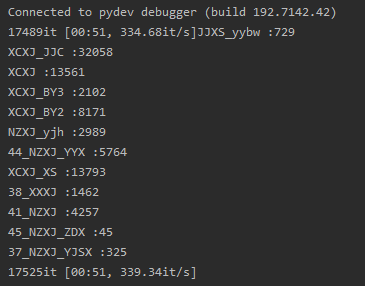


1. Name是大区域类别。

yybw\_wz是什么？

1. 这些名称是大区域的类别吗？

这些名称和xlsx中的对不上。



按照xlsx

38\_XXXJ :1462

41\_NZXJ :4257

45\_NZXJ\_ZDX :45

37\_NZXJ\_YJSX :325

44\_NZXJ\_YYX :5764

XCXJ\_JJC :32058

XCXJ :13561

JJXS\_yybw

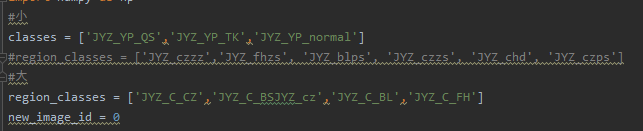
XCXJ\_BY3 :2102

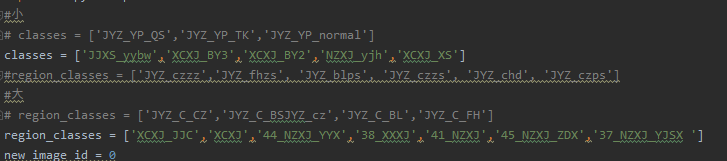
XCXJ\_BY2 :8171

NZXJ\_yjh :2989

XCXJ\_XS :13793

1. 按什么规则把这些名称加入





1. Train.py中cfg的参数

cfg为

Config (path: /home/igi/media/yhy/casecade/bin/configs/rcnn\_region.py): {'optimizer': {'weight\_decay': 0.0001, 'lr': 0.01, 'momentum': 0.9, 'type': 'SGD'}, 'log\_level': 'INFO', 'gpus': 1, 'work\_dir': '/home/igi/media/yhy/casecade/bin/..//model\_output/region', 'root': '/home/igi/media/yhy/casecade/bin/../', 'os': <module 'os' from '/usr/local/python3.5/lib/python3.5/os.py'>, 'optimizer\_config': {'grad\_clip': {'max\_norm': 35, 'norm\_type': 2}}, 'test\_pipeline': [{'type': 'LoadImageFromFile'}, {'type': 'MultiScaleFlipAug', 'transforms': [{'type': 'Resize', 'keep\_ratio': True}, {'type': 'RandomFlip'}, {'type': 'Normalize', 'std': [58.395, 57.12, 57.375], 'mean': [123.675, 116.28, 103.53], 'to\_rgb': True}, {'size\_divisor': 32, 'type': 'Pad'}, {'type': 'ImageToTensor', 'keys': ['img']}, {'type': 'Collect', 'keys': ['img']}], 'img\_scale': (1200, 800), 'flip': False}], 'img\_norm\_cfg': {'std': [58.395, 57.12, 57.375], 'mean': [123.675, 116.28, 103.53], 'to\_rgb': True}, 'data': {'val': {'pipeline': [{'type': 'LoadImageFromFile'}, {'type': 'MultiScaleFlipAug', 'transforms': [{'type': 'Resize', 'keep\_ratio': True}, {'type': 'RandomFlip'}, {'type': 'Normalize', 'std': [58.395, 57.12, 57.375], 'mean': [123.675, 116.28, 103.53], 'to\_rgb': True}, {'size\_divisor': 32, 'type': 'Pad'}, {'type': 'ImageToTensor', 'keys': ['img']}, {'type': 'Collect', 'keys': ['img']}], 'img\_scale': (1200, 800), 'flip': False}], 'type': 'RegionDataset', 'img\_prefix': '/home/igi/media/yhy/casecade/bin/..//train\_data/', 'ann\_file': '/home/igi/media/yhy/casecade/bin/..//train\_data/test.txt'}, 'train': {'pipeline': [{'type': 'LoadImageFromFile'}, {'with\_bbox': True, 'type': 'LoadAnnotations'}, {'type': 'Resize', 'img\_scale': (1200, 800), 'keep\_ratio': True}, {'flip\_ratio': 0.5, 'type': 'RandomFlip'}, {'type': 'Normalize', 'std': [58.395, 57.12, 57.375], 'mean': [123.675, 116.28, 103.53], 'to\_rgb': True}, {'size\_divisor': 32, 'type': 'Pad'}, {'type': 'DefaultFormatBundle'}, {'type': 'Collect', 'keys': ['img', 'gt\_bboxes', 'gt\_labels']}], 'type': 'RegionDataset', 'img\_prefix': '/home/igi/media/yhy/casecade/bin/..//train\_data/', 'ann\_file': '/home/igi/media/yhy/casecade/bin/..//train\_data/train.txt'}, 'test': {'pipeline': [{'type': 'LoadImageFromFile'}, {'type': 'MultiScaleFlipAug', 'transforms': [{'type': 'Resize', 'keep\_ratio': True}, {'type': 'RandomFlip'}, {'type': 'Normalize', 'std': [58.395, 57.12, 57.375], 'mean': [123.675, 116.28, 103.53], 'to\_rgb': True}, {'size\_divisor': 32, 'type': 'Pad'}, {'type': 'ImageToTensor', 'keys': ['img']}, {'type': 'Collect', 'keys': ['img']}], 'img\_scale': (1200, 800), 'flip': False}], 'type': 'RegionDataset', 'test\_mode': True, 'img\_prefix': '/home/igi/media/yhy/casecade/bin/..//train\_data/', 'ann\_file': '/home/igi/media/yhy/casecade/bin/..//train\_data/test.txt'}, 'imgs\_per\_gpu': 3, 'workers\_per\_gpu': 2}, 'log\_config': {'hooks': [{'type': 'TextLoggerHook'}], 'interval': 50}, 'load\_from': None, 'model': {'type': 'CascadeRCNN', 'bbox\_head': [{'num\_fcs': 2, 'in\_channels': 256, 'target\_means': [0.0, 0.0, 0.0, 0.0], 'type': 'SharedFCBBoxHead', 'num\_classes': 8, 'roi\_feat\_size': 7, 'loss\_bbox': {'beta': 1.0, 'type': 'SmoothL1Loss', 'loss\_weight': 1.0}, 'target\_stds': [0.1, 0.1, 0.2, 0.2], 'fc\_out\_channels': 1024, 'reg\_class\_agnostic': True, 'loss\_cls': {'type': 'CrossEntropyLoss', 'use\_sigmoid': False, 'loss\_weight': 1.0}}, {'num\_fcs': 2, 'in\_channels': 256, 'target\_means': [0.0, 0.0, 0.0, 0.0], 'type': 'SharedFCBBoxHead', 'num\_classes': 8, 'roi\_feat\_size': 7, 'loss\_bbox': {'beta': 1.0, 'type': 'SmoothL1Loss', 'loss\_weight': 1.0}, 'target\_stds': [0.05, 0.05, 0.1, 0.1], 'fc\_out\_channels': 1024, 'reg\_class\_agnostic': True, 'loss\_cls': {'type': 'CrossEntropyLoss', 'use\_sigmoid': False, 'loss\_weight': 1.0}}, {'num\_fcs': 2, 'in\_channels': 256, 'target\_means': [0.0, 0.0, 0.0, 0.0], 'type': 'SharedFCBBoxHead', 'num\_classes': 8, 'roi\_feat\_size': 7, 'loss\_bbox': {'beta': 1.0, 'type': 'SmoothL1Loss', 'loss\_weight': 1.0}, 'target\_stds': [0.033, 0.033, 0.067, 0.067], 'fc\_out\_channels': 1024, 'reg\_class\_agnostic': True, 'loss\_cls': {'type': 'CrossEntropyLoss', 'use\_sigmoid': False, 'loss\_weight': 1.0}}], 'neck': {'type': 'FPN', 'in\_channels': [256, 512, 1024, 2048], 'out\_channels': 256, 'num\_outs': 5}, 'num\_stages': 3, 'rpn\_head': {'type': 'RPNHead', 'feat\_channels': 256, 'target\_means': [0.0, 0.0, 0.0, 0.0], 'target\_stds': [1.0, 1.0, 1.0, 1.0], 'anchor\_strides': [4, 8, 16, 32, 64], 'in\_channels': 256, 'anchor\_scales': [8], 'loss\_bbox': {'beta': 0.1111111111111111, 'type': 'SmoothL1Loss', 'loss\_weight': 1.0}, 'anchor\_ratios': [0.5, 1.0, 2.0], 'loss\_cls': {'type': 'CrossEntropyLoss', 'use\_sigmoid': True, 'loss\_weight': 1.0}}, 'bbox\_roi\_extractor': {'type': 'SingleRoIExtractor', 'roi\_layer': {'out\_size': 7, 'type': 'RoIAlign', 'sample\_num': 2}, 'out\_channels': 256, 'featmap\_strides': [4, 8, 16, 32]}, 'pretrained': 'open-mmlab://resnext101\_64x4d', 'backbone': {'type': 'ResNeXt', 'frozen\_stages': 1, 'style': 'pytorch', 'num\_stages': 4, 'out\_indices': (0, 1, 2, 3), 'depth': 101, 'groups': 64, 'base\_width': 4}}, 'workflow': [('train', 1)], 'checkpoint\_config': {'meta': {'config': '# model settings\nimport os\n\ncfg\_root = os.path.abspath(os.path.dirname(\_\_file\_\_))\n#cfg\_root = os.path.abspath(os.path.dirname(\_\_file\_\_))\nsec\_root = os.path.dirname(cfg\_root)\nroot =os.path.join(os.getcwd(),\'../\')# os.path.dirname(sec\_root)\nprint("#################%s,###########################%s#############################%s"%(os.path.abspath(os.path.dirname(\_\_file\_\_)),\n

1. 模型保存

runner.run为模型训练，但是模型在哪里保存呢？

Github上查到save\_checkpoint是保存模型的函数，但是这个函数在哪里调用呢

cfg.checkpoint\_config的值为存储模型的间隔epoch

1. 训练精度

Epoch [1][4350/4389] lr: 0.01000, eta: 2 days, 19:56:38, time: 1.124, data\_time: 0.007, memory: 9358, s0.loss\_bbox: 0.0759, s2.loss\_bbox: 0.0747, loss\_rpn\_bbox: 0.0094, s0.acc:

94.9414, s2.loss\_cls: 0.0357, loss\_rpn\_cls: 0.0175, s1.loss\_bbox: 0.1003, s1.acc: 94.6006, s2.acc: 94.5802, s1.loss\_cls: 0.0708, s0.loss\_cls: 0.1371, loss: 0.5214

Epoch [2][4350/4389] lr: 0.01000, eta: 2 days, 17:48:17, time: 1.117, data\_time: 0.007, memory: 9358, s0.loss\_bbox: 0.0565, s2.loss\_bbox: 0.0614, loss\_rpn\_bbox: 0.0068, s0.acc:

96.3789, s2.loss\_cls: 0.0278, loss\_rpn\_cls: 0.0098, s1.loss\_bbox: 0.0773, s1.acc: 95.9582, s2.acc: 95.7154, s1.loss\_cls: 0.0533, s0.loss\_cls: 0.1028, loss: 0.3956

Epoch [3][2950/4389] lr: 0.01000, eta: 2 days, 16:52:42, time: 1.126, data\_time: 0.008, memory: 9358, s0.loss\_bbox: 0.0555, s2.loss\_bbox: 0.0590, loss\_rpn\_bbox: 0.0089, s0.acc:

96.2598, s2.loss\_cls: 0.0263, loss\_rpn\_cls: 0.0092, s1.loss\_bbox: 0.0742, s1.acc: 96.0698, s2.acc: 95.8190, s1.loss\_cls: 0.0490, s0.loss\_cls: 0.0974, loss: 0.3794

Epoch [18][2300/4389] lr: 0.00010, eta: 1 day, 20:51:44, time: 1.153, data\_time: 0.010, memory: 9358, s0.loss\_bbox: 0.0195, s2.loss\_bbox: 0.0278, loss\_rpn\_bbox: 0.0031, s0.acc: 97.9102, s2.loss

\_cls: 0.0127, loss\_rpn\_cls: 0.0011, s1.loss\_bbox: 0.0293, s1.acc: 97.8086, s2.acc: 97.9176, s1.loss\_cls: 0.0245, s0.loss\_cls: 0.0482, loss: 0.1662

Epoch [20][2950/4389] lr: 0.00010, eta: 1 day, 17:49:44, time: 1.133, data\_time: 0.008, memory: 9358, s0.loss\_bbox: 0.0185, s2.loss\_bbox: 0.0261, loss\_rpn\_bbox: 0.0031, s0.acc: 98.4590, s2.loss

\_cls: 0.0105, loss\_rpn\_cls: 0.0013, s1.loss\_bbox: 0.0283, s1.acc: 98.4429, s2.acc: 98.3659, s1.loss\_cls: 0.0197, s0.loss\_cls: 0.0388, loss: 0.1462