

## File - train

```

1 C:\Users\hilmi\AppData\Local\Programs\Python\Python312\python.exe D:\Projects\Code\python-projects\yolo-gfl\yolov12\train.py
2 WARNING no model scale passed. Assuming scale='n'.
3 New https://pypi.org/project/ultralytics/8.3.159 available Update with 'pip install -U ultralytics'
4 Ultralytics 8.3.157 Python-3.12.10 torch-2.6.0+cu126 CUDA:0 (NVIDIA GeForce RTX 4060 Laptop GPU, 8188MiB)
5 engine|trainer: agnostic_rms=False, amp=True, augment=False, auto_augment=randaugment, batch=32, bgr=0.0, box=7.5, cache=False, cfg=None, classes=None, clo...
6 Overriding model.yaml nc=80 with nc=2
7 WARNING no model scale passed. Assuming scale='n'.
8
9
10    from   n   params  module
11      -1  1     464  ultralytics.nn.modules.conv.Conv
12      -1  1    2368  ultralytics.nn.modules.conv.Conv
13      -1  1    6640  ultralytics.nn.modules.block.C3k2
14      -1  1    9344  ultralytics.nn.modules.conv.Conv
15      -1  1   26080  ultralytics.nn.modules.block.C3k2
16      -1  2   180864 ultralytics.nn.modules.block.A2C2f
17      -1  1   295424 ultralytics.nn.modules.conv.Conv
18      -1  2   689408 ultralytics.nn.modules.block.A2C2f
19      -1  1     0  torch.nn.modules.upsampling.Upsample
20 [-1, 6]  1     0  ultralytics.nn.modules.conv.Concat
21      -1  1   86912 ultralytics.nn.modules.block.A2C2f
22      -1  1     0  torch.nn.modules.upsampling.Upsample
23 [-1, 4]  1     0  ultralytics.nn.modules.conv.Concat
24      -1  1   24000 ultralytics.nn.modules.block.A2C2f
25      -1  1   36992 ultralytics.nn.modules.conv.Conv
26 [-1, 11] 1     0  ultralytics.nn.modules.conv.Concat
27      -1  1   74624 ultralytics.nn.modules.block.A2C2f
28      -1  1   147712 ultralytics.nn.modules.conv.Conv
29 [-1, 8]  1     0  ultralytics.nn.modules.conv.Concat
30      -1  1   378880 ultralytics.nn.modules.block.C3k2
31 [14, 17, 20] 1   431062 ultralytics.nn.modules.head.Detect
32 YOLOv12 summary: 272 layers, 2,538,486 parameters, 2,538,470 gradients, 6.0 GFLOPs
33
34 Freezing layer 'model.21.dfl.conv.weight'
35 AMP: running Automatic Mixed Precision (AMP) checks...
36 Downloading https://github.com/ultralytics/assets/releases/download/v8.3.0/yolo11n.pt to 'yolo11n.pt'...
37 100% [██████████] 5.35M/5.35M [00:02<00:00, 2.21MB/s]
38 AMP: checks passed
39 train: Fast image access (ping: 0.10.0 ms, read: 831.2370.0 MB/s, size: 289.5 KB)
40 train: Scanning D:\Projects\Code\python-projects\yolo-gfl\dataset\HOME-FIRE\train\labels.cache... 3900 images, 87 backgrounds, 0 corrupt: 100% [██████████]
41 augmentations: Blur(p=0.01, blur_limit=(3, 7)), MedianBlur(p=0.01, blur_limit=(3, 7)), ToGray(p=0.01, method='weighted_average', num_output_channels=3), Cl...
42 val: Fast image access (ping: 0.10.0 ms, read: 1069.8459.6 MB/s, size: 306.0 KB)
43 val: Scanning D:\Projects\Code\python-projects\yolo-gfl\dataset\HOME-FIRE\val\labels.cache... 1300 images, 33 backgrounds, 0 corrupt: 100% [██████████]
44 Plotting labels to runs\YOLOv12\labels.jpg...
45 0% | 0/122 [00:00:<?, ?it/s] optimizer: SGD(lr=0.01, momentum=0.937) with parameter groups 113 weight(decay=0.0), 120 weight(decay=0.0005), 119 bi...
46 Image sizes 640 train, 640 val
47 Using 8 dataloader workers
48 Logging results to runs\YOLOv12
49 Starting training for 300 epochs...
50
51 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
52 1/300 6.37G 3.676 5.328 4.267 74 640: 100% [██████████] 122/122 [00:56<00:00, 2.17it/s]
53 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:09<00:00, 2.18it/s]
54 all 1300 1580 0.0008 0.169 0.000643 0.000223
55 0% | 0/122 [00:00:<?, ?it/s]
56 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
57 2/300 6.27G 3.753 5.136 4.198 53 640: 100% [██████████] 122/122 [00:49<00:00, 2.48it/s]
58 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:09<00:00, 2.18it/s]
59 all 1300 1580 0.00296 0.0276 0.000925 0.000291
60 0% | 0/122 [00:00:<?, ?it/s]
61 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
62 3/300 6.27G 3.377 4.067 3.66 78 640: 100% [██████████] 122/122 [02:38<00:00, 1.30s/it]
63 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:10<00:00, 2.04it/s]
64 all 1300 1580 0.555 0.0592 0.0197 0.00529
65 0% | 0/122 [00:00:<?, ?it/s]
66 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
67 4/300 6.24G 2.843 3.29 2.941 79 640: 100% [██████████] 122/122 [02:51<00:00, 1.41s/it]
68 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:12<00:00, 1.69it/s]
69 all 1300 1580 0.607 0.123 0.0699 0.0244
70
71 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
72 5/300 6.24G 2.575 2.837 2.606 52 640: 100% [██████████] 122/122 [00:52<00:00, 2.34it/s]
73 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:10<00:00, 1.93it/s]
74 all 1300 1580 0.182 0.24 0.172 0.0648
75 0% | 0/122 [00:00:<?, ?it/s]
76 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
77 6/300 6.24G 2.4 2.583 2.369 51 640: 100% [██████████] 122/122 [00:50<00:00, 2.40it/s]
78 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:10<00:00, 2.00it/s]
79 all 1300 1580 0.315 0.24 0.232 0.0962
80 0% | 0/122 [00:00:<?, ?it/s]
81 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
82 7/300 6.24G 2.276 2.422 2.237 74 640: 100% [██████████] 122/122 [00:50<00:00, 2.44it/s]
83 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.45it/s]
84 all 1300 1580 0.394 0.338 0.311 0.132
85 0% | 0/122 [00:00:<?, ?it/s]
86 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
87 8/300 6.24G 2.157 2.271 2.128 62 640: 100% [██████████] 122/122 [00:48<00:00, 2.53it/s]
88 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.43it/s]
89 all 1300 1580 0.334 0.3 0.221 0.0981
90 0% | 0/122 [00:00:<?, ?it/s]
91 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
92 9/300 6.24G 2.08 2.171 2.03 64 640: 100% [██████████] 122/122 [00:48<00:00, 2.52it/s]
93 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.38it/s]
94 all 1300 1580 0.462 0.426 0.406 0.189
95 0% | 0/122 [00:00:<?, ?it/s]
96 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
97 10/300 6.24G 2.012 2.099 1.97 77 640: 100% [██████████] 122/122 [00:47<00:00, 2.55it/s]
98 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.37it/s]
99 all 1300 1580 0.542 0.437 0.45 0.206
100 0% | 0/122 [00:00:<?, ?it/s]
101 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
102 11/300 6.24G 1.966 2.02 1.916 71 640: 100% [██████████] 122/122 [00:47<00:00, 2.55it/s]
103 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.54it/s]
104 all 1300 1580 0.595 0.346 0.372 0.176
105 0% | 0/122 [00:00:<?, ?it/s]
106 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
107 12/300 6.24G 1.912 1.939 1.861 77 640: 100% [██████████] 122/122 [00:48<00:00, 2.52it/s]
108 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.51it/s]
109 all 1300 1580 0.539 0.424 0.441 0.21
110 0% | 0/122 [00:00:<?, ?it/s]
111 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
112 13/300 6.24G 1.9 1.903 1.846 61 640: 100% [██████████] 122/122 [00:48<00:00, 2.53it/s]
113 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.49it/s]
114 all 1300 1580 0.562 0.496 0.521 0.25
115
116 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
117 14/300 6.24G 1.846 1.849 1.797 61 640: 100% [██████████] 122/122 [00:48<00:00, 2.51it/s]
118 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████████] 21/21 [00:08<00:00, 2.52it/s]
119 all 1300 1580 0.645 0.506 0.556 0.282

```

## File - train

120  
121     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
122     15/300     6.27G     1.823     1.786     1.752     57     640: 100% [██████] | 122/122 [00:48<00:00, 2.54it/s]  
123         Class     Images     Instances     Box(P     R  
124         all     1300     1580     0.624     0.524     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.51it/s]  
125         0%|     | 0/122 [00:00<?, ?it/s]     0.543     0.283  
126     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
127     16/300     6.27G     1.789     1.736     1.738     70     640: 100% [██████] | 122/122 [02:02<00:00, 1.00s/it]  
128         Class     Images     Instances     Box(P     R  
129         all     1300     1580     0.584     0.494     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 2.08it/s]  
130         0%|     | 0/122 [00:00<?, ?it/s]     0.527     0.263  
131     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
132     17/300     6.24G     1.787     1.727     1.738     67     640: 100% [██████] | 122/122 [00:48<00:00, 2.50it/s]  
133         Class     Images     Instances     Box(P     R  
134         all     1300     1580     0.572     0.538     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.55it/s]  
135  
136     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
137     18/300     6.24G     1.748     1.656     1.707     77     640: 100% [██████] | 122/122 [00:47<00:00, 2.56it/s]  
138         Class     Images     Instances     Box(P     R  
139         all     1300     1580     0.53     0.532     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.50it/s]  
140  
141     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
142     19/300     6.27G     1.728     1.634     1.679     74     640: 100% [██████] | 122/122 [00:47<00:00, 2.55it/s]  
143         Class     Images     Instances     Box(P     R  
144         all     1300     1580     0.663     0.571     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.49it/s]  
145  
146     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
147     20/300     6.27G     1.712     1.617     1.666     74     640: 100% [██████] | 122/122 [00:48<00:00, 2.54it/s]  
148         Class     Images     Instances     Box(P     R  
149         all     1300     1580     0.673     0.565     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.54it/s]  
150         0%|     | 0/122 [00:00<?, ?it/s]     0.623     0.336  
151     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
152     21/300     6.24G     1.71     1.583     1.66     75     640: 100% [██████] | 122/122 [00:48<00:00, 2.54it/s]  
153         Class     Images     Instances     Box(P     R  
154         all     1300     1580     0.65     0.573     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.58it/s]  
155         0%|     | 0/122 [00:00<?, ?it/s]     0.619     0.329  
156     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
157     22/300     6.24G     1.691     1.56     1.633     65     640: 100% [██████] | 122/122 [00:48<00:00, 2.54it/s]  
158         Class     Images     Instances     Box(P     R  
159         all     1300     1580     0.664     0.588     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.54it/s]  
160         0%|     | 0/122 [00:00<?, ?it/s]     0.628     0.323  
161     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
162     23/300     6.24G     1.668     1.495     1.617     70     640: 100% [██████] | 122/122 [00:51<00:00, 2.36it/s]  
163         Class     Images     Instances     Box(P     R  
164         all     1300     1580     0.61     0.586     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 1.96it/s]  
165         0%|     | 0/122 [00:00<?, ?it/s]     0.63     0.343  
166     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
167     24/300     6.24G     1.641     1.473     1.601     78     640: 100% [██████] | 122/122 [00:52<00:00, 2.34it/s]  
168         Class     Images     Instances     Box(P     R  
169         all     1300     1580     0.704     0.628     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 1.91it/s]  
170  
171     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
172     25/300     6.27G     1.632     1.455     1.59     65     640: 100% [██████] | 122/122 [00:49<00:00, 2.45it/s]  
173         Class     Images     Instances     Box(P     R  
174         all     1300     1580     0.679     0.631     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.50it/s]  
175         0%|     | 0/122 [00:00<?, ?it/s]     0.67     0.363  
176     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
177     26/300     6.27G     1.625     1.439     1.579     64     640: 100% [██████] | 122/122 [00:48<00:00, 2.52it/s]  
178         Class     Images     Instances     Box(P     R  
179         all     1300     1580     0.707     0.643     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.54it/s]  
180  
181     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
182     27/300     6.24G     1.61     1.408     1.559     73     640: 100% [██████] | 122/122 [00:48<00:00, 2.54it/s]  
183         Class     Images     Instances     Box(P     R  
184         all     1300     1580     0.71     0.632     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.50it/s]  
185  
186     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
187     28/300     6.27G     1.613     1.404     1.562     63     640: 100% [██████] | 122/122 [00:48<00:00, 2.52it/s]  
188         Class     Images     Instances     Box(P     R  
189         all     1300     1580     0.748     0.651     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.53it/s]  
190  
191     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
192     29/300     6.24G     1.603     1.394     1.557     60     640: 100% [██████] | 122/122 [00:48<00:00, 2.54it/s]  
193         Class     Images     Instances     Box(P     R  
194         all     1300     1580     0.74     0.632     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.42it/s]  
195  
196     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
197     30/300     6.24G     1.584     1.375     1.546     75     640: 100% [██████] | 122/122 [00:48<00:00, 2.53it/s]  
198         Class     Images     Instances     Box(P     R  
199         all     1300     1580     0.735     0.652     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.51it/s]  
200  
201     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
202     31/300     6.24G     1.572     1.347     1.53     68     640: 100% [██████] | 122/122 [00:48<00:00, 2.53it/s]  
203         Class     Images     Instances     Box(P     R  
204         all     1300     1580     0.726     0.635     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.47it/s]  
205         0%|     | 0/122 [00:00<?, ?it/s]     0.701     0.393  
206     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
207     32/300     6.24G     1.557     1.318     1.518     69     640: 100% [██████] | 122/122 [00:48<00:00, 2.53it/s]  
208         Class     Images     Instances     Box(P     R  
209         all     1300     1580     0.784     0.659     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.45it/s]  
210  
211     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
212     33/300     6.24G     1.556     1.319     1.507     57     640: 100% [██████] | 122/122 [00:48<00:00, 2.53it/s]  
213         Class     Images     Instances     Box(P     R  
214         all     1300     1580     0.764     0.705     mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.40it/s]  
215         0%|     | 0/122 [00:00<?, ?it/s]     0.759     0.438  
216     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
217     34/300     6.24G     1.559     1.317     1.511     72     640: 100% [██████] | 122/122 [00:52<00:00, 2.32it/s]  
218         Class     Images     Instances     Box(P     R  
219         all     1300     1580     0.772     0.676     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 1.93it/s]  
220         0%|     | 0/122 [00:00<?, ?it/s]     0.748     0.418  
221     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
222     35/300     6.24G     1.527     1.282     1.495     66     640: 100% [██████] | 122/122 [00:52<00:00, 2.32it/s]  
223         Class     Images     Instances     Box(P     R  
224         all     1300     1580     0.797     0.688     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 1.92it/s]  
225         0%|     | 0/122 [00:00<?, ?it/s]     0.768     0.44  
226     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
227     36/300     6.24G     1.507     1.259     1.471     78     640: 100% [██████] | 122/122 [00:52<00:00, 2.33it/s]  
228         Class     Images     Instances     Box(P     R  
229         all     1300     1580     0.802     0.696     mAP50 mAP50-95): 100% [██████] | 21/21 [00:11<00:00, 1.87it/s]  
230  
231     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
232     37/300     6.24G     1.489     1.238     1.463     52     640: 100% [██████] | 122/122 [00:52<00:00, 2.34it/s]  
233         Class     Images     Instances     Box(P     R  
234         all     1300     1580     0.772     0.69     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 1.93it/s]  
235  
236     Epoch     GPU\_mem     box\_loss     cls\_loss     dfl\_loss     Instances     Size  
237     38/300     6.28G     1.498     1.205     1.46     75     640: 100% [██████] | 122/122 [00:52<00:00, 2.31it/s]  
238         Class     Images     Instances     Box(P     R  
239         all     1300     1580     0.797     0.688     mAP50 mAP50-95): 100% [██████] | 21/21 [00:10<00:00, 1.95it/s]

## File - train

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239           all    1300    1580      0.79      0.685      0.762      0.427
240   0%| 0/122 [00:00<?, ?it/s]
241   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
242   39/300 6.24G    1.49     1.214    1.447      55 mAP50: 100% | 122/122 [00:49<00:00, 2.47it/s]
243   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.79it/s]
244   all    1300    1580      0.819      0.737      0.807      0.471
245   0%| 0/122 [00:00<?, ?it/s]
246   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
247   40/300 6.24G    1.494    1.223    1.448      66 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
248   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.69it/s]
249   all    1300    1580      0.815      0.708      0.79      0.464
250
251   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
252   41/300 6.24G    1.486    1.206    1.445      84 mAP50: 100% | 122/122 [00:45<00:00, 2.65it/s]
253   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.68it/s]
254   all    1300    1580      0.824      0.73      0.798      0.471
255   0%| 0/122 [00:00<?, ?it/s]
256   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
257   42/300 6.24G    1.473    1.187    1.433      58 mAP50: 100% | 122/122 [00:45<00:00, 2.67it/s]
258   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.68it/s]
259   all    1300    1580      0.809      0.726      0.798      0.466
260
261   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
262   43/300 6.24G    1.479    1.178    1.441      67 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
263   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.66it/s]
264   all    1300    1580      0.788      0.713      0.763      0.441
265   0%| 0/122 [00:00<?, ?it/s]
266   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
267   44/300 6.24G    1.453    1.159    1.432      80 mAP50: 100% | 122/122 [00:45<00:00, 2.65it/s]
268   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.68it/s]
269   all    1300    1580      0.835      0.717      0.798      0.468
270
271   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
272   45/300 6.24G    1.449    1.135    1.42        67 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
273   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.74it/s]
274   all    1300    1580      0.792      0.688      0.766      0.442
275
276   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
277   46/300 6.24G    1.442    1.139    1.415      70 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
278   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.67it/s]
279   all    1300    1580      0.83        0.73      0.808      0.478
280
281   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
282   47/300 6.27G    1.444    1.15     1.413      61 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
283   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.69it/s]
284   all    1300    1580      0.851      0.747      0.824      0.488
285
286   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
287   48/300 6.24G    1.424    1.128    1.406      66 mAP50: 100% | 122/122 [00:45<00:00, 2.67it/s]
288   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.68it/s]
289   all    1300    1580      0.848      0.75      0.831      0.49
290   0%| 0/122 [00:00<?, ?it/s]
291   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
292   49/300 6.24G    1.428    1.122    1.397      61 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
293   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.70it/s]
294   all    1300    1580      0.834      0.746      0.819      0.488
295   0%| 0/122 [00:00<?, ?it/s]
296   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
297   50/300 6.24G    1.41     1.094    1.39        54 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
298   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.69it/s]
299   all    1300    1580      0.814      0.736      0.807      0.489
300   0%| 0/122 [00:00<?, ?it/s]
301   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
302   51/300 6.24G    1.432    1.118    1.396      69 mAP50: 100% | 122/122 [00:45<00:00, 2.66it/s]
303   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:08<00:00, 2.51it/s]
304   all    1300    1580      0.834      0.767      0.829      0.5
305
306   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
307   52/300 6.24G    1.406    1.092    1.383      63 mAP50: 100% | 122/122 [00:46<00:00, 2.63it/s]
308   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:08<00:00, 2.60it/s]
309   all    1300    1580      0.837      0.758      0.833      0.496
310
311   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
312   53/300 6.24G    1.403    1.075    1.385      58 mAP50: 100% | 122/122 [00:46<00:00, 2.63it/s]
313   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:08<00:00, 2.56it/s]
314   all    1300    1580      0.827      0.773      0.835      0.499
315   0%| 0/122 [00:00<?, ?it/s]
316   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
317   54/300 6.24G    1.401    1.069    1.38        74 mAP50: 100% | 122/122 [00:46<00:00, 2.65it/s]
318   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.65it/s]
319   all    1300    1580      0.857      0.775      0.836      0.511
320
321   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
322   55/300 6.24G    1.396    1.074    1.379      64 mAP50: 100% | 122/122 [00:46<00:00, 2.62it/s]
323   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.71it/s]
324   all    1300    1580      0.83        0.759      0.831      0.508
325   0%| 0/122 [00:00<?, ?it/s]
326   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
327   56/300 6.24G    1.385    1.056    1.373      88 mAP50: 100% | 122/122 [00:48<00:00, 2.50it/s]
328   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:08<00:00, 2.51it/s]
329   all    1300    1580      0.833      0.769      0.836      0.499
330
331   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
332   57/300 6.27G    1.372    1.048    1.357      82 mAP50: 100% | 122/122 [00:45<00:00, 2.69it/s]
333   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.98it/s]
334   all    1300    1580      0.852      0.78      0.852      0.517
335   0%| 0/122 [00:00<?, ?it/s]
336   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
337   58/300 6.24G    1.373    1.045    1.362      85 mAP50: 100% | 122/122 [00:45<00:00, 2.71it/s]
338   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:06<00:00, 3.07it/s]
339   all    1300    1580      0.835      0.777      0.841      0.517
340
341   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
342   59/300 6.24G    1.376    1.031    1.357      68 mAP50: 100% | 122/122 [00:44<00:00, 2.72it/s]
343   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:06<00:00, 3.04it/s]
344   all    1300    1580      0.844      0.766      0.843      0.516
345   0%| 0/122 [00:00<?, ?it/s]
346   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
347   60/300 6.24G    1.377    1.034    1.36        77 mAP50: 100% | 122/122 [00:45<00:00, 2.69it/s]
348   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.96it/s]
349   all    1300    1580      0.87        0.773      0.853      0.527
350
351   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
352   61/300 6.27G    1.358    1.017    1.348      56 mAP50: 100% | 122/122 [00:45<00:00, 2.70it/s]
353   Class  Images  Instances Box(P) R mAP50-95%: 100% | 21/21 [00:07<00:00, 2.94it/s]
354   all    1300    1580      0.853      0.78      0.85        0.516
355   0%| 0/122 [00:00<?, ?it/s]
356   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances Size
357   62/300 6.24G    1.361    1.021    1.35        73 mAP50: 100% | 122/122 [00:44<00:00, 2.71it/s]

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358                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.10it/s]  
 359                   all     1300  1580      0.859   0.789    0.857   0.52  
 360    0%|    | 0/122 [00:00<?, ?it/s]  
 361    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 362    63/300   6.24G   1.374   1.017   1.352   72    640: 100% | 122/122 [00:45<00:00,  2.70it/s]  
 363                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.91it/s]  
 364                   all     1300  1580      0.848   0.787    0.844   0.525  
 365    0%|    | 0/122 [00:00<?, ?it/s]  
 366    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 367    64/300   6.24G   1.347   1.001   1.339   73    640: 100% | 122/122 [00:45<00:00,  2.68it/s]  
 368                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.97it/s]  
 369                   all     1300  1580      0.863   0.761    0.845   0.52  
 370    0%|    | 0/122 [00:00<?, ?it/s]  
 371    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 372    65/300   6.24G   1.358   1.008   1.342   69    640: 100% | 122/122 [00:45<00:00,  2.68it/s]  
 373                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.92it/s]  
 374                   all     1300  1580      0.883   0.771    0.859   0.536  
 375  
 376    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 377    66/300   6.24G   1.337   0.9938   1.327   70    640: 100% | 122/122 [00:46<00:00,  2.65it/s]  
 378                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.95it/s]  
 379                   all     1300  1580      0.875   0.794    0.86   0.53  
 380    0%|    | 0/122 [00:00<?, ?it/s]  
 381    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 382    67/300   6.27G   1.335   1.001   1.322   65    640: 100% | 122/122 [00:45<00:00,  2.70it/s]  
 383                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.02it/s]  
 384                   all     1300  1580      0.855   0.775    0.851   0.524  
 385    0%|    | 0/122 [00:00<?, ?it/s]  
 386    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 387    68/300   6.24G   1.32    0.9877   1.318   79    640: 100% | 122/122 [00:44<00:00,  2.72it/s]  
 388                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.96it/s]  
 389                   all     1300  1580      0.856   0.787    0.854   0.53  
 390  
 391    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 392    69/300   6.27G   1.337   0.9885   1.331   55    640: 100% | 122/122 [00:45<00:00,  2.69it/s]  
 393                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.93it/s]  
 394                   all     1300  1580      0.865   0.782    0.855   0.53  
 395    0%|    | 0/122 [00:00<?, ?it/s]  
 396    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 397    70/300   6.27G   1.318   0.9581   1.314   69    640: 100% | 122/122 [00:45<00:00,  2.68it/s]  
 398                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.08it/s]  
 399                   all     1300  1580      0.874   0.8    0.872   0.544  
 400  
 401    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 402    71/300   6.24G   1.32    0.9636   1.313   55    640: 100% | 122/122 [00:44<00:00,  2.75it/s]  
 403                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.14it/s]  
 404                   all     1300  1580      0.886   0.798    0.874   0.55  
 405  
 406    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 407    72/300   6.24G   1.306   0.9589   1.314   61    640: 100% | 122/122 [00:44<00:00,  2.74it/s]  
 408                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.10it/s]  
 409                   all     1300  1580      0.867   0.797    0.866   0.535  
 410    0%|    | 0/122 [00:00<?, ?it/s]  
 411    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 412    73/300   6.28G   1.308   0.94    1.309   68    640: 100% | 122/122 [00:44<00:00,  2.74it/s]  
 413                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.09it/s]  
 414                   all     1300  1580      0.869   0.81    0.87   0.542  
 415  
 416    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 417    74/300   6.24G   1.304   0.9384   1.299   76    640: 100% | 122/122 [00:44<00:00,  2.75it/s]  
 418                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.10it/s]  
 419                   all     1300  1580      0.89   0.786    0.875   0.55  
 420    0%|    | 0/122 [00:00<?, ?it/s]  
 421    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 422    75/300   6.24G   1.298   0.9344   1.306   64    640: 100% | 122/122 [00:44<00:00,  2.75it/s]  
 423                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.11it/s]  
 424                   all     1300  1580      0.887   0.79    0.872   0.552  
 425  
 426    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 427    76/300   6.24G   1.288   0.9283   1.295   66    640: 100% | 122/122 [00:44<00:00,  2.75it/s]  
 428                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:06<00:00,  3.11it/s]  
 429                   all     1300  1580      0.878   0.803    0.88   0.551  
 430    0%|    | 0/122 [00:00<?, ?it/s]  
 431    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 432    77/300   6.24G   1.306   0.9405   1.3    74    640: 100% | 122/122 [00:46<00:00,  2.62it/s]  
 433                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.69it/s]  
 434                   all     1300  1580      0.873   0.823    0.88   0.553  
 435    0%|    | 0/122 [00:00<?, ?it/s]  
 436    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 437    78/300   6.24G   1.281   0.9071   1.278   67    640: 100% | 122/122 [00:45<00:00,  2.65it/s]  
 438                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.66it/s]  
 439                   all     1300  1580      0.889   0.817    0.877   0.554  
 440  
 441    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 442    79/300   6.27G   1.29    0.9263   1.297   75    640: 100% | 122/122 [00:46<00:00,  2.65it/s]  
 443                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.69it/s]  
 444                   all     1300  1580      0.885   0.8    0.875   0.546  
 445  
 446    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 447    80/300   6.24G   1.282   0.9154   1.279   55    640: 100% | 122/122 [00:45<00:00,  2.66it/s]  
 448                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.67it/s]  
 449                   all     1300  1580      0.879   0.828    0.887   0.56  
 450    0%|    | 0/122 [00:00<?, ?it/s]  
 451    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 452    81/300   6.27G   1.29    0.9241   1.288   70    640: 100% | 122/122 [00:46<00:00,  2.65it/s]  
 453                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.65it/s]  
 454                   all     1300  1580      0.873   0.822    0.881   0.558  
 455    0%|    | 0/122 [00:00<?, ?it/s]  
 456    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 457    82/300   6.27G   1.267   0.8947   1.276   65    640: 100% | 122/122 [00:45<00:00,  2.66it/s]  
 458                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.70it/s]  
 459                   all     1300  1580      0.866   0.835    0.885   0.563  
 460  
 461    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 462    83/300   6.24G   1.278   0.8963   1.282   82    640: 100% | 122/122 [00:45<00:00,  2.66it/s]  
 463                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.70it/s]  
 464                   all     1300  1580      0.892   0.816    0.881   0.559  
 465    0%|    | 0/122 [00:00<?, ?it/s]  
 466    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 467    84/300   6.27G   1.278   0.9079   1.276   67    640: 100% | 122/122 [00:45<00:00,  2.66it/s]  
 468                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.68it/s]  
 469                   all     1300  1580      0.885   0.822    0.891   0.567  
 470    0%|    | 0/122 [00:00<?, ?it/s]  
 471    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size  
 472    85/300   6.28G   1.28    0.902    1.288   72    640: 100% | 122/122 [00:45<00:00,  2.66it/s]  
 473                   Class    Images Instances   Box(P       R      mAP50 mAP50-95): 100% | 21/21 [00:07<00:00,  2.64it/s]  
 474                   all     1300  1580      0.899   0.818    0.893   0.567  
 475  
 476    Epoch    GPU\_mem box\_loss  cls\_loss dfl\_loss Instances   Size

## File - train

477    86/300    6.246    1.274    0.9021    1.28    66    640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
478              Class Images Instances Box(P R mAP50 mAP50-95): 100% |██████████| 21/21 [00:08<00:00, 2.62it/s]  
479              all 1300 1580 0.89 0.824 0.888 0.572  
480    0%|    | 0/122 [00:00<?, ?it/s] Size  
481    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:46<00:00, 2.65it/s]  
482    87/300    6.246 1.27 0.8867 1.277 46 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.63it/s]  
483              Class Images Instances Box(P R 0.889 0.565  
484              all 1300 1580 0.907 0.812 0.893 0.569  
485    0%|    | 0/122 [00:00<?, ?it/s] Size  
486    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.68it/s]  
487    88/300    6.276 1.268 0.8811 1.276 70 mAP50 mAP50-95): 100% |██████████| 21/21 [00:06<00:00, 3.03it/s]  
488              Class Images Instances Box(P R 0.893 0.569  
489              all 1300 1580 0.899 0.818 0.894 0.569  
490    0%|    | 0/122 [00:00<?, ?it/s] Size  
491    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:44<00:00, 2.71it/s]  
492    89/300    6.246 1.247 0.8697 1.265 71 mAP50 mAP50-95): 100% |██████████| 21/21 [00:06<00:00, 3.01it/s]  
493              Class Images Instances Box(P R 0.894 0.574  
494              all 1300 1580 0.907 0.814 0.894 0.574  
495    0%|    | 0/122 [00:00<?, ?it/s] Size  
496    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.71it/s]  
497    90/300    6.246 1.251 0.8735 1.262 58 mAP50 mAP50-95): 100% |██████████| 21/21 [00:06<00:00, 3.02it/s]  
498              Class Images Instances Box(P R 0.894 0.567  
499              all 1300 1580 0.91 0.819 0.894 0.567  
500    0%|    | 0/122 [00:00<?, ?it/s] Size  
501    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:44<00:00, 2.71it/s]  
502    91/300    6.36 1.242 0.85 1.254 80 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.98it/s]  
503              Class Images Instances Box(P R 0.894 0.567  
504              all 1300 1580 0.89 0.829 0.894 0.567  
505    0%|    | 0/122 [00:00<?, ?it/s] Size  
506    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:44<00:00, 2.71it/s]  
507    92/300    6.246 1.251 0.8757 1.27 57 mAP50 mAP50-95): 100% |██████████| 21/21 [00:06<00:00, 3.02it/s]  
508              Class Images Instances Box(P R 0.9 0.577  
509              all 1300 1580 0.909 0.827 0.9 0.577  
510    0%|    | 0/122 [00:00<?, ?it/s] Size  
511    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
512    93/300    6.246 1.247 0.8519 1.257 65 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.70it/s]  
513              Class Images Instances Box(P R 0.893 0.574  
514              all 1300 1580 0.889 0.835 0.893 0.574  
515    0%|    | 0/122 [00:00<?, ?it/s] Size  
516    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
517    94/300    6.276 1.248 0.8606 1.263 63 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.70it/s]  
518              Class Images Instances Box(P R 0.902 0.576  
519              all 1300 1580 0.895 0.837 0.902 0.576  
520    0%|    | 0/122 [00:00<?, ?it/s] Size  
521    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
522    95/300    6.246 1.237 0.8563 1.246 66 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.69it/s]  
523              Class Images Instances Box(P R 0.901 0.835 0.901 0.578  
524              all 1300 1580 0.901 0.835 0.901 0.578  
525    0%|    | 0/122 [00:00<?, ?it/s] Size  
526    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:46<00:00, 2.65it/s]  
527    96/300    6.246 1.231 0.8519 1.25 67 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.65it/s]  
528              Class Images Instances Box(P R 0.902 0.836 0.902 0.58  
529              all 1300 1580 0.902 0.836 0.902 0.58  
530    0%|    | 0/122 [00:00<?, ?it/s] Size  
531    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
532    97/300    6.276 1.22 0.848 1.251 54 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.69it/s]  
533              Class Images Instances Box(P R 0.906 0.827 0.898 0.587  
534              all 1300 1580 0.906 0.827 0.898 0.587  
535    0%|    | 0/122 [00:00<?, ?it/s] Size  
536    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:46<00:00, 2.65it/s]  
537    98/300    6.246 1.223 0.8455 1.249 69 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.71it/s]  
538              Class Images Instances Box(P R 0.899 0.831 0.9 0.577  
539              all 1300 1580 0.899 0.831 0.9 0.577  
540    0%|    | 0/122 [00:00<?, ?it/s] Size  
541    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
542    99/300    6.246 1.218 0.8328 1.246 59 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.72it/s]  
543              Class Images Instances Box(P R 0.9 0.841 0.9 0.582  
544              all 1300 1580 0.9 0.841 0.9 0.582  
545    0%|    | 0/122 [00:00<?, ?it/s] Size  
546    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:46<00:00, 2.65it/s]  
547    100/300    6.246 1.233 0.8475 1.253 71 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.69it/s]  
548              Class Images Instances Box(P R 0.917 0.826 0.907 0.592  
549              all 1300 1580 0.917 0.826 0.907 0.592  
550    0%|    | 0/122 [00:00<?, ?it/s] Size  
551    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
552    101/300    6.246 1.23 0.8376 1.246 65 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.65it/s]  
553              Class Images Instances Box(P R 0.911 0.835 0.905 0.59  
554              all 1300 1580 0.911 0.835 0.905 0.59  
555    0%|    | 0/122 [00:00<?, ?it/s] Size  
556    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
557    102/300    6.246 1.212 0.824 1.239 65 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.68it/s]  
558              Class Images Instances Box(P R 0.906 0.84 0.906 0.589  
559              all 1300 1580 0.906 0.84 0.906 0.589  
560    0%|    | 0/122 [00:00<?, ?it/s] Size  
561    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
562    103/300    6.246 1.218 0.8341 1.241 69 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.72it/s]  
563              Class Images Instances Box(P R 0.925 0.823 0.906 0.593  
564              all 1300 1580 0.925 0.823 0.906 0.593  
565    0%|    | 0/122 [00:00<?, ?it/s] Size  
566    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
567    104/300    6.246 1.219 0.8384 1.243 67 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.73it/s]  
568              Class Images Instances Box(P R 0.899 0.836 0.905 0.591  
569              all 1300 1580 0.899 0.836 0.905 0.591  
570    0%|    | 0/122 [00:00<?, ?it/s] Size  
571    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
572    105/300    6.276 1.218 0.8246 1.241 71 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.72it/s]  
573              Class Images Instances Box(P R 0.909 0.854 0.91 0.595  
574              all 1300 1580 0.909 0.854 0.91 0.595  
575    0%|    | 0/122 [00:00<?, ?it/s] Size  
576    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
577    106/300    6.276 1.201 0.8194 1.23 80 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.66it/s]  
578              Class Images Instances Box(P R 0.913 0.839 0.91 0.594  
579              all 1300 1580 0.913 0.839 0.91 0.594  
580    0%|    | 0/122 [00:00<?, ?it/s] Size  
581    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.66it/s]  
582    107/300    6.276 1.2 0.8078 1.226 67 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.72it/s]  
583              Class Images Instances Box(P R 0.902 0.858 0.915 0.599  
584              all 1300 1580 0.902 0.858 0.915 0.599  
585    0%|    | 0/122 [00:00<?, ?it/s] Size  
586    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:46<00:00, 2.65it/s]  
587    108/300    6.246 1.209 0.8132 1.225 65 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.68it/s]  
588              Class Images Instances Box(P R 0.916 0.844 0.91 0.599  
589              all 1300 1580 0.916 0.844 0.91 0.599  
590    0%|    | 0/122 [00:00<?, ?it/s] Size  
591    Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances 640: 100% |██████████| 122/122 [00:45<00:00, 2.65it/s]  
592    109/300    6.276 1.206 0.8144 1.228 68 mAP50 mAP50-95): 100% |██████████| 21/21 [00:07<00:00, 2.73it/s]  
593              Class Images Instances Box(P R 0.894 0.857 0.909 0.596  
594              all 1300 1580 0.894 0.857 0.909 0.596

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596	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
597	110/300	6.24G	1.206	0.806	1.221	78	640: 100%   [REDACTED]   122/122 [00:46<00:00, 2.65it/s]
598	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.69it/s]
599	all	1300	1580	0.891	0.86		0.906 0.593
600							
601	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
602	111/300	6.24G	1.197	0.7967	1.217	62	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.67it/s]
603	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.99it/s]
604	all	1300	1580	0.921	0.846		0.912 0.601
605							
606	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
607	112/300	6.27G	1.189	0.7985	1.217	71	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.71it/s]
608	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.99it/s]
609	all	1300	1580	0.901	0.864		0.913 0.596
610	0%	0/122	[00:00:<?, ?it/s]				
611	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
612	113/300	6.24G	1.194	0.7934	1.219	64	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.71it/s]
613	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.03it/s]
614	all	1300	1580	0.927	0.843		0.917 0.597
615							
616	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
617	114/300	6.24G	1.192	0.8082	1.225	68	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.71it/s]
618	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.96it/s]
619	all	1300	1580	0.907	0.866		0.914 0.603
620	0%	0/122	[00:00:<?, ?it/s]				
621	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
622	115/300	6.24G	1.183	0.7942	1.215	63	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.71it/s]
623	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.97it/s]
624	all	1300	1580	0.892	0.861		0.915 0.601
625	0%	0/122	[00:00:<?, ?it/s]				
626	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
627	116/300	6.27G	1.186	0.7794	1.221	69	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.71it/s]
628	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.71it/s]
629	all	1300	1580	0.891	0.86		0.911 0.6
630							
631	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
632	117/300	6.27G	1.182	0.7861	1.226	58	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.67it/s]
633	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.70it/s]
634	all	1300	1580	0.894	0.873		0.916 0.607
635	0%	0/122	[00:00:<?, ?it/s]				
636	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
637	118/300	6.24G	1.177	0.7778	1.209	62	640: 100%   [REDACTED]   122/122 [00:46<00:00, 2.65it/s]
638	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.70it/s]
639	all	1300	1580	0.912	0.848		0.919 0.612
640							
641	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
642	119/300	6.24G	1.174	0.7809	1.203	71	640: 100%   [REDACTED]   122/122 [00:46<00:00, 2.65it/s]
643	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.72it/s]
644	all	1300	1580	0.928	0.837		0.919 0.609
645	0%	0/122	[00:00:<?, ?it/s]				
646	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
647	120/300	6.24G	1.171	0.7761	1.204	59	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.69it/s]
648	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.98it/s]
649	all	1300	1580	0.915	0.853		0.918 0.608
650	0%	0/122	[00:00:<?, ?it/s]				
651	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
652	121/300	6.24G	1.167	0.7754	1.2	65	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.72it/s]
653	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.06it/s]
654	all	1300	1580	0.908	0.865		0.916 0.607
655							
656	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
657	122/300	6.24G	1.163	0.7655	1.199	50	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.72it/s]
658	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.99it/s]
659	all	1300	1580	0.903	0.872		0.922 0.612
660	0%	0/122	[00:00:<?, ?it/s]				
661	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
662	123/300	6.24G	1.166	0.7741	1.21	60	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.72it/s]
663	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.98it/s]
664	all	1300	1580	0.906	0.872		0.921 0.607
665	0%	0/122	[00:00:<?, ?it/s]				
666	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
667	124/300	6.24G	1.169	0.7814	1.206	74	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.71it/s]
668	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.01it/s]
669	all	1300	1580	0.905	0.866		0.915 0.6
670	0%	0/122	[00:00:<?, ?it/s]				
671	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
672	125/300	6.24G	1.16	0.7699	1.198	73	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.66it/s]
673	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.70it/s]
674	all	1300	1580	0.912	0.861		0.919 0.613
675							
676	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
677	126/300	6.24G	1.162	0.7748	1.204	73	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.66it/s]
678	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.02it/s]
679	all	1300	1580	0.927	0.851		0.922 0.612
680	0%	0/122	[00:00:<?, ?it/s]				
681	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
682	127/300	6.27G	1.161	0.7563	1.199	50	640: 100%   [REDACTED]   122/122 [00:46<00:00, 2.65it/s]
683	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.65it/s]
684	all	1300	1580	0.921	0.855		0.92 0.616
685							
686	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
687	128/300	6.24G	1.143	0.7407	1.182	64	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.66it/s]
688	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.65it/s]
689	all	1300	1580	0.905	0.871		0.923 0.612
690							
691	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
692	129/300	6.24G	1.15	0.7501	1.192	46	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.65it/s]
693	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.65it/s]
694	all	1300	1580	0.907	0.864		0.92 0.617
695	0%	0/122	[00:00:<?, ?it/s]				
696	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
697	130/300	6.24G	1.158	0.7493	1.185	64	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.66it/s]
698	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.67it/s]
699	all	1300	1580	0.911	0.866		0.922 0.617
700							
701	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
702	131/300	6.24G	1.15	0.749	1.18	61	640: 100%   [REDACTED]   122/122 [00:46<00:00, 2.65it/s]
703	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.68it/s]
704	all	1300	1580	0.904	0.872		0.922 0.612
705	0%	0/122	[00:00:<?, ?it/s]				
706	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
707	132/300	6.24G	1.158	0.7581	1.191	69	640: 100%   [REDACTED]   122/122 [00:46<00:00, 2.65it/s]
708	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.66it/s]
709	all	1300	1580	0.892	0.88		0.924 0.621
710							
711	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
712	133/300	6.24G	1.141	0.7478	1.18	65	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.66it/s]
713	Class	Images	Instances		Box(P R)		mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:08<00:00, 2.62it/s]
714	all	1300	1580	0.902	0.886		0.925 0.615

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715  
716   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
717   134/300   6.24G   1.137   0.7377   1.177   52   640: 100% [██████] | 122/122 [00:46<00:00, 2.65it/s]  
718            Class   Images   Instances   Box(P       R  
719            all      1300     1580     0.893    0.892    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.68it/s]  
720   0%|    | 0/122 [00:00<?, ?it/s]  
721   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
722   135/300   6.27G   1.137   0.7403   1.181   78   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
723            Class   Images   Instances   Box(P       R  
724            all      1300     1580     0.885    0.891    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.71it/s]  
725   0%|    | 0/122 [00:00<?, ?it/s]  
726   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
727   136/300   6.27G   1.133   0.7375   1.184   64   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
728            Class   Images   Instances   Box(P       R  
729            all      1300     1580     0.906    0.885    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.67it/s]  
730   0%|    | 0/122 [00:00<?, ?it/s]  
731   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
732   137/300   6.24G   1.133   0.7396   1.175   58   640: 100% [██████] | 122/122 [00:46<00:00, 2.65it/s]  
733            Class   Images   Instances   Box(P       R  
734            all      1300     1580     0.91      0.879    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.70it/s]  
735   0%|    | 0/122 [00:00<?, ?it/s]  
736   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
737   138/300   6.24G   1.125   0.728    1.177   76   640: 100% [██████] | 122/122 [00:45<00:00, 2.65it/s]  
738            Class   Images   Instances   Box(P       R  
739            all      1300     1580     0.929    0.87    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.70it/s]  
740  
741   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
742   139/300   6.24G   1.126   0.7319   1.178   80   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
743            Class   Images   Instances   Box(P       R  
744            all      1300     1580     0.923    0.873    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.68it/s]  
745   0%|    | 0/122 [00:00<?, ?it/s]  
746   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
747   140/300   6.3G    1.122   0.7247   1.166   65   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
748            Class   Images   Instances   Box(P       R  
749            all      1300     1580     0.926    0.867    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.68it/s]  
750   0%|    | 0/122 [00:00<?, ?it/s]  
751   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
752   141/300   6.3G    1.125   0.7103   1.173   63   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
753            Class   Images   Instances   Box(P       R  
754            all      1300     1580     0.928    0.862    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.68it/s]  
755  
756   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
757   142/300   6.24G   1.122   0.7224   1.174   66   640: 100% [██████] | 122/122 [00:45<00:00, 2.65it/s]  
758            Class   Images   Instances   Box(P       R  
759            all      1300     1580     0.909    0.882    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.66it/s]  
760  
761   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
762   143/300   6.24G   1.121   0.7216   1.169   80   640: 100% [██████] | 122/122 [00:46<00:00, 2.64it/s]  
763            Class   Images   Instances   Box(P       R  
764            all      1300     1580     0.918    0.862    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.69it/s]  
765   0%|    | 0/122 [00:00<?, ?it/s]  
766   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
767   144/300   6.24G   1.121   0.7156   1.172   56   640: 100% [██████] | 122/122 [00:45<00:00, 2.65it/s]  
768            Class   Images   Instances   Box(P       R  
769            all      1300     1580     0.914    0.871    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.70it/s]  
770  
771   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
772   145/300   6.24G   1.117   0.7181   1.165   77   640: 100% [██████] | 122/122 [00:45<00:00, 2.65it/s]  
773            Class   Images   Instances   Box(P       R  
774            all      1300     1580     0.905    0.883    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.67it/s]  
775  
776   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
777   146/300   6.24G   1.111   0.7079   1.166   75   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
778            Class   Images   Instances   Box(P       R  
779            all      1300     1580     0.932    0.861    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.67it/s]  
780  
781   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
782   147/300   6.27G   1.108   0.7089   1.164   75   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
783            Class   Images   Instances   Box(P       R  
784            all      1300     1580     0.918    0.881    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.69it/s]  
785  
786   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
787   148/300   6.24G   1.095   0.7024   1.151   73   640: 100% [██████] | 122/122 [00:45<00:00, 2.65it/s]  
788            Class   Images   Instances   Box(P       R  
789            all      1300     1580     0.924    0.88    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.65it/s]  
790  
791   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
792   149/300   6.27G   1.107   0.7044   1.159   62   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
793            Class   Images   Instances   Box(P       R  
794            all      1300     1580     0.921    0.879    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.64it/s]  
795  
796   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
797   150/300   6.24G   1.111   0.6991   1.161   64   640: 100% [██████] | 122/122 [00:45<00:00, 2.65it/s]  
798            Class   Images   Instances   Box(P       R  
799            all      1300     1580     0.919    0.885    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.67it/s]  
800   0%|    | 0/122 [00:00<?, ?it/s]  
801   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
802   151/300   6.24G   1.111   0.709    1.162   73   640: 100% [██████] | 122/122 [00:45<00:00, 2.66it/s]  
803            Class   Images   Instances   Box(P       R  
804            all      1300     1580     0.928    0.866    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.66it/s]  
805  
806   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
807   152/300   6.24G   1.108   0.7      1.155   82   640: 100% [██████] | 122/122 [00:46<00:00, 2.65it/s]  
808            Class   Images   Instances   Box(P       R  
809            all      1300     1580     0.911    0.883    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.65it/s]  
810  
811   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
812   153/300   6.24G   1.096   0.6901   1.152   54   640: 100% [██████] | 122/122 [00:46<00:00, 2.60it/s]  
813            Class   Images   Instances   Box(P       R  
814            all      1300     1580     0.928    0.877    mAP50 mAP50-95): 100% [██████] | 21/21 [00:08<00:00, 2.59it/s]  
815   0%|    | 0/122 [00:00<?, ?it/s]  
816   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
817   154/300   6.24G   1.097   0.7009   1.155   53   640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
818            Class   Images   Instances   Box(P       R  
819            all      1300     1580     0.928    0.877    mAP50 mAP50-95): 100% [██████] | 21/21 [00:06<00:00, 3.01it/s]  
820  
821   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
822   155/300   6.24G   1.081   0.6828   1.143   60   640: 100% [██████] | 122/122 [00:45<00:00, 2.71it/s]  
823            Class   Images   Instances   Box(P       R  
824            all      1300     1580     0.912    0.885    mAP50 mAP50-95): 100% [██████] | 21/21 [00:06<00:00, 3.02it/s]  
825   0%|    | 0/122 [00:00<?, ?it/s]  
826   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
827   156/300   6.24G   1.096   0.6902   1.151   61   640: 100% [██████] | 122/122 [00:44<00:00, 2.71it/s]  
828            Class   Images   Instances   Box(P       R  
829            all      1300     1580     0.915    0.872    mAP50 mAP50-95): 100% [██████] | 21/21 [00:06<00:00, 3.04it/s]  
830  
831   Epoch   GPU\_mem   box\_loss   cls\_loss   dfl\_loss   Instances   Size  
832   157/300   6.24G   1.104   0.6836   1.157   73   640: 100% [██████] | 122/122 [00:44<00:00, 2.71it/s]  
833            Class   Images   Instances   Box(P       R  
834            all      1300     1580     0.915    0.872    mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.95it/s]

## File - train

			all	1300	1580	0.906	0.879	0.928	0.626
834									
835									
836	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
837	158/300	6.27G	1.091	0.6816	1.15	68		640: 100% [██████]   122/122 [00:45<00:00, 2.70it/s]	
838		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.70it/s]	
839		all	1300	1580	0.91	0.878		0.929 0.628	
840									
841	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
842	159/300	6.24G	1.076	0.668	1.141	74		640: 100% [██████]   122/122 [00:45<00:00, 2.66it/s]	
843		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.69it/s]	
844		all	1300	1580	0.915	0.887		0.928 0.628	
845									
846	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
847	160/300	6.24G	1.086	0.6743	1.147	75		640: 100% [██████]   122/122 [00:46<00:00, 2.65it/s]	
848		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.72it/s]	
849		all	1300	1580	0.914	0.882		0.927 0.628	
850									
851	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
852	161/300	6.24G	1.073	0.6766	1.141	86		640: 100% [██████]   122/122 [00:45<00:00, 2.66it/s]	
853		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.75it/s]	
854		all	1300	1580	0.916	0.883		0.928 0.628	
855	0%	0/122	[00:00:<?, ?it/s]						
856	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
857	162/300	6.24G	1.061	0.6629	1.129	70		640: 100% [██████]   122/122 [00:46<00:00, 2.65it/s]	
858		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.71it/s]	
859		all	1300	1580	0.925	0.879		0.929 0.628	
860									
861	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
862	163/300	6.27G	1.089	0.6845	1.148	63		640: 100% [██████]   122/122 [00:46<00:00, 2.65it/s]	
863		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.73it/s]	
864		all	1300	1580	0.92	0.892		0.927 0.627	
865	0%	0/122	[00:00:<?, ?it/s]						
866	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
867	164/300	6.27G	1.07	0.6612	1.13	69		640: 100% [██████]   122/122 [00:46<00:00, 2.65it/s]	
868		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.67it/s]	
869		all	1300	1580	0.919	0.892		0.929 0.628	
870									
871	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
872	165/300	6.24G	1.076	0.668	1.137	58		640: 100% [██████]   122/122 [00:45<00:00, 2.68it/s]	
873		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:06<00:00, 3.03it/s]	
874		all	1300	1580	0.913	0.897		0.93 0.63	
875									
876	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
877	166/300	6.24G	1.079	0.6666	1.143	75		640: 100% [██████]   122/122 [00:46<00:00, 2.61it/s]	
878		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.69it/s]	
879		all	1300	1580	0.917	0.895		0.929 0.629	
880	0%	0/122	[00:00:<?, ?it/s]						
881	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
882	167/300	6.24G	1.065	0.6604	1.131	56		640: 100% [██████]   122/122 [00:46<00:00, 2.61it/s]	
883		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:10<00:00, 1.96it/s]	
884		all	1300	1580	0.919	0.893		0.929 0.63	
885									
886	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
887	168/300	6.24G	1.076	0.675	1.139	70		640: 100% [██████]   122/122 [00:45<00:00, 2.68it/s]	
888		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.96it/s]	
889		all	1300	1580	0.924	0.883		0.929 0.631	
890	0%	0/122	[00:00:<?, ?it/s]						
891	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
892	169/300	6.24G	1.064	0.665	1.133	62		640: 100% [██████]   122/122 [00:45<00:00, 2.71it/s]	
893		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.97it/s]	
894		all	1300	1580	0.922	0.885		0.929 0.631	
895	0%	0/122	[00:00:<?, ?it/s]						
896	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
897	170/300	6.24G	1.065	0.6601	1.132	76		640: 100% [██████]   122/122 [00:45<00:00, 2.70it/s]	
898		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.99it/s]	
899		all	1300	1580	0.914	0.891		0.93 0.63	
900	0%	0/122	[00:00:<?, ?it/s]						
901	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
902	171/300	6.27G	1.066	0.6565	1.13	71		640: 100% [██████]   122/122 [00:44<00:00, 2.71it/s]	
903		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:06<00:00, 3.03it/s]	
904		all	1300	1580	0.921	0.882		0.93 0.63	
905									
906	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
907	172/300	6.24G	1.057	0.6594	1.129	57		640: 100% [██████]   122/122 [00:45<00:00, 2.71it/s]	
908		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.97it/s]	
909		all	1300	1580	0.923	0.89		0.931 0.631	
910									
911	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
912	173/300	6.24G	1.047	0.6418	1.122	74		640: 100% [██████]   122/122 [00:45<00:00, 2.71it/s]	
913		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.99it/s]	
914		all	1300	1580	0.925	0.892		0.932 0.631	
915									
916	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
917	174/300	6.24G	1.046	0.6523	1.124	90		640: 100% [██████]   122/122 [00:45<00:00, 2.69it/s]	
918		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.90it/s]	
919		all	1300	1580	0.921	0.893		0.932 0.63	
920									
921	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
922	175/300	6.24G	1.065	0.6674	1.132	85		640: 100% [██████]   122/122 [00:45<00:00, 2.71it/s]	
923		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:06<00:00, 3.01it/s]	
924		all	1300	1580	0.934	0.882		0.93 0.631	
925									
926	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
927	176/300	6.24G	1.041	0.6449	1.116	75		640: 100% [██████]   122/122 [00:44<00:00, 2.72it/s]	
928		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:06<00:00, 3.02it/s]	
929		all	1300	1580	0.929	0.886		0.931 0.632	
930									
931	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
932	177/300	6.24G	1.045	0.6513	1.124	74		640: 100% [██████]   122/122 [00:44<00:00, 2.71it/s]	
933		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:06<00:00, 3.01it/s]	
934		all	1300	1580	0.928	0.884		0.929 0.632	
935									
936	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
937	178/300	6.24G	1.055	0.6409	1.123	75		640: 100% [██████]   122/122 [00:45<00:00, 2.70it/s]	
938		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.93it/s]	
939		all	1300	1580	0.926	0.885		0.929 0.63	
940									
941	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
942	179/300	6.24G	1.052	0.6419	1.123	73		640: 100% [██████]   122/122 [00:45<00:00, 2.71it/s]	
943		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.67it/s]	
944		all	1300	1580	0.933	0.881		0.929 0.63	
945									
946	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances		Size	
947	180/300	6.24G	1.045	0.6448	1.124	79		640: 100% [██████]   122/122 [00:45<00:00, 2.65it/s]	
948		Class	Images	Instances	Box(P	R		mAP50 mAP50-95): 100% [██████]   21/21 [00:07<00:00, 2.66it/s]</td	

## File - train

		Class	Images	Instances	Box(P)	R	mAP50	mAP50-95): 100%	Size
953		all	1300	1580	0.929	0.887	0.931	0.63	640: 100% [ 21/21 [00:07<00:00, 2.70it/s]
954									
955									
956	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
957	182/300	6.246	1.037	0.6386	1.112	71			640: 100% [ 122/122 [00:45<00:00, 2.66it/s]
958		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.75it/s]
959		all	1300	1580	0.923	0.891	0.93	0.63	
960	0%	0/122 [00:00<?, ?it/s]							
961	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
962	183/300	6.246	1.034	0.6266	1.114	69			640: 100% [ 122/122 [00:45<00:00, 2.66it/s]
963		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.74it/s]
964		all	1300	1580	0.927	0.892	0.931	0.631	
965	0%	0/122 [00:00<?, ?it/s]							
966	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
967	184/300	6.276	1.042	0.6354	1.113	63			640: 100% [ 122/122 [00:45<00:00, 2.70it/s]
968		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.93it/s]
969		all	1300	1580	0.928	0.89	0.929	0.631	
970	0%	0/122 [00:00<?, ?it/s]							
971	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
972	185/300	6.36	1.031	0.6303	1.11	70			640: 100% [ 122/122 [00:44<00:00, 2.71it/s]
973		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.96it/s]
974		all	1300	1580	0.923	0.889	0.93	0.634	
975									
976	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
977	186/300	6.276	1.028	0.6235	1.111	68			640: 100% [ 122/122 [00:45<00:00, 2.71it/s]
978		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.99it/s]
979		all	1300	1580	0.927	0.89	0.931	0.634	
980									
981	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
982	187/300	6.246	1.049	0.6332	1.119	62			640: 100% [ 122/122 [00:44<00:00, 2.72it/s]
983		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.99it/s]
984		all	1300	1580	0.927	0.89	0.931	0.634	
985									
986	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
987	188/300	6.246	1.042	0.6349	1.114	55			640: 100% [ 122/122 [00:45<00:00, 2.70it/s]
988		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.67it/s]
989		all	1300	1580	0.93	0.882	0.929	0.633	
990	0%	0/122 [00:00<?, ?it/s]							
991	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
992	189/300	6.276	1.017	0.6218	1.102	58			640: 100% [ 122/122 [00:46<00:00, 2.65it/s]
993		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.69it/s]
994		all	1300	1580	0.93	0.881	0.929	0.636	
995	0%	0/122 [00:00<?, ?it/s]							
996	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
997	190/300	6.246	1.028	0.6286	1.11	73			640: 100% [ 122/122 [00:45<00:00, 2.65it/s]
998		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.71it/s]
999		all	1300	1580	0.923	0.885	0.928	0.633	
1000	0%	0/122 [00:00<?, ?it/s]							
1001	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1002	191/300	6.246	1.025	0.6247	1.106	57			640: 100% [ 122/122 [00:46<00:00, 2.65it/s]
1003		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.71it/s]
1004		all	1300	1580	0.925	0.883	0.928	0.632	
1005	0%	0/122 [00:00<?, ?it/s]							
1006	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1007	192/300	6.246	1.022	0.618	1.101	63			640: 100% [ 122/122 [00:45<00:00, 2.66it/s]
1008		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.70it/s]
1009		all	1300	1580	0.923	0.886	0.928	0.632	
1010	0%	0/122 [00:00<?, ?it/s]							
1011	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1012	193/300	6.246	1.018	0.6142	1.109	66			640: 100% [ 122/122 [00:46<00:00, 2.65it/s]
1013		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.73it/s]
1014		all	1300	1580	0.927	0.888	0.928	0.633	
1015	0%	0/122 [00:00<?, ?it/s]							
1016	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1017	194/300	6.246	1.019	0.6213	1.107	64			640: 100% [ 122/122 [00:45<00:00, 2.66it/s]
1018		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.68it/s]
1019		all	1300	1580	0.926	0.883	0.929	0.633	
1020									
1021	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1022	195/300	6.246	1.008	0.6115	1.098	72			640: 100% [ 122/122 [00:45<00:00, 2.67it/s]
1023		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.72it/s]
1024		all	1300	1580	0.917	0.892	0.931	0.635	
1025	0%	0/122 [00:00<?, ?it/s]							
1026	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1027	196/300	6.246	1.027	0.6291	1.107	74			640: 100% [ 122/122 [00:47<00:00, 2.55it/s]
1028		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:09<00:00, 2.13it/s]
1029		all	1300	1580	0.914	0.895	0.929	0.634	
1030									
1031	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1032	197/300	6.246	1.008	0.6155	1.1	61			640: 100% [ 122/122 [00:49<00:00, 2.46it/s]
1033		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:09<00:00, 2.18it/s]
1034		all	1300	1580	0.92	0.891	0.929	0.634	
1035	0%	0/122 [00:00<?, ?it/s]							
1036	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1037	198/300	6.36	1.012	0.6057	1.103	57			640: 100% [ 122/122 [00:48<00:00, 2.49it/s]
1038		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:09<00:00, 2.16it/s]
1039		all	1300	1580	0.92	0.89	0.931	0.634	
1040	0%	0/122 [00:00<?, ?it/s]							
1041	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1042	199/300	6.276	1.005	0.6152	1.104	69			640: 100% [ 122/122 [00:46<00:00, 2.61it/s]
1043		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.76it/s]
1044		all	1300	1580	0.917	0.896	0.931	0.635	
1045									
1046	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1047	200/300	6.246	1.009	0.6123	1.101	80			640: 100% [ 122/122 [00:45<00:00, 2.66it/s]
1048		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.99it/s]
1049		all	1300	1580	0.919	0.89	0.931	0.635	
1050	0%	0/122 [00:00<?, ?it/s]							
1051	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1052	201/300	6.246	1.001	0.6122	1.1	67			640: 100% [ 122/122 [00:46<00:00, 2.64it/s]
1053		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.89it/s]
1054		all	1300	1580	0.921	0.889	0.93	0.636	
1055									
1056	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1057	202/300	6.276	1.012	0.6193	1.102	75			640: 100% [ 122/122 [00:46<00:00, 2.64it/s]
1058		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.93it/s]
1059		all	1300	1580	0.923	0.89	0.93	0.635	
1060	0%	0/122 [00:00<?, ?it/s]							
1061	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1062	203/300	6.246	1.007	0.6094	1.096	75			640: 100% [ 122/122 [00:46<00:00, 2.60it/s]
1063		Class	Images	Instances	Box(P)	R			mAP50 mAP50-95): 100% [ 21/21 [00:07<00:00, 2.84it/s]
1064		all	1300	1580	0.926	0.89	0.931	0.636	
1065	0%	0/122 [00:00<?, ?it/s]							
1066	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances			Size
1067	2								

## File - train

1072	205/300	6.246	0.9944	0.6003	1.089	39	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.71it/s]
1073		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.05it/s]
1074		all	1300	1580	0.924	0.89	0.929 0.636
1075	0%	0/122 [00:00<?, ?it/s]					
1076	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1077	206/300	6.246	1.009	0.6047	1.101	77	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.75it/s]
1078		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.11it/s]
1079		all	1300	1580	0.926	0.893	0.931 0.636
1080	0%	0/122 [00:00<?, ?it/s]					
1081	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1082	207/300	6.276	0.9952	0.6017	1.087	83	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.74it/s]
1083		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.14it/s]
1084		all	1300	1580	0.925	0.892	0.932 0.637
1085							
1086	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1087	208/300	6.36	0.9826	0.5927	1.086	68	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.75it/s]
1088		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.14it/s]
1089		all	1300	1580	0.931	0.887	0.933 0.635
1090	0%	0/122 [00:00<?, ?it/s]					
1091	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1092	209/300	6.246	0.9925	0.5948	1.086	85	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.75it/s]
1093		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.16it/s]
1094		all	1300	1580	0.931	0.888	0.932 0.636
1095	0%	0/122 [00:00<?, ?it/s]					
1096	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1097	210/300	6.246	0.9856	0.5828	1.083	69	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.72it/s]
1098		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.74it/s]
1099		all	1300	1580	0.929	0.893	0.933 0.637
1100							
1101	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1102	211/300	6.276	0.9848	0.5807	1.08	77	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.68it/s]
1103		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.81it/s]
1104		all	1300	1580	0.931	0.895	0.934 0.637
1105							
1106	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1107	212/300	6.276	0.9731	0.5807	1.082	69	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.68it/s]
1108		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.78it/s]
1109		all	1300	1580	0.932	0.892	0.933 0.637
1110	0%	0/122 [00:00<?, ?it/s]					
1111	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1112	213/300	6.246	0.9843	0.5898	1.084	57	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.69it/s]
1113		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.80it/s]
1114		all	1300	1580	0.933	0.892	0.934 0.636
1115							
1116	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1117	214/300	6.246	0.9808	0.5861	1.084	71	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.69it/s]
1118		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.11it/s]
1119		all	1300	1580	0.93	0.892	0.933 0.635
1120	0%	0/122 [00:00<?, ?it/s]					
1121	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1122	215/300	6.276	0.9799	0.579	1.074	65	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.75it/s]
1123		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.15it/s]
1124		all	1300	1580	0.929	0.893	0.932 0.635
1125	0%	0/122 [00:00<?, ?it/s]					
1126	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1127	216/300	6.246	0.9727	0.5834	1.076	81	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.74it/s]
1128		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.11it/s]
1129		all	1300	1580	0.927	0.895	0.933 0.636
1130	0%	0/122 [00:00<?, ?it/s]					
1131	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1132	217/300	6.246	0.966	0.5847	1.077	62	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.73it/s]
1133		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:08<00:00, 2.61it/s]
1134		all	1300	1580	0.926	0.894	0.933 0.637
1135	0%	0/122 [00:00<?, ?it/s]					
1136	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1137	218/300	6.246	0.9787	0.5871	1.085	58	640: 100%   [REDACTED]   122/122 [00:52<00:00, 2.34it/s]
1138		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:11<00:00, 1.85it/s]
1139		all	1300	1580	0.929	0.887	0.932 0.637
1140							
1141	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1142	219/300	6.276	0.9759	0.5869	1.083	66	640: 100%   [REDACTED]   122/122 [00:53<00:00, 2.27it/s]
1143		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:08<00:00, 2.43it/s]
1144		all	1300	1580	0.934	0.89	0.933 0.636
1145							
1146	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1147	220/300	6.276	0.9672	0.5777	1.071	66	640: 100%   [REDACTED]   122/122 [00:51<00:00, 2.35it/s]
1148		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:09<00:00, 2.12it/s]
1149		all	1300	1580	0.933	0.889	0.932 0.636
1150	0%	0/122 [00:00<?, ?it/s]					
1151	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1152	221/300	6.276	0.9656	0.5732	1.077	54	640: 100%   [REDACTED]   122/122 [00:50<00:00, 2.42it/s]
1153		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:09<00:00, 2.11it/s]
1154		all	1300	1580	0.928	0.889	0.932 0.636
1155	0%	0/122 [00:00<?, ?it/s]					
1156	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1157	222/300	6.246	0.9687	0.5796	1.08	65	640: 100%   [REDACTED]   122/122 [00:49<00:00, 2.45it/s]
1158		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:09<00:00, 2.15it/s]
1159		all	1300	1580	0.922	0.893	0.933 0.637
1160	0%	0/122 [00:00<?, ?it/s]					
1161	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1162	223/300	6.276	0.9713	0.5822	1.073	62	640: 100%   [REDACTED]   122/122 [00:49<00:00, 2.45it/s]
1163		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:09<00:00, 2.21it/s]
1164		all	1300	1580	0.927	0.89	0.933 0.638
1165	0%	0/122 [00:00<?, ?it/s]					
1166	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1167	224/300	6.246	0.9489	0.5663	1.064	51	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.71it/s]
1168		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.15it/s]
1169		all	1300	1580	0.929	0.891	0.932 0.638
1170							
1171	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1172	225/300	6.246	0.9602	0.558	1.069	69	640: 100%   [REDACTED]   122/122 [00:44<00:00, 2.74it/s]
1173		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:06<00:00, 3.16it/s]
1174		all	1300	1580	0.93	0.892	0.933 0.638
1175							
1176	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1177	226/300	6.276	0.9639	0.5679	1.073	56	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.68it/s]
1178		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.77it/s]
1179		all	1300	1580	0.928	0.892	0.932 0.638
1180							
1181	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1182	227/300	6.246	0.9595	0.5683	1.066	70	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.68it/s]
1183		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.79it/s]
1184		all	1300	1580	0.926	0.894	0.934 0.638
1185							
1186	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances	Size
1187	228/300	6.276	0.9632	0.5697	1.071	55	640: 100%   [REDACTED]   122/122 [00:45<00:00, 2.68it/s]
1188		Class	Images	Instances	Box(P)	R	mAP50 mAP50-95): 100%   [REDACTED]   21/21 [00:07<00:00, 2.75it/s]
1189		all	1300	1580	0.927	0.895	0.933 0.64
1190							

## File - train

1191 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1192 229/300 6.246 0.9541 0.5571 1.063 52 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1193 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.78it/s]  
 1194 all 1300 1580 0.929 0.893 0.934 0.64  
 1195 0% | 0/122 [00:00<?, ?it/s]

1196 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1197 230/300 6.246 0.9576 0.5688 1.067 69 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1198 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.78it/s]  
 1199 all 1300 1580 0.927 0.893 0.934 0.639  
 1200 0% | 0/122 [00:00<?, ?it/s]

1201 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1202 231/300 6.246 0.944 0.5509 1.058 80 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1203 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.75it/s]  
 1204 all 1300 1580 0.926 0.893 0.934 0.64  
 1205  
 1206 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1207 232/300 6.246 0.953 0.5599 1.064 72 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1208 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.78it/s]  
 1209 all 1300 1580 0.925 0.893 0.933 0.64  
 1210  
 1211 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1212 233/300 6.246 0.9389 0.5543 1.057 64 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1213 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.81it/s]  
 1214 all 1300 1580 0.926 0.891 0.932 0.64  
 1215 0% | 0/122 [00:00<?, ?it/s]

1216 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1217 234/300 6.246 0.9509 0.5571 1.062 77 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1218 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.78it/s]  
 1219 all 1300 1580 0.927 0.891 0.933 0.641  
 1220 0% | 0/122 [00:00<?, ?it/s]

1221 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1222 235/300 6.246 0.9315 0.5508 1.052 56 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1223 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.79it/s]  
 1224 all 1300 1580 0.928 0.889 0.931 0.641  
 1225 0% | 0/122 [00:00<?, ?it/s]

1226 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1227 236/300 6.246 0.9472 0.5533 1.063 60 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1228 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1229 all 1300 1580 0.928 0.89 0.933 0.641  
 1230 0% | 0/122 [00:00<?, ?it/s]

1231 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1232 237/300 6.276 0.9492 0.5598 1.068 60 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1233 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.84it/s]  
 1234 all 1300 1580 0.933 0.887 0.933 0.64  
 1235 0% | 0/122 [00:00<?, ?it/s]

1236 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1237 238/300 6.246 0.9422 0.5514 1.059 74 640: 100% [██████] | 122/122 [00:45<00:00, 2.67it/s]  
 1238 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.78it/s]  
 1239 all 1300 1580 0.931 0.891 0.933 0.641  
 1240  
 1241 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1242 239/300 6.246 0.9398 0.5488 1.056 77 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1243 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1244 all 1300 1580 0.931 0.892 0.933 0.641  
 1245 0% | 0/122 [00:00<?, ?it/s]

1246 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1247 240/300 6.246 0.9384 0.5493 1.059 61 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1248 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.81it/s]  
 1249 all 1300 1580 0.931 0.891 0.933 0.641  
 1250 0% | 0/122 [00:00<?, ?it/s]

1251 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1252 241/300 6.276 0.9442 0.5522 1.059 70 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1253 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1254 all 1300 1580 0.933 0.889 0.931 0.641  
 1255 0% | 0/122 [00:00<?, ?it/s]

1256 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1257 242/300 6.246 0.929 0.5457 1.057 52 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1258 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1259 all 1300 1580 0.926 0.892 0.931 0.641  
 1260  
 1261 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1262 243/300 6.246 0.9364 0.5477 1.06 73 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1263 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.75it/s]  
 1264 all 1300 1580 0.927 0.892 0.931 0.642  
 1265  
 1266 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1267 244/300 6.246 0.9232 0.5479 1.053 59 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1268 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1269 all 1300 1580 0.927 0.892 0.931 0.642  
 1270  
 1271 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1272 245/300 6.246 0.9116 0.5299 1.04 64 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1273 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.77it/s]  
 1274 all 1300 1580 0.927 0.892 0.931 0.641  
 1275 0% | 0/122 [00:00<?, ?it/s]

1276 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1277 246/300 6.276 0.924 0.5389 1.053 78 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1278 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.78it/s]  
 1279 all 1300 1580 0.927 0.892 0.932 0.641  
 1280  
 1281 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1282 247/300 6.276 0.9307 0.5375 1.049 71 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1283 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.81it/s]  
 1284 all 1300 1580 0.928 0.893 0.932 0.642  
 1285  
 1286 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1287 248/300 6.246 0.9151 0.5384 1.044 65 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1288 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1289 all 1300 1580 0.931 0.891 0.931 0.642  
 1290 0% | 0/122 [00:00<?, ?it/s]

1291 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1292 249/300 6.246 0.9172 0.5299 1.053 57 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1293 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.79it/s]  
 1294 all 1300 1580 0.929 0.892 0.932 0.641  
 1295  
 1296 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1297 250/300 6.276 0.9256 0.5386 1.052 67 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1298 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.80it/s]  
 1299 all 1300 1580 0.932 0.887 0.932 0.642  
 1300 0% | 0/122 [00:00<?, ?it/s]

1301 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1302 251/300 6.246 0.9193 0.5371 1.045 80 640: 100% [██████] | 122/122 [00:45<00:00, 2.69it/s]  
 1303 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1304 all 1300 1580 0.935 0.89 0.934 0.641  
 1305  
 1306 Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size  
 1307 252/300 6.246 0.906 0.5223 1.039 73 640: 100% [██████] | 122/122 [00:45<00:00, 2.68it/s]  
 1308 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] | 21/21 [00:07<00:00, 2.82it/s]  
 1309 all 1300 1580 0.935 0.89 0.934 0.642

## File - train

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1310 0% | 0/122 [00:00<?, ?it/s]
1311 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1312 253/300 6.246 0.9056 0.5302 1.043 62 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1313 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.76it/s]
1314 all 1300 1580 0.937 0.89 0.936 0.641
1315 0% | 0/122 [00:00<?, ?it/s]
1316 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1317 254/300 6.246 0.9181 0.5334 1.051 67 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1318 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.76it/s]
1319 all 1300 1580 0.938 0.89 0.934 0.641
1320
1321 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1322 255/300 6.246 0.9135 0.5253 1.043 82 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1323 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.78it/s]
1324 all 1300 1580 0.938 0.887 0.932 0.642
1325 0% | 0/122 [00:00<?, ?it/s]
1326 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1327 256/300 6.246 0.9151 0.5217 1.043 90 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1328 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.78it/s]
1329 all 1300 1580 0.936 0.887 0.932 0.642
1330
1331 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1332 257/300 6.246 0.8978 0.5213 1.04 69 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1333 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.82it/s]
1334 all 1300 1580 0.933 0.887 0.932 0.642
1335
1336 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1337 258/300 6.246 0.8929 0.5204 1.029 65 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1338 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.78it/s]
1339 all 1300 1580 0.935 0.887 0.932 0.642
1340 0% | 0/122 [00:00<?, ?it/s]
1341 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1342 259/300 6.246 0.8973 0.5224 1.039 62 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1343 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.73it/s]
1344 all 1300 1580 0.937 0.886 0.932 0.641
1345
1346 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1347 260/300 6.276 0.9004 0.5185 1.04 74 640: 100% [██████] 122/122 [00:45<00:00, 2.66it/s]
1348 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.76it/s]
1349 all 1300 1580 0.933 0.888 0.932 0.641
1350
1351 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1352 261/300 6.246 0.8971 0.5175 1.038 71 640: 100% [██████] 122/122 [00:45<00:00, 2.68it/s]
1353 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.83it/s]
1354 all 1300 1580 0.933 0.888 0.932 0.641
1355 0% | 0/122 [00:00<?, ?it/s]
1356 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1357 262/300 6.246 0.8899 0.5101 1.034 65 640: 100% [██████] 122/122 [00:45<00:00, 2.68it/s]
1358 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.81it/s]
1359 all 1300 1580 0.933 0.888 0.932 0.64
1360
1361 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1362 263/300 6.246 0.9 0.5208 1.045 75 640: 100% [██████] 122/122 [00:45<00:00, 2.67it/s]
1363 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.77it/s]
1364 all 1300 1580 0.932 0.888 0.932 0.64
1365
1366 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1367 264/300 6.276 0.9067 0.5282 1.038 70 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1368 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.78it/s]
1369 all 1300 1580 0.932 0.888 0.933 0.64
1370 0% | 0/122 [00:00<?, ?it/s]
1371 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1372 265/300 6.246 0.8972 0.5279 1.041 63 640: 100% [██████] 122/122 [00:45<00:00, 2.67it/s]
1373 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.81it/s]
1374 all 1300 1580 0.932 0.888 0.932 0.64
1375 0% | 0/122 [00:00<?, ?it/s]
1376 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1377 266/300 6.246 0.9039 0.5235 1.039 82 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1378 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.80it/s]
1379 all 1300 1580 0.93 0.889 0.932 0.64
1380 0% | 0/122 [00:00<?, ?it/s]
1381 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1382 267/300 6.246 0.8803 0.5154 1.027 83 640: 100% [██████] 122/122 [00:45<00:00, 2.68it/s]
1383 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.80it/s]
1384 all 1300 1580 0.931 0.889 0.933 0.641
1385
1386 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1387 268/300 6.246 0.8742 0.5075 1.026 78 640: 100% [██████] 122/122 [00:45<00:00, 2.67it/s]
1388 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.76it/s]
1389 all 1300 1580 0.93 0.888 0.933 0.64
1390 0% | 0/122 [00:00<?, ?it/s]
1391 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1392 269/300 6.246 0.8864 0.5124 1.033 57 640: 100% [██████] 122/122 [00:45<00:00, 2.68it/s]
1393 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.77it/s]
1394 all 1300 1580 0.929 0.888 0.932 0.64
1395 0% | 0/122 [00:00<?, ?it/s]
1396 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1397 270/300 6.246 0.886 0.5141 1.035 69 640: 100% [██████] 122/122 [00:45<00:00, 2.67it/s]
1398 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.77it/s]
1399 all 1300 1580 0.937 0.884 0.932 0.639
1400
1401 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1402 271/300 6.276 0.8742 0.5006 1.024 77 640: 100% [██████] 122/122 [00:45<00:00, 2.69it/s]
1403 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:06<00:00, 3.04it/s]
1404 all 1300 1580 0.937 0.883 0.933 0.639
1405
1406 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1407 272/300 6.246 0.8706 0.504 1.024 69 640: 100% [██████] 122/122 [00:44<00:00, 2.71it/s]
1408 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:06<00:00, 3.04it/s]
1409 all 1300 1580 0.938 0.883 0.932 0.639
1410
1411 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1412 273/300 6.246 0.885 0.508 1.029 69 640: 100% [██████] 122/122 [00:45<00:00, 2.71it/s]
1413 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:06<00:00, 3.04it/s]
1414 all 1300 1580 0.939 0.883 0.932 0.639
1415
1416 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1417 274/300 6.246 0.8746 0.5003 1.02 61 640: 100% [██████] 122/122 [00:45<00:00, 2.71it/s]
1418 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.98it/s]
1419 all 1300 1580 0.94 0.883 0.933 0.639
1420 0% | 0/122 [00:00<?, ?it/s]
1421 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1422 275/300 6.246 0.8644 0.5004 1.019 72 640: 100% [██████] 122/122 [00:44<00:00, 2.71it/s]
1423 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:06<00:00, 3.02it/s]
1424 all 1300 1580 0.94 0.883 0.933 0.64
1425 0% | 0/122 [00:00<?, ?it/s]
1426 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size
1427 276/300 6.246 0.8813 0.5098 1.033 77 640: 100% [██████] 122/122 [00:45<00:00, 2.66it/s]
1428 Class Images Instances Box(P R mAP50 mAP50-95): 100% [██████] 21/21 [00:07<00:00, 2.74it/s]

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## File - train

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1429           all    1300    1580    0.937    0.886    0.933    0.639
1430   0%|   | 0/122 [00:00<?, ?it/s]
1431   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1432 277/300  6.246   0.8655   0.492    1.021     80       640: 100%|[██████]| 122/122 [00:45<00:00, 2.66it/s]
1433   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.73it/s]
1434   all    1300    1580    0.937    0.884    0.933    0.639
1435
1436   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1437 278/300  6.246   0.8702   0.4994   1.024     69       640: 100%|[██████]| 122/122 [00:45<00:00, 2.65it/s]
1438   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.71it/s]
1439   all    1300    1580    0.937    0.884    0.933    0.64
1440
1441   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1442 279/300  6.276   0.8614   0.4872   1.018     75       640: 100%|[██████]| 122/122 [00:45<00:00, 2.65it/s]
1443   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.71it/s]
1444   all    1300    1580    0.937    0.884    0.932    0.639
1445   0%|   | 0/122 [00:00<?, ?it/s]
1446   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1447 280/300  6.246   0.866    0.4986   1.019     60       640: 100%|[██████]| 122/122 [00:45<00:00, 2.66it/s]
1448   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.68it/s]
1449   all    1300    1580    0.937    0.884    0.932    0.639
1450   0%|   | 0/122 [00:00<?, ?it/s]
1451   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1452 281/300  6.276   0.8649   0.4941   1.021     72       640: 100%|[██████]| 122/122 [00:45<00:00, 2.66it/s]
1453   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.68it/s]
1454   all    1300    1580    0.937    0.885    0.933    0.639
1455   0%|   | 0/122 [00:00<?, ?it/s]
1456   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1457 282/300  6.246   0.8534   0.4903   1.015     86       640: 100%|[██████]| 122/122 [00:45<00:00, 2.66it/s]
1458   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.66it/s]
1459   all    1300    1580    0.936    0.884    0.933    0.639
1460
1461   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1462 283/300  6.246   0.8613   0.4984   1.016     70       640: 100%|[██████]| 122/122 [00:45<00:00, 2.70it/s]
1463   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.03it/s]
1464   all    1300    1580    0.937    0.885    0.933    0.64
1465   0%|   | 0/122 [00:00<?, ?it/s]
1466   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1467 284/300  6.276   0.8716   0.4965   1.019     91       640: 100%|[██████]| 122/122 [00:44<00:00, 2.71it/s]
1468   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.02it/s]
1469   all    1300    1580    0.936    0.884    0.933    0.64
1470   0%|   | 0/122 [00:00<?, ?it/s]
1471   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1472 285/300  6.246   0.8475   0.4865   1.014     66       640: 100%|[██████]| 122/122 [00:44<00:00, 2.71it/s]
1473   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.03it/s]
1474   all    1300    1580    0.934    0.886    0.933    0.64
1475   0%|   | 0/122 [00:00<?, ?it/s]
1476   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1477 286/300  6.246   0.8559   0.4872   1.018     60       640: 100%|[██████]| 122/122 [00:44<00:00, 2.72it/s]
1478   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.00it/s]
1479   all    1300    1580    0.933    0.886    0.933    0.64
1480   0%|   | 0/122 [00:00<?, ?it/s]
1481   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1482 287/300  6.246   0.8617   0.4951   1.023     79       640: 100%|[██████]| 122/122 [00:44<00:00, 2.72it/s]
1483   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.03it/s]
1484   all    1300    1580    0.931    0.886    0.933    0.64
1485
1486   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1487 288/300  6.246   0.853    0.4925   1.017     61       640: 100%|[██████]| 122/122 [00:44<00:00, 2.72it/s]
1488   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.05it/s]
1489   all    1300    1580    0.931    0.886    0.933    0.639
1490
1491   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1492 289/300  6.246   0.8628   0.4953   1.019     73       640: 100%|[██████]| 122/122 [00:45<00:00, 2.71it/s]
1493   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.02it/s]
1494   all    1300    1580    0.931    0.886    0.933    0.639
1495   0%|   | 0/122 [00:00<?, ?it/s]
1496   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1497 290/300  6.246   0.841    0.4853   1.011     63       640: 100%|[██████]| 122/122 [00:45<00:00, 2.70it/s]
1498   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.01it/s]
1499   all    1300    1580    0.932    0.886    0.933    0.639
1500 Closing dataloader mosaic
1501 albumentations: Blur(p=0.01, blur_limit=(3, 7)), MedianBlur(p=0.01, blur_limit=(3, 7)), ToGray(p=0.01, method='weighted_average', num_output_channels=3), (
1502   0%|   | 0/122 [00:00<?, ?it/s]
1503   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1504 291/300  6.246   0.8051   0.4281   0.9665    33       640: 100%|[██████]| 122/122 [00:45<00:00, 2.70it/s]
1505   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.10it/s]
1506   all    1300    1580    0.932    0.885    0.933    0.64
1507
1508   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1509 292/300  6.246   0.784    0.4047   0.9629    33       640: 100%|[██████]| 122/122 [00:44<00:00, 2.74it/s]
1510   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.15it/s]
1511   all    1300    1580    0.932    0.885    0.933    0.639
1512   0%|   | 0/122 [00:00<?, ?it/s]
1513   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1514 293/300  6.246   0.7738   0.3972   0.9544    31       640: 100%|[██████]| 122/122 [00:44<00:00, 2.74it/s]
1515   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.16it/s]
1516   all    1300    1580    0.933    0.886    0.934    0.64
1517
1518   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1519 294/300  6.246   0.7664   0.3928   0.9494    32       640: 100%|[██████]| 122/122 [00:44<00:00, 2.75it/s]
1520   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.06it/s]
1521   all    1300    1580    0.934    0.886    0.934    0.641
1522
1523   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1524 295/300  6.246   0.7773   0.3971   0.9525    33       640: 100%|[██████]| 122/122 [00:44<00:00, 2.74it/s]
1525   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:07<00:00, 2.76it/s]
1526   all    1300    1580    0.934    0.886    0.934    0.641
1527   0%|   | 0/122 [00:00<?, ?it/s]
1528   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1529 296/300  6.246   0.7565   0.3858   0.9404    34       640: 100%|[██████]| 122/122 [00:44<00:00, 2.73it/s]
1530   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.17it/s]
1531   all    1300    1580    0.935    0.887    0.934    0.641
1532   0%|   | 0/122 [00:00<?, ?it/s]
1533   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1534 297/300  6.246   0.7482   0.3849   0.9417    32       640: 100%|[██████]| 122/122 [00:44<00:00, 2.75it/s]
1535   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.15it/s]
1536   all    1300    1580    0.934    0.887    0.934    0.641
1537   0%|   | 0/122 [00:00<?, ?it/s]
1538   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1539 298/300  6.246   0.7437   0.384    0.9416    39       640: 100%|[██████]| 122/122 [00:44<00:00, 2.75it/s]
1540   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.14it/s]
1541   all    1300    1580    0.933    0.888    0.934    0.641
1542
1543   Epoch GPU_mem  box_loss  cls_loss  dfl_loss Instances      Size
1544 299/300  6.246   0.7494   0.3895   0.9369    32       640: 100%|[██████]| 122/122 [00:44<00:00, 2.75it/s]
1545   Class Images Instances Box(P) R mAP50 mAP50-95): 100%|[██████]| 21/21 [00:06<00:00, 3.10it/s]
1546   all    1300    1580    0.934    0.889    0.935    0.641

```

## File - train

```
1548      Epoch    GPU_mem   box_loss   cls_loss   dfl_loss   Instances      Size
1549  300/300     6.246    0.7464    0.3814    0.9366       36      640: 100%|██████████| 122/122 [00:47<00:00,  2.56it/s]
1550          Class    Images   Instances   Box(P        R      mAP50  mAP50-95): 100%|██████████| 21/21 [00:09<00:00,  2.11it/s]
1551          all     1300     1580      0.933     0.889      0.935     0.642
1552
1553 300 epochs completed in 4.644 hours.
1554 Optimizer stripped from runs\YOLOv12\weights\last.pt, 5.5MB
1555 Optimizer stripped from runs\YOLOv12\weights\best.pt, 5.5MB
1556
1557 Validating runs\YOLOv12\weights\best.pt...
1558 Ultralytics 8.3.157 Python-3.12.10 torch-2.6.0+cu126 CUDA:0 (NVIDIA GeForce RTX 4060 Laptop GPU, 8188MiB)
1559 YOLOv12 summary (fused): 159 layers, 2,527,166 parameters, 0 gradients, 5.8 GFLOPs
1560          Class    Images   Instances   Box(P        R      mAP50  mAP50-95): 100%|██████████| 21/21 [00:10<00:00,  1.94it/s]
1561          all     1300     1580      0.937     0.886      0.932     0.642
1562          Fire     894     963      0.959     0.92      0.955     0.695
1563          Smoke    574     617      0.916     0.853      0.909     0.588
1564 Speed: 0.1ms preprocess, 1.4ms inference, 0.0ms loss, 2.0ms postprocess per image
1565 Results saved to runs\YOLOv12
1566 Ultralytics 8.3.157 Python-3.12.10 torch-2.6.0+cu126 CPU (AMD Ryzen 7 7435HS)
1567 YOLOv12 summary (fused): 159 layers, 2,527,166 parameters, 0 gradients, 5.8 GFLOPs
1568
1569 PyTorch: starting from 'runs\YOLOv12\weights\best.pt' with input shape (1, 3, 640, 640) BCHW and output shape(s) (1, 6, 8400) (5.2 MB)
1570
1571 ONNX: starting export with onnx 1.17.0 opset 19...
1572 ONNX: slimming with onnxslim 0.1.57...
1573 ONNX: export success 2.8s, saved as 'runs\YOLOv12\weights\best.onnx' (9.9 MB)
1574
1575 Export complete (3.2s)
1576 Results saved to D:\Projects\Code\python-projects\yolo-gfl\yolov12\runs\YOLOv12\weights
1577 Predict:      yolo predict task=detect model=runs\YOLOv12\weights\best.onnx imgsz=640
1578 Validate:     yolo val task=detect model=runs\YOLOv12\weights\best.onnx imgsz=640 data=../dataset/HOME-FIRE/data.yaml
1579 Visualize:    https://netron.app
1580
1581 Process finished with exit code 0
1582
```