

Suctionnet-Baseline: use lab camera

Install

☐ pip install -r requirements.txt

☐ pip install

```
1 torch==1.7.1+cu110
2 torchvision==0.8.2+cu110
3 numpy==1.19.5
4 pillow==8.4.0
5 scikit-learn==0.24.2
6 tqdm==4.64.1
7 matplotlib==3.3.4
8 visdom
9 multiprocessing
10 open3d==0.9.0.0
11 open3d-azure-kinect-ubuntu1604-fix==0.2
12 opencv-contrib-python==4.6.0.66
13 opencv-python==4.6.0.66
14 pyrealsense2==2.50.0.3812
15 pyyaml
```

pip install torch==1.7.1+cu110 torchvision==0.8.2+cu110 -f
https://download.pytorch.org/whl/torch_stable.html

Usage

☐ Run attached shell file

```
1 CUDA_VISIBLE_DEVICES=0 python3 inference_kinect.py --model deeplabv3plus_resnet101 \
2 --checkpoint_path /home/hand-eye/suctionnet-baseline/weight/kinect-deeplabplus-RGBD \
3 --camera kinect \
4 --save_dir /home/hand-eye/suctionnet-baseline/save_directory \
5 --save_visu
6
```

```
1 CUDA_VISIBLE_DEVICES=0 python3 inference_realsense.py --model deeplabv3plus_resnet101 \
2 --checkpoint_path /home/hand-eye/suctionnet-baseline/weight/realsense-deeplabplus-RGBD \
3 --camera realsense \
4 --save_dir /home/hand-eye/suctionnet-baseline/save_directory \
5 --save_visu
6
```

☐ Activation Key



Run the algorithm to get the result



Take a picture



Shut down the program