

RetinaFace 在 PC 端的搭建流程

1 · Download our annotations (face bounding boxes & five facial landmarks) from [baidu cloud](#) or [dropbox](#)

将下载的 annotations 按照以下路径安排好: insightface/RetinaFace/
data/retinaface/

```
train/  
  images/  
  label.txt  
val/  
  images/  
  label.txt  
test/  
  images/  
  label.txt
```

2 · Download the [WIDERFACE](#) dataset, 解压放置 datasets 下;

3 · Install MXNet with GPU support. 自行从网上找教程, 很多;

4 · 如果想在网络里使用可变形卷积模块, 请下载 [Deformable-ConvNets](#);

5 · 利用预训练模型测试, python test.py; 下载下面的预训练模型, 放置 model 文件下;

Pretrained Model: RetinaFace-R50 ([baidu cloud](#) or [dropbox](#)) is a medium size model with ResNet50 backbone. It can output face bounding boxes and five facial landmarks in a single forward pass.

6. 利用 train.py 训练模型;

(1) Copy rcnn/sample_config.py to rcnn/config.py

(2) Download ImageNet pretrained models and put them into model/(these models are not for detection testing/inferencing but training and parameters initialization).

ImageNet ResNet50 ([baidu cloud](#) and [dropbox](#)).

ImageNet ResNet152 ([baidu cloud](#) and [dropbox](#)).

(3) Start training with CUDA_VISIBLE_DEVICES='0,1,2,3' python -u train.py --prefix ./model/retina --network resnet.

可以通过调整 rcnn/config.py 文件调节网络训练的参数。测试效果如下:

