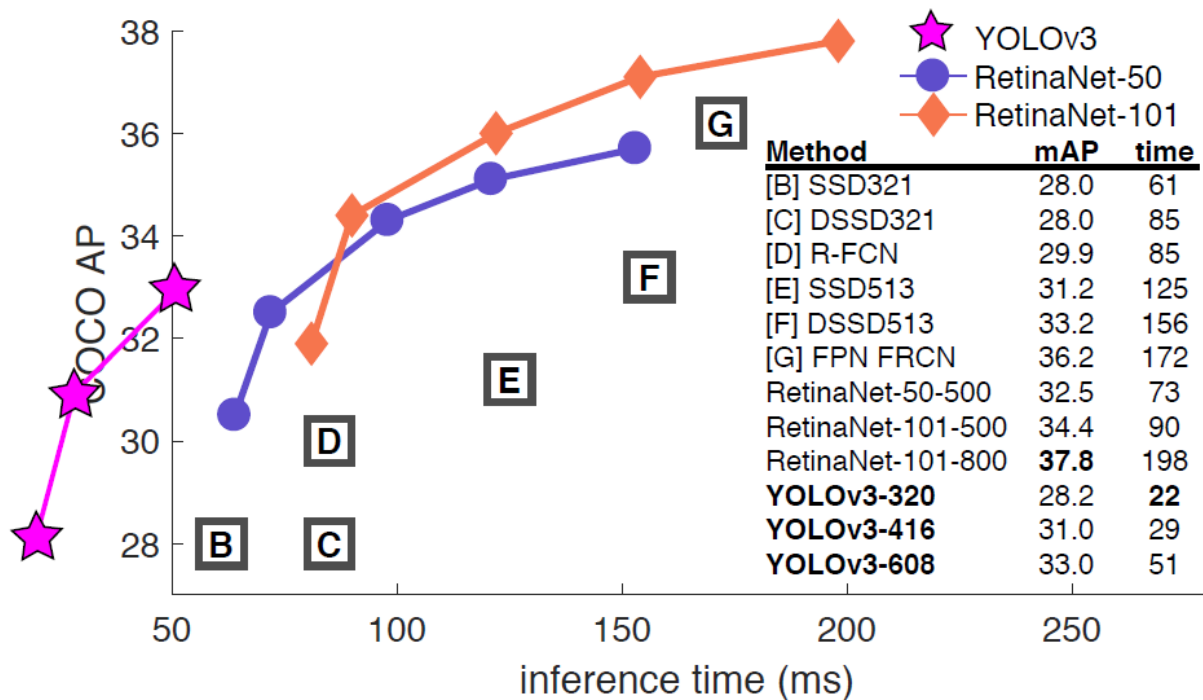
# Project Objectives

Date	30 Oct 2022
Team ID	PNT2022TMID45200
Project Name	Virtual Eye - Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	4 Marks

## YOLOv3:

- YOLOv3 (You Only Look Once, Version 3) is a **real-time object detection algorithm that identifies specific objects in videos, live feeds, or images.**
- The YOLO machine learning algorithm uses features learned by a deep convolutional neural network to detect an object.





- YOLOv3 runs much faster than previous detection methods with a comparable performance using an M40/Titan X GPU

<https://viso.ai/deep-learning/yolov3-overview/>

### How to train a YOLO model in a windows environment:

1. Image Collection
2. Image Selection (How to choose a proper set of images to train YOLO)
3. Annotate Image
4. Download and configure Darknet in Windows
5. Create Train and Test Data to train YOLO model
6. Compile darknet on Windows
7. Train YOLO custom object detection model in Windows
8. Test YOLO model for image and video