

## Axis-Aligned Bounding Box (AABB) - txt file

class\_id coordinates (x\_center, y\_center) (width) (height)

0 0.51328125 0.67265625 0.20859375 0.20546875



## Oriented Bounding Box (OBB) - txt file

class\_id coordinates (x\_center, y\_center) (width) (height) (Rotation angle ( $\theta$ ))









# YOLOv8.2

Unleashing Next-Gen AI Capabilities

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YOLOv9 training and deployment



Advanced tracking with YOLOv8-OB



Zero-shot promptable YOLO-Worldv2 models



40% faster ultralytics import speed



YOLOv8.2 with Raspberry Pi 5 CI and tutorials

Download the App



```
1 from ultralytics import YOLO
2
3 def main():
4     # Load a model
5     model = YOLO("yolov8n.yaml") # build a new model from scratch
6     model = YOLO("yolov8n.pt") # load a pretrained model (recommended for training)
7
8     # Use the model
9     model.train(data="momo640.yaml", epochs=100) # train the model
10    metrics = model.val() # evaluate model performance on the validation set
11    results = model("https://attach.setn.com/newsimages/2019/07/09/2010347-XXL.jpg")
12    path = model.export(format="onnx") # export the model to ONNX format
13
14 if __name__ == '__main__':
15     main()
```

```
1 train: ./momo640/train # training dataset
2 val: ./momo640/valid # validation dataset
3 nc: 1
4 names: ['Pothole']
```





- Multi Class
- Inhouse training
- Customized test program