2023년 07월 19일

학습 방식

```
from ultralytics import YOLO model = YOLO('yolov8n.pt') # load a pretrained YOLOv8n detection mode model.train(data='/content/drive/MyDrive/eco_cup5/yolov8_laug/data.yaml', epochs=200, patience=30, batch=32, imgsz=640)
```

epochs= 200 //학습 반복 횟수

patience = 30 //검증 성능이 30 epochs동안 개선되지 않으면 조기 종료

batch = 32 //배치 크기 32 높을 수록 학습이 빠르지만 많은 메모리 필요

imgsz = 640 //학습용 입력이미지 640

오늘학습한 모델 정보

Stopping training early as no improvement observed in last 30 epochs. Best results observed at epoch 142, best model saved as best.pt.

To update EarlyStopping(patience=30) pass a new patience value, i.e. `patience=300` or use `patience=0` to disable EarlyStopping.

172 epochs completed in 1.147 hours.

Optimizer stripped from runs/detect/train/weights/last.pt, 6.2MB

Optimizer stripped from runs/detect/train/weights/best.pt, 6.2MB

```
Validating runs/detect/train/weights/best.pt.
Ultralytics YOLOv8.0.137 © Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (NYIDIA A100-SXM4-40GB, 40514MIB)
Model summary (fused): 168 layers, 3006428 parameters, 0 gradients

Class Images Instances Box(P R mAP50 mAP50-95): 100%
                                                                                       mAP50 mAP50-95): 100%| 7/7 [00:05<00:00, 1.32it/s]
                                  427
                                           150
                                                  550
                                                            0.909
                                                                                       0.957
                                                                                                    0.889
                                                                         0.964
0.938
              cup(glass)
                                   427
                                                            0.918
                                                                                       0.968
                                                                                                    0.908
                                   427
                                                                                       0.962
              cup(paper)
                                                  112
                                                            0.896
                                                                                                    0.912
                               427 166
427 122
            cup(plastic)
                  tumbler
                                                            0.94
                                                                       0.896
                                                                                       0.947
{\tt Speed: 1.2ms\ preprocess,\ 0.5ms\ inference,\ 0.0ms\ loss,\ 0.6ms\ postprocess\ per\ image}
```

내일은 yolo8s.pt, yolo8n-seg.pt로 학습할 예정

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