

一、常见问题

1、Downgrade the protobuf package to 3.20.x or lower

```
Run train x
File "C:\Users\cc\conda\envs\volov5\lib\site-packages\tensorboard\plugins\audio\metadata.py", line 21, in <module>
  from tensorboard.compat.proto import summary_pb2
File "C:\Users\cc\conda\envs\volov5\lib\site-packages\tensorboard\compat\proto\summary_pb2.py", line 17, in <module>
  from tensorboard.compat.proto import tensor_pb2 as tensorboard_dot_compat_dot_proto_dot_tensor__pb2
File "C:\Users\cc\conda\envs\volov5\lib\site-packages\tensorboard\compat\proto\tensor_pb2.py", line 16, in <module>
  from tensorboard.compat.proto import resource_handle_pb2 as tensorboard_dot_compat_dot_proto_dot_resource__handle__pb2
File "C:\Users\cc\conda\envs\volov5\lib\site-packages\tensorboard\compat\proto\resource_handle_pb2.py", line 16, in <module>
  from tensorboard.compat.proto import tensor_shape_pb2 as tensorboard_dot_compat_dot_proto_dot_tensor__shape__pb2
File "C:\Users\cc\conda\envs\volov5\lib\site-packages\tensorboard\compat\proto\tensor_shape_pb2.py", line 36, in <module>
  _descriptor.FieldDescriptor(
File "C:\Users\cc\conda\envs\volov5\lib\site-packages\google\protobuf\descriptor.py", line 621, in __new__
  _message.Message._CheckCalledFromGeneratedFile()
TypeError: Descriptors cannot be created directly.
If this call came from a _pb2.py file, your generated code is out of date and must be regenerated with protoc >= 3.19.0.
If you cannot immediately regenerate your protos, some other possible workarounds are:
  1. Downgrade the protobuf package to 3.20.x or lower.
  2. Set PROTOCOL_BUFFERS_PYTHON_IMPLEMENTATION=python (but this will use pure-Python parsing and will be much slower).

More information: https://developers.google.com/protocol-buffers/docs/news/2022-05-06#python-updates

Process finished with exit code 1
```

解决方法：

```
pip install protobuf==3.19.0 -i https://pypi.tuna.tsinghua.edu.cn/simple
```

2、DLL load failed while importing _imaging: 找不到指定模块

```
Run train x
import val # for end-of-epoch mAP
File "D:\code_workspace\python_workspace\volov5-v6.0\val.py", line 26, in <module>
  from models.experimental import attempt_load
File "D:\code_workspace\python_workspace\volov5-v6.0\models\experimental.py", line 10, in <module>
  from models.common import Conv
File "D:\code_workspace\python_workspace\volov5-v6.0\models\common.py", line 17, in <module>
  from PIL import Image
File "E:\Anaconda\envs\volov5_env\lib\site-packages\PIL\image.py", line 100, in <module>
  from . import _imaging as core
ImportError: DLL load failed while importing _imaging: 找不到指定的模块。

Process finished with exit code 1
```

解决方法：

```
pip install pillow==7.1.2 -i https://pypi.tuna.tsinghua.edu.cn/simple
```

3、module 'numpy' has no attribute 'typeDict'

```
Run train x
import scipy.sparse
File "E:\Anaconda\envs\volov5_env\lib\site-packages\scipy\sparse\_init_.py", line 229, in <module>
  from .base import *
File "E:\Anaconda\envs\volov5_env\lib\site-packages\scipy\sparse\base.py", line 8, in <module>
  from .sputils import (isdense, isscalarlike, isintlike,
File "E:\Anaconda\envs\volov5_env\lib\site-packages\scipy\sparse\sputils.py", line 17, in <module>
  supported_dtypes = [np.typeDict[x] for x in supported_dtypes]
File "E:\Anaconda\envs\volov5_env\lib\site-packages\scipy\sparse\sputils.py", line 17, in <listcomp>
  supported_dtypes = [np.typeDict[x] for x in supported_dtypes]
File "E:\Anaconda\envs\volov5_env\lib\site-packages\numpy\_init_.py", line 320, in __getattr__
  raise AttributeError("module {r} has no attribute "
AttributeError: module 'numpy' has no attribute 'typeDict'

Process finished with exit code 1
```

解决方法：

```
pip install numpy==1.23.5 -i https://pypi.tuna.tsinghua.edu.cn/simple
```

4、TypeError: function takes at most 13 arguments (17 given)

TypeError: function takes at most 13 arguments (17 given)

解决方法:

解决办法: 将loss.py中的“gain = torch.ones(7, device=targets.device)”改为“gain = torch.ones(7, device=targets.device).long() ”即可

5、module 'PIL.Image' has no attribute 'ANTIALIAS'

```
File "D:\code_workspace\python_workspace\yolov5\utils\callbacks.py", line 73, in run
    logger["callback"](*args, **kwargs)
File "D:\code_workspace\python_workspace\yolov5\utils\loggers\__init__.py", line 313, in on_train_end
    self.tb.add_image(f.stem, cv2.imread(str(f))[..., ::-1], epoch, dataformats="HWC")
File "E:\Anaconda\envs\yolov5_env\lib\site-packages\torch\utils\tensorboard\writer.py", line 545, in add_image
    image(tag, img_tensor, dataformats=dataformats), global_step, walltime)
File "E:\Anaconda\envs\yolov5_env\lib\site-packages\torch\utils\tensorboard\summary.py", line 381, in image
    image = make_image(tensor, rescale=rescale)
File "E:\Anaconda\envs\yolov5_env\lib\site-packages\torch\utils\tensorboard\summary.py", line 423, in make_image
    image = image.resize((scaled_width, scaled_height), Image.ANTIALIAS)
AttributeError: module 'PIL.Image' has no attribute 'ANTIALIAS'
```

解决方法:

```
results.csv requirements.txt summary.py x
414 def make_image(tensor, rescale=1, rois=None, labels=None):
417     height, width, channel = tensor.shape
418     scaled_height = int(height * rescale)
419     scaled_width = int(width * rescale)
420     image = Image.fromarray(tensor)
421     if rois is not None:
422         image = draw_boxes(image, rois, labels=labels)
423     image = image.resize(size=(scaled_width, scaled_height), Image.LANCZOS)
424     import io
425     output = io.BytesIO()
426     image.save(output, format='PNG')
427     image_string = output.getvalue()
428     output.close()
429     return Summary.Image(height=height,
430                           width=width,
431                           colorspace=channel,
432                           encoded_image_string=image_string)
433
434
```

6、bad git executable

```
Terminal Local x + v
The git executable must be specified in one of the following ways:
- be included in your $PATH
- be set via $GIT_PYTHON_GIT_EXECUTABLE
- explicitly set via git.refresh(<full-path-to-git-executable>)

All git commands will error until this is rectified.

This initial message can be silenced or aggravated in the future by setting the
$GIT_PYTHON_REFRESH environment variable. Use one of the following values:
- quiet|q|silence|s|silent|none|n|0: for no message or exception
- warn|w|warning|log|l|1: for a warning message (logging level CRITICAL, displayed by default)
- error|e|exception|raise|r|2: for a raised exception

Example:
export GIT_PYTHON_REFRESH=quiet
```

解决办法：在 cmd.py（当前虚拟环境下的 Lib\site-packages\git\cmd.py） 中加入以下代码，提示信息上面有这个文件的路径，点进去就行

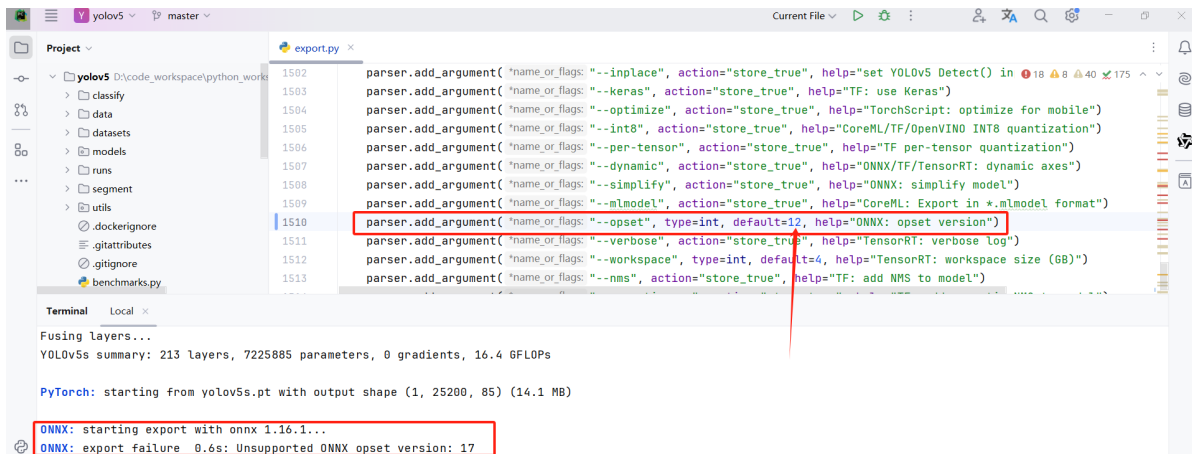
```
os.environ['GIT_PYTHON_REFRESH'] = 'quiet'
```

7、ONNX: export failure 474.0s: DLL load failed while importing onnx_cpp2py_export: (DLL)

解决办法：降低 ONNX 的版本

```
pip install onnx==1.16.1 -i https://pypi.tuna.tsinghua.edu.cn/simple/
```

8、export failure 0.6s: Unsupported ONNX opset version: 17



```
Project yolo5s D:\code_workspace\python_works
  > classify
  > data
  > datasets
  > models
  > runs
  > segment
  > utils
  > .dockerignore
  > .gitattributes
  > .gitignore
  > benchmarks.py

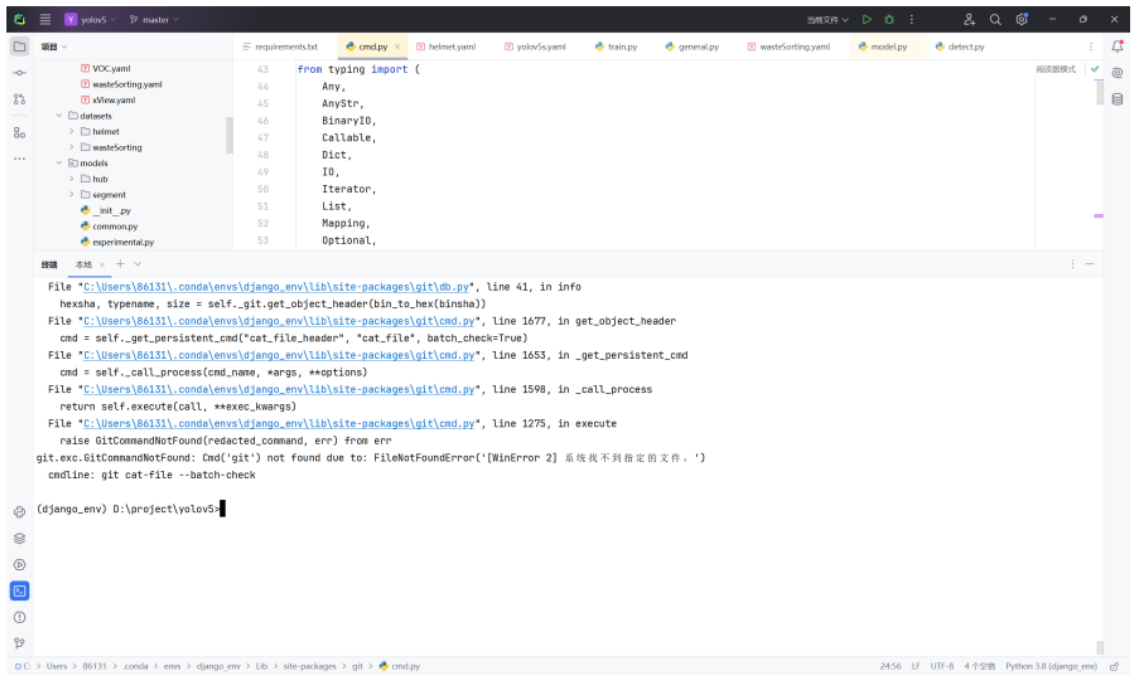
export.py
1502 parser.add_argument('name_or_flags: "--inplace", action="store_true", help="set YOLOv5 Detect() in
1503 parser.add_argument('name_or_flags: "--keras", action="store_true", help="TF: use Keras")
1504 parser.add_argument('name_or_flags: "--optimize", action="store_true", help="TorchScript: optimize for mobile")
1505 parser.add_argument('name_or_flags: "--int8", action="store_true", help="CoreML/TF/OpenVINO INT8 quantization")
1506 parser.add_argument('name_or_flags: "--per-tensor", action="store_true", help="TF per-tensor quantization")
1507 parser.add_argument('name_or_flags: "--dynamic", action="store_true", help="ONNX/TF/TensorRT: dynamic axes")
1508 parser.add_argument('name_or_flags: "--simplify", action="store_true", help="ONNX: simplify model")
1509 parser.add_argument('name_or_flags: "--mlmodel", action="store_true", help="CoreML: Export in *.mlmodel format")
1510 parser.add_argument('name_or_flags: "--opset", type=int, default=12, help="ONNX: opset version")
1511 parser.add_argument('name_or_flags: "--verbose", action="store_true", help="TensorRT: verbose log")
1512 parser.add_argument('name_or_flags: "--workspace", type=int, default=4, help="TensorRT: workspace size (GB)")
1513 parser.add_argument('name_or_flags: "--nms", action="store_true", help="TF: add NMS to model")

Terminal Local x
Fusing layers...
YOLOv5s summary: 213 layers, 7225885 parameters, 0 gradients, 16.4 GFLOPs

PyTorch: starting from yolov5s.pt with output shape (1, 25200, 85) (14.1 MB)

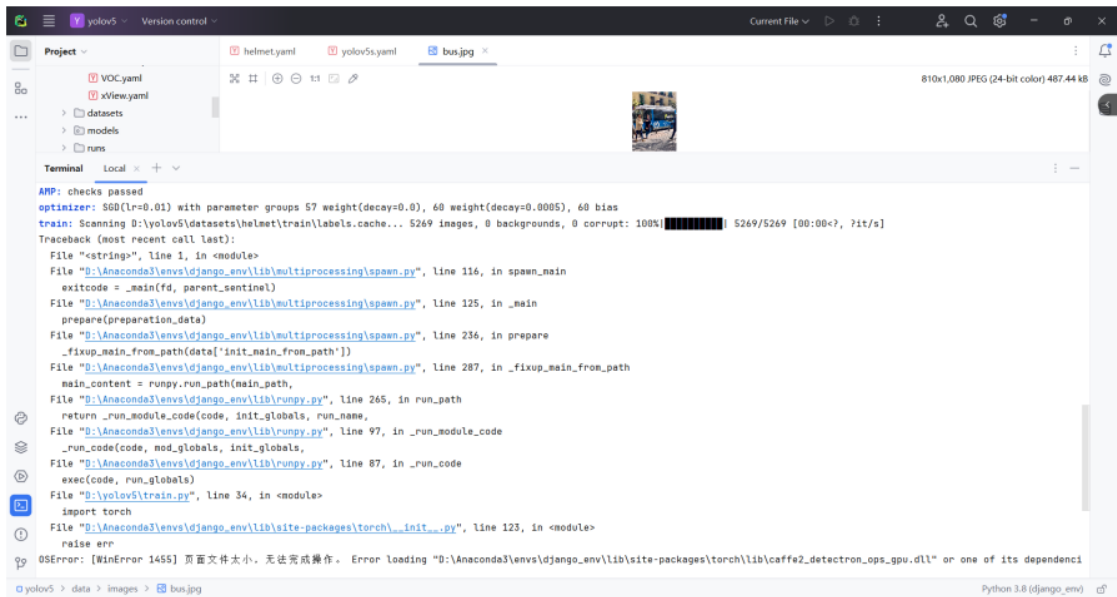
ONNX: starting export with onnx 1.16.1...
ONNX: export failure 0.6s: Unsupported ONNX opset version: 17
```

9、Cmd(git)



解决办法：把 train.py 中的部分源码 100行、489 行注释掉

10、页面文件太小、无法完成操作



解决办法：修改虚拟环境对应的磁盘的虚拟内存大小

11、lableimg 报错解决

- 标注的时候闪退问题一

```
(labels_env) C:\Users\ASUS>labelimg
Traceback (most recent call last):
  File "C:\Users\ASUS\conda\envs\labels_env\Lib\site-packages\libs\canvas.py", line 530, in paintEvent
    p.drawLine(self.prev_point.x(), 0, self.prev_point.x(), self.pixmap.height())
TypeError: arguments did not match any overloaded call:
  drawLine(self, l: QLineF): argument 1 has unexpected type 'float'
  drawLine(self, line: QLine): argument 1 has unexpected type 'float'
  drawLine(self, x1: int, y1: int, x2: int, y2: int): argument 1 has unexpected type 'float'
  drawLine(self, p1: QPoint, p2: QPoint): argument 1 has unexpected type 'float'
  drawLine(self, p1: Union[QPointF, QPoint], p2: Union[QPointF, QPoint]): argument 1 has unexpected type 'float'
```

- 解决办法



- 标注的时候闪退问题二

```

(labels_env) C:\Users\cc>labelimg
Traceback (most recent call last):
  File "E:\Anaconda\envs\labels_env\Lib\site-packages\labelImg\labelImg.py", line 965, in scroll_request
    bar.setValue(bar.value() + bar.singleStep() * units)
TypeError: setValue(self, a0: int): argument 1 has unexpected type 'float'

```

- 解决办法

