

Aero2Astro

Panneerselvam N

(24/09/2021)

Today i had trained Yolo v4 model upto 1850 epochs. Due to Colab disconnect not able to perform evaluation. Try to evaluate Tomorrow and update in report.

```
(next mAP calculation at 1900 iterations)
1869: 1.918877, 1.553988 avg loss, 0.001000 rate, 16.172099 seconds, 59808 images, 19.201971 hours left
Loaded: 0.000078 seconds
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.000271, iou_loss = 0.000000, total_loss = 0.000271)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.685649), count: 7, class_loss = 5.225691, iou_loss = 4.153913, total_loss = 9.379604)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.786661), count: 12, class_loss = 5.339079, iou_loss = 3.176780, total_loss = 8.515859)
total_bbox = 85235, rewritten_bbox = 0.138441 %
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.659866), count: 2, class_loss = 0.447420, iou_loss = 11.350922, total_loss = 11.800342)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.668838), count: 9, class_loss = 4.471440, iou_loss = 18.142441, total_loss = 22.613881)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.679092), count: 10, class_loss = 3.395318, iou_loss = 1.575424, total_loss = 4.970742)
total_bbox = 85256, rewritten_bbox = 0.138407 %
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.001094, iou_loss = 0.000000, total_loss = 0.001094)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.569032), count: 3, class_loss = 0.598414, iou_loss = 1.718653, total_loss = 2.317067)
```

File Edit View Insert Runtime Tools Help Last saved at 24 September

+ Code + Text

... Allocating

```
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.000001, iou_loss = 0.000000, total_loss = 0.000001)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.791187), count: 1, class_loss = 0.035488, iou_loss = 0.000000, total_loss = 0.035488)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.764248), count: 4, class_loss = 0.062666, iou_loss = 0.000000, total_loss = 0.062666)
total_bbox = 68458, rewritten_bbox = 0.137310 %
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.000030, iou_loss = 0.000000, total_loss = 0.000030)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.000000), count: 1, class_loss = 0.609502, iou_loss = 0.000000, total_loss = 0.609502)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.643260), count: 5, class_loss = 1.071887, iou_loss = 0.000000, total_loss = 1.071887)
total_bbox = 68463, rewritten_bbox = 0.137310 %

(next mAP calculation at 1900 iterations)
1798: 1.505674, 1.399269 avg loss, 0.001000 rate, 16.172099 seconds, 59808 images, 19.201971 hours left
Loaded: 0.000042 seconds
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.000001, iou_loss = 0.000000, total_loss = 0.000001)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.791187), count: 1, class_loss = 0.035488, iou_loss = 0.000000, total_loss = 0.035488)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.764248), count: 4, class_loss = 0.062666, iou_loss = 0.000000, total_loss = 0.062666)
total_bbox = 68473, rewritten_bbox = 0.137310 %
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.000030, iou_loss = 0.000000, total_loss = 0.000030)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.000000), count: 1, class_loss = 0.609502, iou_loss = 0.000000, total_loss = 0.609502)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.643260), count: 5, class_loss = 1.071887, iou_loss = 0.000000, total_loss = 1.071887)
total_bbox = 68482, rewritten_bbox = 0.137262 %
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.775302), count: 2, class_loss = 0.988408, iou_loss = 8.142441, total_loss = 9.130849)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.660522), count: 8, class_loss = 3.847832, iou_loss = 6.142441, total_loss = 10.000273)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.672703), count: 9, class_loss = 3.791090, iou_loss = 2.142441, total_loss = 5.933531)
total_bbox = 68501, rewritten_bbox = 0.137224 %
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 139 Avg (IOU: 0.000000), count: 1, class_loss = 0.000114, iou_loss = 0.000000, total_loss = 0.000114)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 150 Avg (IOU: 0.742738), count: 2, class_loss = 0.175743, iou_loss = 1.142441, total_loss = 1.318184)
v3 (iou loss, Normalizer: (iou: 0.07, obj: 1.00, cls: 1.00) Region 161 Avg (IOU: 0.742830), count: 2, class_loss = 0.383868, iou_loss = 0.000000, total_loss = 0.383868)
total_bbox = 68505, rewritten_bbox = 0.137216 %
```

Cannot connect to GPU backend
You cannot currently connect to a GPU due to usage limits in Colab. [Learn more](#)
If you are interested in priority access to GPUs and higher usage limits, you may want to take a look at [Colab Pro](#).

Close Connect without GPU