

2023년 07월 20일

```
from ultralytics import YOLO
model = YOLO('yolov8s.pt') # load a pretrained YOLOv8n detection model
model.train(data='/content/drive/MyDrive/eco_cup5/yolov8_1aug/data.yaml', epochs=200, patience=30, batch=32, imgsz=640)
```

Stopping training early as no improvement observed in last 30 epochs. Best results observed at epoch 96, 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.

126 epochs completed in 0.887 hours.

Optimizer stripped from runs/detect/train/weights/last.pt, 22.5MB

Optimizer stripped from runs/detect/train/weights/best.pt, 22.5MB

```
Validating runs/detect/train/weights/best.pt...
Ultralytics YOLOv8.0.138 Python-3.10.6 torch-2.0.1+cu118 CUDA:0 (NVIDIA A100-SXM4-40GB, 40514MiB)
Model summary (fused): 168 layers, 11127132 parameters, 0 gradients

```

Class	Images	Instances	Box(P)	R	mAP50	mAP50-95)
all	427	550	0.912	0.947	0.958	0.898
cup(glass)	427	150	0.9	0.963	0.962	0.918
cup(paper)	427	112	0.875	0.955	0.972	0.926
cup(plastic)	427	166	0.905	0.952	0.953	0.874
tumbler	427	122	0.966	0.918	0.944	0.872

```
Speed: 1.3ms preprocess, 0.8ms inference, 0.0ms loss, 0.6ms postprocess per image
Results saved to runs/detect/train
```

```
from ultralytics import YOLO
model = YOLO('yolov8n-seg.pt') # load a pretrained YOLOv8n detection model
model.train(data='/content/drive/MyDrive/eco_cup5/yolov8_1aug/data.yaml', epochs=200, patience=30, batch=32, imgsz=640)
```

Stopping training early as no improvement observed in last 30 epochs. Best results observed at epoch 69, 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.

99 epochs completed in 1.036 hours.

Optimizer stripped from runs/segment/train2/weights/last.pt, 6.8MB

Optimizer stripped from runs/segment/train2/weights/best.pt, 6.8MB

```
Validating runs/segment/train2/weights/best.pt...
Ultralytics YOLOv8.0.138 Python-3.10.6 torch-2.0.1+cu118 CUDA:0 (NVIDIA A100-SXM4-40GB, 40514MiB)
YOLOv8n-seg summary (fused): 195 layers, 3258844 parameters, 0 gradients

```

Class	Images	Instances	Box(P)	R	mAP50	mAP50-95)	Mask(P)	R	mAP50	mAP50-95)
all	427	550	0.92	0.876	0.946	0.868	0.92	0.876	0.946	0.884
cup(glass)	427	150	0.946	0.93	0.972	0.903	0.946	0.93	0.972	0.913
cup(paper)	427	112	0.907	0.866	0.928	0.868	0.907	0.866	0.93	0.883
cup(plastic)	427	166	0.876	0.922	0.946	0.856	0.876	0.922	0.946	0.872
tumbler	427	122	0.95	0.786	0.937	0.846	0.95	0.786	0.937	0.866

```
Speed: 1.0ms preprocess, 0.6ms inference, 0.0ms loss, 0.6ms postprocess per image
```