Read Me

1 Files

There are 6 python files, dataset.py, inference.py, models.py, spectral_normalization.py, vis_tools.py and train.py.

dataset.py contains all dataloader codes to load data from our dataset.

inference.py aims to generate results of our trained network, you can load weights and save results use inference file.

spectral_normalization.py is a pre-design layer for our discriminator, basically what this file did is adding more stable strategy to implement convolution layers.

vis_tools.py contains all functions for visualising results in visdom.

train.py is the main function, which we forward and back propagate GAN network and update weights.

2 How to Run code?

python train.py for training.

python inference.py for generating results.

Our code should run on GPU with no less than 8 GB memory, you can assign which gpu to run the code. Real time result will show in visdom, you can assign ip and port in train.py.

Weights will save in models folder automatically.

For baselines, run train_baseline.py instead. Same steps and similar train.py codes.

Inference.py will generate masks, rgb content, edges of both single objects and whole scene. Results will be save in one folder automatically, you could assign folder name in inference.py.