yolov7-mia-07-grupo1

October 6, 2024

1 Yolov7 - Detección de Jugadores de Fútbol

Curso: Redes Neuronales y Aprendizaje Profundo (2024-2 A)

Grupo 1 - Integrantes:

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1.1 Descarga del codigo fuente yolo v

```
[ ]: !git clone https://github.com/WongKinYiu/yolov7.git
     %cd yolov7
```

```
Cloning into 'yolov7'…
remote: Enumerating objects: 1197, done.
remote: Total 1197 (delta 0), reused 0 (delta 0), pack-reused 1197 (from 1)
Receiving objects: 100% (1197/1197), 74.23 MiB | 43.64 MiB/s, done.
Resolving deltas: 100% (520/520), done.
/yolov7
```

1.2 Descargar data de entrenamiento y de validación - Football Player

```
[ ]: %cd data
     %mkdir football-player
     !curl -L "https://universe.roboflow.com/ds/ZWu76cSjXv?key=TZEkpGXwIT" >␣
      ↪roboflow.zip; unzip roboflow.zip; rm roboflow.zip
     %cd /content/yolov7
```

```
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   911  100   911    0     0   4034      0 --:--:-- --:--:-- --:--:--  4048
100 64.2M  100 64.2M    0     0   115M      0 --:--:-- --:--:-- --:--:--  115M
Archive:  roboflow.zip
  inflating: README.dataset.txt
  inflating: README.roboflow.txt
```

```
  inflating: data.yaml
   creating: test/
   creating: test/images/
 extracting: test/images/08fd33_3_6_png.rf.bee65249830b3e263ebe95a999f39e34.jpg
 extracting: test/images/08fd33_9_3_png.rf.f5439a0d252bbf8a8ce96169744b49b6.jpg
 extracting: test/images/40cd38_7_6_png.rf.dc7957fcce915bc48188f18a7b19455b.jpg
 extracting: test/images/42ba34_1_5_png.rf.927d602c034ce2997f58f62a7c1245ba.jpg
 extracting: test/images/42ba34_5_5_png.rf.f691b18c36a92663c7241c99d4202bcc.jpg
 extracting: test/images/4b770a_1_4_png.rf.8a0f6be9776a652d40938181f60b3a6c.jpg
 extracting: test/images/4b770a_1_6_png.rf.160e1a893e4dfa9d94b7417ecfd75887.jpg
 extracting: test/images/4b770a_1_8_png.rf.2fbe7dd2211e33397eb1879a0182bcda.jpg
 extracting: test/images/4b770a_3_6_png.rf.f5d975605c1f73e1a95a1d8edc4ce5b1.jpg
 extracting: test/images/4b770a_3_9_png.rf.22d1d145cb9f501574d4db673f2a6be2.jpg
 extracting: test/images/4b770a_5_1_png.rf.d8a5a4da1f678df3472494291bc5530b.jpg
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 extracting: test/images/538438_5_2_png.rf.fe0aa7ce02fc919f38793a0098a917ec.jpg
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 extracting: test/images/798b45_3_3_png.rf.f5479e3b29e91874aaa4ed87e7d08b4a.jpg
 extracting: test/images/798b45_7_8_png.rf.95f8b6996ac5ac7ec5151e0f3e4cfe1c.jpg
 extracting: test/images/a9f16c_2_10_png.rf.f29e544daf06eb8b4e968d158a40af1b.jpg
 extracting: test/images/a9f16c_2_9_png.rf.c048a60764e56735d7465cdec974d102.jpg
   creating: test/labels/
  inflating: test/labels/08fd33_3_6_png.rf.bee65249830b3e263ebe95a999f39e34.txt
  inflating: test/labels/08fd33_9_3_png.rf.f5439a0d252bbf8a8ce96169744b49b6.txt
  inflating: test/labels/40cd38_7_6_png.rf.dc7957fcce915bc48188f18a7b19455b.txt
  inflating: test/labels/42ba34_1_5_png.rf.927d602c034ce2997f58f62a7c1245ba.txt
  inflating: test/labels/42ba34_5_5_png.rf.f691b18c36a92663c7241c99d4202bcc.txt
  inflating: test/labels/4b770a_1_4_png.rf.8a0f6be9776a652d40938181f60b3a6c.txt
  inflating: test/labels/4b770a_1_6_png.rf.160e1a893e4dfa9d94b7417ecfd75887.txt
  inflating: test/labels/4b770a_1_8_png.rf.2fbe7dd2211e33397eb1879a0182bcda.txt
  inflating: test/labels/4b770a_3_6_png.rf.f5d975605c1f73e1a95a1d8edc4ce5b1.txt
  inflating: test/labels/4b770a_3_9_png.rf.22d1d145cb9f501574d4db673f2a6be2.txt
  inflating: test/labels/4b770a_5_1_png.rf.d8a5a4da1f678df3472494291bc5530b.txt
  inflating: test/labels/4b770a_9_3_png.rf.60130afd67b1e1be990e5af343f20c46.txt
  inflating: test/labels/4b770a_9_4_png.rf.f17c47d5130fe9e6a29ef7cac40b35ef.txt
  inflating: test/labels/538438_3_6_png.rf.c3cb17368af4b60270d0c2f067faf5e8.txt
  inflating: test/labels/538438_5_2_png.rf.fe0aa7ce02fc919f38793a0098a917ec.txt
  inflating: test/labels/573e61_1_9_png.rf.3e04feabb7fa88ed2691adcb5034e6ae.txt
  inflating: test/labels/573e61_9_6_png.rf.f7756714cdfe79da92e3e99837b7b655.txt
  inflating: test/labels/744b27_1_10_png.rf.322f9266079f0424f6aebb23c23cc6de.txt
  inflating: test/labels/744b27_7_4_png.rf.f34ba47e8f30126bc935832bd269ef19.txt
```

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  inflating: test/labels/744b27_9_9_png.rf.1600b8abf2a9ae799312009febc9002e.txt
  inflating: test/labels/798b45_3_10_png.rf.ea580122e6acfcd9b36ae34551faa904.txt
  inflating: test/labels/798b45_3_3_png.rf.f5479e3b29e91874aaa4ed87e7d08b4a.txt
  inflating: test/labels/798b45_7_8_png.rf.95f8b6996ac5ac7ec5151e0f3e4cfe1c.txt
  inflating: test/labels/a9f16c_2_10_png.rf.f29e544daf06eb8b4e968d158a40af1b.txt
  inflating: test/labels/a9f16c_2_9_png.rf.c048a60764e56735d7465cdec974d102.txt
   creating: train/
   creating: train/images/
 extracting:
train/images/08fd33_0_10_png.rf.a6b65fe79fde62de2bfb62ce60e07447.jpg
 extracting: train/images/08fd33_0_1_png.rf.900dd44a99ecb4a8bcca84ff3cf4eba1.jpg
 extracting: train/images/08fd33_0_2_png.rf.aaa83da451591cfdc0bb0738f2d319fc.jpg
 extracting: train/images/08fd33_0_3_png.rf.7823848d50460a8480b8305ffb8bb06b.jpg
 extracting: train/images/08fd33_0_4_png.rf.e88faf1604461e147c87a8b1f08444b2.jpg
 extracting: train/images/08fd33_0_5_png.rf.91baa678d8a9a9962cedaf837148026b.jpg
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train/images/08fd33_3_10_png.rf.2cc6bd66c45524370ef495e7c118855b.jpg
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 extracting: train/images/08fd33_3_4_png.rf.c6ab7018df2c85a328b90d062625e6eb.jpg
 extracting: train/images/08fd33_3_5_png.rf.664dcd157290810866ee616d97274cc6.jpg
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extracting: train/images/4b770a_1_2_png.rf.7f2f0277f9f8766de6e679267028b8a5.jpg
extracting: train/images/4b770a_1_3_png.rf.c737eb384ac5d63678cae52bbd2b9a0e.jpg
extracting: train/images/4b770a_1_5_png.rf.fc9f39154f902134b487d206f4cf1258.jpg
extracting: train/images/4b770a_1_7_png.rf.03c041a6cb4d39b2c2f427c51a44ddf3.jpg
extracting: train/images/4b770a_1_9_png.rf.3fc32a548ec5e76c2886b5b8672aa154.jpg
extracting:
train/images/4b770a_3_10_png.rf.0d1ab675182488ecd313d0e38290e8d3.jpg
extracting: train/images/4b770a_3_2_png.rf.31806c4d4b6a57caca3551e1f0f6c2ad.jpg
extracting: train/images/4b770a_3_3_png.rf.e543cd932e831ff9b8f7380018042b3d.jpg
extracting: train/images/4b770a_3_4_png.rf.cacc7055e1e6f0213d409e1c13846a90.jpg
extracting: train/images/4b770a_3_5_png.rf.f4062679c76f95b27d5f7d6a57fb6976.jpg
extracting: train/images/4b770a_3_8_png.rf.8f13e1cb0bf5315f739b6c75b8da6452.jpg
extracting: train/images/4b770a_5_2_png.rf.e75ab46a413e02628ecb8cdf3cf5d265.jpg
extracting: train/images/4b770a_5_3_png.rf.aceadf32220eed2ebf81c428f2d7614c.jpg
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train/labels/573e61_7_10_png.rf.da552c206c4025ef3cfdd988454d2d2d.txt
inflating: train/labels/573e61_7_3_png.rf.bdf4a90029abe489328cbd32116d124d.txt
inflating: train/labels/573e61_7_8_png.rf.2f3c80e22962ac596b2355989024f77f.txt
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train/labels/573e61_9_10_png.rf.e875c4415e22fb7dd27e9e085651d652.txt
inflating: train/labels/573e61_9_1_png.rf.14cd379e2c6f8d9efa15530b4824ef2d.txt
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inflating: train/labels/744b27_1_5_png.rf.a16e4084ca230372bf9c577d7a0ec3a2.txt
inflating: train/labels/744b27_1_9_png.rf.c45be4320a6feca132060f1386ab06e6.txt
inflating:
train/labels/744b27_3_10_png.rf.c9027a3dc1101019eb25ed42714f7eac.txt
inflating: train/labels/744b27_3_1_png.rf.c54cf63d4e3fd4da0f93e289273e8e79.txt
inflating: train/labels/744b27_3_2_png.rf.800113a240b2b690bd383e0a9602b8d7.txt
inflating: train/labels/744b27_3_3_png.rf.0a5616a37c8bb4e5ee5fb74f5d4d45db.txt
inflating: train/labels/744b27_3_4_png.rf.c6743505c4cab1ffa11ecf5a981f58ab.txt
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  inflating:
train/labels/744b27_5_10_png.rf.d80e8590b0d88803779339425ed3aad8.txt
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  inflating: train/labels/744b27_5_2_png.rf.ac135c41a2e5659ce845edb57e3e2d1f.txt
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  inflating: train/labels/744b27_5_4_png.rf.c4c56cb4773dd2ad1156418603996a82.txt
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  inflating: train/labels/744b27_5_6_png.rf.d2de5a79bcbf6a0fed6487c2765a950c.txt
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  inflating:
train/labels/744b27_7_10_png.rf.38f28216026387b3cbb3118bbf3fe9d7.txt
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  inflating: train/labels/744b27_7_3_png.rf.fdfedff8c05e9960915e7c6cf61007a3.txt
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  inflating: train/labels/798b45_1_4_png.rf.374549668def0ff5e92f5c886844e2b4.txt
  inflating: train/labels/798b45_1_5_png.rf.484c0a49072c2e0a8f206a9a863be282.txt
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  inflating: train/labels/798b45_3_1_png.rf.5a28b096a206b1d1318e89a16f33497a.txt
  inflating: train/labels/798b45_3_2_png.rf.1f1f02c5d8f430bde44708a0a9bee7cf.txt
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  inflating: train/labels/a9f16c_2_2_png.rf.d481bd533af8f9e338e17911a6ffa1b3.txt
  inflating: train/labels/a9f16c_2_3_png.rf.82a3e7d87da2e5f3579da6de7f68a8b2.txt
  inflating: train/labels/a9f16c_2_6_png.rf.cc41903ef80254f9891529e982cd3102.txt
```

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  inflating: train/labels/a9f16c_8_4_png.rf.e2dc216b69e2955518194d565b1475f6.txt
  inflating: train/labels/a9f16c_8_5_png.rf.0ac3bfd7f4699a39036d03efd35f33f7.txt
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   creating: valid/images/
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 extracting:
valid/images/2e57b9_3_10_png.rf.6501f2d4a456a235edc4f543acc96cdf.jpg
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 extracting:
valid/images/a9f16c_8_10_png.rf.3028b2b8a61ac775683f2f11f6293053.jpg
   creating: valid/labels/
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```

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  inflating:
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  inflating: valid/labels/2e57b9_3_2_png.rf.9c5df01a69b7d4e4c3b4670817a3ead3.txt
  inflating: valid/labels/2e57b9_3_8_png.rf.27a64da783d4729880af00ab0704cb26.txt
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  inflating: valid/labels/2e57b9_9_1_png.rf.7fa5686fe9d6d22ecc80aa124df3c805.txt
  inflating: valid/labels/2e57b9_9_4_png.rf.9f8c5a4c2d82d8f9f724b0ccc941e4f1.txt
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  inflating: valid/labels/744b27_7_1_png.rf.7335021ba416416693ed7ae6f6f6a382.txt
  inflating: valid/labels/744b27_7_5_png.rf.d5deafb9fee0c2ba7be675ca528b08df.txt
  inflating: valid/labels/744b27_7_6_png.rf.a1a5878ac806348acde7fd79abc78e82.txt
  inflating: valid/labels/744b27_7_7_png.rf.2f9964a882fa25f59bd62dde6867f6cb.txt
  inflating: valid/labels/744b27_9_8_png.rf.7b00f9f77e6bb12572f01620d39732c4.txt
  inflating: valid/labels/798b45_1_1_png.rf.410ced72bdcf784e47dd5d2920bae574.txt
  inflating: valid/labels/798b45_1_2_png.rf.f85272a367d64f62d3fa1bed8750cbb0.txt
  inflating: valid/labels/798b45_7_4_png.rf.c6884cb33be843080f1f9c6e3e7e5f75.txt
  inflating: valid/labels/798b45_7_5_png.rf.c9cc082832be80adb59eeb4737119bf4.txt
  inflating: valid/labels/798b45_9_7_png.rf.27e31a1e4981fe613104eb088e47c1ec.txt
  inflating: valid/labels/798b45_9_8_png.rf.938485d72eb836daf7594f478a7b2e4d.txt
  inflating:
valid/labels/a9f16c_8_10_png.rf.3028b2b8a61ac775683f2f11f6293053.txt
```

```
## Adaptación - Edición del archivo /content/yolov7/data/football-player/data.
  yaml
#train: data/football-player/train/images
#val: data/football-player/valid/images
#test: data/football-player/test/images
```

1.3 Entrenamiento

```
[28]: !python train.py --epochs 100 --workers 8 --device 0 --batch-size 16 --data
      data/football-player/data.yaml --img 640 640 --cfg cfg/training/yolov7.yaml
      --weights '' --name yolov7-football --hyp data/hyp.scratch.p5.yaml
```

```
2024-10-06 22:42:18.114828: I tensorflow/core/util/port.cc:153] oneDNN custom
operations are on. You may see slightly different numerical results due to
floating-point round-off errors from different computation orders. To turn them
off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`.
2024-10-06 22:42:18.132871: E
external/local_xla/xla/stream_executor/cuda/cuda_fft.cc:485] Unable to register
cuFFT factory: Attempting to register factory for plugin cuFFT when one has
already been registered
2024-10-06 22:42:18.154243: E
external/local_xla/xla/stream_executor/cuda/cuda_dnn.cc:8454] Unable to register
cuDNN factory: Attempting to register factory for plugin cuDNN when one has
already been registered
2024-10-06 22:42:18.160759: E
external/local_xla/xla/stream_executor/cuda/cuda_blas.cc:1452] Unable to
register cuBLAS factory: Attempting to register factory for plugin cuBLAS when
one has already been registered
2024-10-06 22:42:18.176636: I tensorflow/core/platform/cpu_feature_guard.cc:210]
This TensorFlow binary is optimized to use available CPU instructions in
performance-critical operations.
To enable the following instructions: AVX2 AVX512F AVX512_VNNI FMA, in other
operations, rebuild TensorFlow with the appropriate compiler flags.
2024-10-06 22:42:19.339881: W
tensorflow/compiler/tf2tensorrt/utils/py_utils.cc:38] TF-TRT Warning: Could not
find TensorRT
YOLOR  v0.1-128-ga207844 torch 2.4.1+cu121 CUDA:0 (NVIDIA A100-SXM4-40GB,
40513.8125MB)

Namespace(weights='', cfg='cfg/training/yolov7.yaml', data='data/football-
player/data.yaml', hyp='data/hyp.scratch.p5.yaml', epochs=100, batch_size=16,
img_size=[640, 640], rect=False, resume=False, nosave=False, notest=False,
noautoanchor=False, evolve=False, bucket='', cache_images=False,
image_weights=False, device='0', multi_scale=False, single_cls=False,
adam=False, sync_bn=False, local_rank=-1, workers=8, project='runs/train',
entity=None, name='yolov7-football', exist_ok=False, quad=False,
linear_lr=False, label_smoothing=0.0, upload_dataset=False, bbox_interval=-1,
```

save_period=-1, artifact_alias='latest', freeze=[0], v5_metric=False,
world_size=1, global_rank=-1, save_dir='runs/train/yolov7-football14',
total_batch_size=16)
tensorboard: Start with 'tensorboard --logdir runs/train', view at
http://localhost:6006/
hyperparameters: lr0=0.01, lrf=0.1, momentum=0.937,
weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1,
box=0.05, cls=0.3, cls_pw=1.0, obj=0.7, obj_pw=1.0, iou_t=0.2, anchor_t=4.0,
fl_gamma=0.0, hsv_h=0.015, hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.2,
scale=0.9, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0,
mixup=0.15, copy_paste=0.0, paste_in=0.15, loss_ota=1
wandb: Install Weights & Biases for YOLOR logging with 'pip install
wandb' (recommended)
Overriding model.yaml nc=80 with nc=4

	from	n	params	module	arguments
0	-1	1	928	models.common.Conv	[3, 32, 3, 1]
1	-1	1	18560	models.common.Conv	[32, 64, 3, 2]
2	-1	1	36992	models.common.Conv	[64, 64, 3, 1]
3	-1	1	73984	models.common.Conv	[64, 128, 3, 2]
4	-1	1	8320	models.common.Conv	[128, 64, 1, 1]
5	-2	1	8320	models.common.Conv	[128, 64, 1, 1]
6	-1	1	36992	models.common.Conv	[64, 64, 3, 1]
7	-1	1	36992	models.common.Conv	[64, 64, 3, 1]
8	-1	1	36992	models.common.Conv	[64, 64, 3, 1]
9	-1	1	36992	models.common.Conv	[64, 64, 3, 1]
10	[-1, -3, -5, -6]	1	0	models.common.Concat	[1]
11	-1	1	66048	models.common.Conv	[256, 256, 1, 1]
12	-1	1	0	models.common.MP	[]
13	-1	1	33024	models.common.Conv	[256, 128, 1, 1]
14	-3	1	33024	models.common.Conv	[256, 128, 1, 1]
15	-1	1	147712	models.common.Conv	[128, 128, 3, 2]
16	[-1, -3]	1	0	models.common.Concat	[1]

```
17                    -1  1      33024  models.common.Conv
[256, 128, 1, 1]
18                    -2  1      33024  models.common.Conv
[256, 128, 1, 1]
19                    -1  1     147712  models.common.Conv
[128, 128, 3, 1]
20                    -1  1     147712  models.common.Conv
[128, 128, 3, 1]
21                    -1  1     147712  models.common.Conv
[128, 128, 3, 1]
22                    -1  1     147712  models.common.Conv
[128, 128, 3, 1]
23   [-1, -3, -5, -6]  1          0  models.common.Concat                     [1]
24                    -1  1     263168  models.common.Conv
[512, 512, 1, 1]
25                    -1  1          0  models.common.MP                        []
26                    -1  1     131584  models.common.Conv
[512, 256, 1, 1]
27                    -3  1     131584  models.common.Conv
[512, 256, 1, 1]
28                    -1  1     590336  models.common.Conv
[256, 256, 3, 2]
29           [-1, -3]  1          0  models.common.Concat                     [1]
30                    -1  1     131584  models.common.Conv
[512, 256, 1, 1]
31                    -2  1     131584  models.common.Conv
[512, 256, 1, 1]
32                    -1  1     590336  models.common.Conv
[256, 256, 3, 1]
33                    -1  1     590336  models.common.Conv
[256, 256, 3, 1]
34                    -1  1     590336  models.common.Conv
[256, 256, 3, 1]
35                    -1  1     590336  models.common.Conv
[256, 256, 3, 1]
36   [-1, -3, -5, -6]  1          0  models.common.Concat                     [1]
37                    -1  1    1050624  models.common.Conv
[1024, 1024, 1, 1]
38                    -1  1          0  models.common.MP                        []
39                    -1  1     525312  models.common.Conv
[1024, 512, 1, 1]
40                    -3  1     525312  models.common.Conv
[1024, 512, 1, 1]
41                    -1  1    2360320  models.common.Conv
[512, 512, 3, 2]
42           [-1, -3]  1          0  models.common.Concat                     [1]
43                    -1  1     262656  models.common.Conv
[1024, 256, 1, 1]
```

```
 44                 -2  1   262656  models.common.Conv
[1024, 256, 1, 1]
 45                 -1  1   590336  models.common.Conv
[256, 256, 3, 1]
 46                 -1  1   590336  models.common.Conv
[256, 256, 3, 1]
 47                 -1  1   590336  models.common.Conv
[256, 256, 3, 1]
 48                 -1  1   590336  models.common.Conv
[256, 256, 3, 1]
 49  [-1, -3, -5, -6]  1        0  models.common.Concat                [1]
 50                 -1  1  1050624  models.common.Conv
[1024, 1024, 1, 1]
 51                 -1  1  7609344  models.common.SPPCSPC
[1024, 512, 1]
 52                 -1  1   131584  models.common.Conv
[512, 256, 1, 1]
 53                 -1  1        0  torch.nn.modules.upsampling.Upsample
[None, 2, 'nearest']
 54                 37  1   262656  models.common.Conv
[1024, 256, 1, 1]
 55            [-1, -2]  1        0  models.common.Concat                [1]
 56                 -1  1   131584  models.common.Conv
[512, 256, 1, 1]
 57                 -2  1   131584  models.common.Conv
[512, 256, 1, 1]
 58                 -1  1   295168  models.common.Conv
[256, 128, 3, 1]
 59                 -1  1   147712  models.common.Conv
[128, 128, 3, 1]
 60                 -1  1   147712  models.common.Conv
[128, 128, 3, 1]
 61                 -1  1   147712  models.common.Conv
[128, 128, 3, 1]
 62[-1, -2, -3, -4, -5, -6]  1        0  models.common.Concat
[1]
 63                 -1  1   262656  models.common.Conv
[1024, 256, 1, 1]
 64                 -1  1    33024  models.common.Conv
[256, 128, 1, 1]
 65                 -1  1        0  torch.nn.modules.upsampling.Upsample
[None, 2, 'nearest']
 66                 24  1    65792  models.common.Conv
[512, 128, 1, 1]
 67            [-1, -2]  1        0  models.common.Concat                [1]
 68                 -1  1    33024  models.common.Conv
[256, 128, 1, 1]
 69                 -2  1    33024  models.common.Conv
```

```
[256, 128, 1, 1]
 70                   -1  1      73856  models.common.Conv
[128, 64, 3, 1]
 71                   -1  1      36992  models.common.Conv                        [64,
64, 3, 1]
 72                   -1  1      36992  models.common.Conv                        [64,
64, 3, 1]
 73                   -1  1      36992  models.common.Conv                        [64,
64, 3, 1]
 74[-1, -2, -3, -4, -5, -6]  1        0  models.common.Concat
[1]
 75                   -1  1      65792  models.common.Conv
[512, 128, 1, 1]
 76                   -1  1          0  models.common.MP                          []
 77                   -1  1      16640  models.common.Conv
[128, 128, 1, 1]
 78                   -3  1      16640  models.common.Conv
[128, 128, 1, 1]
 79                   -1  1     147712  models.common.Conv
[128, 128, 3, 2]
 80       [-1, -3, 63]  1          0  models.common.Concat                      [1]
 81                   -1  1     131584  models.common.Conv
[512, 256, 1, 1]
 82                   -2  1     131584  models.common.Conv
[512, 256, 1, 1]
 83                   -1  1     295168  models.common.Conv
[256, 128, 3, 1]
 84                   -1  1     147712  models.common.Conv
[128, 128, 3, 1]
 85                   -1  1     147712  models.common.Conv
[128, 128, 3, 1]
 86                   -1  1     147712  models.common.Conv
[128, 128, 3, 1]
 87[-1, -2, -3, -4, -5, -6]  1        0  models.common.Concat
[1]
 88                   -1  1     262656  models.common.Conv
[1024, 256, 1, 1]
 89                   -1  1          0  models.common.MP                          []
 90                   -1  1      66048  models.common.Conv
[256, 256, 1, 1]
 91                   -3  1      66048  models.common.Conv
[256, 256, 1, 1]
 92                   -1  1     590336  models.common.Conv
[256, 256, 3, 2]
 93       [-1, -3, 51]  1          0  models.common.Concat                      [1]
 94                   -1  1     525312  models.common.Conv
[1024, 512, 1, 1]
 95                   -2  1     525312  models.common.Conv
```

```
[1024, 512, 1, 1]
 96                     -1  1   1180160  models.common.Conv
[512, 256, 3, 1]
 97                     -1  1    590336  models.common.Conv
[256, 256, 3, 1]
 98                     -1  1    590336  models.common.Conv
[256, 256, 3, 1]
 99                     -1  1    590336  models.common.Conv
[256, 256, 3, 1]
100[-1, -2, -3, -4, -5, -6]  1        0  models.common.Concat
[1]
101                    -1  1   1049600  models.common.Conv
[2048, 512, 1, 1]
102                    75  1    328704  models.common.RepConv
[128, 256, 3, 1]
103                    88  1   1312768  models.common.RepConv
[256, 512, 3, 1]
104                   101  1   5246976  models.common.RepConv
[512, 1024, 3, 1]
105   [102, 103, 104]  1     50338  models.yolo.IDetect             [4,
[[12, 16, 19, 36, 40, 28], [36, 75, 76, 55, 72, 146], [142, 110, 192, 243, 459,
401]], [256, 512, 1024]]
Model Summary: 415 layers, 37212738 parameters, 37212738 gradients

Scaled weight_decay = 0.0005
Optimizer groups: 95 .bias, 95 conv.weight, 98 other
/content/yolov7/utils/datasets.py:392: FutureWarning: You are using `torch.load`
with `weights_only=False` (the current default value), which uses the default
pickle module implicitly. It is possible to construct malicious pickle data
which will execute arbitrary code during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
more details). In a future release, the default value for `weights_only` will be
flipped to `True`. This limits the functions that could be executed during
unpickling. Arbitrary objects will no longer be allowed to be loaded via this
mode unless they are explicitly allowlisted by the user via
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control of the
loaded file. Please open an issue on GitHub for any issues related to this
experimental feature.
  cache, exists = torch.load(cache_path), True  # load
```
train: Scanning 'data/football-player/train/labels.cache' images
and labels… 298 found, 0 missing, 0 empty, 0 corrupted: 100% 298/298 [00:00<?,
?it/s]
```
/usr/lib/python3.10/multiprocessing/popen_fork.py:66: RuntimeWarning: os.fork()
was called. os.fork() is incompatible with multithreaded code, and JAX is
multithreaded, so this will likely lead to a deadlock.
  self.pid = os.fork()
```
val: Scanning 'data/football-player/valid/labels.cache' images and

labels… 49 found, 0 missing, 0 empty, 0 corrupted: 100% 49/49 [00:00<?, ?it/s]

autoanchor: Analyzing anchors… anchors/target = 2.53, Best
Possible Recall (BPR) = 0.9937
/content/yolov7/train.py:299: FutureWarning:
`torch.cuda.amp.GradScaler(args…)` is deprecated. Please use
`torch.amp.GradScaler('cuda', args…)` instead.
  scaler = amp.GradScaler(enabled=cuda)
Image sizes 640 train, 640 test
Using 8 dataloader workers
Logging results to runs/train/yolov7-football14
Starting training for 100 epochs…

Epoch	gpu_mem	box	obj	cls	total	labels	img_size

  0% 0/19 [00:00<?, ?it/s]/content/yolov7/train.py:360: FutureWarning:
`torch.cuda.amp.autocast(args…)` is deprecated. Please use
`torch.amp.autocast('cuda', args…)` instead.
  with amp.autocast(enabled=cuda):

| 0/99 | 2.07G | 0.06089 | 0.02806 | 0.01732 | 0.1063 | 306 | |

640: 100% 19/19 [00:25<00:00, 1.32s/it]

Class	Images	Labels	P	R	mAP@.5

mAP@.5:.95:   0% 0/2 [00:00<?, ?it/s]/usr/local/lib/python3.10/dist-
packages/torch/functional.py:513: UserWarning: torch.meshgrid: in an upcoming
release, it will be required to pass the indexing argument. (Triggered
internally at ../aten/src/ATen/native/TensorShape.cpp:3609.)
  return _VF.meshgrid(tensors, **kwargs) # type: ignore[attr-defined]

Class	Images	Labels	P	R	mAP@.5

mAP@.5:.95: 100% 2/2 [00:15<00:00, 7.97s/it]

| all | 49 | 0 | 0 | 0 | 0 |
| 0 | | | | | |

Epoch	gpu_mem	box	obj	cls	total	labels	img_size
1/99	14.1G	0.05916	0.02612	0.01569	0.101	450	

640: 100% 19/19 [00:06<00:00, 2.84it/s]

Class	Images	Labels	P	R	mAP@.5

mAP@.5:.95: 100% 2/2 [00:00<00:00, 4.25it/s]

| all | 49 | 0 | 0 | 0 | 0 |
| 0 | | | | | |

Epoch	gpu_mem	box	obj	cls	total	labels	img_size
2/99	17.4G	0.05861	0.02564	0.01405	0.0983	249	

640: 100% 19/19 [00:06<00:00, 2.80it/s]

Class	Images	Labels	P	R	mAP@.5

mAP@.5:.95: 100% 2/2 [00:00<00:00, 4.07it/s]

| all | 49 | 0 | 0 | 0 | 0 |
| 0 | | | | | |

Epoch	gpu_mem	box	obj	cls	total	labels	img_size

```
     3/99      17.4G    0.05851    0.02301    0.01289    0.09441         245
640: 100% 19/19 [00:06<00:00,  2.80it/s]
                Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.78it/s]
                  all          49           0           0           0           0
0


     Epoch   gpu_mem        box         obj         cls       total      labels   img_size
     4/99      17.4G    0.05756    0.02358    0.01204    0.09319         492
640: 100% 19/19 [00:06<00:00,  2.94it/s]
                Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.99it/s]
                  all          49           0           0           0           0
0


     Epoch   gpu_mem        box         obj         cls       total      labels   img_size
     5/99      17.4G    0.05869    0.02172    0.01121    0.09161         430
640: 100% 19/19 [00:06<00:00,  2.80it/s]
                Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  4.77it/s]
                  all          49        1174    0.000323     0.00488    8.29e-06
1.41e-06


     Epoch   gpu_mem        box         obj         cls       total      labels   img_size
     6/99      17.4G    0.05878     0.0225    0.01072       0.092         233
640: 100% 19/19 [00:06<00:00,  2.95it/s]
                Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  5.80it/s]
                  all          49        1174     0.00029     0.00437    7.42e-06
1.38e-06


     Epoch   gpu_mem        box         obj         cls       total      labels   img_size
     7/99      17.4G    0.05695    0.02198   0.009998    0.08893          81
640: 100% 19/19 [00:06<00:00,  2.87it/s]
                Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  5.76it/s]
                  all          49        1174    0.000329     0.00488    1.12e-05
2.64e-06


     Epoch   gpu_mem        box         obj         cls       total      labels   img_size
     8/99      17.4G    0.06181    0.02195   0.009964    0.09373         449
640: 100% 19/19 [00:06<00:00,  2.93it/s]
                Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  5.53it/s]
                  all          49        1174    0.000343     0.00488     1.1e-05
1.94e-06


     Epoch   gpu_mem        box         obj         cls       total      labels   img_size
```

```
     9/99      17.4G    0.05673    0.02269    0.009025    0.08845          439
640: 100% 19/19 [00:06<00:00,  3.00it/s]
               Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  5.32it/s]
                 all          49        1174    0.000498     0.00694    2.39e-05
4.31e-06


     Epoch   gpu_mem         box         obj         cls       total      labels   img_size
    10/99      17.4G    0.05749    0.02264    0.009167    0.08929          280
640: 100% 19/19 [00:06<00:00,  3.01it/s]
               Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  4.59it/s]
                 all          49        1174     0.00113     0.00385    3.75e-05
6.07e-06


     Epoch   gpu_mem         box         obj         cls       total      labels   img_size
    11/99      17.4G    0.05956    0.02143    0.008842    0.08982          186
640: 100% 19/19 [00:06<00:00,  2.96it/s]
               Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.72it/s]
                 all          49        1174    0.000785     0.00308    2.15e-05
5e-06


     Epoch   gpu_mem         box         obj         cls       total      labels   img_size
    12/99      17.4G    0.06019    0.02136    0.009211    0.09076          413
640: 100% 19/19 [00:06<00:00,  2.94it/s]
               Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.36it/s]
                 all          49        1174     0.00909     0.00874    0.000915
0.00023


     Epoch   gpu_mem         box         obj         cls       total      labels   img_size
    13/99      17.4G    0.05843    0.02182    0.009151     0.0894          430
640: 100% 19/19 [00:06<00:00,  2.95it/s]
               Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.31it/s]
                 all          49        1174      0.0275      0.0193     0.00466
0.00119


     Epoch   gpu_mem         box         obj         cls       total      labels   img_size
    14/99      17.4G    0.05841    0.02142    0.008551    0.08838          305
640: 100% 19/19 [00:06<00:00,  2.99it/s]
               Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.20it/s]
                 all          49        1174      0.0259      0.0236     0.00708
0.00138


     Epoch   gpu_mem         box         obj         cls       total      labels   img_size
```

```
    15/99      17.4G    0.05182    0.02259    0.007236    0.08164        356
640: 100% 19/19 [00:06<00:00,  3.01it/s]
              Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.00it/s]
                all          49        1174       0.296      0.0411       0.0156
0.00362

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    16/99      17.4G    0.04956    0.02179    0.006773    0.07813        413
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.08it/s]
                all          49        1174       0.819      0.0668       0.0352
0.00956

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    17/99      17.4G    0.04763      0.022    0.006812    0.07644        332
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.65it/s]
                all          49        1174       0.848      0.0686       0.0529
0.0152

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    18/99      17.4G    0.04675    0.02006    0.006369    0.07318        268
640: 100% 19/19 [00:06<00:00,  2.94it/s]
              Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.28it/s]
                all          49        1174       0.857      0.0884       0.072
0.0195

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    19/99      17.4G    0.04429    0.01907     0.00699    0.07035        314
640: 100% 19/19 [00:06<00:00,  3.06it/s]
              Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  2.96it/s]
                all          49        1174       0.844      0.0975       0.0732
0.0171

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    20/99      17.4G     0.0458      0.021    0.006933    0.07374        344
640: 100% 19/19 [00:06<00:00,  2.97it/s]
              Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  5.13it/s]
                all          49        1174      0.0143      0.0054      0.00165
0.000556

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
```

```
    21/99     17.4G    0.04279    0.02053   0.006806    0.07012        309
640: 100% 19/19 [00:06<00:00,  3.01it/s]
              Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.64it/s]
                all          49        1174      0.0659       0.057      0.0343
0.00744


    Epoch   gpu_mem        box         obj         cls      total      labels   img_size
    22/99     17.4G    0.04172    0.02072   0.007145    0.06958        368
640: 100% 19/19 [00:06<00:00,  2.99it/s]
              Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  2.97it/s]
                all          49        1174       0.881       0.143       0.124
0.0338


    Epoch   gpu_mem        box         obj         cls      total      labels   img_size
    23/99     17.4G    0.04148    0.01935   0.006703    0.06754        415
640: 100% 19/19 [00:06<00:00,  3.05it/s]
              Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.60it/s]
                all          49        1174       0.808      0.0879       0.042
0.00728


    Epoch   gpu_mem        box         obj         cls      total      labels   img_size
    24/99     17.4G    0.04065    0.01994   0.007025    0.06762        448
640: 100% 19/19 [00:06<00:00,  2.95it/s]
              Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.51it/s]
                all          49        1174       0.863       0.126      0.0949
0.0202


    Epoch   gpu_mem        box         obj         cls      total      labels   img_size
    25/99     17.4G     0.0392    0.01881   0.006949    0.06496        206
640: 100% 19/19 [00:06<00:00,  3.11it/s]
              Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.16it/s]
                all          49        1174        0.12       0.148       0.115
0.0244


    Epoch   gpu_mem        box         obj         cls      total      labels   img_size
    26/99     17.4G    0.03789    0.02114   0.006408    0.06543        207
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.10it/s]
                all          49        1174       0.885       0.168        0.14
0.0372


    Epoch   gpu_mem        box         obj         cls      total      labels   img_size
```

```
    27/99      17.4G    0.04036    0.01814   0.006932     0.06543          347
640: 100% 19/19 [00:06<00:00,  3.02it/s]
               Class        Images       Labels          P            R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.38it/s]
                 all           49          1174        0.855        0.123       0.0877
0.0188

    Epoch    gpu_mem       box         obj         cls       total       labels   img_size
    28/99      17.4G    0.03938    0.02192   0.006891     0.06819          518
640: 100% 19/19 [00:06<00:00,  2.99it/s]
               Class        Images       Labels          P            R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.45it/s]
                 all           49          1174        0.854        0.122       0.0871
0.0178

    Epoch    gpu_mem       box         obj         cls       total       labels   img_size
    29/99      17.4G    0.03835    0.01909   0.006496     0.06394          367
640: 100% 19/19 [00:06<00:00,  3.11it/s]
               Class        Images       Labels          P            R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.20it/s]
                 all           49          1174        0.932        0.176        0.188
0.0596

    Epoch    gpu_mem       box         obj         cls       total       labels   img_size
    30/99      17.4G    0.03916    0.02012   0.006913     0.06619          392
640: 100% 19/19 [00:06<00:00,  3.03it/s]
               Class        Images       Labels          P            R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.33it/s]
                 all           49          1174        0.883        0.174        0.138
0.0342

    Epoch    gpu_mem       box         obj         cls       total       labels   img_size
    31/99      17.4G    0.03591    0.02021   0.007219     0.06334          262
640: 100% 19/19 [00:06<00:00,  3.07it/s]
               Class        Images       Labels          P            R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.24it/s]
                 all           49          1174        0.939        0.185        0.195
0.0672

    Epoch    gpu_mem       box         obj         cls       total       labels   img_size
    32/99      17.4G    0.03683    0.01962   0.006903     0.06335          281
640: 100% 19/19 [00:06<00:00,  3.00it/s]
               Class        Images       Labels          P            R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.29it/s]
                 all           49          1174        0.915         0.19        0.181
0.0481

    Epoch    gpu_mem       box         obj         cls       total       labels   img_size
```

```
    33/99      17.4G    0.03631     0.0236   0.007264     0.06717         323
640: 100% 19/19 [00:06<00:00,  2.93it/s]
              Class      Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.56it/s]
                all          49        1174        0.624       0.135       0.119
0.0378

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    34/99      17.4G    0.03709    0.02094   0.007126     0.06515         223
640: 100% 19/19 [00:06<00:00,  3.07it/s]
              Class      Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.44it/s]
                all          49        1174        0.887       0.165       0.136
0.0308

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    35/99      17.4G    0.03476    0.01839   0.007124     0.06027         353
640: 100% 19/19 [00:06<00:00,  3.01it/s]
              Class      Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.28it/s]
                all          49        1174        0.927        0.18       0.182
0.0521

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    36/99      17.4G    0.03466     0.0218    0.00707     0.06354         305
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class      Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.08it/s]
                all          49        1174         0.94        0.19       0.203
0.0722

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    37/99      17.4G    0.03394    0.01912   0.006796     0.05985         240
640: 100% 19/19 [00:06<00:00,  2.96it/s]
              Class      Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.29it/s]
                all          49        1174        0.939        0.18        0.18
0.0519

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
    38/99      17.4G    0.03373    0.01944   0.006978     0.06015         285
640: 100% 19/19 [00:06<00:00,  3.08it/s]
              Class      Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.44it/s]
                all          49        1174        0.935       0.185       0.196
0.0659

    Epoch   gpu_mem        box        obj        cls       total      labels   img_size
```

31

```
     39/99     17.4G   0.03659    0.0184  0.006741   0.06174        148
640: 100% 19/19 [00:06<00:00,  3.03it/s]
             Class      Images     Labels         P         R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.17it/s]
               all         49       1174     0.931      0.19      0.191
0.0581

     Epoch   gpu_mem       box       obj       cls     total    labels  img_size
     40/99     17.4G   0.03435   0.01714  0.006909    0.0584        368
640: 100% 19/19 [00:06<00:00,  3.08it/s]
             Class      Images     Labels         P         R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.35it/s]
               all         49       1174     0.946     0.204      0.212
0.0782

     Epoch   gpu_mem       box       obj       cls     total    labels  img_size
     41/99     17.4G   0.03235   0.01795  0.006516   0.05681        541
640: 100% 19/19 [00:06<00:00,  2.96it/s]
             Class      Images     Labels         P         R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.38it/s]
               all         49       1174     0.945     0.202      0.213
0.0767

     Epoch   gpu_mem       box       obj       cls     total    labels  img_size
     42/99     17.4G   0.03319   0.01783  0.006551   0.05757        258
640: 100% 19/19 [00:06<00:00,  3.06it/s]
             Class      Images     Labels         P         R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.44it/s]
               all         49       1174     0.954     0.199      0.217
0.089

     Epoch   gpu_mem       box       obj       cls     total    labels  img_size
     43/99     17.4G   0.03155    0.0178   0.00724   0.05659        237
640: 100% 19/19 [00:06<00:00,  3.04it/s]
             Class      Images     Labels         P         R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.52it/s]
               all         49       1174      0.96     0.208      0.224
0.0964

     Epoch   gpu_mem       box       obj       cls     total    labels  img_size
     44/99     17.4G   0.03329   0.01843   0.00681   0.05854        282
640: 100% 19/19 [00:06<00:00,  3.10it/s]
             Class      Images     Labels         P         R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.41it/s]
               all         49       1174     0.949     0.202      0.214
0.0885

     Epoch   gpu_mem       box       obj       cls     total    labels  img_size
```

```
   45/99     17.4G    0.03418    0.01734   0.006842    0.05836        308
640: 100% 19/19 [00:06<00:00,  3.02it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.52it/s]
               all         49        1174       0.958      0.208       0.224
0.0863


   Epoch   gpu_mem        box        obj        cls      total     labels   img_size
   46/99     17.4G    0.03218    0.01933   0.006465    0.05798        223
640: 100% 19/19 [00:06<00:00,  3.00it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.35it/s]
               all         49        1174       0.967      0.205       0.225
0.0905


   Epoch   gpu_mem        box        obj        cls      total     labels   img_size
   47/99     17.4G    0.03385    0.01876   0.006702    0.05931        575
640: 100% 19/19 [00:06<00:00,  2.94it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.45it/s]
               all         49        1174       0.956       0.21       0.226
0.0921


   Epoch   gpu_mem        box        obj        cls      total     labels   img_size
   48/99     17.4G    0.03292    0.01784   0.006692    0.05745        375
640: 100% 19/19 [00:06<00:00,  3.07it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.46it/s]
               all         49        1174       0.962      0.206       0.223
0.0923


   Epoch   gpu_mem        box        obj        cls      total     labels   img_size
   49/99     17.4G    0.03127    0.01704   0.006082    0.05439        310
640: 100% 19/19 [00:06<00:00,  3.07it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.44it/s]
               all         49        1174       0.965      0.209       0.229
0.0907


   Epoch   gpu_mem        box        obj        cls      total     labels   img_size
   50/99     17.4G    0.03076     0.0187   0.005805    0.05527        328
640: 100% 19/19 [00:06<00:00,  3.04it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.55it/s]
               all         49        1174       0.962      0.213        0.24
0.104


   Epoch   gpu_mem        box        obj        cls      total     labels   img_size
```

```
   51/99     17.4G     0.0307    0.01815   0.005969    0.05482        266
640: 100% 19/19 [00:06<00:00,  3.03it/s]
             Class       Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.35it/s]
               all          49        1174       0.972       0.21        0.24
0.107


   Epoch   gpu_mem        box        obj        cls      total      labels   img_size
   52/99     17.4G    0.02987    0.01871   0.005816     0.0544        358
640: 100% 19/19 [00:06<00:00,  2.98it/s]
             Class       Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.45it/s]
               all          49        1174       0.949      0.207        0.22
0.0783


   Epoch   gpu_mem        box        obj        cls      total      labels   img_size
   53/99     17.4G    0.03215    0.01841   0.005782    0.05634        186
640: 100% 19/19 [00:06<00:00,  3.06it/s]
             Class       Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.50it/s]
               all          49        1174       0.956      0.217       0.232
0.0964


   Epoch   gpu_mem        box        obj        cls      total      labels   img_size
   54/99     17.4G    0.02994    0.01774   0.006261    0.05394        451
640: 100% 19/19 [00:06<00:00,  3.10it/s]
             Class       Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.33it/s]
               all          49        1174       0.965       0.22       0.246
0.114


   Epoch   gpu_mem        box        obj        cls      total      labels   img_size
   55/99     17.4G    0.02959    0.01708   0.005616    0.05229        444
640: 100% 19/19 [00:06<00:00,  3.04it/s]
             Class       Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.61it/s]
               all          49        1174       0.755      0.257       0.246
0.117


   Epoch   gpu_mem        box        obj        cls      total      labels   img_size
   56/99     17.4G    0.02834    0.01851   0.005313    0.05216        368
640: 100% 19/19 [00:06<00:00,  3.05it/s]
             Class       Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.49it/s]
               all          49        1174       0.742      0.253       0.245
0.117


   Epoch   gpu_mem        box        obj        cls      total      labels   img_size
```

```
    57/99      17.4G    0.02939     0.0176   0.005619    0.05261          377
640: 100% 19/19 [00:06<00:00,  3.08it/s]
             Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.62it/s]
               all         49        1174      0.952      0.229      0.248
0.111

    Epoch   gpu_mem        box        obj        cls      total     labels   img_size
    58/99      17.4G    0.03039    0.01837   0.005648    0.05441          400
640: 100% 19/19 [00:06<00:00,  3.00it/s]
             Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.42it/s]
               all         49        1174       0.97      0.221      0.255
0.129

    Epoch   gpu_mem        box        obj        cls      total     labels   img_size
    59/99      17.4G     0.0311    0.01793   0.005797    0.05483          407
640: 100% 19/19 [00:06<00:00,  3.02it/s]
             Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.54it/s]
               all         49        1174       0.96      0.231      0.263
0.132

    Epoch   gpu_mem        box        obj        cls      total     labels   img_size
    60/99      17.4G    0.02765     0.0177    0.00533    0.05068          332
640: 100% 19/19 [00:06<00:00,  2.98it/s]
             Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.35it/s]
               all         49        1174        0.8      0.259      0.262
0.127

    Epoch   gpu_mem        box        obj        cls      total     labels   img_size
    61/99      17.4G    0.02692    0.01685   0.005161    0.04894          348
640: 100% 19/19 [00:06<00:00,  3.10it/s]
             Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.45it/s]
               all         49        1174      0.808      0.256      0.265
0.13

    Epoch   gpu_mem        box        obj        cls      total     labels   img_size
    62/99      17.4G    0.02722    0.01661   0.005376    0.04921          307
640: 100% 19/19 [00:06<00:00,  2.93it/s]
             Class      Images      Labels          P          R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.36it/s]
               all         49        1174      0.806      0.262      0.267
0.137

    Epoch   gpu_mem        box        obj        cls      total     labels   img_size
```

```
    63/99      17.4G    0.02673    0.01693   0.005347    0.04901         295
640: 100% 19/19 [00:06<00:00,  3.09it/s]
              Class        Images       Labels          P           R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.61it/s]
                all           49         1174        0.785       0.261        0.263
0.135


    Epoch   gpu_mem        box         obj         cls       total      labels   img_size
    64/99      17.4G    0.02743    0.01666   0.005068    0.04917         297
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class        Images       Labels          P           R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.60it/s]
                all           49         1174        0.812       0.262        0.269
0.139


    Epoch   gpu_mem        box         obj         cls       total      labels   img_size
    65/99      17.4G    0.02918    0.01704   0.005345    0.05156         356
640: 100% 19/19 [00:06<00:00,  3.02it/s]
              Class        Images       Labels          P           R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.51it/s]
                all           49         1174         0.82       0.266        0.272
0.144


    Epoch   gpu_mem        box         obj         cls       total      labels   img_size
    66/99      17.4G    0.02566     0.0167   0.004886    0.04725         357
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class        Images       Labels          P           R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.56it/s]
                all           49         1174        0.821       0.268        0.275
0.145


    Epoch   gpu_mem        box         obj         cls       total      labels   img_size
    67/99      17.4G    0.02576     0.0174   0.004855    0.04801         253
640: 100% 19/19 [00:06<00:00,  3.09it/s]
              Class        Images       Labels          P           R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.54it/s]
                all           49         1174        0.812       0.265        0.278
0.148


    Epoch   gpu_mem        box         obj         cls       total      labels   img_size
    68/99      17.4G    0.02524    0.01782   0.004929    0.04799         340
640: 100% 19/19 [00:06<00:00,  2.98it/s]
              Class        Images       Labels          P           R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.59it/s]
                all           49         1174        0.861       0.269        0.278
0.15


    Epoch   gpu_mem        box         obj         cls       total      labels   img_size
```

```
    69/99      17.4G    0.02701    0.01751   0.005366    0.04988        336
640: 100% 19/19 [00:06<00:00,  3.00it/s]
              Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.44it/s]
                all          49        1174       0.853      0.269      0.282
0.153

    Epoch   gpu_mem        box        obj         cls      total     labels   img_size
    70/99      17.4G    0.02449    0.01679   0.004695    0.04598        385
640: 100% 19/19 [00:06<00:00,  3.04it/s]
              Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.57it/s]
                all          49        1174       0.802      0.282      0.286
0.159

    Epoch   gpu_mem        box        obj         cls      total     labels   img_size
    71/99      17.4G     0.0247    0.01661   0.004577    0.04589        312
640: 100% 19/19 [00:06<00:00,  3.06it/s]
              Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.39it/s]
                all          49        1174       0.855      0.267      0.284
0.158

    Epoch   gpu_mem        box        obj         cls      total     labels   img_size
    72/99      17.4G    0.02429    0.01728   0.004492    0.04606        229
640: 100% 19/19 [00:06<00:00,  3.08it/s]
              Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.55it/s]
                all          49        1174       0.819      0.283      0.289
0.161

    Epoch   gpu_mem        box        obj         cls      total     labels   img_size
    73/99      17.4G    0.02427    0.01708   0.004609    0.04596        373
640: 100% 19/19 [00:06<00:00,  3.01it/s]
              Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.30it/s]
                all          49        1174       0.792      0.291      0.297
0.168

    Epoch   gpu_mem        box        obj         cls      total     labels   img_size
    74/99      17.4G    0.02363    0.01681   0.004597    0.04504        298
640: 100% 19/19 [00:06<00:00,  3.06it/s]
              Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.58it/s]
                all          49        1174       0.816      0.285      0.292
0.164

    Epoch   gpu_mem        box        obj         cls      total     labels   img_size
```

```
    75/99      17.4G    0.02349    0.01686   0.004665    0.04502         255
640: 100% 19/19 [00:06<00:00,  2.97it/s]
               Class        Images        Labels          P          R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.57it/s]
                 all            49          1174       0.814        0.288        0.294
0.167


    Epoch   gpu_mem          box         obj         cls       total      labels   img_size
    76/99      17.4G    0.02365    0.01731   0.004653    0.04561         266
640: 100% 19/19 [00:06<00:00,  3.06it/s]
               Class        Images        Labels          P          R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.66it/s]
                 all            49          1174       0.814        0.288        0.297
0.169


    Epoch   gpu_mem          box         obj         cls       total      labels   img_size
    77/99      17.4G    0.02328    0.01593   0.004519    0.04372         402
640: 100% 19/19 [00:06<00:00,  2.94it/s]
               Class        Images        Labels          P          R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.51it/s]
                 all            49          1174       0.828        0.286        0.296
0.168


    Epoch   gpu_mem          box         obj         cls       total      labels   img_size
    78/99      17.4G     0.0242       0.017   0.004362    0.04556         391
640: 100% 19/19 [00:06<00:00,  3.07it/s]
               Class        Images        Labels          P          R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.55it/s]
                 all            49          1174       0.829        0.287        0.305
0.173


    Epoch   gpu_mem          box         obj         cls       total      labels   img_size
    79/99      17.4G    0.02299    0.01748    0.00444    0.04492         477
640: 100% 19/19 [00:06<00:00,  3.01it/s]
               Class        Images        Labels          P          R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.56it/s]
                 all            49          1174       0.822        0.288        0.303
0.171


    Epoch   gpu_mem          box         obj         cls       total      labels   img_size
    80/99      17.4G    0.02391    0.01729   0.004548    0.04574         360
640: 100% 19/19 [00:06<00:00,  3.04it/s]
               Class        Images        Labels          P          R        mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.60it/s]
                 all            49          1174        0.84        0.282        0.305
0.172


    Epoch   gpu_mem          box         obj         cls       total      labels   img_size
```

```
    81/99     17.4G   0.02589    0.01598  0.004813    0.04668        424
640: 100% 19/19 [00:06<00:00,  2.99it/s]
               Class       Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.54it/s]
                 all          49        1174       0.834       0.283         0.3
0.171

    Epoch   gpu_mem         box         obj         cls       total      labels  img_size
    82/99     17.4G   0.02282    0.01597  0.004653    0.04345        225
640: 100% 19/19 [00:06<00:00,  3.05it/s]
               Class       Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.50it/s]
                 all          49        1174       0.817       0.292       0.304
0.174

    Epoch   gpu_mem         box         obj         cls       total      labels  img_size
    83/99     17.4G   0.02611    0.01782  0.004467     0.0484        375
640: 100% 19/19 [00:06<00:00,  2.98it/s]
               Class       Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.40it/s]
                 all          49        1174       0.859       0.273       0.306
0.175

    Epoch   gpu_mem         box         obj         cls       total      labels  img_size
    84/99     17.4G   0.02267    0.01774  0.004172    0.04458        257
640: 100% 19/19 [00:06<00:00,  2.97it/s]
               Class       Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.50it/s]
                 all          49        1174        0.81       0.293       0.311
0.177

    Epoch   gpu_mem         box         obj         cls       total      labels  img_size
    85/99     17.4G       0.026    0.01823  0.004671     0.0489        362
640: 100% 19/19 [00:06<00:00,  2.97it/s]
               Class       Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.64it/s]
                 all          49        1174       0.782       0.309       0.315
0.178

    Epoch   gpu_mem         box         obj         cls       total      labels  img_size
    86/99     17.4G   0.02256    0.01537  0.004333    0.04226        163
640: 100% 19/19 [00:06<00:00,  3.10it/s]
               Class       Images      Labels          P           R      mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.52it/s]
                 all          49        1174       0.834       0.286       0.314
0.179

    Epoch   gpu_mem         box         obj         cls       total      labels  img_size
```

```
    87/99      17.4G   0.02267    0.01538   0.004285    0.04234        346
640: 100% 19/19 [00:06<00:00,  3.14it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.49it/s]
               all          49        1174       0.875      0.284       0.317
0.181

    Epoch    gpu_mem        box         obj        cls       total     labels   img_size
    88/99      17.4G   0.02309    0.01686   0.004131    0.04408        322
640: 100% 19/19 [00:06<00:00,  2.90it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.58it/s]
               all          49        1174       0.818      0.304       0.318
0.181

    Epoch    gpu_mem        box         obj        cls       total     labels   img_size
    89/99      17.4G   0.02282    0.01674   0.004192    0.04375        457
640: 100% 19/19 [00:06<00:00,  3.06it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.38it/s]
               all          49        1174       0.835      0.297       0.319
0.185

    Epoch    gpu_mem        box         obj        cls       total     labels   img_size
    90/99      17.4G   0.02214    0.01617   0.004197    0.04251        301
640: 100% 19/19 [00:06<00:00,  3.00it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.39it/s]
               all          49        1174       0.805      0.309        0.32
0.183

    Epoch    gpu_mem        box         obj        cls       total     labels   img_size
    91/99      17.4G   0.02261    0.01637   0.004224     0.0432        276
640: 100% 19/19 [00:06<00:00,  3.08it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.47it/s]
               all          49        1174       0.809       0.31       0.321
0.183

    Epoch    gpu_mem        box         obj        cls       total     labels   img_size
    92/99      17.4G   0.02169    0.01719   0.003855    0.04274        350
640: 100% 19/19 [00:06<00:00,  2.93it/s]
             Class      Images      Labels         P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.51it/s]
               all          49        1174       0.822      0.304       0.328
0.186

    Epoch    gpu_mem        box         obj        cls       total     labels   img_size
```

```
    93/99      17.4G    0.02241    0.01579   0.003982    0.04219         247
640: 100% 19/19 [00:06<00:00,  3.04it/s]
               Class       Images      Labels         P         R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.55it/s]
                 all          49        1174       0.841        0.3        0.332
0.187

    Epoch   gpu_mem        box        obj        cls      total      labels  img_size
    94/99      17.4G    0.02266    0.01663   0.004309    0.04361         483
640: 100% 19/19 [00:06<00:00,  2.96it/s]
               Class       Images      Labels         P         R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.60it/s]
                 all          49        1174       0.867      0.296        0.328
0.187

    Epoch   gpu_mem        box        obj        cls      total      labels  img_size
    95/99      17.4G    0.02167     0.0164   0.004005    0.04208         382
640: 100% 19/19 [00:06<00:00,  3.10it/s]
               Class       Images      Labels         P         R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.63it/s]
                 all          49        1174       0.854      0.292        0.327
0.187

    Epoch   gpu_mem        box        obj        cls      total      labels  img_size
    96/99      17.4G    0.02167    0.01677   0.003936    0.04238         269
640: 100% 19/19 [00:06<00:00,  3.02it/s]
               Class       Images      Labels         P         R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.47it/s]
                 all          49        1174       0.878      0.291        0.336
0.19

    Epoch   gpu_mem        box        obj        cls      total      labels  img_size
    97/99      17.4G    0.02226    0.01736   0.003946    0.04356         409
640: 100% 19/19 [00:06<00:00,  3.00it/s]
               Class       Images      Labels         P         R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.37it/s]
                 all          49        1174       0.836      0.307        0.334
0.19

    Epoch   gpu_mem        box        obj        cls      total      labels  img_size
    98/99      17.4G    0.02171    0.01596   0.004063    0.04173         398
640: 100% 19/19 [00:06<00:00,  3.06it/s]
               Class       Images      Labels         P         R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:00<00:00,  3.15it/s]
                 all          49        1174       0.836      0.306        0.336
0.189

    Epoch   gpu_mem        box        obj        cls      total      labels  img_size
```

```
    99/99      17.4G    0.02266    0.01681   0.004006    0.04348            365
640: 100% 19/19 [00:06<00:00,  3.03it/s]
             Class      Images      Labels          P          R       mAP@.5
mAP@.5:.95: 100% 2/2 [00:01<00:00,  1.47it/s]
               all          49        1174       0.805       0.317       0.333
0.187
              ball          49          45           1           0      0.0132
0.00213
        goalkeeper          49          39           1           0      0.0432
0.0257
            player          49         973       0.748       0.964       0.938
0.571
           referee          49         117       0.472       0.306       0.339
0.151
100 epochs completed in 0.245 hours.

/content/yolov7/utils/general.py:802: FutureWarning: You are using `torch.load`
with `weights_only=False` (the current default value), which uses the default
pickle module implicitly. It is possible to construct malicious pickle data
which will execute arbitrary code during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
more details). In a future release, the default value for `weights_only` will be
flipped to `True`. This limits the functions that could be executed during
unpickling. Arbitrary objects will no longer be allowed to be loaded via this
mode unless they are explicitly allowlisted by the user via
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control of the
loaded file. Please open an issue on GitHub for any issues related to this
experimental feature.
  x = torch.load(f, map_location=torch.device('cpu'))
Optimizer stripped from runs/train/yolov7-football14/weights/last.pt, 74.8MB
Optimizer stripped from runs/train/yolov7-football14/weights/best.pt, 74.8MB
```

1.4 Test

```
[29]: !python test.py --data data/football-player/data.yaml --img 640 --batch 16␣
      ↪--conf 0.001 --iou 0.65 --device 0 --weights runs/train/yolov7-football14/
      ↪weights/best.pt --name yolov7-football_640_val
```

```
Namespace(weights=['runs/train/yolov7-football14/weights/best.pt'],
data='data/football-player/data.yaml', batch_size=16, img_size=640,
conf_thres=0.001, iou_thres=0.65, task='val', device='0', single_cls=False,
augment=False, verbose=False, save_txt=False, save_hybrid=False,
save_conf=False, save_json=False, project='runs/test',
name='yolov7-football_640_val', exist_ok=False, no_trace=False, v5_metric=False)
YOLOR   v0.1-128-ga207844 torch 2.4.1+cu121 CUDA:0 (NVIDIA A100-SXM4-40GB,
40513.8125MB)
```

```
/content/yolov7/models/experimental.py:252: FutureWarning: You are using
`torch.load` with `weights_only=False` (the current default value), which uses
the default pickle module implicitly. It is possible to construct malicious
pickle data which will execute arbitrary code during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
more details). In a future release, the default value for `weights_only` will be
flipped to `True`. This limits the functions that could be executed during
unpickling. Arbitrary objects will no longer be allowed to be loaded via this
mode unless they are explicitly allowlisted by the user via
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control of the
loaded file. Please open an issue on GitHub for any issues related to this
experimental feature.
  ckpt = torch.load(w, map_location=map_location)  # load
Fusing layers…
RepConv.fuse_repvgg_block
RepConv.fuse_repvgg_block
RepConv.fuse_repvgg_block
IDetect.fuse
Model Summary: 314 layers, 36497954 parameters, 6194944 gradients
 Convert model to Traced-model…
 traced_script_module saved!
 model is traced!

/usr/local/lib/python3.10/dist-packages/torch/functional.py:513: UserWarning:
torch.meshgrid: in an upcoming release, it will be required to pass the indexing
argument. (Triggered internally at
../aten/src/ATen/native/TensorShape.cpp:3609.)
  return _VF.meshgrid(tensors, **kwargs)  # type: ignore[attr-defined]
/content/yolov7/utils/datasets.py:392: FutureWarning: You are using `torch.load`
with `weights_only=False` (the current default value), which uses the default
pickle module implicitly. It is possible to construct malicious pickle data
which will execute arbitrary code during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
more details). In a future release, the default value for `weights_only` will be
flipped to `True`. This limits the functions that could be executed during
unpickling. Arbitrary objects will no longer be allowed to be loaded via this
mode unless they are explicitly allowlisted by the user via
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control of the
loaded file. Please open an issue on GitHub for any issues related to this
experimental feature.
  cache, exists = torch.load(cache_path), True  # load
val: Scanning 'data/football-player/valid/labels.cache' images and
labels… 49 found, 0 missing, 0 empty, 0 corrupted: 100% 49/49 [00:00<?, ?it/s]
               Class        Images        Labels          P            R        mAP@.5
mAP@.5:.95: 100% 4/4 [00:02<00:00,  1.45it/s]
                 all            49          1174        0.872        0.291        0.335
```

```
                                     0.19
                  ball          49          45           1           0      0.0147
0.00276
            goalkeeper          49          39           1           0      0.0507
0.0259
                player          49         973       0.823       0.951       0.939
0.57
               referee          49         117       0.667       0.214       0.337
0.161
```
Speed: 11.9/14.3/26.1 ms inference/NMS/total per 640x640 image at batch-size 16
Results saved to runs/test/yolov7-football_640_val4

1.5 Validación

[44]:
```
!python detect.py --weights runs/train/yolov7-football14/weights/best.pt --conf␣
 ↪0.25 --img-size 640 --source /content/yolov7/data/football-player/valid/
 ↪images/08fd33_3_1_png.rf.894a7edd6b726ed886b3777ea55d6beb.jpg
```

```
Namespace(weights=['runs/train/yolov7-football14/weights/best.pt'],
source='/content/yolov7/data/football-
player/valid/images/08fd33_3_1_png.rf.894a7edd6b726ed886b3777ea55d6beb.jpg',
img_size=640, conf_thres=0.25, iou_thres=0.45, device='', view_img=False,
save_txt=False, save_conf=False, nosave=False, classes=None, agnostic_nms=False,
augment=False, update=False, project='runs/detect', name='exp', exist_ok=False,
no_trace=False)
YOLOR  v0.1-128-ga207844 torch 2.4.1+cu121 CUDA:0 (NVIDIA A100-SXM4-40GB,
40513.8125MB)


/content/yolov7/models/experimental.py:252: FutureWarning: You are using
`torch.load` with `weights_only=False` (the current default value), which uses
the default pickle module implicitly. It is possible to construct malicious
pickle data which will execute arbitrary code during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
more details). In a future release, the default value for `weights_only` will be
flipped to `True`. This limits the functions that could be executed during
unpickling. Arbitrary objects will no longer be allowed to be loaded via this
mode unless they are explicitly allowlisted by the user via
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control of the
loaded file. Please open an issue on GitHub for any issues related to this
experimental feature.
  ckpt = torch.load(w, map_location=map_location)  # load
Fusing layers…
RepConv.fuse_repvgg_block
RepConv.fuse_repvgg_block
RepConv.fuse_repvgg_block
IDetect.fuse
Model Summary: 314 layers, 36497954 parameters, 6194944 gradients
```

```
Convert model to Traced-model…
 traced_script_module saved!
 model is traced!

/usr/local/lib/python3.10/dist-packages/torch/functional.py:513: UserWarning:
torch.meshgrid: in an upcoming release, it will be required to pass the indexing
argument. (Triggered internally at
../aten/src/ATen/native/TensorShape.cpp:3609.)
  return _VF.meshgrid(tensors, **kwargs)  # type: ignore[attr-defined]
21 players, Done. (6.8ms) Inference, (680.3ms) NMS
 The image with the result is saved in:
runs/detect/exp9/08fd33_3_1_png.rf.894a7edd6b726ed886b3777ea55d6beb.jpg
Done. (0.791s)
```

```python
[24]: # define helper functions to show images
      def imShow(path):
        import cv2
        import matplotlib.pyplot as plt
        %matplotlib inline

        image = cv2.imread(path)
        height, width = image.shape[:2]
        resized_image = cv2.resize(image,(3*width, 3*height), interpolation = cv2.
        ↪INTER_CUBIC)

        fig = plt.gcf()
        fig.set_size_inches(18, 10)
        plt.axis("off")
        plt.imshow(cv2.cvtColor(resized_image, cv2.COLOR_BGR2RGB))
        plt.show()
```

```python
[50]: print("Imagen Original")
      imShow("/content/yolov7/data/football-player/valid/images/08fd33_3_1_png.rf.
        ↪894a7edd6b726ed886b3777ea55d6beb.jpg")
      print("\nImagen luego de aplicar el modelo")
      imShow("runs/detect/exp9/08fd33_3_1_png.rf.894a7edd6b726ed886b3777ea55d6beb.
        ↪jpg")
```
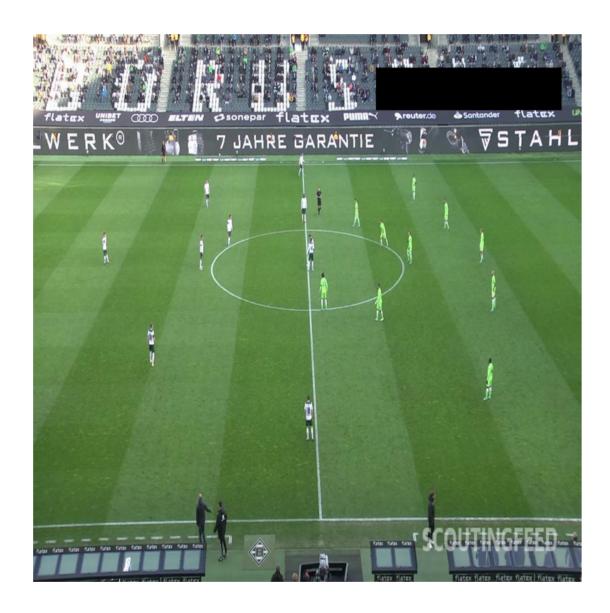
```
Imagen Original
```

Imagen luego de aplicar el modelo