# How to use the example inpainting code in test mode

By Mike Wang

## **Project GitHub Link:**

https://github.com/mikewang928/generative-inpainting-pytorch

#### **Pre-requisite:**

- Python3
- PyTorch 1.0+
- torchvision 0.2.0+
- tensorboardX
- pyyaml (5.4.1) Important, version 5.6+ will result in additional Loader in the field of load() function. To check your pyyaml version in your terimal *pip show pyyaml*

### Steps:

- ⇒ Step 1: Download the latest trained network model from (<a href="https://drive.google.com/drive/folders/1qbfA5BP9yzdTFFmiOTvYARUYgW1zwBBK">https://drive.google.com/drive/folders/1qbfA5BP9yzdTFFmiOTvYARUYgW1zwBBK</a>) on your local directory as generative-inpainting-pytorch/checkpoints/imagenet/hole\_benchmark
- ⇒ **Step 2:** check if you have a GPU, if you have a GPU (with cuda) skip to Step 3. Else, change the config.yaml file from *generative-inpainting-pytorch/configs/config.yaml* as

```
# data parameters
dataset_name: imagenet
data_with_subfolder: True
train_data_path: /media/ouc/4T_A/datasets/ImageNet/ILSVRC2012_img_train/
val_data_path:
resume:
batch_size: 48
image_shape: [256, 256, 3]
mask_shape: [128, 128]
mask_batch_same: True
max_delta_shape: [32, 32]
margin: [0, 0]
discounted_mask: True
spatial_discounting_gamma: 0.9
random_crop: True
mask_type: hole  # hole | mosaic
mosaic_unit_size: 12

# training parameters
expname: benchmark
# cuda: True
cuda: Fatse
spu_ids: [0, 1, 2] # set the GPU ids to use, e.g. [0] or [1, 2]
num_workers: 4
lr: 0.0001
betal: 0.5
beta2: 0.9
n_critic: 5
niter: 50000
print_iter: 1000
viz_iter: 1000
viz_iter: 1000
viz_iter: 1000
viz_iter: 1000
viz_max_out: 16
snapshot_save_iter: 5000

# loss weight
coarse_ll_alpha: 1.2
l_loss_alpha: 1.2
l_loss_alpha: 1.2
l_loss_alpha: 0.001
wyan_gp_lambda: 10

# network parameters
netG:
input_dim: 3
ngf: 32

netD:
input_dim: 3
ndf: 64
```

Also change the *test\_single.py* as:

This is to make sure that your torch is working in cpu mode.

# **Step 4:** In terminal cd to the *generative-inpainting-pytorch directory* and then run python test\_single.py \

- --image examples/imagenet/imagenet\_patches\_ILSVRC2012\_val\_00008210\_input.png \
- --mask examples/center\_mask\_256.png \
- --output examples/output.png