

# Copied .csv

## Batch size 8:

```
epoch,time,train/box_loss,train/cls_loss,train/df_loss,metrics/precision(B),metrics/recall(B),metrics/mAP50(B),metrics/mAP50-95(B),val/box_loss,val/cls_loss,val/df_loss,lr/pg0,lr/pg1,lr/pg2
1,61.2339,2.06322,3.48498,1.60873,0.01472,0.17742,0.11045,0.05968,1.99653,3.55111,1.36685,8.335e-05,8.335e-05,8.335e-05
2,123.56,2.00371,3.10287,1.46176,0.02189,0.24552,0.14858,0.07724,2.03288,3.4714,1.33837,0.000174293,0.000174293,0.000174293
3,185.979,1.90336,2.37724,1.37814,0.02867,0.31362,0.16141,0.06558,2.11246,3.29541,1.33407,0.000255334,0.000255334,0.000255334
4,256.22,2.1165,2.01319,1.50386,0.48112,0.17921,0.22715,0.10081,2.14409,3.03986,1.36626,0.000326474,0.000326474,0.000326474
5,314.837,2.03347,1.85185,1.4004,0.73562,0.13962,0.26978,0.11411,2.10976,2.98443,1.3582,0.000387711,0.000387711,0.000387711
6,376.073,2.09184,1.76014,1.4251,0.11807,0.44803,0.21915,0.09537,2.39622,2.99011,1.53606,0.000439046,0.000439046,0.000439046
7,434.108,2.04708,1.99441,1.5192,0.17048,0.51434,0.29014,0.13475,2.14279,2.82311,1.42408,0.000480479,0.000480479,0.000480479
8,492.992,1.98059,1.70574,1.40403,0.58755,0.26165,0.30877,0.14391,2.07549,2.74892,1.41393,0.000512011,0.000512011,0.000512011
9,551.155,2.13873,1.73489,1.40259,0.71893,0.14875,0.31718,0.15009,2.01612,2.66777,1.37783,0.00053364,0.00053364,0.00053364
10,612.232,2.11232,1.86967,1.43974,0.67641,0.17982,0.33041,0.16933,2.00452,2.48779,1.34648,0.000545367,0.000545367,0.000545367
11,670.17,1.84709,1.91413,1.37675,0.6704,0.21326,0.33945,0.17134,1.98475,2.38999,1.34213,0.000547193,0.000547193,0.000547193
12,730.646,1.84838,2.10969,1.46812,0.5306,0.20968,0.30082,0.14705,1.99843,2.35867,1.35729,0.000539116,0.000539116,0.000539116
13,788.072,2.00034,2.06815,1.38012,0.4061,0.20251,0.24265,0.11722,1.96554,2.36208,1.36181,0.000521138,0.000521138,0.000521138
14,845.038,1.95495,1.85608,1.35357,0.35109,0.2298,0.23285,0.11587,1.94484,2.32296,1.36856,0.000493257,0.000493257,0.000493257
15,904.025,1.90997,1.83812,1.3546,0.35109,0.2298,0.23285,0.11587,1.94484,2.32296,1.36856,0.000455474,0.000455474,0.000455474
16,962.396,1.78015,1.89819,1.32998,0.38017,0.30228,0.26539,0.13325,1.91865,2.17599,1.34314,0.00040779,0.00040779,0.00040779
17,1022.57,1.78374,2.22311,1.38243,0.49877,0.36559,0.38278,0.19779,1.87832,1.95569,1.30447,0.000346736,0.000346736,0.000346736
18,1082.43,1.70819,1.87629,1.37376,0.66601,0.38172,0.48421,0.25649,1.83984,1.77472,1.28045,0.00026422,0.00026422,0.00026422
19,1139.74,1.84365,1.65349,1.36798,0.66601,0.38172,0.48421,0.25649,1.83984,1.77472,1.28045,0.000181703,0.000181703,0.000181703
```

20,1199.42,1.74485,1.94942,1.32614,0.66862,0.42473,0.52291,0.27142,1.8235,1.6719,1.2706  
9,9.91865e-05,9.91865e-05,9.91865e-05

#### Batch size 16:

epoch,time,train/box\_loss,train/cls\_loss,train/df\_loss,metrics/precision(B),metrics/recall(B),metrics/mAP50(B),metrics/mAP50-95(B),val/box\_loss,val/cls\_loss,val/df\_loss,lr/pg0,lr/pg1,lr/pg2  
1,69.6973,2.12116,3.5054,1.60831,0.01218,0.15054,0.07399,0.03404,2.22685,3.59871,1.4631  
5,3.334e-05,3.334e-05,3.334e-05  
2,133.007,2.19556,3.47121,1.60562,0.0143,0.17204,0.11288,0.0603,2.14477,3.6045,1.43626,7  
.92242e-05,7.92242e-05,7.92242e-05  
3,193.755,1.93,3.13644,1.44811,0.02011,0.22222,0.13192,0.06766,2.22856,3.57568,1.49897,0  
.000120157,0.000120157,0.000120157  
4,256.37,2.09426,2.75091,1.50343,0.02283,0.24552,0.11645,0.04736,2.27358,3.51469,1.4211  
7,0.00015614,0.00015614,0.00015614  
5,314.069,2.05979,2.16715,1.40172,0.02647,0.28495,0.16608,0.07942,2.14083,3.32941,1.335  
64,0.000187171,0.000187171,0.000187171  
6,378.016,1.98428,1.82041,1.34638,0.03437,0.37097,0.20985,0.10131,2.0866,3.23326,1.3139  
2,0.000213251,0.000213251,0.000213251  
7,436.435,2.00151,1.89036,1.45222,0.04,0.43728,0.24469,0.11737,2.04625,3.14965,1.29131,0  
.00023438,0.00023438,0.00023438  
8,500.455,2.08616,1.72058,1.39182,0.03997,0.43548,0.24704,0.12323,2.06018,3.10677,1.299  
75,0.000250558,0.000250558,0.000250558  
9,562.669,2.10193,1.71366,1.3399,0.04154,0.45341,0.22324,0.11311,2.0187,3.0532,1.29649,0  
.000261786,0.000261786,0.000261786  
10,622.308,2.04185,1.76779,1.37889,0.03992,0.43728,0.20496,0.10689,2.01654,3.05118,1.29  
753,0.000268062,0.000268062,0.000268062  
11,684.309,1.7118,1.86165,1.28418,0.35244,0.19713,0.20108,0.10929,1.99469,3.02676,1.276  
76,0.000269387,0.000269387,0.000269387  
12,748.875,1.79327,1.86714,1.38849,0.22641,0.29928,0.2137,0.11969,1.98003,3.01095,1.262  
02,0.000265761,0.000265761,0.000265761  
13,810.514,1.95998,1.84477,1.34998,0.18546,0.38889,0.24721,0.13077,1.94235,2.98261,1.27  
354,0.000257185,0.000257185,0.000257185  
14,871.805,1.9168,1.6852,1.36278,0.4498,0.20072,0.24783,0.12728,1.9371,2.98005,1.28303,0  
.000243657,0.000243657,0.000243657  
15,931.855,1.8186,1.61378,1.33061,0.8488,0.1006,0.26438,0.138,1.92197,2.90592,1.28194,0  
.000225178,0.000225178,0.000225178  
16,991.896,1.78617,1.55901,1.35522,0.87769,0.09003,0.26909,0.14453,1.95056,2.88153,1.28  
718,0.000201749,0.000201749,0.000201749  
17,1050.99,1.78962,1.54103,1.34648,0.9799,0.08737,0.30196,0.17305,1.92572,2.7838,1.2676  
4,0.000173368,0.000173368,0.000173368  
18,1110.04,1.6293,1.71007,1.29337,0.94972,0.10156,0.32361,0.18754,1.92325,2.71495,1.256  
91,0.000140036,0.000140036,0.000140036  
19,1169.46,1.77983,1.58686,1.34686,0.92711,0.11397,0.34264,0.19728,1.92918,2.65154,1.25  
264,0.000101754,0.000101754,0.000101754

20,1228.45,1.7916,1.5439,1.28786,0.93699,0.13326,0.3706,0.21236,1.93082,2.58362,1.24807,  
5.852e-05,5.852e-05,5.852e-05

### Batch size 32:

epoch,time,train/box\_loss,train/cls\_loss,train/df\_loss,metrics/precision(B),metrics/recall(B),metrics/mAP50(B),metrics/mAP50-95(B),val/box\_loss,val/cls\_loss,val/df\_loss,lr/pg0,lr/pg1,lr/pg2  
1,96.7526,2.07747,3.48349,1.60256,0.01213,0.14875,0.05845,0.02615,2.0216,3.54076,1.4645  
1,1.667e-05,1.667e-05,1.667e-05  
2,199.524,2.30345,3.51575,1.72962,0.01252,0.15412,0.09486,0.04448,1.97858,3.54641,1.444  
02,4.75345e-05,4.75345e-05,4.75345e-05  
3,283.468,2.03575,3.41412,1.50967,0.01468,0.17563,0.11958,0.06414,1.95007,3.54466,1.439  
2,7.50984e-05,7.50984e-05,7.50984e-05  
4,372.044,2.07613,3.29615,1.58721,0.01855,0.21147,0.13417,0.07052,1.97184,3.51285,1.440  
15,9.93615e-05,9.93615e-05,9.93615e-05  
5,453.124,2.07549,3.06203,1.46204,0.0232,0.25806,0.14835,0.07435,1.93811,3.45144,1.3864  
9,0.000120324,0.000120324,0.000120324  
6,540.957,1.93605,2.64964,1.3696,0.02729,0.30287,0.15508,0.07503,1.91794,3.37757,1.3223  
4,0.000137986,0.000137986,0.000137986  
7,619.816,2.0524,2.42378,1.446,0.02647,0.2957,0.16354,0.07986,1.89949,3.29402,1.31228,0.  
000152347,0.000152347,0.000152347  
8,703.577,2.05677,2.09826,1.36436,0.02928,0.33333,0.18928,0.09115,1.87142,3.17776,1.295  
86,0.000163408,0.000163408,0.000163408  
9,795.116,2.12747,1.83741,1.33483,0.03757,0.44624,0.19673,0.09284,1.87843,3.07563,1.294  
04,0.000171168,0.000171168,0.000171168  
10,873.718,2.12685,1.89379,1.36455,0.03854,0.46057,0.19255,0.09475,1.90749,3.04224,1.31  
225,0.000175627,0.000175627,0.000175627  
11,955.978,1.67835,2.07287,1.27144,0.04031,0.47133,0.19892,0.10055,1.90851,3.01983,1.31  
759,0.000176785,0.000176785,0.000176785  
12,1034.93,1.77917,1.80653,1.37742,0.04142,0.46416,0.20029,0.10231,1.93605,3.02178,1.35  
033,0.000174643,0.000174643,0.000174643  
13,1114.5,1.99441,1.90605,1.42527,0.03944,0.43369,0.20915,0.10828,1.97014,2.99873,1.379  
78,0.000169201,0.000169201,0.000169201  
14,1194.03,1.96203,1.72197,1.39127,0.04034,0.44624,0.2159,0.11451,1.90264,2.96884,1.321  
78,0.000160457,0.000160457,0.000160457  
15,1275.47,1.75119,1.6411,1.2961,0.04153,0.46774,0.22987,0.11756,1.86029,2.94705,1.2835  
3,0.000148413,0.000148413,0.000148413  
16,1354.31,1.77905,1.58353,1.33152,0.04399,0.5,0.27745,0.14884,1.77705,2.89236,1.25143,0.  
.000133068,0.000133068,0.000133068  
17,1436.56,1.85336,1.55415,1.32391,0.04785,0.52688,0.318,0.17845,1.72563,2.84577,1.2400  
2,0.000114423,0.000114423,0.000114423  
18,1516.88,1.50481,1.82802,1.2449,0.52188,0.30466,0.33932,0.19209,1.70087,2.82272,1.240  
61,9.24768e-05,9.24768e-05,9.24768e-05  
19,1589.04,1.91453,1.58045,1.32493,0.83317,0.179,0.34104,0.19016,1.70341,2.81557,1.2478  
8,6.72301e-05,6.72301e-05,6.72301e-05

20,1668.41,1.92705,1.60666,1.26494,0.91308,0.13978,0.35555,0.1971,1.69802,2.78688,1.246  
73,3.86827e-05,3.86827e-05,3.86827e-05