Complex\_yolo\_v3

Params = 62.5M; Intel i5-7200U CPU @ 2.5Ghz with 8GB RAM and NVIDIA GeForce 940MX GPU

Average Precisions: (IOU = 0.5)

+ Class '0' (Car) - AP: 0.9765

+ Class '1' (Pedestrian) - AP: 0.7044

+ Class '2' (Cyclist) - AP: 0.8639

mAP: 0.8483

Average time for prediction and NMS is 641.99 ms

Average total time for detection is 654.07 ms

Average Precisions: (IOU = 0.7)

+ Class '0' (Car) - AP: 0.9359

+ Class '1' (Pedestrian) - AP: 0.1558

+ Class '2' (Cyclist) - AP: 0.6164

mAP: 0.5694

Average time for prediction and NMS is 658.12 ms

Average total time for detection is 676.60 ms

Final mAP (Car [IoU 0.7], Ped and Cyclist [IoU 0.5]): 0.8347

Dep\_sep\_conv

Params = 12.5M; Intel i5-7200U CPU @ 2.5Ghz with 8GB RAM and NVIDIA GeForce 940MX GPU

Average Precisions: (IOU = 0.5)

+ Class '0' (Car) - AP: 0.9713

+ Class '1' (Pedestrian) - AP: 0.6788

+ Class '2' (Cyclist) - AP: 0.8641

mAP: 0.8381

Average time for prediction and NMS is 288.68 ms

Average total time for detection is 300.81 ms

Average Precisions: (IOU = 0.7)

+ Class '0' (Car) - AP: 0.9231

+ Class '1' (Pedestrian) - AP: 0.2234

+ Class '2' (Cyclist) - AP: 0.6142

mAP: 0.5869

Average time for prediction and NMS is 288.41 ms

Average total time for detection is 301.09 ms

Final mAP (Car [IoU 0.7], Ped and Cyclist [IoU 0.5]): 0.822