

# Work report

13 Aug 2021

Today trained complete model with yolov4 for 1000 instances.

```
Allocate additional workspace_size = 55.67 MB
Loading weights from /content/drive/MyDrive/v4/training/yolov4-custom_last.weights...
seen 64, trained: 384 K-images (6 Kilo-batches_64)
Done! Loaded 162 layers from weights-file
Learning Rate: 0.001, Momentum: 0.949, Decay: 0.0005
Detection layer: 139 - type = 28
Detection layer: 150 - type = 28
Detection layer: 161 - type = 28
Create 6 permanent cpu-threads
Saving weights to /content/drive/MyDrive/v4/training/yolov4-custom_final.weights
If you want to train from the beginning, then use flag in the end of training command: -clear
```

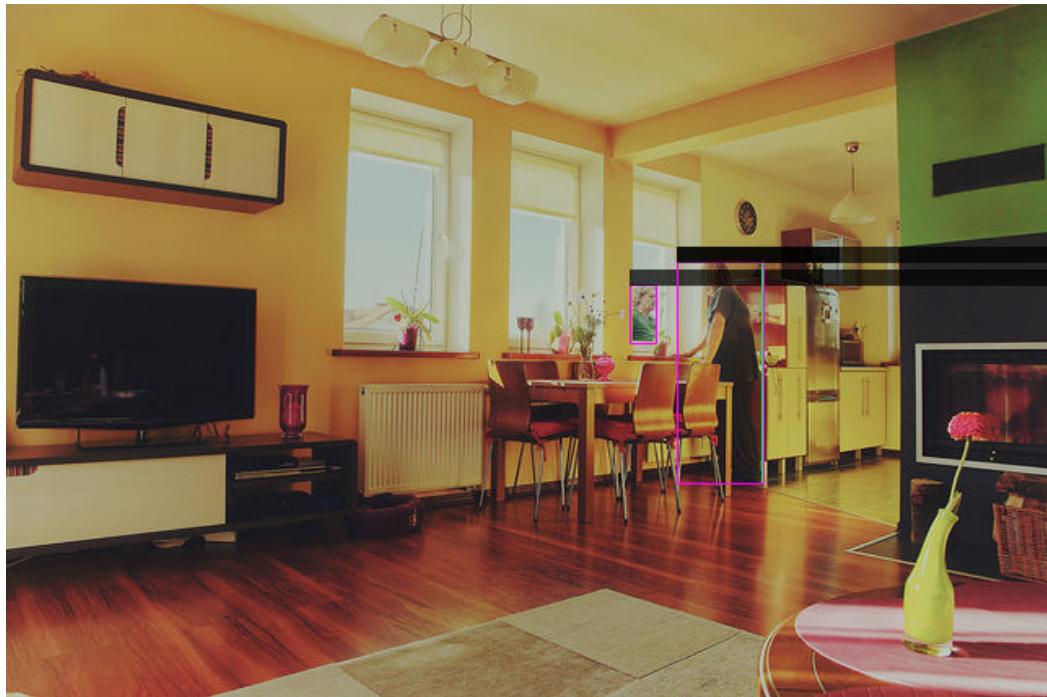
MAP

```
28
detections_count = 798, unique_truth_count = 558
class_id = 0, name = bird, ap = 52.77%           (TP = 47, FP = 28)
class_id = 1, name = book, ap = 52.71%           (TP = 47, FP = 28)
class_id = 2, name = bottle, ap = 52.66%          (TP = 47, FP = 28)
class_id = 3, name = car, ap = 52.66%            (TP = 47, FP = 28)
class_id = 4, name = chair, ap = 52.77%           (TP = 47, FP = 28)
class_id = 5, name = person, ap = 52.66%          (TP = 47, FP = 28)

for conf_thresh = 0.25, precision = 0.63, recall = 0.51, F1-score = 0.56
for conf_thresh = 0.25, TP = 282, FP = 168, FN = 276, average IoU = 46.58 %

IoU threshold = 50 %, used Area-Under-Curve for each unique Recall
mean average precision (mAP@0.50) = 0.527025, or 52.70 %
Total Detection Time: 1 Seconds

Set -points flag:
`-points 101` for MS COCO
`-points 11` for PascalVOC 2007 (uncomment `difficult` in voc.data)
`-points 0` (AUC) for ImageNet, PascalVOC 2010-2012, your custom dataset
```



```
-- -- -- -- --  
/content/drive/MyDrive/v4/darknet/data/obj/000000008690.jpg: Predicted in 32.856000 milli-s  
bottle: 100%  
bird: 100%  
book: 100%  
car: 100%  
chair: 100%  
person: 100%  
chair: 100%  
bird: 100%  
book: 100%  
bottle: 100%  
car: 100%  
person: 100%  
bottle: 100%  
bird: 100%  
book: 100%  
car: 100%  
chair: 100%  
person: 100%  
bird: 100%  
book: 100%  
bottle: 100%  
car: 100%  
chair: 100%  
person: 100%  
Unable to init server: Could not connect: Connection refused
```



