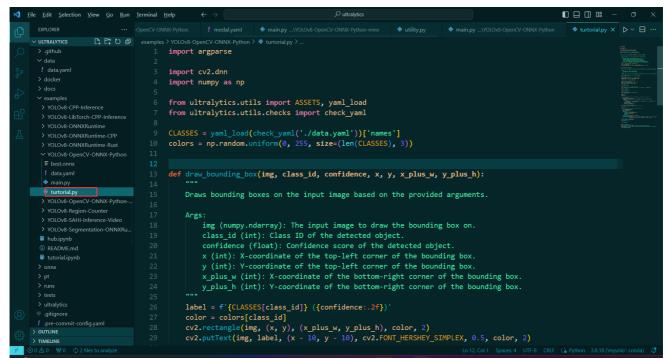
首先,在 ./examples/YOLOv8-OpenCV-ONNX-Python 窗建一个 turtorial.py 文件,将 main.py 的代码复制 到 turtorial.py 中



然后将你训练自己数据集得到的 data.yaml 和 best.onnx 预训练权重复制到该目录下

```
File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                       V ULTRALYTICS
       > .github
                                                  import argparse
                                                   import numpy as np
                                                   from ultralytics.utils import ASSETS, yaml_load
from ultralytics.utils.checks import check_yaml
        > YOLOv8-ONNXRuntime
                                                  CLASSES = yaml_load(check_yaml('./data.yaml'))['names']
colors = np.random.uniform(0, 255, size=(len(CLASSES), 3))
                                                  def draw_bounding_box(img, class_id, confidence, x, y, x_plus_w, y_plus_h):
                                                        Draws bounding boxes on the input image based on the provided arguments.
        > YOLOv8-OpenCV-ONNX-Python
                                                        Args:
                                                              img (numpy.ndarray): The input image to draw the bounding box on.
                                                              class_id (int): Class ID of the detected object.
       hub.ipvnb
                                                              confidence (float): Confidence score of the detected object.
       ③ README.md■ tutorial.ipynb
                                                              x (int): X-coordinate of the top-left corner of the bounding box.
                                                              y (int): Y-coordinate of the top-left corner of the bounding box.
                                                             x_plus_w (int): X-coordinate of the bottom-right corner of the bounding box. y_plus_h (int): Y-coordinate of the bottom-right corner of the bounding box.
                                                       label = f'{CLASSES[class_id]} ({confidence:.2f})'
color = colors[class_id]
cv2.rectangle(img, (x, y), (x_plus_w, y_plus_h), color, 2)
cv2.putText(img, label, (x - 10, y - 10), cv2.FONT_HERSHEY_SIMPLEX, 0.5, color, 2)
        aitianore
```

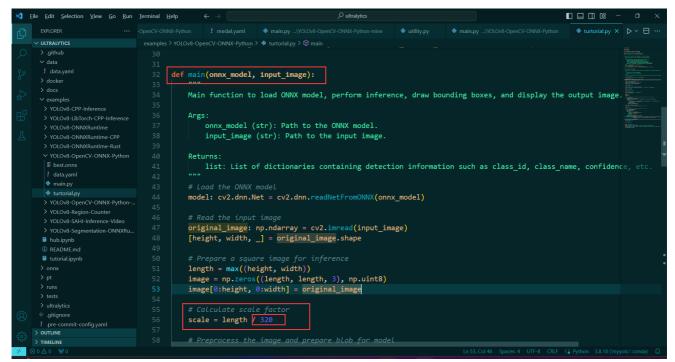
改动以下代码:

• 第一处:

```
import argparse
                                    import cv2.dnn
                                    import numpy as np
                                    from ultralytics.utils import ASSETS, yaml_load
                                    from ultralytics.utils.checks import check_yaml
 > YOLOv8-ONNXRuntime
                                   CLASSES = yaml_load(check_yaml('./data.yaml'))['names']
colors = np.random.uniform(0, 255, size=(len(CLASSES), 3)
                                    def draw_bounding_box(img, class_id, confidence, x, y, x_plus_w, y_plus_h):
 main.pv
                                         Draws bounding boxes on the input image based on the provided arguments.
 > YOLOv8-Region-Counter
                                             img (numpy.ndarray): The input image to draw the bounding box on.
class_id (int): Class ID of the detected object.
                                             confidence (float): Confidence score of the detected object.
                                             x (int): X-coordinate of the top-left corner of the bounding box
tutorial.ipynb
                                             y (int): Y-coordinate of the top-left corner of the bounding box.
                                             x_plus_w (int): X-coordinate of the bottom-right corner of the bounding box.
                                         y_plus_h (int): Y-coordinate of the bottom-right corner of the bounding box.
                                        label = f'{CLASSES[class_id]} ({confidence:.2f})
                                        color = colors[class_id]
                                        cv2.rectangle(img, (x, y), (x_plus_w, y_plus_h), color, 2)
cv2.putText(img, label, (x - 10, y - 10), cv2.FONT_HERSHEY_SIMPLEX, 0.5, color, 2)
```

把 `check\_yaml`内的路径换为当前目录下的 `data.yaml` 文件.

• 第二处



将 main 函数中的 scale 的分母改为训练时的 imgsz.

• 第三处

```
∨ data
                                     original_image: np.ndarray = cv2.imread(input_image)
                                      [height, width, _] = original_image.shape
                                     length = max((height, width))
> YOLOv8-CPP-Inference
                                     image = np.zeros((length, length, 3), np.uint8)
> YOLOv8-ONNXRuntime
                                      image[0:height, 0:width] = original_image
> YOLOv8-ONNXRuntime-Rust
                                     scale = length / 320
                                     blob = cv2.dnn.blobFromImage(image, scalefactor=1 / 255, size=(320, 320),
                                                                                                                     swapRB=True)
                                     model.setInput(blob)
                                     outputs = model.forward()
> YOLOv8-Segmentation-ONNXRu...
lack hub.ipynb
                                     outputs = np.array([cv2.transpose(outputs[0])])
                                     rows = outputs.shape[1]
                                     boxes = []
> tests
```

把第二处下面的 size 改成训练时的 imgsz.

上述三处地方改完后就可以运行代码,在当前文件夹打开 cmd 命令行,或者打开命令行 cmd 然后再转移到当前目录下

## 其中虚拟环境 activate myyolo

## 运行:

python main.py --model ./best.onnx --img 图像路径

即可.