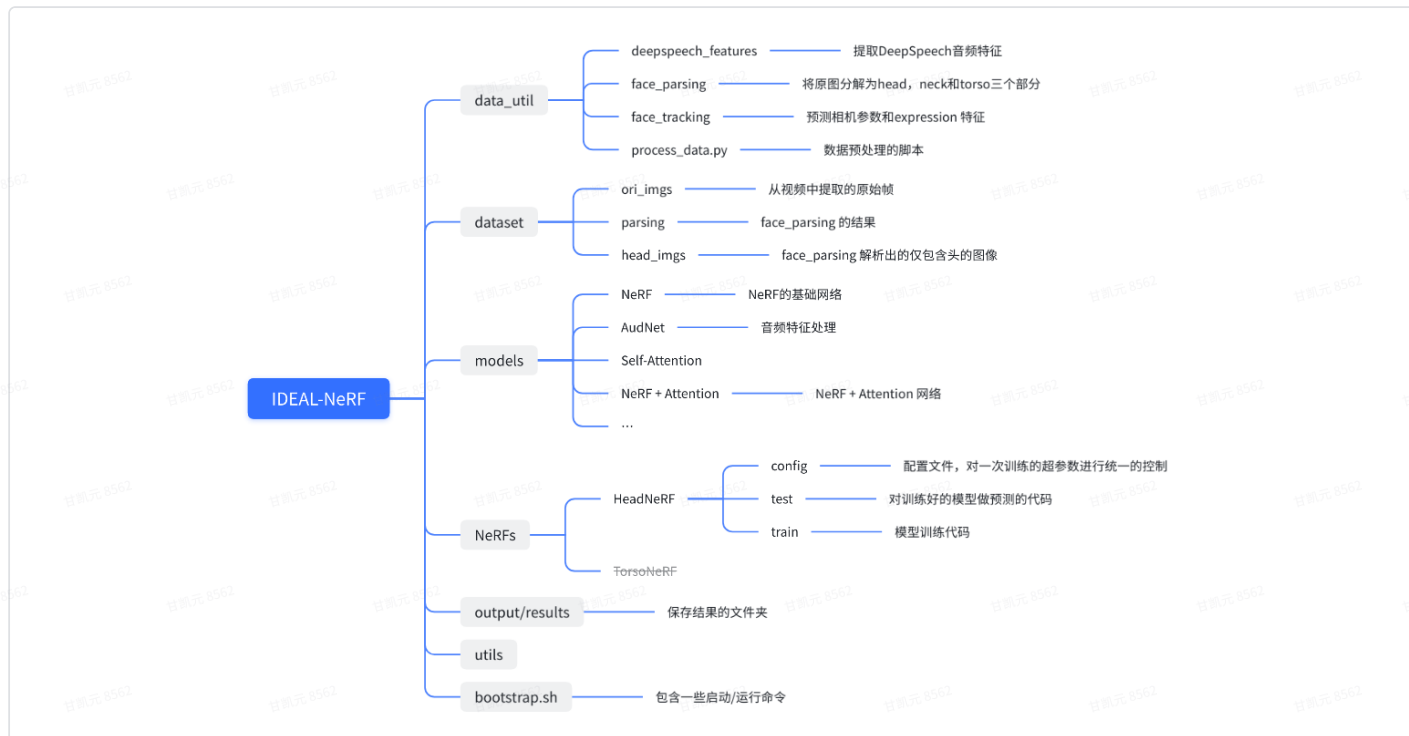


IDEAL-NeRF 目录树结构



Environment

- Create an environment by

```
1 conda env create -f environment.yml
2 conda activate pytorch3d
```

- Face Tracker Set Up

- Download Base Face Model From: <https://faces.dmi.unibas.ch/bfm/main.php?nav=1-1-0&id=details>
- Put "01_MorphableModel.mat" to `data_util/face_tracking/3DMM/`

```
1 cd data_util/face_tracking
2
3 python convert_BFM.py
```

Data Process

Raw Data From: <https://1drv.ms/u/s!ArdWM1-cwOGGjC62-OQwRD9Kuj1b?e=SdlpjF>

```
1 python data_util/process_data.py --id=May
```

Run Command

Config

```
1 # 保存模型参数的位置
2 basedir=dataset/May/logs
3 expname=deepspeech
4 # 数据源
5 datadir=dataset/May
6 gt_dirs=ori_imgs
7 aud_file=aud_may.npy
8 # tensorboard 可视化文件夹
9 vis_path=dataset/May/running/deepspeech
10 # 实验参数
11 N_sample=64
12 N_importance=128
13 num_work=1
14 batch_size=1
15 lrate=3e-4
16 N_iters=60
17 near=0.5772005200386048
18 far=1.1772005200386046
19 testskip=104
20 N_rand=3072
21 lc_weight=0.005
22 mouth_rays=512
23 torso_rays=0
24 dim_expr=79
25 dim_aud=29
```

Train

```
1 CUDA_VISIBLE_DEVICES=7 nohup python -u NeRFs/HeadNeRF/train/audio_exp_nerf.py --config NeRFs/HeadNeRF/configs/audio_expr_nerf/may/ablation/deepspeech_audio > output/deepspeech.out &
```

Eval

The command can also be written in a config file.

```
1 CUDA_VISIBLE_DEVICES=0 nohup python -u NeRFs/HeadNeRF/test/eval_exp_nerf.py --basedir  
=dataset/Obama/logs --datadir=dataset/Obama --expname=blend_highlight_torso --evalExpr_pa
```