1. uncluttered_data 100 epoch:

```
[05/17 00:08:12 d2.utils.events]: eta: 0:01:15  iter: 19  total_loss:
2.566  loss_cls: 1.014  loss_box_reg: 0.9307  loss_mask: 0.5936
loss_rpn_cls: 0.003316  loss_rpn_loc: 0.009073  time: 0.9650  data_time:
0.5677  lr: 0.0038162  max_mem: 2338M
[05/17 00:08:26 d2.utils.events]: eta: 0:00:45  iter: 39  total_loss:
1.527  loss_cls: 0.6057  loss_box_reg: 0.6755  loss_mask: 0.1818
loss_rpn_cls: 0.0003929  loss_rpn_loc: 0.01365  time: 0.8086  data_time:
0.2308  lr: 0.0078122  max_mem: 2338M
[05/17 00:08:40 d2.utils.events]: eta: 0:00:29  iter: 59  total_loss:
0.9082  loss_cls: 0.3986  loss_box_reg: 0.4083  loss_mask: 0.1083
loss_rpn_cls: 0.001709  loss_rpn_loc: 0.01104  time: 0.7852  data_time:
0.2902  lr: 0.011808  max_mem: 2338M
[05/17 00:08:55 d2.utils.events]: eta: 0:00:14  iter: 79  total_loss: 0.98
loss_cls: 0.3908  loss_box_reg: 0.4599  loss_mask: 0.09497  loss_rpn_cls:
0.003745  loss_rpn_loc: 0.01391  time: 0.7681  data_time: 0.2558  lr:
0.015804  max_mem: 2338M
[05/17 00:09:15 d2.utils.events]: eta: 0:00:00  iter: 99  total_loss:
0.9611  loss_cls: 0.3257  loss_box_reg: 0.5084  loss_mask: 0.08971
loss_rpn_cls: 0.003281  loss_rpn_loc: 0.01656  time: 0.7603  data_time:
0.2774  lr: 0.0198  max_mem: 2338M

[05/17 00:10:13 d2.data.datasets.coco]: Loaded 6 images in COCO format
from /content/drive/My Drive/uncluttered_data/test/trainval.json
[05/17 00:10:13 d2.data.build]: Distribution of instances among all 10
categories:
|  category  | #instances   |  category  | #instances   |  category  |
#instances   |
|:----------:|:-------------|:----------:|:-------------|:----------:|:---
----------|
|  febreeze  | 2            | headphones | 2            |    iron    | 2
|
|    pan     | 2            |   peanut   | 2            |   sandal   | 2
|
|    soup    | 2            |    soy     | 2            |   spoon    | 2
|
| toothpaste | 2            |            |              |            |
|
|   total    | 20           |            |              |            |
|
[05/17 00:10:13 d2.data.dataset_mapper]: [DatasetMapper] Augmentations
used in inference: [ResizeShortestEdge(short_edge_length=(800, 800),
max_size=1333, sample_style='choice')]
[05/17 00:10:13 d2.data.common]: Serializing 6 elements to byte tensors
and concatenating them all ...
```

```
[05/17 00:10:13 d2.data.common]: Serialized dataset takes 0.01 MiB
[05/17 00:10:13 d2.evaluation.evaluator]: Start inference on 6 batches
[05/17 00:10:18 d2.evaluation.evaluator]: Total inference time:
0:00:00.269197 (0.269197 s / iter per device, on 1 devices)
[05/17 00:10:18 d2.evaluation.evaluator]: Total inference pure compute
time: 0:00:00 (0.117160 s / iter per device, on 1 devices)
[05/17 00:10:18 d2.evaluation.coco_evaluation]: Preparing results for COCO
format ...
[05/17 00:10:18 d2.evaluation.coco_evaluation]: Saving results to
/content/drive/My Drive/uncluttered_data/eval/coco_instances_results.json
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Evaluating predictions
with unofficial COCO API...
Loading and preparing results...
DONE (t=0.00s)
creating index...
index created!
[05/17 00:10:19 d2.evaluation.fast_eval_api]: Evaluate annotation type
*bbox*
[05/17 00:10:19 d2.evaluation.fast_eval_api]: COCOeval_opt.evaluate()
finished in 0.01 seconds.
[05/17 00:10:19 d2.evaluation.fast_eval_api]: Accumulating evaluation
results...
[05/17 00:10:19 d2.evaluation.fast_eval_api]: COCOeval_opt.accumulate()
finished in 0.02 seconds.
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.402
 Average Precision  (AP) @[ IoU=0.50      | area=   all | maxDets=100 ] =
0.983
 Average Precision  (AP) @[ IoU=0.75      | area=   all | maxDets=100 ] =
0.291
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.402
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=  1 ] =
0.435
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets= 10 ] =
0.465
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.465
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
```

```
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.465
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Evaluation results for
bbox:
|   AP   |  AP50  |  AP75  |  APs  |  APm  |  APl   |
|:------:|:------:|:------:|:-----:|:-----:|:------:|
| 40.205 | 98.350 | 29.080 |  nan  |  nan  | 40.205 |
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Some metrics cannot be
computed and is shown as NaN.
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Per-category bbox AP:
| category   | AP     | category   | AP     | category   | AP     |
|:-----------|:-------|:-----------|:-------|:-----------|:-------|
| febreeze   | 25.050 | headphones | 25.050 | iron       | 45.050 |
| pan        | 35.149 | peanut     | 62.525 | sandal     | 60.198 |
| soup       | 13.787 | soy        | 60.198 | spoon      | 30.000 |
| toothpaste | 45.050 |            |        |            |        |
Loading and preparing results...
DONE (t=0.00s)
creating index...
index created!
[05/17 00:10:19 d2.evaluation.fast_eval_api]: Evaluate annotation type
*segm*
[05/17 00:10:19 d2.evaluation.fast_eval_api]: COCOeval_opt.evaluate()
finished in 0.01 seconds.
[05/17 00:10:19 d2.evaluation.fast_eval_api]: Accumulating evaluation
results...
[05/17 00:10:19 d2.evaluation.fast_eval_api]: COCOeval_opt.accumulate()
finished in 0.03 seconds.
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.765
 Average Precision  (AP) @[ IoU=0.50      | area=   all | maxDets=100 ] =
0.983
 Average Precision  (AP) @[ IoU=0.75      | area=   all | maxDets=100 ] =
0.815
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.765
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=  1 ] =
0.780
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets= 10 ] =
0.800
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.800
```

```
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.800
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Evaluation results for
segm:
|   AP   |  AP50  |  AP75  |  APs  |  APm  |  APl   |
|:------:|:------:|:------:|:-----:|:-----:|:------:|
| 76.477 | 98.350 | 81.506 |  nan  |  nan  | 76.477 |
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Some metrics cannot be
computed and is shown as NaN.
[05/17 00:10:19 d2.evaluation.coco_evaluation]: Per-category segm AP:
| category   | AP     | category   | AP     | category   | AP     |
|:-----------|:-------|:-----------|:-------|:-----------|:-------|
| febreeze   | 90.000 | headphones | 52.525 | iron       | 95.050 |
| pan        | 82.525 | peanut     | 90.000 | sandal     | 85.149 |
| soup       | 42.624 | soy        | 71.848 | spoon      | 80.000 |
| toothpaste | 75.050 |            |        |            |        |
OrderedDict([('bbox',
              {'AP': 40.20544554455446,
               'AP-febreeze': 25.04950495049505,
               'AP-headphones': 25.04950495049505,
               'AP-iron': 45.04950495049505,
               'AP-pan': 35.148514851485146,
               'AP-peanut': 62.524752475247524,
               'AP-sandal': 60.198019801980195,
               'AP-soup': 13.787128712871288,
               'AP-soy': 60.198019801980195,
               'AP-spoon': 30.0,
               'AP-toothpaste': 45.04950495049505,
               'AP50': 98.34983498349834,
               'AP75': 29.080033003300326,
               'APl': 40.20544554455446,
               'APm': nan,
               'APs': nan}),
             ('segm',
              {'AP': 76.47689768976898,
               'AP-febreeze': 90.0,
               'AP-headphones': 52.524752475247524,
               'AP-iron': 95.04950495049505,
               'AP-pan': 82.52475247524752,
               'AP-peanut': 90.0,
               'AP-sandal': 85.14851485148515,
               'AP-soup': 42.62376237623762,
               'AP-soy': 71.84818481848183,
```

```
'AP-spoon': 80.0,
'AP-toothpaste': 75.04950495049505,
'AP50': 98.34983498349834,
'AP75': 81.50577557755774,
'APl': 76.47689768976898,
'APm': nan,
'APs': nan})])
```

2. uncluttered_data 300 epoch:

```
[05/17 00:38:41 d2.utils.events]: eta: 0:03:24  iter: 19  total_loss:
2.745  loss_cls: 1.127  loss_box_reg: 0.9598  loss_mask: 0.6595
loss_rpn_cls: 0.002895  loss_rpn_loc: 0.01155  time: 0.7204  data_time:
0.2869  lr: 0.0012854  max_mem: 2587M
[05/17 00:38:55 d2.utils.events]: eta: 0:02:57  iter: 39  total_loss:
1.751  loss_cls: 0.6728  loss_box_reg: 0.8723  loss_mask: 0.2355
loss_rpn_cls: 0.001032  loss_rpn_loc: 0.01043  time: 0.6982  data_time:
0.2369  lr: 0.0026174  max_mem: 2587M
[05/17 00:39:09 d2.utils.events]: eta: 0:02:42  iter: 59  total_loss:
1.057  loss_cls: 0.4699  loss_box_reg: 0.4386  loss_mask: 0.1014
loss_rpn_cls: 0.0001134  loss_rpn_loc: 0.01649  time: 0.7048  data_time:
0.2551  lr: 0.0039494  max_mem: 2587M
[05/17 00:39:23 d2.utils.events]: eta: 0:02:28  iter: 79  total_loss:
0.7261  loss_cls: 0.2313  loss_box_reg: 0.3824  loss_mask: 0.08614
loss_rpn_cls: 0.0002111  loss_rpn_loc: 0.01045  time: 0.7038  data_time:
0.2337  lr: 0.0052814  max_mem: 2587M
[05/17 00:39:37 d2.utils.events]: eta: 0:02:15  iter: 99  total_loss:
0.5491  loss_cls: 0.1236  loss_box_reg: 0.3556  loss_mask: 0.0721
loss_rpn_cls: 0.0005961  loss_rpn_loc: 0.008029  time: 0.7051  data_time:
0.2406  lr: 0.0066134  max_mem: 2587M
[05/17 00:39:51 d2.utils.events]: eta: 0:02:00  iter: 119  total_loss:
0.5766  loss_cls: 0.1156  loss_box_reg: 0.3764  loss_mask: 0.06836
loss_rpn_cls: 0.000445  loss_rpn_loc: 0.007947  time: 0.7022  data_time:
0.2270  lr: 0.0079454  max_mem: 2587M
[05/17 00:40:05 d2.utils.events]: eta: 0:01:48  iter: 139  total_loss:
0.5691  loss_cls: 0.1409  loss_box_reg: 0.3651  loss_mask: 0.06474
loss_rpn_cls: 0.0005301  loss_rpn_loc: 0.008519  time: 0.7032  data_time:
0.2502  lr: 0.0092774  max_mem: 2587M
[05/17 00:40:18 d2.utils.events]: eta: 0:01:34  iter: 159  total_loss:
0.549  loss_cls: 0.1051  loss_box_reg: 0.3604  loss_mask: 0.06753
loss_rpn_cls: 0.0008518  loss_rpn_loc: 0.01186  time: 0.6986  data_time:
0.1998  lr: 0.010609  max_mem: 2587M
[05/17 00:40:33 d2.utils.events]: eta: 0:01:21  iter: 179  total_loss:
0.5192  loss_cls: 0.1146  loss_box_reg: 0.3451  loss_mask: 0.06247
```

```
loss_rpn_cls: 0.001037  loss_rpn_loc: 0.01044  time: 0.7004  data_time:
0.2526  lr: 0.011941  max_mem: 2587M
[05/17 00:40:47 d2.utils.events]: eta: 0:01:07  iter: 199  total_loss:
0.5243  loss_cls: 0.09224  loss_box_reg: 0.3491  loss_mask: 0.06593
loss_rpn_cls: 0.0006944  loss_rpn_loc: 0.01103  time: 0.6990  data_time:
0.2253  lr: 0.013273  max_mem: 2587M
[05/17 00:41:01 d2.utils.events]: eta: 0:00:54  iter: 219  total_loss:
0.5279  loss_cls: 0.0868  loss_box_reg: 0.3508  loss_mask: 0.06089
loss_rpn_cls: 0.001711  loss_rpn_loc: 0.009191  time: 0.7003  data_time:
0.2606  lr: 0.014605  max_mem: 2587M
[05/17 00:41:15 d2.utils.events]: eta: 0:00:40  iter: 239  total_loss:
0.56  loss_cls: 0.1109  loss_box_reg: 0.3465  loss_mask: 0.06525
loss_rpn_cls: 0.001487  loss_rpn_loc: 0.009163  time: 0.6994  data_time:
0.2397  lr: 0.015937  max_mem: 2587M
[05/17 00:41:28 d2.utils.events]: eta: 0:00:27  iter: 259  total_loss:
0.549  loss_cls: 0.1109  loss_box_reg: 0.3507  loss_mask: 0.06396
loss_rpn_cls: 0.001927  loss_rpn_loc: 0.008736  time: 0.6976  data_time:
0.2365  lr: 0.017269  max_mem: 2587M
[05/17 00:41:42 d2.utils.events]: eta: 0:00:13  iter: 279  total_loss:
0.5458  loss_cls: 0.1021  loss_box_reg: 0.3662  loss_mask: 0.06241
loss_rpn_cls: 0.001812  loss_rpn_loc: 0.01019  time: 0.6980  data_time:
0.2577  lr: 0.018601  max_mem: 2587M
[05/17 00:41:57 d2.utils.events]: eta: 0:00:00  iter: 299  total_loss:
0.5539  loss_cls: 0.1158  loss_box_reg: 0.3632  loss_mask: 0.05884
loss_rpn_cls: 0.001743  loss_rpn_loc: 0.01147  time: 0.6980  data_time:
0.2176  lr: 0.019933  max_mem: 2587M

[05/17 00:45:57 d2.evaluation.fast_eval_api]: COCOeval_opt.accumulate()
finished in 0.03 seconds.
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.643
 Average Precision  (AP) @[ IoU=0.50      | area=   all | maxDets=100 ] =
1.000
 Average Precision  (AP) @[ IoU=0.75      | area=   all | maxDets=100 ] =
0.825
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.643
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=  1 ] =
0.665
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets= 10 ] =
0.665
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.665
```

```
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.665
[05/17 00:45:57 d2.evaluation.coco_evaluation]: Evaluation results for
bbox:
|   AP   |  AP50   |  AP75  |  APs  |  APm  |  APl   |
|:------:|:-------:|:------:|:-----:|:-----:|:------:|
| 64.312 | 100.000 | 82.525 |  nan  |  nan  | 64.312 |
[05/17 00:45:57 d2.evaluation.coco_evaluation]: Some metrics cannot be
computed and is shown as NaN.
[05/17 00:45:57 d2.evaluation.coco_evaluation]: Per-category bbox AP:
| category   | AP     | category   | AP     | category   | AP     |
|:-----------|:-------|:-----------|:-------|:-----------|:-------|
| febreeze   | 70.099 | headphones | 75.050 | iron       | 70.099 |
| pan        | 42.525 | peanut     | 37.574 | sandal     | 70.099 |
| soup       | 70.000 | soy        | 72.525 | spoon      | 65.050 |
| toothpaste | 70.099 |            |        |            |        |
Loading and preparing results...
DONE (t=0.00s)
creating index...
index created!
[05/17 00:45:57 d2.evaluation.fast_eval_api]: Evaluate annotation type
*segm*
[05/17 00:45:57 d2.evaluation.fast_eval_api]: COCOeval_opt.evaluate()
finished in 0.02 seconds.
[05/17 00:45:57 d2.evaluation.fast_eval_api]: Accumulating evaluation
results...
[05/17 00:45:57 d2.evaluation.fast_eval_api]: COCOeval_opt.accumulate()
finished in 0.02 seconds.
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.813
 Average Precision  (AP) @[ IoU=0.50      | area=   all | maxDets=100 ] =
1.000
 Average Precision  (AP) @[ IoU=0.75      | area=   all | maxDets=100 ] =
0.925
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.813
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=  1 ] =
0.825
```

```
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets= 10 ] =
0.825
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.825
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.825
[05/17 00:45:57 d2.evaluation.coco_evaluation]: Evaluation results for
segm:
|   AP   |  AP50   |  AP75  |  APs  |  APm  |  APl   |
|:------:|:-------:|:------:|:-----:|:-----:|:------:|
| 81.282 | 100.000 | 92.525 |  nan  |  nan  | 81.282 |
[05/17 00:45:57 d2.evaluation.coco_evaluation]: Some metrics cannot be
computed and is shown as NaN.
[05/17 00:45:57 d2.evaluation.coco_evaluation]: Per-category segm AP:
| category   | AP     | category   | AP     | category   | AP     |
|:-----------|:-------|:-----------|:-------|:-----------|:-------|
| febreeze   | 95.050 | headphones | 80.000 | iron       | 90.000 |
| pan        | 90.000 | peanut     | 55.050 | sandal     | 90.099 |
| soup       | 82.525 | soy        | 82.525 | spoon      | 82.525 |
| toothpaste | 65.050 |            |        |            |        |
OrderedDict([('bbox',
              {'AP': 64.31188118811882,
               'AP-febreeze': 70.0990099009901,
               'AP-headphones': 75.04950495049505,
               'AP-iron': 70.0990099009901,
               'AP-pan': 42.524752475247524,
               'AP-peanut': 37.57425742574257,
               'AP-sandal': 70.0990099009901,
               'AP-soup': 70.0,
               'AP-soy': 72.52475247524752,
               'AP-spoon': 65.04950495049505,
               'AP-toothpaste': 70.0990099009901,
               'AP50': 100.0,
               'AP75': 82.52475247524752,
               'APl': 64.31188118811882,
               'APm': nan,
               'APs': nan}),
             ('segm',
              {'AP': 81.28217821782178,
               'AP-febreeze': 95.04950495049505,
               'AP-headphones': 80.0,
               'AP-iron': 90.0,
               'AP-pan': 90.0,
```

```
'AP-peanut': 55.049504950495056,
'AP-sandal': 90.0990099009901,
'AP-soup': 82.52475247524752,
'AP-soy': 82.52475247524752,
'AP-spoon': 82.52475247524752,
'AP-toothpaste': 65.04950495049505,
'AP50': 100.0,
'AP75': 92.52475247524752,
'APl': 81.28217821782178,
'APm': nan,
'APs': nan})])
```

3. uncluttered_data 1000 epoch:

```
[05/17 00:24:00 d2.utils.events]: eta: 0:12:13  iter: 19  total_loss:
3.318  loss_cls: 1.659  loss_box_reg: 0.9568  loss_mask: 0.6801
loss_rpn_cls: 0.004439  loss_rpn_loc: 0.01061  time: 0.7334  data_time:
0.3190  lr: 0.00039962  max_mem: 2587M
[05/17 00:24:14 d2.utils.events]: eta: 0:11:38  iter: 39  total_loss:
2.255  loss_cls: 0.7482  loss_box_reg: 0.9375  loss_mask: 0.5132
loss_rpn_cls: 0.001498  loss_rpn_loc: 0.008289  time: 0.7097  data_time:
0.2173  lr: 0.00079922  max_mem: 2587M
[05/17 00:24:28 d2.utils.events]: eta: 0:10:47  iter: 59  total_loss:
1.711  loss_cls: 0.6014  loss_box_reg: 0.8501  loss_mask: 0.2318
loss_rpn_cls: 0.0007166  loss_rpn_loc: 0.008982  time: 0.7081  data_time:
0.2404  lr: 0.0011988  max_mem: 2587M
[05/17 00:24:43 d2.utils.events]: eta: 0:10:36  iter: 79  total_loss:
1.019  loss_cls: 0.3463  loss_box_reg: 0.5234  loss_mask: 0.1104
loss_rpn_cls: 1.854e-05  loss_rpn_loc: 0.01261  time: 0.7081  data_time:
0.2546  lr: 0.0015984  max_mem: 2587M
[05/17 00:24:57 d2.utils.events]: eta: 0:10:31  iter: 99  total_loss:
0.7596  loss_cls: 0.2147  loss_box_reg: 0.4187  loss_mask: 0.0834
loss_rpn_cls: 1.092e-05  loss_rpn_loc: 0.01003  time: 0.7072  data_time:
0.2517  lr: 0.001998  max_mem: 2587M
[05/17 00:25:10 d2.utils.events]: eta: 0:10:01  iter: 119  total_loss:
0.5664  loss_cls: 0.1267  loss_box_reg: 0.3124  loss_mask: 0.07968
loss_rpn_cls: 7.316e-05  loss_rpn_loc: 0.007791  time: 0.7033  data_time:
0.2269  lr: 0.0023976  max_mem: 2587M
[05/17 00:25:25 d2.utils.events]: eta: 0:09:58  iter: 139  total_loss:
0.4612  loss_cls: 0.08641  loss_box_reg: 0.2912  loss_mask: 0.07224
loss_rpn_cls: 8.929e-05  loss_rpn_loc: 0.008578  time: 0.7071  data_time:
0.2768  lr: 0.0027972  max_mem: 2587M
[05/17 00:25:39 d2.utils.events]: eta: 0:09:48  iter: 159  total_loss:
0.4324  loss_cls: 0.07785  loss_box_reg: 0.2772  loss_mask: 0.07207
loss_rpn_cls: 0.0001034  loss_rpn_loc: 0.009954  time: 0.7083  data_time:
0.2460  lr: 0.0031968  max_mem: 2587M
```

```
[05/17 00:25:53 d2.utils.events]: eta: 0:09:30  iter: 179  total_loss:
0.4289  loss_cls: 0.08477  loss_box_reg: 0.284  loss_mask: 0.06486
loss_rpn_cls: 7.89e-05  loss_rpn_loc: 0.007511  time: 0.7079  data_time:
0.2497  lr: 0.0035964  max_mem: 2587M
[05/17 00:26:08 d2.utils.events]: eta: 0:09:25  iter: 199  total_loss:
0.4073  loss_cls: 0.06358  loss_box_reg: 0.259  loss_mask: 0.06556
loss_rpn_cls: 0.0001204  loss_rpn_loc: 0.007148  time: 0.7091  data_time:
0.2507  lr: 0.003996  max_mem: 2587M
[05/17 00:26:21 d2.utils.events]: eta: 0:09:06  iter: 219  total_loss:
0.4101  loss_cls: 0.0754  loss_box_reg: 0.2691  loss_mask: 0.06139
loss_rpn_cls: 0.0001283  loss_rpn_loc: 0.006373  time: 0.7058  data_time:
0.2137  lr: 0.0043956  max_mem: 2587M
[05/17 00:26:36 d2.utils.events]: eta: 0:08:48  iter: 239  total_loss:
0.4313  loss_cls: 0.06574  loss_box_reg: 0.2804  loss_mask: 0.06145
loss_rpn_cls: 0.0002976  loss_rpn_loc: 0.007728  time: 0.7083  data_time:
0.2597  lr: 0.0047952  max_mem: 2587M
[05/17 00:26:51 d2.utils.events]: eta: 0:08:34  iter: 259  total_loss:
0.4202  loss_cls: 0.08409  loss_box_reg: 0.2671  loss_mask: 0.06001
loss_rpn_cls: 0.0003838  loss_rpn_loc: 0.00928  time: 0.7092  data_time:
0.2593  lr: 0.0051948  max_mem: 2587M
[05/17 00:27:04 d2.utils.events]: eta: 0:08:21  iter: 279  total_loss:
0.4432  loss_cls: 0.0739  loss_box_reg: 0.2885  loss_mask: 0.06221
loss_rpn_cls: 0.0003644  loss_rpn_loc: 0.008662  time: 0.7076  data_time:
0.2126  lr: 0.0055944  max_mem: 2587M
[05/17 00:27:19 d2.utils.events]: eta: 0:08:10  iter: 299  total_loss:
0.407  loss_cls: 0.08109  loss_box_reg: 0.2689  loss_mask: 0.05955
loss_rpn_cls: 0.0003442  loss_rpn_loc: 0.00732  time: 0.7104  data_time:
0.2724  lr: 0.005994  max_mem: 2587M
[05/17 00:27:33 d2.utils.events]: eta: 0:07:53  iter: 319  total_loss: 0.4
loss_cls: 0.07069  loss_box_reg: 0.2642  loss_mask: 0.05825  loss_rpn_cls:
0.0004405  loss_rpn_loc: 0.007759  time: 0.7102  data_time: 0.2388  lr:
0.0063936  max_mem: 2587M
[05/17 00:27:48 d2.utils.events]: eta: 0:07:39  iter: 339  total_loss:
0.394  loss_cls: 0.07282  loss_box_reg: 0.245  loss_mask: 0.05921
loss_rpn_cls: 0.0005706  loss_rpn_loc: 0.008699  time: 0.7115  data_time:
0.2575  lr: 0.0067932  max_mem: 2587M
[05/17 00:28:02 d2.utils.events]: eta: 0:07:25  iter: 359  total_loss:
0.4091  loss_cls: 0.07482  loss_box_reg: 0.2597  loss_mask: 0.05884
loss_rpn_cls: 0.0004268  loss_rpn_loc: 0.008254  time: 0.7116  data_time:
0.2453  lr: 0.0071928  max_mem: 2587M
[05/17 00:28:17 d2.utils.events]: eta: 0:07:11  iter: 379  total_loss:
0.4249  loss_cls: 0.08079  loss_box_reg: 0.2696  loss_mask: 0.06089
loss_rpn_cls: 0.0007443  loss_rpn_loc: 0.008516  time: 0.7117  data_time:
0.2597  lr: 0.0075924  max_mem: 2587M
[05/17 00:28:31 d2.utils.events]: eta: 0:06:58  iter: 399  total_loss:
0.3986  loss_cls: 0.07141  loss_box_reg: 0.2635  loss_mask: 0.05775
```

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loss_rpn_cls: 0.0006484  loss_rpn_loc: 0.006133  time: 0.7125  data_time:
0.2706  lr: 0.007992  max_mem: 2587M
[05/17 00:28:45 d2.utils.events]: eta: 0:06:44  iter: 419  total_loss:
0.4006  loss_cls: 0.07779  loss_box_reg: 0.2748  loss_mask: 0.05309
loss_rpn_cls: 0.0005463  loss_rpn_loc: 0.007727  time: 0.7115  data_time:
0.2323  lr: 0.0083916  max_mem: 2587M
[05/17 00:28:59 d2.utils.events]: eta: 0:06:30  iter: 439  total_loss:
0.3804  loss_cls: 0.06731  loss_box_reg: 0.2472  loss_mask: 0.05464
loss_rpn_cls: 0.0006247  loss_rpn_loc: 0.008346  time: 0.7107  data_time:
0.2390  lr: 0.0087912  max_mem: 2587M
[05/17 00:29:13 d2.utils.events]: eta: 0:06:16  iter: 459  total_loss:
0.3774  loss_cls: 0.06682  loss_box_reg: 0.2398  loss_mask: 0.05712
loss_rpn_cls: 0.0006539  loss_rpn_loc: 0.006523  time: 0.7102  data_time:
0.2414  lr: 0.0091908  max_mem: 2587M
[05/17 00:29:27 d2.utils.events]: eta: 0:06:02  iter: 479  total_loss:
0.4034  loss_cls: 0.07425  loss_box_reg: 0.2577  loss_mask: 0.05465
loss_rpn_cls: 0.0006964  loss_rpn_loc: 0.008449  time: 0.7102  data_time:
0.2560  lr: 0.0095904  max_mem: 2587M
[05/17 00:29:41 d2.utils.events]: eta: 0:05:48  iter: 499  total_loss:
0.3881  loss_cls: 0.07112  loss_box_reg: 0.2562  loss_mask: 0.05495
loss_rpn_cls: 0.0007901  loss_rpn_loc: 0.008548  time: 0.7096  data_time:
0.2261  lr: 0.00999  max_mem: 2587M
[05/17 00:29:56 d2.utils.events]: eta: 0:05:34  iter: 519  total_loss:
0.3797  loss_cls: 0.07705  loss_box_reg: 0.2405  loss_mask: 0.05739
loss_rpn_cls: 0.0007727  loss_rpn_loc: 0.008678  time: 0.7101  data_time:
0.2677  lr: 0.01039  max_mem: 2587M
[05/17 00:30:10 d2.utils.events]: eta: 0:05:20  iter: 539  total_loss:
0.374  loss_cls: 0.06714  loss_box_reg: 0.238  loss_mask: 0.05531
loss_rpn_cls: 0.0008344  loss_rpn_loc: 0.007865  time: 0.7096  data_time:
0.2566  lr: 0.010789  max_mem: 2587M
[05/17 00:30:23 d2.utils.events]: eta: 0:05:06  iter: 559  total_loss:
0.4166  loss_cls: 0.06355  loss_box_reg: 0.2824  loss_mask: 0.05608
loss_rpn_cls: 0.0008569  loss_rpn_loc: 0.008593  time: 0.7089  data_time:
0.2298  lr: 0.011189  max_mem: 2587M
[05/17 00:30:37 d2.utils.events]: eta: 0:04:52  iter: 579  total_loss:
0.3929  loss_cls: 0.06741  loss_box_reg: 0.2652  loss_mask: 0.05354
loss_rpn_cls: 0.0009271  loss_rpn_loc: 0.00734  time: 0.7074  data_time:
0.2134  lr: 0.011588  max_mem: 2587M
[05/17 00:30:51 d2.utils.events]: eta: 0:04:38  iter: 599  total_loss:
0.4389  loss_cls: 0.08176  loss_box_reg: 0.292  loss_mask: 0.05844
loss_rpn_cls: 0.000612  loss_rpn_loc: 0.007784  time: 0.7078  data_time:
0.2661  lr: 0.011988  max_mem: 2587M
[05/17 00:31:06 d2.utils.events]: eta: 0:04:22  iter: 619  total_loss:
0.4286  loss_cls: 0.06852  loss_box_reg: 0.2984  loss_mask: 0.05376
loss_rpn_cls: 0.001093  loss_rpn_loc: 0.007562  time: 0.7081  data_time:
0.2609  lr: 0.012388  max_mem: 2587M
```

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[05/17 00:31:20 d2.utils.events]: eta: 0:04:09  iter: 639  total_loss:
0.417  loss_cls: 0.09478  loss_box_reg: 0.2546  loss_mask: 0.05481
loss_rpn_cls: 0.001289  loss_rpn_loc: 0.008911  time: 0.7081  data_time:
0.2557  lr: 0.012787  max_mem: 2587M
[05/17 00:31:34 d2.utils.events]: eta: 0:03:54  iter: 659  total_loss:
0.4028  loss_cls: 0.06755  loss_box_reg: 0.2462  loss_mask: 0.051
loss_rpn_cls: 0.0009419  loss_rpn_loc: 0.007493  time: 0.7079  data_time:
0.2517  lr: 0.013187  max_mem: 2587M
[05/17 00:31:48 d2.utils.events]: eta: 0:03:40  iter: 679  total_loss:
0.4299  loss_cls: 0.09045  loss_box_reg: 0.2734  loss_mask: 0.05661
loss_rpn_cls: 0.001354  loss_rpn_loc: 0.007941  time: 0.7076  data_time:
0.2378  lr: 0.013586  max_mem: 2587M
[05/17 00:32:02 d2.utils.events]: eta: 0:03:26  iter: 699  total_loss:
0.4049  loss_cls: 0.08131  loss_box_reg: 0.2608  loss_mask: 0.05303
loss_rpn_cls: 0.001256  loss_rpn_loc: 0.008128  time: 0.7083  data_time:
0.2617  lr: 0.013986  max_mem: 2587M
[05/17 00:32:16 d2.utils.events]: eta: 0:03:12  iter: 719  total_loss:
0.3994  loss_cls: 0.08055  loss_box_reg: 0.2506  loss_mask: 0.05245
loss_rpn_cls: 0.001141  loss_rpn_loc: 0.00956  time: 0.7079  data_time:
0.2256  lr: 0.014386  max_mem: 2587M
[05/17 00:32:30 d2.utils.events]: eta: 0:02:58  iter: 739  total_loss:
0.4144  loss_cls: 0.0827  loss_box_reg: 0.2715  loss_mask: 0.05493
loss_rpn_cls: 0.001528  loss_rpn_loc: 0.008536  time: 0.7073  data_time:
0.2203  lr: 0.014785  max_mem: 2587M
[05/17 00:32:44 d2.utils.events]: eta: 0:02:45  iter: 759  total_loss:
0.408  loss_cls: 0.08821  loss_box_reg: 0.2562  loss_mask: 0.05424
loss_rpn_cls: 0.001275  loss_rpn_loc: 0.008278  time: 0.7076  data_time:
0.2685  lr: 0.015185  max_mem: 2587M
[05/17 00:32:59 d2.utils.events]: eta: 0:02:31  iter: 779  total_loss:
0.4294  loss_cls: 0.07592  loss_box_reg: 0.2812  loss_mask: 0.05689
loss_rpn_cls: 0.001463  loss_rpn_loc: 0.008585  time: 0.7077  data_time:
0.2551  lr: 0.015584  max_mem: 2587M
[05/17 00:33:13 d2.utils.events]: eta: 0:02:17  iter: 799  total_loss:
0.4231  loss_cls: 0.08488  loss_box_reg: 0.2744  loss_mask: 0.05731
loss_rpn_cls: 0.000983  loss_rpn_loc: 0.008282  time: 0.7080  data_time:
0.2561  lr: 0.015984  max_mem: 2587M
[05/17 00:33:27 d2.utils.events]: eta: 0:02:03  iter: 819  total_loss:
0.4062  loss_cls: 0.07512  loss_box_reg: 0.2589  loss_mask: 0.05562
loss_rpn_cls: 0.001619  loss_rpn_loc: 0.007591  time: 0.7080  data_time:
0.2403  lr: 0.016384  max_mem: 2587M
[05/17 00:33:42 d2.utils.events]: eta: 0:01:49  iter: 839  total_loss:
0.3742  loss_cls: 0.06877  loss_box_reg: 0.2426  loss_mask: 0.05485
loss_rpn_cls: 0.001088  loss_rpn_loc: 0.006682  time: 0.7085  data_time:
0.2768  lr: 0.016783  max_mem: 2587M
[05/17 00:33:56 d2.utils.events]: eta: 0:01:36  iter: 859  total_loss:
0.3866  loss_cls: 0.07033  loss_box_reg: 0.2498  loss_mask: 0.05043
```

```
loss_rpn_cls: 0.001054  loss_rpn_loc: 0.00834  time: 0.7086  data_time:
0.2330  lr: 0.017183  max_mem: 2587M
[05/17 00:34:10 d2.utils.events]: eta: 0:01:22  iter: 879  total_loss:
0.4138  loss_cls: 0.08739  loss_box_reg: 0.2712  loss_mask: 0.05807
loss_rpn_cls: 0.00137  loss_rpn_loc: 0.007505  time: 0.7087  data_time:
0.2375  lr: 0.017582  max_mem: 2587M
[05/17 00:34:24 d2.utils.events]: eta: 0:01:08  iter: 899  total_loss:
0.4054  loss_cls: 0.08762  loss_box_reg: 0.2541  loss_mask: 0.05192
loss_rpn_cls: 0.001234  loss_rpn_loc: 0.00758  time: 0.7083  data_time:
0.2358  lr: 0.017982  max_mem: 2587M
[05/17 00:34:38 d2.utils.events]: eta: 0:00:55  iter: 919  total_loss:
0.4279  loss_cls: 0.08891  loss_box_reg: 0.2821  loss_mask: 0.05127
loss_rpn_cls: 0.001413  loss_rpn_loc: 0.007907  time: 0.7083  data_time:
0.2526  lr: 0.018382  max_mem: 2587M
[05/17 00:34:53 d2.utils.events]: eta: 0:00:41  iter: 939  total_loss:
0.4362  loss_cls: 0.08151  loss_box_reg: 0.2699  loss_mask: 0.05332
loss_rpn_cls: 0.001204  loss_rpn_loc: 0.008764  time: 0.7083  data_time:
0.2502  lr: 0.018781  max_mem: 2587M
[05/17 00:35:07 d2.utils.events]: eta: 0:00:27  iter: 959  total_loss:
0.4044  loss_cls: 0.07077  loss_box_reg: 0.2691  loss_mask: 0.05167
loss_rpn_cls: 0.001287  loss_rpn_loc: 0.00721  time: 0.7089  data_time:
0.2630  lr: 0.019181  max_mem: 2587M
[05/17 00:35:21 d2.utils.events]: eta: 0:00:13  iter: 979  total_loss:
0.4044  loss_cls: 0.08608  loss_box_reg: 0.2682  loss_mask: 0.05014
loss_rpn_cls: 0.001117  loss_rpn_loc: 0.007656  time: 0.7085  data_time:
0.2293  lr: 0.01958  max_mem: 2587M
[05/17 00:35:36 d2.utils.events]: eta: 0:00:00  iter: 999  total_loss:
0.3767  loss_cls: 0.07805  loss_box_reg: 0.2341  loss_mask: 0.05098
loss_rpn_cls: 0.001952  loss_rpn_loc: 0.009761  time: 0.7082  data_time:
0.2407  lr: 0.01998  max_mem: 2587M

[05/17 00:36:25 d2.evaluation.fast_eval_api]: COCOeval_opt.accumulate()
finished in 0.02 seconds.
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.763
 Average Precision  (AP) @[ IoU=0.50      | area=   all | maxDets=100 ] =
1.000
 Average Precision  (AP) @[ IoU=0.75      | area=   all | maxDets=100 ] =
1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.763
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=  1 ] =
0.765
```

```
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets= 10 ] =
0.765
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.765
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.765
[05/17 00:36:25 d2.evaluation.coco_evaluation]: Evaluation results for
bbox:
|   AP   |  AP50   |  AP75   |  APs  |  APm  |  APl   |
|:------:|:-------:|:-------:|:-----:|:-----:|:------:|
| 76.282 | 100.000 | 100.000 |  nan  |  nan  | 76.282 |
[05/17 00:36:25 d2.evaluation.coco_evaluation]: Some metrics cannot be
computed and is shown as NaN.
[05/17 00:36:25 d2.evaluation.coco_evaluation]: Per-category bbox AP:
| category   | AP     | category   | AP     | category   | AP     |
|:-----------|:-------|:-----------|:-------|:-----------|:-------|
| febreeze   | 80.000 | headphones | 80.000 | iron       | 80.099 |
| pan        | 65.050 | peanut     | 70.099 | sandal     | 80.000 |
| soup       | 70.000 | soy        | 82.525 | spoon      | 75.050 |
| toothpaste | 80.000 |            |        |            |        |
Loading and preparing results...
DONE (t=0.00s)
creating index...
index created!
[05/17 00:36:25 d2.evaluation.fast_eval_api]: Evaluate annotation type
*segm*
[05/17 00:36:25 d2.evaluation.fast_eval_api]: COCOeval_opt.evaluate()
finished in 0.01 seconds.
[05/17 00:36:25 d2.evaluation.fast_eval_api]: Accumulating evaluation
results...
[05/17 00:36:25 d2.evaluation.fast_eval_api]: COCOeval_opt.accumulate()
finished in 0.02 seconds.
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.848
 Average Precision  (AP) @[ IoU=0.50      | area=   all | maxDets=100 ] =
1.000
 Average Precision  (AP) @[ IoU=0.75      | area=   all | maxDets=100 ] =
1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Precision  (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
```

```
 Average Precision  (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.848
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=  1 ] =
0.850
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets= 10 ] =
0.850
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=   all | maxDets=100 ] =
0.850
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 ] =
-1.000
 Average Recall     (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100 ] =
0.850
[05/17 00:36:25 d2.evaluation.coco_evaluation]: Evaluation results for
segm:
|   AP   |  AP50   |  AP75   |  APs  |  APm  |  APl   |
|:------:|:-------:|:-------:|:-----:|:-----:|:------:|
| 84.777 | 100.000 | 100.000 |  nan  |  nan  | 84.777 |
[05/17 00:36:25 d2.evaluation.coco_evaluation]: Some metrics cannot be
computed and is shown as NaN.
[05/17 00:36:25 d2.evaluation.coco_evaluation]: Per-category segm AP:
| category   | AP     | category   | AP     | category   | AP     |
|:-----------|:-------|:-----------|:-------|:-----------|:-------|
| febreeze   | 95.050 | headphones | 80.000 | iron       | 85.050 |
| pan        | 80.000 | peanut     | 80.099 | sandal     | 90.000 |
| soup       | 80.000 | soy        | 90.000 | spoon      | 85.050 |
| toothpaste | 82.525 |            |        |            |        |
OrderedDict([('bbox',
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'AP-headphones': 80.0,
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'AP50': 100.0,
'AP75': 100.0,
'APl': 84.77722772277228,
'APm': nan,
'APs': nan})])
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