GAN_Training

May 14, 2021

```python
import torch
import torchvision
import torch.nn as nn
import torch.nn.functional as F
import torch.optim as optim
import torchvision.utils as vutils
import os
import random
import numpy as np
import cv2
import matplotlib.pyplot as plt
import importlib
```

```python
from google.colab import drive
drive.mount('/content/gdrive')
```

Mounted at /content/gdrive

```python
import sys
sys.path.append('/content/gdrive/My Drive/')
```

```python
import model_architectures as ma
```

1 GAN Training

```python
#hyperparameter settings
lr = 0.0002
beta1 = 0.5
batch_size = 256
num_epochs = 20
ngpu = 1
device = torch.device("cuda:0" if (torch.cuda.is_available() and ngpu > 0) else
 →"cpu")


real_label = 1
```

```
fake_label = 0

manualSeed = 500

torch.manual_seed(manualSeed)
random.seed(manualSeed)
np.random.seed(manualSeed)
```

```python
test_loader = torch.utils.data.DataLoader(torchvision.datasets.MNIST('/files/',
 train=False, download=True, transform=torchvision.transforms.ToTensor()),
 batch_size=batch_size)
train_loader = torch.utils.data.DataLoader(torchvision.datasets.MNIST('/files/
 ', train=True, download=True, transform=torchvision.transforms.ToTensor()),
 batch_size = batch_size)
```

```python
criterion = nn.BCELoss()
```

```python
#slightly edited the code at https://pytorch.org/tutorials/beginner/
 dcgan_faces_tutorial.html
def trainGAN(netG, netD, train_loader, num, start_epoch, end_epoch,
 finetune=False):
 netG = netG.to(device)
 netD = netD.to(device)
 optimD = optim.Adam(netD.parameters(), lr=lr, betas=(beta1, 0.9 if finetune
 else 0.999))
 optimG = optim.Adam(netG.parameters(), lr=lr, betas=(beta1, 0.9 if finetune
 else 0.999))
 img_list = []
 if not finetune:
   D_x_list = []
   D_G_z1_list = []
   D_G_z2_list = []
 for epoch in np.arange(start_epoch, end_epoch, 1):
     print(epoch)
     for i, data in enumerate(train_loader, 0):
         ### Update D ###
         ## Train with real images
         netD.zero_grad()
         real_cpu = data[0].to(device)
         b_size = real_cpu.size(0)
         label = torch.full((b_size,), real_label, dtype=torch.float,
 device=device)
         output = netD(real_cpu).view(-1)
         errD_real = criterion(output, label)
         errD_real.backward()
         D_x = output.mean().item()

         ## Train with fake images
```

```python
            noise = torch.randn(b_size, ma.nz, 1, 1, device=device)
            fake = netG(noise)
            label.fill_(fake_label)
            output = netD(fake.detach()).view(-1)
            errD_fake = criterion(output, label)
            errD_fake.backward()
            D_G_z1 = output.mean().item()
            errD = errD_real + errD_fake
            optimD.step()

            ### Update G ###
            netG.zero_grad()
            label.fill_(real_label)
            output = netD(fake).view(-1)
            errG = criterion(output, label)
            errG.backward()
            D_G_z2 = output.mean().item()
            optimG.step()

            # Output training stats
            if i % 50 == 0:
                print('[%d/%d][%d/%d]\tLoss_D: %.4f\tLoss_G: %.4f\tD(x): %.
4f\tD(G(z)): %.4f / %.4f'
                      % (epoch, num_epochs, i, len(train_loader),
                         errD.item(), errG.item(), D_x, D_G_z1, D_G_z2))

            # save losses for plotting
            if not finetune:
              D_x_list.append(D_x)
              D_G_z1_list.append(D_G_z1)
              D_G_z2_list.append(D_G_z2)

  if not finetune:
    torch.save({
            'G_state_dict': netG.state_dict(),
            'D_state_dict': netD.state_dict(),
            'optimG_state_dict': optimG.state_dict(),
            'optimD_state_dict': optimD.state_dict(),
            'D_x_list': D_x_list,
            'D_G_z1_list' : D_G_z1_list,
            'D_G_z2_list' : D_G_z2_list,
            }, 'gdrive/My Drive/Diss/trained_models/GAN_{}'.format(num))
  else:
    torch.save({
            'G_state_dict': netG.state_dict(),
            'D_state_dict': netD.state_dict(),
            'optimG_state_dict': optimG.state_dict(),
```

```
                    'optimD_state_dict': optimD.state_dict(),
                }, 'gdrive/My Drive/Diss/trained_models/GAN_{}_finetuned_epoch_{}'.
    ↪format(num, epoch+1))
```

[ ]: `trainGAN(ma.Generator1(ngpu), ma.Discriminator1(ngpu), train_loader, 1, 1, 20)`

```
0
[0/20][0/235]   Loss_D: 1.3809  Loss_G: 0.6942  D(x): 0.5125    D(G(z)): 0.5094
/ 0.4996
[0/20][50/235]  Loss_D: 0.7326  Loss_G: 0.6963  D(x): 0.9591    D(G(z)): 0.4985
/ 0.4984
[0/20][100/235] Loss_D: 0.6934  Loss_G: 0.7026  D(x): 0.9906    D(G(z)): 0.4954
/ 0.4953
[0/20][150/235] Loss_D: 0.6826  Loss_G: 0.7084  D(x): 0.9956    D(G(z)): 0.4925
/ 0.4924
[0/20][200/235] Loss_D: 2.6008  Loss_G: 0.7005  D(x): 0.9651    D(G(z)): 0.9193
/ 0.5014
1
[1/20][0/235]   Loss_D: 0.7170  Loss_G: 0.7188  D(x): 0.9543    D(G(z)): 0.4878
/ 0.4875
[1/20][50/235]  Loss_D: 0.8566  Loss_G: 0.6456  D(x): 0.9609    D(G(z)): 0.5346
/ 0.5328
[1/20][100/235] Loss_D: 1.1351  Loss_G: 0.5692  D(x): 0.7932    D(G(z)): 0.5833
/ 0.5714
[1/20][150/235] Loss_D: 1.6787  Loss_G: 0.4365  D(x): 0.7054    D(G(z)): 0.7106
/ 0.6538
[1/20][200/235] Loss_D: 1.7186  Loss_G: 0.4607  D(x): 0.6549    D(G(z)): 0.7065
/ 0.6412
2
[2/20][0/235]   Loss_D: 1.1615  Loss_G: 0.5994  D(x): 0.7397    D(G(z)): 0.5603
/ 0.5571
[2/20][50/235]  Loss_D: 1.4045  Loss_G: 0.7127  D(x): 0.5036    D(G(z)): 0.5028
/ 0.4948
[2/20][100/235] Loss_D: 1.3763  Loss_G: 0.6655  D(x): 0.5356    D(G(z)): 0.5241
/ 0.5161
[2/20][150/235] Loss_D: 1.3358  Loss_G: 0.6780  D(x): 0.5456    D(G(z)): 0.5145
/ 0.5093
[2/20][200/235] Loss_D: 1.3314  Loss_G: 0.7510  D(x): 0.5153    D(G(z)): 0.4844
/ 0.4731
3
[3/20][0/235]   Loss_D: 1.3739  Loss_G: 0.5642  D(x): 0.5999    D(G(z)): 0.5746
/ 0.5705
[3/20][50/235]  Loss_D: 1.3619  Loss_G: 0.7402  D(x): 0.5410    D(G(z)): 0.5221
/ 0.4794
[3/20][100/235] Loss_D: 1.3328  Loss_G: 0.7431  D(x): 0.5105    D(G(z)): 0.4813
/ 0.4765
[3/20][150/235] Loss_D: 1.3699  Loss_G: 0.6772  D(x): 0.5284    D(G(z)): 0.5151
/ 0.5100
```

```
[3/20][200/235] Loss_D: 1.4114  Loss_G: 0.6938  D(x): 0.4956   D(G(z)): 0.5045
/ 0.5015
4
[4/20][0/235]   Loss_D: 1.3658  Loss_G: 0.7090  D(x): 0.5157   D(G(z)): 0.5016
/ 0.4941
[4/20][50/235]  Loss_D: 1.3785  Loss_G: 0.6691  D(x): 0.5213   D(G(z)): 0.5128
/ 0.5138
[4/20][100/235] Loss_D: 1.3796  Loss_G: 0.6827  D(x): 0.5185   D(G(z)): 0.5116
/ 0.5069
[4/20][150/235] Loss_D: 1.3772  Loss_G: 0.6899  D(x): 0.5295   D(G(z)): 0.5194
/ 0.5037
[4/20][200/235] Loss_D: 1.4040  Loss_G: 0.7056  D(x): 0.4961   D(G(z)): 0.5014
/ 0.4956
5
[5/20][0/235]   Loss_D: 1.4001  Loss_G: 0.6570  D(x): 0.5269   D(G(z)): 0.5281
/ 0.5205
[5/20][50/235]  Loss_D: 1.3703  Loss_G: 0.6795  D(x): 0.5249   D(G(z)): 0.5127
/ 0.5083
[5/20][100/235] Loss_D: 1.3524  Loss_G: 0.7016  D(x): 0.5257   D(G(z)): 0.5050
/ 0.4975
[5/20][150/235] Loss_D: 1.3921  Loss_G: 0.6961  D(x): 0.5106   D(G(z)): 0.5103
/ 0.5000
[5/20][200/235] Loss_D: 1.3833  Loss_G: 0.7134  D(x): 0.4952   D(G(z)): 0.4909
/ 0.4909
6
[6/20][0/235]   Loss_D: 1.3849  Loss_G: 0.6750  D(x): 0.5162   D(G(z)): 0.5121
/ 0.5104
[6/20][50/235]  Loss_D: 1.3799  Loss_G: 0.6900  D(x): 0.5115   D(G(z)): 0.5059
/ 0.5024
[6/20][100/235] Loss_D: 1.3598  Loss_G: 0.6883  D(x): 0.5183   D(G(z)): 0.5025
/ 0.5033
[6/20][150/235] Loss_D: 1.3641  Loss_G: 0.6848  D(x): 0.5192   D(G(z)): 0.5057
/ 0.5052
[6/20][200/235] Loss_D: 1.3794  Loss_G: 0.6708  D(x): 0.5147   D(G(z)): 0.5087
/ 0.5123
7
[7/20][0/235]   Loss_D: 1.3559  Loss_G: 0.6952  D(x): 0.5222   D(G(z)): 0.5042
/ 0.5002
[7/20][50/235]  Loss_D: 1.3797  Loss_G: 0.7020  D(x): 0.5070   D(G(z)): 0.5010
/ 0.4968
[7/20][100/235] Loss_D: 1.3824  Loss_G: 0.6998  D(x): 0.4962   D(G(z)): 0.4922
/ 0.4978
[7/20][150/235] Loss_D: 1.3703  Loss_G: 0.7070  D(x): 0.5115   D(G(z)): 0.5015
/ 0.4939
[7/20][200/235] Loss_D: 1.3853  Loss_G: 0.6807  D(x): 0.5104   D(G(z)): 0.5078
/ 0.5072
8
[8/20][0/235]   Loss_D: 1.3670  Loss_G: 0.6866  D(x): 0.5191   D(G(z)): 0.5071
```

/ 0.5042

[8/20][50/235] Loss_D: 1.3701 Loss_G: 0.6735 D(x): 0.5210   D(G(z)): 0.5104
/ 0.5109

[8/20][100/235] Loss_D: 1.3555 Loss_G: 0.6819 D(x): 0.5236   D(G(z)): 0.5053
/ 0.5065

[8/20][150/235] Loss_D: 1.3775 Loss_G: 0.7187 D(x): 0.5081   D(G(z)): 0.5015
/ 0.4884

[8/20][200/235] Loss_D: 1.3690 Loss_G: 0.6885 D(x): 0.5121   D(G(z)): 0.5009
/ 0.5034

9

[9/20][0/235]   Loss_D: 1.3716 Loss_G: 0.7144 D(x): 0.5107   D(G(z)): 0.5007
/ 0.4906

[9/20][50/235] Loss_D: 1.3764 Loss_G: 0.7044 D(x): 0.5124   D(G(z)): 0.5045
/ 0.4956

[9/20][100/235] Loss_D: 1.3649 Loss_G: 0.7000 D(x): 0.5095   D(G(z)): 0.4964
/ 0.4976

[9/20][150/235] Loss_D: 1.3749 Loss_G: 0.7273 D(x): 0.4958   D(G(z)): 0.4869
/ 0.4845

[9/20][200/235] Loss_D: 1.3865 Loss_G: 0.7098 D(x): 0.5067   D(G(z)): 0.5037
/ 0.4932

10

[10/20][0/235] Loss_D: 1.3790 Loss_G: 0.6907 D(x): 0.5151   D(G(z)): 0.5084
/ 0.5025

[10/20][50/235] Loss_D: 1.3682 Loss_G: 0.6753 D(x): 0.5307   D(G(z)): 0.5178
/ 0.5103

[10/20][100/235]   Loss_D: 1.3678 Loss_G: 0.6754 D(x): 0.5191   D(G(z)):
0.5061 / 0.5102

[10/20][150/235]   Loss_D: 1.3268 Loss_G: 0.7102 D(x): 0.5198   D(G(z)):
0.4863 / 0.4931

[10/20][200/235]   Loss_D: 1.3967 Loss_G: 0.6657 D(x): 0.5159   D(G(z)):
0.5173 / 0.5155

11

[11/20][0/235] Loss_D: 1.3764 Loss_G: 0.6965 D(x): 0.5175   D(G(z)): 0.5089
/ 0.5002

[11/20][50/235] Loss_D: 1.3841 Loss_G: 0.7187 D(x): 0.4970   D(G(z)): 0.4926
/ 0.4888

[11/20][100/235]   Loss_D: 1.3430 Loss_G: 0.6744 D(x): 0.5257   D(G(z)):
0.5000 / 0.5107

[11/20][150/235]   Loss_D: 1.3560 Loss_G: 0.7248 D(x): 0.5087   D(G(z)):
0.4906 / 0.4859

[11/20][200/235]   Loss_D: 1.3731 Loss_G: 0.6745 D(x): 0.5251   D(G(z)):
0.5142 / 0.5108

12

[12/20][0/235] Loss_D: 1.3685 Loss_G: 0.7210 D(x): 0.5071   D(G(z)): 0.4952
/ 0.4880

[12/20][50/235] Loss_D: 1.3906 Loss_G: 0.7001 D(x): 0.4948   D(G(z)): 0.4940
/ 0.4978

[12/20][100/235]   Loss_D: 1.3684 Loss_G: 0.7204 D(x): 0.5090   D(G(z)):

0.4971 / 0.4880
[12/20][150/235]   Loss_D: 1.3725 Loss_G: 0.7023 D(x): 0.5107   D(G(z)):
0.5003 / 0.4970
[12/20][200/235]   Loss_D: 1.3829 Loss_G: 0.6834 D(x): 0.5093   D(G(z)):
0.5042 / 0.5065
13
[13/20][0/235] Loss_D: 1.3808 Loss_G: 0.6867 D(x): 0.5161   D(G(z)): 0.5101
/ 0.5049
[13/20][50/235] Loss_D: 1.3736 Loss_G: 0.7083 D(x): 0.4994   D(G(z)): 0.4899
/ 0.4938
[13/20][100/235]   Loss_D: 1.3639 Loss_G: 0.7127 D(x): 0.5050   D(G(z)):
0.4901 / 0.4920
[13/20][150/235]   Loss_D: 1.3608 Loss_G: 0.7444 D(x): 0.4986   D(G(z)):
0.4820 / 0.4764
[13/20][200/235]   Loss_D: 1.3752 Loss_G: 0.7158 D(x): 0.5035   D(G(z)):
0.4942 / 0.4902
14
[14/20][0/235] Loss_D: 1.3756 Loss_G: 0.6914 D(x): 0.5129   D(G(z)): 0.5036
/ 0.5025
[14/20][50/235] Loss_D: 1.3767 Loss_G: 0.7290 D(x): 0.4864   D(G(z)): 0.4780
/ 0.4838
[14/20][100/235]   Loss_D: 1.3752 Loss_G: 0.7174 D(x): 0.5191   D(G(z)):
0.5098 / 0.4898
[14/20][150/235]   Loss_D: 1.3505 Loss_G: 0.7451 D(x): 0.4994   D(G(z)):
0.4775 / 0.4762
[14/20][200/235]   Loss_D: 1.3644 Loss_G: 0.7034 D(x): 0.5122   D(G(z)):
0.4970 / 0.4966
15
[15/20][0/235] Loss_D: 1.3597 Loss_G: 0.7134 D(x): 0.5128   D(G(z)): 0.4960
/ 0.4915
[15/20][50/235] Loss_D: 1.3855 Loss_G: 0.7045 D(x): 0.4940   D(G(z)): 0.4901
/ 0.4962
[15/20][100/235]   Loss_D: 1.3700 Loss_G: 0.7681 D(x): 0.4998   D(G(z)):
0.4879 / 0.4657
[15/20][150/235]   Loss_D: 1.3849 Loss_G: 0.7466 D(x): 0.4910   D(G(z)):
0.4863 / 0.4755
[15/20][200/235]   Loss_D: 1.3650 Loss_G: 0.6681 D(x): 0.5255   D(G(z)):
0.5107 / 0.5144
16
[16/20][0/235] Loss_D: 1.3789 Loss_G: 0.7077 D(x): 0.5146   D(G(z)): 0.5068
/ 0.4945
[16/20][50/235] Loss_D: 1.3857 Loss_G: 0.7173 D(x): 0.4888   D(G(z)): 0.4850
/ 0.4896
[16/20][100/235]   Loss_D: 1.3684 Loss_G: 0.6661 D(x): 0.5321   D(G(z)):
0.5184 / 0.5153
[16/20][150/235]   Loss_D: 1.3642 Loss_G: 0.7597 D(x): 0.4984   D(G(z)):
0.4835 / 0.4696
[16/20][200/235]   Loss_D: 1.3650 Loss_G: 0.6927 D(x): 0.5135   D(G(z)):

```
0.4990 / 0.5018
17
[17/20][0/235]   Loss_D: 1.3645  Loss_G: 0.7182  D(x): 0.5101    D(G(z)): 0.4955
/ 0.4892
[17/20][50/235] Loss_D: 1.3657  Loss_G: 0.7475  D(x): 0.5107    D(G(z)): 0.4965
/ 0.4753
[17/20][100/235]         Loss_D: 1.3681  Loss_G: 0.6750  D(x): 0.5323    D(G(z)):
0.5183 / 0.5108
[17/20][150/235]         Loss_D: 1.3658  Loss_G: 0.7619  D(x): 0.4892    D(G(z)):
0.4746 / 0.4688
[17/20][200/235]         Loss_D: 1.3757  Loss_G: 0.6842  D(x): 0.5107    D(G(z)):
0.5016 / 0.5058
18
[18/20][0/235]   Loss_D: 1.3849  Loss_G: 0.6759  D(x): 0.5319    D(G(z)): 0.5258
/ 0.5106
[18/20][50/235] Loss_D: 1.3734  Loss_G: 0.7467  D(x): 0.4898    D(G(z)): 0.4792
/ 0.4760
[18/20][100/235]         Loss_D: 1.3705  Loss_G: 0.6933  D(x): 0.5160    D(G(z)):
0.5040 / 0.5016
[18/20][150/235]         Loss_D: 1.3695  Loss_G: 0.7426  D(x): 0.4935    D(G(z)):
0.4808 / 0.4777
[18/20][200/235]         Loss_D: 1.3763  Loss_G: 0.6645  D(x): 0.5173    D(G(z)):
0.5085 / 0.5163
19
[19/20][0/235]   Loss_D: 1.3759  Loss_G: 0.6818  D(x): 0.5266    D(G(z)): 0.5164
/ 0.5077
[19/20][50/235] Loss_D: 1.3852  Loss_G: 0.7261  D(x): 0.5065    D(G(z)): 0.5018
/ 0.4860
[19/20][100/235]         Loss_D: 1.3693  Loss_G: 0.6876  D(x): 0.5116    D(G(z)):
0.4985 / 0.5048
[19/20][150/235]         Loss_D: 1.3580  Loss_G: 0.7452  D(x): 0.4997    D(G(z)):
0.4817 / 0.4765
[19/20][200/235]         Loss_D: 1.3693  Loss_G: 0.6821  D(x): 0.5234    D(G(z)):
0.5110 / 0.5071
```

```
trainGAN(ma.Generator2(ngpu), ma.Discriminator2(ngpu), train_loader, 2, 1, 20)
```

```
0
[0/20][0/235]    Loss_D: 1.3714  Loss_G: 0.7353  D(x): 0.5030    D(G(z)): 0.4952
/ 0.4795
[0/20][50/235] Loss_D: 0.7037  Loss_G: 0.6937  D(x): 0.9892    D(G(z)): 0.4998
/ 0.4997
[0/20][100/235] Loss_D: 0.6909  Loss_G: 0.6992  D(x): 0.9964    D(G(z)): 0.4970
/ 0.4970
[0/20][150/235] Loss_D: 0.7727  Loss_G: 0.6718  D(x): 0.9967    D(G(z)): 0.5211
/ 0.5147
[0/20][200/235] Loss_D: 1.4039  Loss_G: 0.5619  D(x): 0.5752    D(G(z)): 0.5638
```

/ 0.5751
1
[1/20][0/235]   Loss_D: 1.1573 Loss_G: 0.7035 D(x): 0.6108   D(G(z)): 0.4822
/ 0.4959
[1/20][50/235]   Loss_D: 1.3220 Loss_G: 0.6519 D(x): 0.5781   D(G(z)): 0.5311
/ 0.5248
[1/20][100/235] Loss_D: 1.3750 Loss_G: 0.6589 D(x): 0.5579   D(G(z)): 0.5409
/ 0.5203
[1/20][150/235] Loss_D: 1.3386 Loss_G: 0.6799 D(x): 0.5240   D(G(z)): 0.4909
/ 0.5106
[1/20][200/235] Loss_D: 1.3967 Loss_G: 0.5827 D(x): 0.5433   D(G(z)): 0.5406
/ 0.5593
2
[2/20][0/235]   Loss_D: 1.3515 Loss_G: 0.7430 D(x): 0.5238   D(G(z)): 0.5024
/ 0.4775
[2/20][50/235]   Loss_D: 1.3970 Loss_G: 0.6484 D(x): 0.5502   D(G(z)): 0.5474
/ 0.5241
[2/20][100/235] Loss_D: 1.3978 Loss_G: 0.6710 D(x): 0.4995   D(G(z)): 0.5025
/ 0.5120
[2/20][150/235] Loss_D: 1.3787 Loss_G: 0.6983 D(x): 0.5053   D(G(z)): 0.4996
/ 0.4982
[2/20][200/235] Loss_D: 1.3674 Loss_G: 0.6978 D(x): 0.5082   D(G(z)): 0.4968
/ 0.4984
3
[3/20][0/235]   Loss_D: 1.3927 Loss_G: 0.6671 D(x): 0.5338   D(G(z)): 0.5329
/ 0.5141
[3/20][50/235]   Loss_D: 1.3788 Loss_G: 0.6455 D(x): 0.5292   D(G(z)): 0.5225
/ 0.5250
[3/20][100/235] Loss_D: 1.3795 Loss_G: 0.6794 D(x): 0.5170   D(G(z)): 0.5117
/ 0.5076
[3/20][150/235] Loss_D: 1.3656 Loss_G: 0.6248 D(x): 0.5212   D(G(z)): 0.5079
/ 0.5363
[3/20][200/235] Loss_D: 1.3822 Loss_G: 0.6606 D(x): 0.5100   D(G(z)): 0.5049
/ 0.5175
4
[4/20][0/235]   Loss_D: 1.3461 Loss_G: 0.6921 D(x): 0.5421   D(G(z)): 0.5186
/ 0.5012
[4/20][50/235]   Loss_D: 1.3754 Loss_G: 0.6286 D(x): 0.5697   D(G(z)): 0.5546
/ 0.5340
[4/20][100/235] Loss_D: 1.3487 Loss_G: 0.6896 D(x): 0.5387   D(G(z)): 0.5163
/ 0.5025
[4/20][150/235] Loss_D: 1.3370 Loss_G: 0.6780 D(x): 0.5277   D(G(z)): 0.4997
/ 0.5087
[4/20][200/235] Loss_D: 1.3585 Loss_G: 0.6682 D(x): 0.5537   D(G(z)): 0.5321
/ 0.5139
5
[5/20][0/235]   Loss_D: 1.3503 Loss_G: 0.7332 D(x): 0.5193   D(G(z)): 0.4983
/ 0.4816

```
[5/20][50/235]   Loss_D: 1.3618  Loss_G: 0.7079  D(x): 0.5031   D(G(z)): 0.4875
/ 0.4942
[5/20][100/235] Loss_D: 1.3553  Loss_G: 0.6927  D(x): 0.5350   D(G(z)): 0.5156
/ 0.5014
[5/20][150/235] Loss_D: 1.3545  Loss_G: 0.6668  D(x): 0.5338   D(G(z)): 0.5139
/ 0.5146
[5/20][200/235] Loss_D: 1.3764  Loss_G: 0.6761  D(x): 0.5283   D(G(z)): 0.5188
/ 0.5102
6
[6/20][0/235]   Loss_D: 1.3689  Loss_G: 0.7956  D(x): 0.4632   D(G(z)): 0.4478
/ 0.4527
[6/20][50/235]  Loss_D: 1.3587  Loss_G: 0.7315  D(x): 0.5208   D(G(z)): 0.5036
/ 0.4826
[6/20][100/235] Loss_D: 1.3492  Loss_G: 0.6733  D(x): 0.5514   D(G(z)): 0.5272
/ 0.5112
[6/20][150/235] Loss_D: 1.3526  Loss_G: 0.7142  D(x): 0.5154   D(G(z)): 0.4954
/ 0.4909
[6/20][200/235] Loss_D: 1.3643  Loss_G: 0.7299  D(x): 0.5202   D(G(z)): 0.5051
/ 0.4836
7
[7/20][0/235]   Loss_D: 1.3660  Loss_G: 0.7315  D(x): 0.4609   D(G(z)): 0.4427
/ 0.4829
[7/20][50/235]  Loss_D: 1.3604  Loss_G: 0.6947  D(x): 0.5339   D(G(z)): 0.5160
/ 0.5008
[7/20][100/235] Loss_D: 1.3542  Loss_G: 0.7121  D(x): 0.5323   D(G(z)): 0.5121
/ 0.4924
[7/20][150/235] Loss_D: 1.3328  Loss_G: 0.6610  D(x): 0.5602   D(G(z)): 0.5251
/ 0.5182
[7/20][200/235] Loss_D: 1.3655  Loss_G: 0.6998  D(x): 0.5000   D(G(z)): 0.4849
/ 0.4985
8
[8/20][0/235]   Loss_D: 1.3302  Loss_G: 0.7010  D(x): 0.4934   D(G(z)): 0.4585
/ 0.4983
[8/20][50/235]  Loss_D: 1.3437  Loss_G: 0.6423  D(x): 0.5368   D(G(z)): 0.5092
/ 0.5284
[8/20][100/235] Loss_D: 1.3401  Loss_G: 0.7648  D(x): 0.5466   D(G(z)): 0.5163
/ 0.4677
[8/20][150/235] Loss_D: 1.3470  Loss_G: 0.6879  D(x): 0.5601   D(G(z)): 0.5307
/ 0.5048
[8/20][200/235] Loss_D: 1.3420  Loss_G: 0.7626  D(x): 0.5370   D(G(z)): 0.5071
/ 0.4693
9
[9/20][0/235]   Loss_D: 1.3496  Loss_G: 0.7167  D(x): 0.4909   D(G(z)): 0.4644
/ 0.4917
[9/20][50/235]  Loss_D: 1.3457  Loss_G: 0.7017  D(x): 0.5381   D(G(z)): 0.5104
/ 0.4985
[9/20][100/235] Loss_D: 1.3483  Loss_G: 0.6691  D(x): 0.5293   D(G(z)): 0.5036
/ 0.5146
```

[9/20][150/235] Loss_D: 1.3406 Loss_G: 0.7129 D(x): 0.5464   D(G(z)): 0.5138
/ 0.4936
[9/20][200/235] Loss_D: 1.3477 Loss_G: 0.6914 D(x): 0.5140   D(G(z)): 0.4862
/ 0.5041
10
[10/20][0/235] Loss_D: 1.3205 Loss_G: 0.7770 D(x): 0.5265   D(G(z)): 0.4851
/ 0.4634
[10/20][50/235] Loss_D: 1.3572 Loss_G: 0.7827 D(x): 0.5044   D(G(z)): 0.4814
/ 0.4606
[10/20][100/235]   Loss_D: 1.3287 Loss_G: 0.6960 D(x): 0.5440   D(G(z)):
0.5066 / 0.5020
[10/20][150/235]   Loss_D: 1.3369 Loss_G: 0.7176 D(x): 0.5450   D(G(z)):
0.5104 / 0.4912
[10/20][200/235]   Loss_D: 1.3386 Loss_G: 0.7024 D(x): 0.5092   D(G(z)):
0.4769 / 0.4989
11
[11/20][0/235] Loss_D: 1.3405 Loss_G: 0.7548 D(x): 0.4676   D(G(z)): 0.4307
/ 0.4744
[11/20][50/235] Loss_D: 1.3333 Loss_G: 0.7691 D(x): 0.4994   D(G(z)): 0.4629
/ 0.4683
[11/20][100/235]   Loss_D: 1.3493 Loss_G: 0.7224 D(x): 0.5417   D(G(z)):
0.5129 / 0.4891
[11/20][150/235]   Loss_D: 1.3297 Loss_G: 0.6951 D(x): 0.5446   D(G(z)):
0.5056 / 0.5028
[11/20][200/235]   Loss_D: 1.3472 Loss_G: 0.6349 D(x): 0.5187   D(G(z)):
0.4886 / 0.5337
12
[12/20][0/235] Loss_D: 1.3186 Loss_G: 0.7015 D(x): 0.5060   D(G(z)): 0.4608
/ 0.5005
[12/20][50/235] Loss_D: 1.3162 Loss_G: 0.7408 D(x): 0.5225   D(G(z)): 0.4783
/ 0.4819
[12/20][100/235]   Loss_D: 1.3452 Loss_G: 0.6889 D(x): 0.5622   D(G(z)):
0.5281 / 0.5063
[12/20][150/235]   Loss_D: 1.3068 Loss_G: 0.7119 D(x): 0.5672   D(G(z)):
0.5137 / 0.4950
[12/20][200/235]   Loss_D: 1.3371 Loss_G: 0.6522 D(x): 0.5165   D(G(z)):
0.4807 / 0.5255
13
[13/20][0/235] Loss_D: 1.3487 Loss_G: 0.7667 D(x): 0.5086   D(G(z)): 0.4771
/ 0.4702
[13/20][50/235] Loss_D: 1.3495 Loss_G: 0.6894 D(x): 0.5170   D(G(z)): 0.4885
/ 0.5060
[13/20][100/235]   Loss_D: 1.3391 Loss_G: 0.7375 D(x): 0.5330   D(G(z)):
0.4989 / 0.4831
[13/20][150/235]   Loss_D: 1.3228 Loss_G: 0.7086 D(x): 0.5707   D(G(z)):
0.5233 / 0.4973
[13/20][200/235]   Loss_D: 1.3435 Loss_G: 0.6963 D(x): 0.5479   D(G(z)):
0.5133 / 0.5027

14
[14/20][0/235] Loss_D: 1.3317 Loss_G: 0.7168 D(x): 0.4758   D(G(z)): 0.4333
/ 0.4936
[14/20][50/235] Loss_D: 1.3467 Loss_G: 0.7161 D(x): 0.5230   D(G(z)): 0.4923
/ 0.4932
[14/20][100/235]   Loss_D: 1.3125 Loss_G: 0.7036 D(x): 0.5426   D(G(z)):
0.4946 / 0.4985
[14/20][150/235]   Loss_D: 1.3026 Loss_G: 0.7048 D(x): 0.5520   D(G(z)):
0.4979 / 0.4996
[14/20][200/235]   Loss_D: 1.3410 Loss_G: 0.6241 D(x): 0.5705   D(G(z)):
0.5306 / 0.5404
15
[15/20][0/235] Loss_D: 1.3097 Loss_G: 0.7205 D(x): 0.5265   D(G(z)): 0.4752
/ 0.4929
[15/20][50/235] Loss_D: 1.3547 Loss_G: 0.7373 D(x): 0.5295   D(G(z)): 0.5026
/ 0.4834
[15/20][100/235]   Loss_D: 1.2971 Loss_G: 0.7319 D(x): 0.5527   D(G(z)):
0.4960 / 0.4863
[15/20][150/235]   Loss_D: 1.2804 Loss_G: 0.6913 D(x): 0.5678   D(G(z)):
0.5004 / 0.5059
[15/20][200/235]   Loss_D: 1.3532 Loss_G: 0.7804 D(x): 0.5469   D(G(z)):
0.5146 / 0.4636
16
[16/20][0/235] Loss_D: 1.2947 Loss_G: 0.7510 D(x): 0.5196   D(G(z)): 0.4584
/ 0.4772
[16/20][50/235] Loss_D: 1.3365 Loss_G: 0.7380 D(x): 0.5306   D(G(z)): 0.4914
/ 0.4826
[16/20][100/235]   Loss_D: 1.3315 Loss_G: 0.7594 D(x): 0.5562   D(G(z)):
0.5159 / 0.4734
[16/20][150/235]   Loss_D: 1.2693 Loss_G: 0.7420 D(x): 0.5440   D(G(z)):
0.4717 / 0.4827
[16/20][200/235]   Loss_D: 1.3481 Loss_G: 0.6860 D(x): 0.5715   D(G(z)):
0.5345 / 0.5088
17
[17/20][0/235] Loss_D: 1.3284 Loss_G: 0.7882 D(x): 0.5099   D(G(z)): 0.4657
/ 0.4606
[17/20][50/235] Loss_D: 1.3480 Loss_G: 0.7106 D(x): 0.5190   D(G(z)): 0.4857
/ 0.4973
[17/20][100/235]   Loss_D: 1.2991 Loss_G: 0.7255 D(x): 0.5518   D(G(z)):
0.4954 / 0.4905
[17/20][150/235]   Loss_D: 1.3137 Loss_G: 0.7743 D(x): 0.5021   D(G(z)):
0.4531 / 0.4670
[17/20][200/235]   Loss_D: 1.3420 Loss_G: 0.6618 D(x): 0.5637   D(G(z)):
0.5231 / 0.5221
18
[18/20][0/235] Loss_D: 1.3021 Loss_G: 0.7253 D(x): 0.5398   D(G(z)): 0.4815
/ 0.4899
[18/20][50/235] Loss_D: 1.3621 Loss_G: 0.6741 D(x): 0.5321   D(G(z)): 0.5056

```
/ 0.5152
[18/20][100/235]          Loss_D: 1.3264  Loss_G: 0.7042  D(x): 0.5715    D(G(z)):
0.5260 / 0.5005
[18/20][150/235]          Loss_D: 1.3432  Loss_G: 0.7568  D(x): 0.5093    D(G(z)):
0.4732 / 0.4749
[18/20][200/235]          Loss_D: 1.3725  Loss_G: 0.6656  D(x): 0.5425    D(G(z)):
0.5174 / 0.5193
19
[19/20][0/235]  Loss_D: 1.2965  Loss_G: 0.7467  D(x): 0.5208    D(G(z)): 0.4605
/ 0.4808
[19/20][50/235] Loss_D: 1.3562  Loss_G: 0.6941  D(x): 0.5313    D(G(z)): 0.5011
/ 0.5056
[19/20][100/235]          Loss_D: 1.3179  Loss_G: 0.7661  D(x): 0.5683    D(G(z)):
0.5162 / 0.4713
[19/20][150/235]          Loss_D: 1.3492  Loss_G: 0.7877  D(x): 0.5046    D(G(z)):
0.4710 / 0.4618
[19/20][200/235]          Loss_D: 1.3866  Loss_G: 0.7105  D(x): 0.5358    D(G(z)):
0.5163 / 0.4973
```

```python
manualSeed = 5405

torch.manual_seed(manualSeed)
random.seed(manualSeed)


trainGAN(ma.Generator3(ngpu), ma.Discriminator3(ngpu),  train_loader, 3, 1, 20)
```

```
0
[0/20][0/235]   Loss_D: 1.4090  Loss_G: 0.7040  D(x): 0.4936    D(G(z)): 0.5048
/ 0.4946
[0/20][50/235]  Loss_D: 0.7613  Loss_G: 1.5243  D(x): 0.6242    D(G(z)): 0.2489
/ 0.2193
[0/20][100/235] Loss_D: 0.7447  Loss_G: 0.7127  D(x): 0.9330    D(G(z)): 0.4904
/ 0.4903
[0/20][150/235] Loss_D: 0.7568  Loss_G: 0.6825  D(x): 0.9758    D(G(z)): 0.5104
/ 0.5089
[0/20][200/235] Loss_D: 1.7114  Loss_G: 0.5342  D(x): 0.5872    D(G(z)): 0.6512
/ 0.6007
1
[1/20][0/235]   Loss_D: 1.3050  Loss_G: 0.6539  D(x): 0.5757    D(G(z)): 0.5222
/ 0.5233
[1/20][50/235]  Loss_D: 1.4142  Loss_G: 0.6513  D(x): 0.5265    D(G(z)): 0.5288
/ 0.5277
[1/20][100/235] Loss_D: 1.3037  Loss_G: 0.6508  D(x): 0.5868    D(G(z)): 0.5334
/ 0.5238
[1/20][150/235] Loss_D: 1.3029  Loss_G: 0.6169  D(x): 0.5798    D(G(z)): 0.5282
/ 0.5410
```

```
[1/20][200/235] Loss_D: 1.3881  Loss_G: 0.5985  D(x): 0.5564    D(G(z)): 0.5475
/ 0.5512
2
[2/20][0/235]   Loss_D: 1.3795  Loss_G: 0.6683  D(x): 0.5375    D(G(z)): 0.5293
/ 0.5138
[2/20][50/235]  Loss_D: 1.4170  Loss_G: 0.5934  D(x): 0.5465    D(G(z)): 0.5545
/ 0.5533
[2/20][100/235] Loss_D: 1.3999  Loss_G: 0.7083  D(x): 0.5207    D(G(z)): 0.5247
/ 0.4936
[2/20][150/235] Loss_D: 1.3831  Loss_G: 0.7958  D(x): 0.4889    D(G(z)): 0.4853
/ 0.4522
[2/20][200/235] Loss_D: 1.4118  Loss_G: 0.7248  D(x): 0.4612    D(G(z)): 0.4702
/ 0.4848
3
[3/20][0/235]   Loss_D: 1.4023  Loss_G: 0.6803  D(x): 0.4939    D(G(z)): 0.5010
/ 0.5069
[3/20][50/235]  Loss_D: 1.4101  Loss_G: 0.7877  D(x): 0.4454    D(G(z)): 0.4505
/ 0.4553
[3/20][100/235] Loss_D: 1.3922  Loss_G: 0.7211  D(x): 0.4956    D(G(z)): 0.4974
/ 0.4869
[3/20][150/235] Loss_D: 1.3851  Loss_G: 0.7357  D(x): 0.4755    D(G(z)): 0.4730
/ 0.4794
[3/20][200/235] Loss_D: 1.3815  Loss_G: 0.7767  D(x): 0.4662    D(G(z)): 0.4601
/ 0.4605
4
[4/20][0/235]   Loss_D: 1.4001  Loss_G: 0.6405  D(x): 0.5282    D(G(z)): 0.5322
/ 0.5274
[4/20][50/235]  Loss_D: 1.4012  Loss_G: 0.7524  D(x): 0.4732    D(G(z)): 0.4785
/ 0.4718
[4/20][100/235] Loss_D: 1.3737  Loss_G: 0.6412  D(x): 0.5333    D(G(z)): 0.5243
/ 0.5272
[4/20][150/235] Loss_D: 1.4091  Loss_G: 0.7319  D(x): 0.4687    D(G(z)): 0.4779
/ 0.4813
[4/20][200/235] Loss_D: 1.3737  Loss_G: 0.7843  D(x): 0.4627    D(G(z)): 0.4519
/ 0.4569
5
[5/20][0/235]   Loss_D: 1.3809  Loss_G: 0.6604  D(x): 0.5247    D(G(z)): 0.5201
/ 0.5171
[5/20][50/235]  Loss_D: 1.4237  Loss_G: 0.7510  D(x): 0.4531    D(G(z)): 0.4673
/ 0.4723
[5/20][100/235] Loss_D: 1.3708  Loss_G: 0.7519  D(x): 0.4898    D(G(z)): 0.4810
/ 0.4719
[5/20][150/235] Loss_D: 1.4004  Loss_G: 0.6838  D(x): 0.5008    D(G(z)): 0.5071
/ 0.5050
[5/20][200/235] Loss_D: 1.4086  Loss_G: 0.7568  D(x): 0.4562    D(G(z)): 0.4634
/ 0.4694
6
[6/20][0/235]   Loss_D: 1.3811  Loss_G: 0.7122  D(x): 0.4966    D(G(z)): 0.4935
```

```
/ 0.4908
[6/20][50/235]   Loss_D: 1.3869  Loss_G: 0.7338  D(x): 0.4847    D(G(z)): 0.4837
/ 0.4805
[6/20][100/235] Loss_D: 1.4097  Loss_G: 0.7400  D(x): 0.4697    D(G(z)): 0.4794
/ 0.4774
[6/20][150/235] Loss_D: 1.3690  Loss_G: 0.7723  D(x): 0.4888    D(G(z)): 0.4788
/ 0.4626
[6/20][200/235] Loss_D: 1.3946  Loss_G: 0.6758  D(x): 0.4953    D(G(z)): 0.4988
/ 0.5091
7
[7/20][0/235]    Loss_D: 1.3755  Loss_G: 0.6594  D(x): 0.5178    D(G(z)): 0.5115
/ 0.5174
[7/20][50/235]   Loss_D: 1.3734  Loss_G: 0.7591  D(x): 0.4763    D(G(z)): 0.4678
/ 0.4683
[7/20][100/235] Loss_D: 1.3880  Loss_G: 0.7040  D(x): 0.4956    D(G(z)): 0.4958
/ 0.4950
[7/20][150/235] Loss_D: 1.3667  Loss_G: 0.7726  D(x): 0.4892    D(G(z)): 0.4779
/ 0.4623
[7/20][200/235] Loss_D: 1.4189  Loss_G: 0.6960  D(x): 0.4726    D(G(z)): 0.4869
/ 0.4989
8
[8/20][0/235]    Loss_D: 1.3833  Loss_G: 0.6524  D(x): 0.5330    D(G(z)): 0.5289
/ 0.5212
[8/20][50/235]   Loss_D: 1.3771  Loss_G: 0.7126  D(x): 0.4891    D(G(z)): 0.4835
/ 0.4908
[8/20][100/235] Loss_D: 1.3435  Loss_G: 0.7830  D(x): 0.4914    D(G(z)): 0.4682
/ 0.4576
[8/20][150/235] Loss_D: 1.3832  Loss_G: 0.7644  D(x): 0.4740    D(G(z)): 0.4702
/ 0.4660
[8/20][200/235] Loss_D: 1.3590  Loss_G: 0.6567  D(x): 0.5224    D(G(z)): 0.5070
/ 0.5191
9
[9/20][0/235]    Loss_D: 1.3686  Loss_G: 0.7534  D(x): 0.5008    D(G(z)): 0.4910
/ 0.4713
[9/20][50/235]   Loss_D: 1.3802  Loss_G: 0.7033  D(x): 0.4961    D(G(z)): 0.4920
/ 0.4954
[9/20][100/235] Loss_D: 1.3571  Loss_G: 0.7868  D(x): 0.4733    D(G(z)): 0.4545
/ 0.4561
[9/20][150/235] Loss_D: 1.3575  Loss_G: 0.7807  D(x): 0.4764    D(G(z)): 0.4588
/ 0.4586
[9/20][200/235] Loss_D: 1.3646  Loss_G: 0.6685  D(x): 0.5188    D(G(z)): 0.5067
/ 0.5130
10
[10/20][0/235]  Loss_D: 1.3617  Loss_G: 0.7395  D(x): 0.5088    D(G(z)): 0.4953
/ 0.4780
[10/20][50/235] Loss_D: 1.3691  Loss_G: 0.7343  D(x): 0.4921    D(G(z)): 0.4820
/ 0.4804
[10/20][100/235]        Loss_D: 1.3698  Loss_G: 0.6986  D(x): 0.5202    D(G(z)):
```

0.5100 / 0.4980
[10/20][150/235]   Loss_D: 1.3620 Loss_G: 0.7870 D(x): 0.4685   D(G(z)):
0.4516 / 0.4560
[10/20][200/235]   Loss_D: 1.3698 Loss_G: 0.6734 D(x): 0.5251   D(G(z)):
0.5141 / 0.5108
11
[11/20][0/235] Loss_D: 1.3607 Loss_G: 0.7514 D(x): 0.5057   D(G(z)): 0.4914
/ 0.4725
[11/20][50/235] Loss_D: 1.3641 Loss_G: 0.6985 D(x): 0.5028   D(G(z)): 0.4902
/ 0.4981
[11/20][100/235]   Loss_D: 1.3597 Loss_G: 0.7373 D(x): 0.5173   D(G(z)):
0.5019 / 0.4793
[11/20][150/235]   Loss_D: 1.3695 Loss_G: 0.7496 D(x): 0.4606   D(G(z)):
0.4457 / 0.4733
[11/20][200/235]   Loss_D: 1.3656 Loss_G: 0.6727 D(x): 0.5204   D(G(z)):
0.5072 / 0.5115
12
[12/20][0/235] Loss_D: 1.3559 Loss_G: 0.7860 D(x): 0.5095   D(G(z)): 0.4922
/ 0.4568
[12/20][50/235] Loss_D: 1.3597 Loss_G: 0.6407 D(x): 0.5336   D(G(z)): 0.5171
/ 0.5277
[12/20][100/235]   Loss_D: 1.3621 Loss_G: 0.7505 D(x): 0.4983   D(G(z)):
0.4838 / 0.4734
[12/20][150/235]   Loss_D: 1.3729 Loss_G: 0.7251 D(x): 0.4721   D(G(z)):
0.4606 / 0.4854
[12/20][200/235]   Loss_D: 1.3570 Loss_G: 0.7273 D(x): 0.5091   D(G(z)):
0.4909 / 0.4848
13
[13/20][0/235] Loss_D: 1.3800 Loss_G: 0.7735 D(x): 0.5273   D(G(z)): 0.5205
/ 0.4628
[13/20][50/235] Loss_D: 1.3683 Loss_G: 0.7133 D(x): 0.4935   D(G(z)): 0.4823
/ 0.4911
[13/20][100/235]   Loss_D: 1.3717 Loss_G: 0.7842 D(x): 0.4919   D(G(z)):
0.4813 / 0.4579
[13/20][150/235]   Loss_D: 1.3634 Loss_G: 0.7604 D(x): 0.4695   D(G(z)):
0.4523 / 0.4689
[13/20][200/235]   Loss_D: 1.3639 Loss_G: 0.6650 D(x): 0.5261   D(G(z)):
0.5111 / 0.5155
14
[14/20][0/235] Loss_D: 1.3934 Loss_G: 0.5742 D(x): 0.5943   D(G(z)): 0.5802
/ 0.5641
[14/20][50/235] Loss_D: 1.3750 Loss_G: 0.7431 D(x): 0.4806   D(G(z)): 0.4713
/ 0.4766
[14/20][100/235]   Loss_D: 1.3556 Loss_G: 0.7174 D(x): 0.5250   D(G(z)):
0.5063 / 0.4895
[14/20][150/235]   Loss_D: 1.3510 Loss_G: 0.8307 D(x): 0.4691   D(G(z)):
0.4451 / 0.4371
[14/20][200/235]   Loss_D: 1.3635 Loss_G: 0.6433 D(x): 0.5432   D(G(z)):

0.5272 / 0.5266
15
[15/20][0/235] Loss_D: 1.3691 Loss_G: 0.7253 D(x): 0.5088   D(G(z)): 0.4980
/ 0.4852
[15/20][50/235] Loss_D: 1.3697 Loss_G: 0.7126 D(x): 0.4948   D(G(z)): 0.4844
/ 0.4914
[15/20][100/235]   Loss_D: 1.3673 Loss_G: 0.6749 D(x): 0.5340   D(G(z)):
0.5210 / 0.5102
[15/20][150/235]   Loss_D: 1.3629 Loss_G: 0.7559 D(x): 0.4798   D(G(z)):
0.4647 / 0.4706
[15/20][200/235]   Loss_D: 1.3759 Loss_G: 0.6988 D(x): 0.5273   D(G(z)):
0.5189 / 0.4981
16
[16/20][0/235] Loss_D: 1.3699 Loss_G: 0.7565 D(x): 0.4975   D(G(z)): 0.4872
/ 0.4703
[16/20][50/235] Loss_D: 1.3771 Loss_G: 0.7106 D(x): 0.4886   D(G(z)): 0.4817
/ 0.4922
[16/20][100/235]   Loss_D: 1.3673 Loss_G: 0.6636 D(x): 0.5374   D(G(z)):
0.5238 / 0.5160
[16/20][150/235]   Loss_D: 1.3739 Loss_G: 0.7579 D(x): 0.4823   D(G(z)):
0.4730 / 0.4697
[16/20][200/235]   Loss_D: 1.3829 Loss_G: 0.6936 D(x): 0.5180   D(G(z)):
0.5134 / 0.5008
17
[17/20][0/235] Loss_D: 1.3782 Loss_G: 0.7416 D(x): 0.5015   D(G(z)): 0.4955
/ 0.4773
[17/20][50/235] Loss_D: 1.3881 Loss_G: 0.7160 D(x): 0.4864   D(G(z)): 0.4852
/ 0.4896
[17/20][100/235]   Loss_D: 1.3716 Loss_G: 0.6421 D(x): 0.5335   D(G(z)):
0.5228 / 0.5269
[17/20][150/235]   Loss_D: 1.3724 Loss_G: 0.7548 D(x): 0.4899   D(G(z)):
0.4806 / 0.4710
[17/20][200/235]   Loss_D: 1.3721 Loss_G: 0.6442 D(x): 0.5253   D(G(z)):
0.5153 / 0.5258
18
[18/20][0/235] Loss_D: 1.3675 Loss_G: 0.7356 D(x): 0.5041   D(G(z)): 0.4931
/ 0.4800
[18/20][50/235] Loss_D: 1.3798 Loss_G: 0.7194 D(x): 0.4903   D(G(z)): 0.4852
/ 0.4880
[18/20][100/235]   Loss_D: 1.3717 Loss_G: 0.6762 D(x): 0.5052   D(G(z)):
0.4961 / 0.5093
[18/20][150/235]   Loss_D: 1.3788 Loss_G: 0.7036 D(x): 0.5125   D(G(z)):
0.5069 / 0.4956
[18/20][200/235]   Loss_D: 1.3730 Loss_G: 0.6274 D(x): 0.5304   D(G(z)):
0.5208 / 0.5347
19
[19/20][0/235] Loss_D: 1.3723 Loss_G: 0.7588 D(x): 0.4931   D(G(z)): 0.4841
/ 0.4691

```
[19/20][50/235] Loss_D: 1.3739  Loss_G: 0.7339  D(x): 0.4891    D(G(z)):
0.4809 / 0.4808
[19/20][100/235]       Loss_D: 1.3660  Loss_G: 0.6897  D(x): 0.5034    D(G(z)):
0.4917 / 0.5024
[19/20][150/235]       Loss_D: 1.3839  Loss_G: 0.7139  D(x): 0.4967    D(G(z)):
0.4938 / 0.4905
[19/20][200/235]       Loss_D: 1.3792  Loss_G: 0.6515  D(x): 0.5161    D(G(z)):
0.5105 / 0.5220
```

[ ]: ```
     #train an unstable GAN to get loss trajectory plot
     trainGAN(ma.Generator2(1), ma.Discriminator1(1), train_loader, 'test', 1, 20)
     ```

```
0
[0/20][0/235]   Loss_D: 1.3862  Loss_G: 0.7158  D(x): 0.5020    D(G(z)): 0.5017
/ 0.4889
[0/20][50/235]  Loss_D: 0.7259  Loss_G: 0.6958  D(x): 0.9660    D(G(z)): 0.4987
/ 0.4987
[0/20][100/235] Loss_D: 0.6934  Loss_G: 0.7022  D(x): 0.9910    D(G(z)): 0.4956
/ 0.4955
[0/20][150/235] Loss_D: 0.6825  Loss_G: 0.7080  D(x): 0.9962    D(G(z)): 0.4927
/ 0.4926
[0/20][200/235] Loss_D: 0.6744  Loss_G: 0.7136  D(x): 0.9989    D(G(z)): 0.4899
/ 0.4899
1
[1/20][0/235]   Loss_D: 0.6705  Loss_G: 0.7174  D(x): 0.9990    D(G(z)): 0.4881
/ 0.4880
[1/20][50/235]  Loss_D: 0.6652  Loss_G: 0.7228  D(x): 0.9992    D(G(z)): 0.4854
/ 0.4854
[1/20][100/235] Loss_D: 0.6603  Loss_G: 0.7282  D(x): 0.9991    D(G(z)): 0.4828
/ 0.4828
[1/20][150/235] Loss_D: 0.6553  Loss_G: 0.7335  D(x): 0.9991    D(G(z)): 0.4803
/ 0.4802
[1/20][200/235] Loss_D: 0.6498  Loss_G: 0.7388  D(x): 0.9998    D(G(z)): 0.4777
/ 0.4777
2
[2/20][0/235]   Loss_D: 0.6464  Loss_G: 0.7425  D(x): 0.9998    D(G(z)): 0.4760
/ 0.4759
[2/20][50/235]  Loss_D: 0.6417  Loss_G: 0.7478  D(x): 0.9997    D(G(z)): 0.4734
/ 0.4734
[2/20][100/235] Loss_D: 0.6370  Loss_G: 0.7531  D(x): 0.9997    D(G(z)): 0.4709
/ 0.4709
[2/20][150/235] Loss_D: 0.6323  Loss_G: 0.7584  D(x): 0.9996    D(G(z)): 0.4685
/ 0.4684
[2/20][200/235] Loss_D: 0.6274  Loss_G: 0.7637  D(x): 0.9999    D(G(z)): 0.4660
/ 0.4659
3
[3/20][0/235]   Loss_D: 0.6242  Loss_G: 0.7674  D(x): 0.9999    D(G(z)): 0.4643
```

```
/ 0.4642
[3/20][50/235]   Loss_D: 0.6197  Loss_G: 0.7727  D(x): 0.9999    D(G(z)): 0.4618
/ 0.4618
[3/20][100/235] Loss_D: 0.6152  Loss_G: 0.7780  D(x): 0.9998    D(G(z)): 0.4594
/ 0.4593
[3/20][150/235] Loss_D: 0.6108  Loss_G: 0.7833  D(x): 0.9998    D(G(z)): 0.4570
/ 0.4569
[3/20][200/235] Loss_D: 0.6062  Loss_G: 0.7886  D(x): 1.0000    D(G(z)): 0.4545
/ 0.4545
4
[4/20][0/235]    Loss_D: 0.6031  Loss_G: 0.7923  D(x): 1.0000    D(G(z)): 0.4529
/ 0.4528
[4/20][50/235]   Loss_D: 0.5987  Loss_G: 0.7976  D(x): 0.9999    D(G(z)): 0.4504
/ 0.4504
[4/20][100/235] Loss_D: 0.5944  Loss_G: 0.8029  D(x): 0.9999    D(G(z)): 0.4481
/ 0.4480
[4/20][150/235] Loss_D: 0.5901  Loss_G: 0.8083  D(x): 0.9999    D(G(z)): 0.4457
/ 0.4456
[4/20][200/235] Loss_D: 0.5857  Loss_G: 0.8136  D(x): 1.0000    D(G(z)): 0.4433
/ 0.4432
5
[5/20][0/235]    Loss_D: 0.5828  Loss_G: 0.8174  D(x): 1.0000    D(G(z)): 0.4416
/ 0.4416
[5/20][50/235]   Loss_D: 0.5786  Loss_G: 0.8227  D(x): 1.0000    D(G(z)): 0.4393
/ 0.4392
[5/20][100/235] Loss_D: 0.5744  Loss_G: 0.8281  D(x): 1.0000    D(G(z)): 0.4369
/ 0.4369
[5/20][150/235] Loss_D: 0.5703  Loss_G: 0.8335  D(x): 0.9999    D(G(z)): 0.4346
/ 0.4345
[5/20][200/235] Loss_D: 0.5661  Loss_G: 0.8389  D(x): 1.0000    D(G(z)): 0.4322
/ 0.4322
6
[6/20][0/235]    Loss_D: 0.5632  Loss_G: 0.8427  D(x): 1.0000    D(G(z)): 0.4306
/ 0.4306
[6/20][50/235]   Loss_D: 0.5591  Loss_G: 0.8481  D(x): 1.0000    D(G(z)): 0.4283
/ 0.4282
[6/20][100/235] Loss_D: 0.5551  Loss_G: 0.8535  D(x): 1.0000    D(G(z)): 0.4260
/ 0.4259
[6/20][150/235] Loss_D: 0.5511  Loss_G: 0.8589  D(x): 0.9999    D(G(z)): 0.4237
/ 0.4236
[6/20][200/235] Loss_D: 0.5471  Loss_G: 0.8644  D(x): 1.0000    D(G(z)): 0.4214
/ 0.4213
7
[7/20][0/235]    Loss_D: 0.5443  Loss_G: 0.8682  D(x): 1.0000    D(G(z)): 0.4198
/ 0.4197
[7/20][50/235]   Loss_D: 0.5404  Loss_G: 0.8736  D(x): 1.0000    D(G(z)): 0.4175
/ 0.4174
[7/20][100/235] Loss_D: 0.5365  Loss_G: 0.8791  D(x): 1.0000    D(G(z)): 0.4152
```

/ 0.4151
[7/20][150/235] Loss_D: 0.5327 Loss_G: 0.8846 D(x): 0.9999   D(G(z)): 0.4129
/ 0.4129
[7/20][200/235] Loss_D: 0.5288 Loss_G: 0.8901 D(x): 1.0000   D(G(z)): 0.4107
/ 0.4106
8
[8/20][0/235]   Loss_D: 0.5261 Loss_G: 0.8940 D(x): 1.0000   D(G(z)): 0.4091
/ 0.4090
[8/20][50/235] Loss_D: 0.5223 Loss_G: 0.8995 D(x): 1.0000   D(G(z)): 0.4068
/ 0.4068
[8/20][100/235] Loss_D: 0.5185 Loss_G: 0.9050 D(x): 1.0000   D(G(z)): 0.4046
/ 0.4045
[8/20][150/235] Loss_D: 0.5148 Loss_G: 0.9105 D(x): 1.0000   D(G(z)): 0.4023
/ 0.4023
[8/20][200/235] Loss_D: 0.5110 Loss_G: 0.9161 D(x): 1.0000   D(G(z)): 0.4001
/ 0.4001
9
[9/20][0/235]   Loss_D: 0.5084 Loss_G: 0.9200 D(x): 1.0000   D(G(z)): 0.3986
/ 0.3985
[9/20][50/235] Loss_D: 0.5048 Loss_G: 0.9256 D(x): 1.0000   D(G(z)): 0.3964
/ 0.3963
[9/20][100/235] Loss_D: 0.5011 Loss_G: 0.9312 D(x): 1.0000   D(G(z)): 0.3941
/ 0.3941
[9/20][150/235] Loss_D: 0.4975 Loss_G: 0.9368 D(x): 1.0000   D(G(z)): 0.3919
/ 0.3919
[9/20][200/235] Loss_D: 0.4939 Loss_G: 0.9424 D(x): 1.0000   D(G(z)): 0.3897
/ 0.3897
10
[10/20][0/235] Loss_D: 0.4914 Loss_G: 0.9463 D(x): 1.0000   D(G(z)): 0.3882
/ 0.3882
[10/20][50/235] Loss_D: 0.4878 Loss_G: 0.9519 D(x): 1.0000   D(G(z)): 0.3860
/ 0.3860
[10/20][100/235]   Loss_D: 0.4843 Loss_G: 0.9576 D(x): 1.0000   D(G(z)):
0.3839 / 0.3838
[10/20][150/235]   Loss_D: 0.4808 Loss_G: 0.9632 D(x): 1.0000   D(G(z)):
0.3817 / 0.3817
[10/20][200/235]   Loss_D: 0.4773 Loss_G: 0.9689 D(x): 1.0000   D(G(z)):
0.3795 / 0.3795
11
[11/20][0/235] Loss_D: 0.4749 Loss_G: 0.9729 D(x): 1.0000   D(G(z)): 0.3780
/ 0.3780
[11/20][50/235] Loss_D: 0.4714 Loss_G: 0.9786 D(x): 1.0000   D(G(z)): 0.3759
/ 0.3758
[11/20][100/235]   Loss_D: 0.4680 Loss_G: 0.9843 D(x): 1.0000   D(G(z)):
0.3738 / 0.3737
[11/20][150/235]   Loss_D: 0.4646 Loss_G: 0.9900 D(x): 1.0000   D(G(z)):
0.3716 / 0.3716
[11/20][200/235]   Loss_D: 0.4612 Loss_G: 0.9957 D(x): 1.0000   D(G(z)):

```
0.3695 / 0.3695
12
[12/20][0/235]   Loss_D: 0.4589  Loss_G: 0.9997  D(x): 1.0000    D(G(z)): 0.3680
/ 0.3680
[12/20][50/235] Loss_D: 0.4556  Loss_G: 1.0055  D(x): 1.0000    D(G(z)): 0.3659
/ 0.3659
[12/20][100/235]        Loss_D: 0.4523  Loss_G: 1.0113  D(x): 1.0000    D(G(z)):
0.3638 / 0.3638
[12/20][150/235]        Loss_D: 0.4490  Loss_G: 1.0170  D(x): 1.0000    D(G(z)):
0.3617 / 0.3617
[12/20][200/235]        Loss_D: 0.4457  Loss_G: 1.0228  D(x): 1.0000    D(G(z)):
0.3596 / 0.3596
13
[13/20][0/235]   Loss_D: 0.4434  Loss_G: 1.0269  D(x): 1.0000    D(G(z)): 0.3582
/ 0.3581
[13/20][50/235] Loss_D: 0.4402  Loss_G: 1.0327  D(x): 1.0000    D(G(z)): 0.3561
/ 0.3560
[13/20][100/235]        Loss_D: 0.4370  Loss_G: 1.0385  D(x): 1.0000    D(G(z)):
0.3540 / 0.3540
[13/20][150/235]        Loss_D: 0.4338  Loss_G: 1.0444  D(x): 1.0000    D(G(z)):
0.3520 / 0.3519
[13/20][200/235]        Loss_D: 0.4306  Loss_G: 1.0502  D(x): 1.0000    D(G(z)):
0.3499 / 0.3499
14
[14/20][0/235]   Loss_D: 0.4284  Loss_G: 1.0543  D(x): 1.0000    D(G(z)): 0.3485
/ 0.3484
[14/20][50/235] Loss_D: 0.4253  Loss_G: 1.0602  D(x): 1.0000    D(G(z)): 0.3464
/ 0.3464
[14/20][100/235]        Loss_D: 0.4222  Loss_G: 1.0661  D(x): 1.0000    D(G(z)):
0.3444 / 0.3444
[14/20][150/235]        Loss_D: 0.4191  Loss_G: 1.0720  D(x): 1.0000    D(G(z)):
0.3424 / 0.3423
[14/20][200/235]        Loss_D: 0.4161  Loss_G: 1.0779  D(x): 1.0000    D(G(z)):
0.3404 / 0.3403
15
[15/20][0/235]   Loss_D: 0.4139  Loss_G: 1.0820  D(x): 1.0000    D(G(z)): 0.3389
/ 0.3389
[15/20][50/235] Loss_D: 0.4109  Loss_G: 1.0880  D(x): 1.0000    D(G(z)): 0.3369
/ 0.3369
[15/20][100/235]        Loss_D: 0.4079  Loss_G: 1.0939  D(x): 1.0000    D(G(z)):
0.3349 / 0.3349
[15/20][150/235]        Loss_D: 0.4049  Loss_G: 1.0999  D(x): 1.0000    D(G(z)):
0.3330 / 0.3329
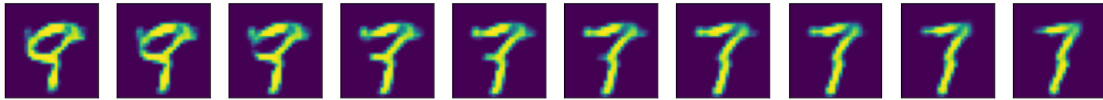[15/20][200/235]        Loss_D: 0.4019  Loss_G: 1.1058  D(x): 1.0000    D(G(z)):
0.3310 / 0.3309
16
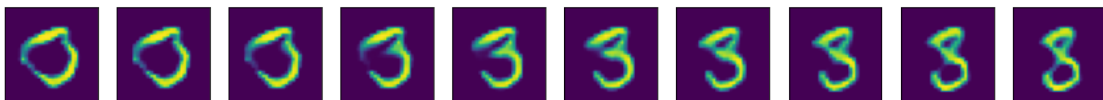[16/20][0/235]   Loss_D: 0.3999  Loss_G: 1.1100  D(x): 1.0000    D(G(z)): 0.3296
/ 0.3296
```

```
[16/20][50/235] Loss_D: 0.3969  Loss_G: 1.1160  D(x): 1.0000   D(G(z)): 0.3276
/ 0.3276
[16/20][100/235]        Loss_D: 0.3940  Loss_G: 1.1220  D(x): 1.0000   D(G(z)):
0.3257 / 0.3256
[16/20][150/235]        Loss_D: 0.3911  Loss_G: 1.1280  D(x): 1.0000   D(G(z)):
0.3237 / 0.3237
[16/20][200/235]        Loss_D: 0.3883  Loss_G: 1.1341  D(x): 1.0000   D(G(z)):
0.3218 / 0.3217
17
[17/20][0/235]  Loss_D: 0.3863  Loss_G: 1.1383  D(x): 1.0000   D(G(z)): 0.3204
/ 0.3204
[17/20][50/235] Loss_D: 0.3834  Loss_G: 1.1444  D(x): 1.0000   D(G(z)): 0.3185
/ 0.3184
[17/20][100/235]        Loss_D: 0.3806  Loss_G: 1.1504  D(x): 1.0000   D(G(z)):
0.3165 / 0.3165
[17/20][150/235]        Loss_D: 0.3778  Loss_G: 1.1565  D(x): 1.0000   D(G(z)):
0.3146 / 0.3146
[17/20][200/235]        Loss_D: 0.3750  Loss_G: 1.1626  D(x): 1.0000   D(G(z)):
0.3127 / 0.3127
18
[18/20][0/235]  Loss_D: 0.3731  Loss_G: 1.1669  D(x): 1.0000   D(G(z)): 0.3114
/ 0.3113
[18/20][50/235] Loss_D: 0.3703  Loss_G: 1.1730  D(x): 1.0000   D(G(z)): 0.3095
/ 0.3094
[18/20][100/235]        Loss_D: 0.3676  Loss_G: 1.1791  D(x): 1.0000   D(G(z)):
0.3076 / 0.3076
[18/20][150/235]        Loss_D: 0.3649  Loss_G: 1.1853  D(x): 1.0000   D(G(z)):
0.3057 / 0.3057
[18/20][200/235]        Loss_D: 0.3622  Loss_G: 1.1914  D(x): 1.0000   D(G(z)):
0.3038 / 0.3038
19
[19/20][0/235]  Loss_D: 0.3603  Loss_G: 1.1957  D(x): 1.0000   D(G(z)): 0.3025
/ 0.3025
[19/20][50/235] Loss_D: 0.3576  Loss_G: 1.2019  D(x): 1.0000   D(G(z)): 0.3007
/ 0.3006
[19/20][100/235]        Loss_D: 0.3550  Loss_G: 1.2081  D(x): 1.0000   D(G(z)):
0.2988 / 0.2988
[19/20][150/235]        Loss_D: 0.3524  Loss_G: 1.2143  D(x): 1.0000   D(G(z)):
0.2970 / 0.2969
[19/20][200/235]        Loss_D: 0.3497  Loss_G: 1.2205  D(x): 1.0000   D(G(z)):
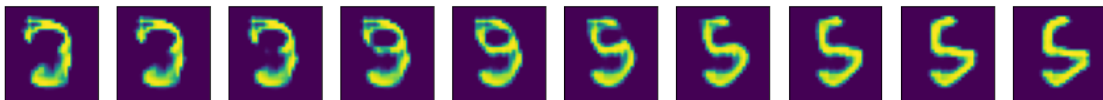0.2951 / 0.2951
```

2 Visualising results of training

```python
#visualise effect in data space of linearly interpolating between seeds in
 ↪latent space
def interpolate(gan_num, netG):
  seed_1 = torch.randn(1,ma.nz, 1, 1)
  seed_2 = torch.randn(1,ma.nz, 1, 1)

  fig, ax = plt.subplots(1,10, figsize=(15,5))
  i=0
  for r in [x * 0.1 for x in range(0, 10)]:
    noise_temp = seed_1*r + seed_2*(1-r)
    img = netG(noise_temp).detach().numpy().reshape(28,28)
    ax[i].imshow(img)
    ax[i].set_xticks([])
    ax[i].set_yticks([])
    i=i+1
  plt.savefig('GAN{}_interpolate.png'.format(gan_num),bbox_inches='tight')
```

```python
(netG1, netG2, netG3) = fp_util.initialise_generators()
interpolate(1, netG1)
```

```python
interpolate(2, netG2)
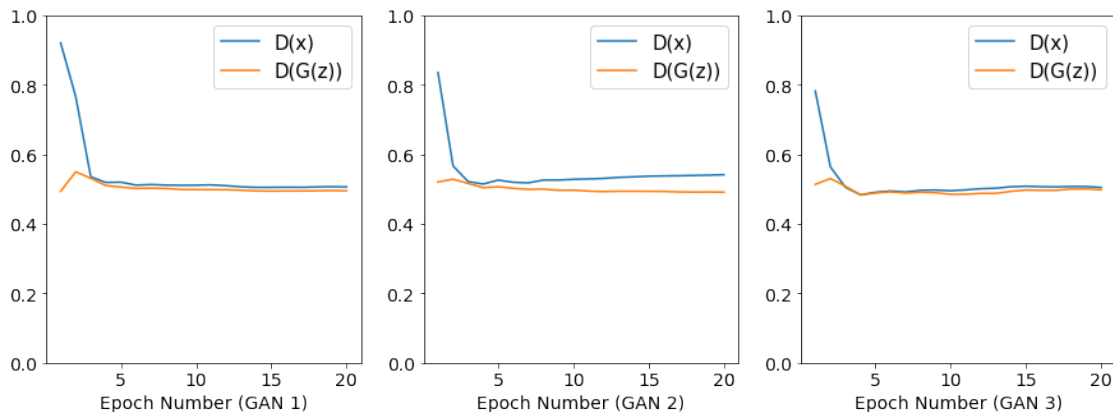```

```python
interpolate(3, netG3)
```

```python
#calculate average D_x and D_G_z scores obtained by the different batches over
 ↪one epoch
```

```python
def get_epoch_avg_D_scores(GAN_model_dict):
    D_x_list_og = GAN_model_dict['D_x_list']
    D_x_list_epoch = []
    for ind in np.arange(0,4700,235):
        D_x_list_epoch.append(np.average(D_x_list_og[ind:ind+235]))
    D_G_z_list_og = GAN_model_dict['D_G_z1_list']
    D_G_z_list_epoch = []
    for ind in np.arange(0,4700,235):
        D_G_z_list_epoch.append(np.average(D_G_z_list_og[ind:ind+235]))
    return (D_x_list_epoch, D_G_z_list_epoch)
```

```python
plt.rcParams['font.size'] = 14
plt.rcParams['legend.fontsize']=15

fig, ax = plt.subplots(1,3, figsize=(15,5))

for i in range(3):
    GAN_model_dict = torch.load('/content/gdrive/My Drive/Diss/trained_models/
    ↪GAN_{}'.format(i+1), map_location=torch.device('cpu'))
    (D_x_list_epoch, D_G_z_list_epoch) = get_epoch_avg_D_scores(GAN_model_dict)
    ax[i].plot(list(np.arange(1,21,1)), D_x_list_epoch, label='D(x)')
    ax[i].plot(list(np.arange(1,21,1)), D_G_z_list_epoch, label='D(G(z))')
    ax[i].set_ylim([0,1])
    ax[i].set_xlabel('Epoch Number (GAN {})'.format(i+1))
    ax[i].legend()
plt.savefig('GANs_eval.pdf', bbox_inches='tight')
```



```python
#failure mode
plt.rcParams['font.size'] = 14
plt.rcParams['legend.fontsize'] = 15

GAN_model_dict = torch.load('/content/gdrive/My Drive/Diss/trained_models/
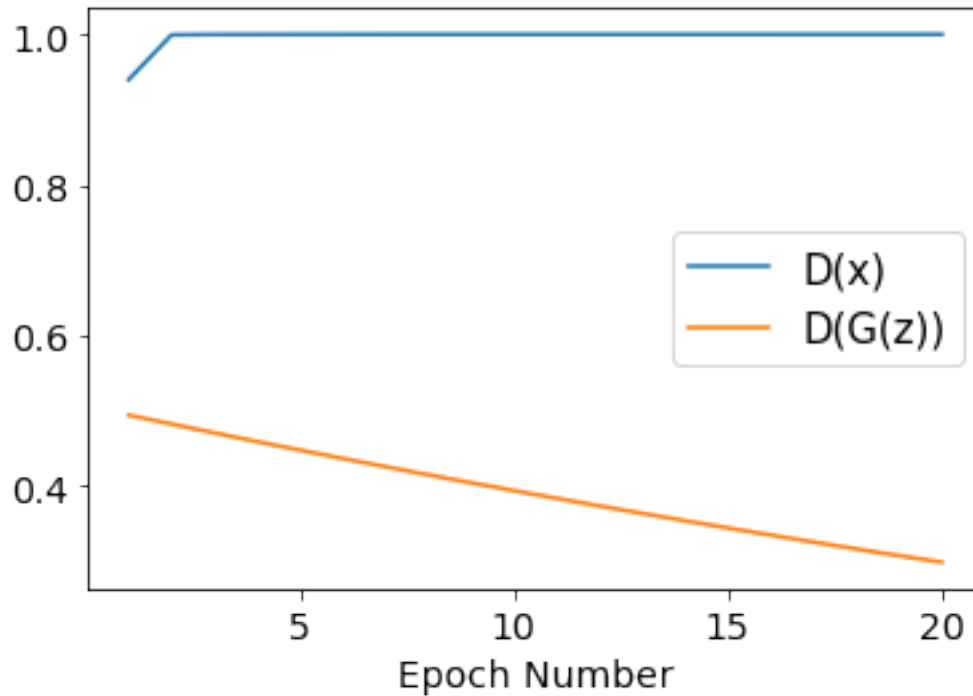↪GAN_test', map_location=torch.device('cpu'))
```

```
(D_x_list_epoch, D_G_z_list_epoch) = get_epoch_avg_D_scores(GAN_model_dict)
plt.plot(list(np.arange(1,21,1)), D_x_list_epoch, label='D(x)')
plt.plot(list(np.arange(1,21,1)), D_G_z_list_epoch, label='D(G(z))')
plt.xlabel('Epoch Number')

plt.legend()
plt.savefig('failure_mode.pdf', bbox_inches='tight')
plt.show()
```



```
[ ]: from torchsummary import summary
     netG1 = ma.Generator1(1)
     summary(netG1, (100,1,1),256,'cpu')
```

```
----------------------------------------------------------------
        Layer (type)          Output Shape           Param #
================================================================
           Linear-1         [256, 1, 1, 6272]         633,472
        LeakyReLU-2         [256, 1, 1, 6272]               0
  ConvTranspose2d-3         [256, 128, 14, 14]        262,144
        LeakyReLU-4         [256, 128, 14, 14]              0
  ConvTranspose2d-5         [256, 128, 28, 28]        262,144
        LeakyReLU-6         [256, 128, 28, 28]              0
           Conv2d-7         [256, 1, 28, 28]           6,272
================================================================
```

```
Total params: 1,164,032
Trainable params: 1,164,032
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.10
Forward/backward pass size (MB): 516.03
Params size (MB): 4.44
Estimated Total Size (MB): 520.57
----------------------------------------------------------------
```

```
[ ]: netD1 = ma.Discriminator1(1)
     summary(netD1, (1,28,28),256,'cpu')
```

```
----------------------------------------------------------------
        Layer (type)            Output Shape         Param #
================================================================
            Conv2d-1        [256, 64, 14, 14]            576
         LeakyReLU-2        [256, 64, 14, 14]              0
           Dropout-3        [256, 64, 14, 14]              0
            Conv2d-4         [256, 64, 7, 7]          36,864
         LeakyReLU-5         [256, 64, 7, 7]               0
           Dropout-6         [256, 64, 7, 7]               0
           Flatten-7             [256, 3136]               0
           Linear-8                [256, 1]           3,137
          Sigmoid-9                [256, 1]               0
================================================================
Total params: 40,577
Trainable params: 40,577
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.77
Forward/backward pass size (MB): 98.00
Params size (MB): 0.15
Estimated Total Size (MB): 98.92
----------------------------------------------------------------
```

```
[ ]: netG2 = ma.Generator2(1)
     summary(netG2, (100,1,1),256,'cpu')
```

```
----------------------------------------------------------------
        Layer (type)            Output Shape         Param #
================================================================
           Linear-1        [256, 1, 1, 6272]        633,472
        LeakyReLU-2        [256, 1, 1, 6272]              0
  ConvTranspose2d-3      [256, 128, 14, 14]        262,144
        LeakyReLU-4      [256, 128, 14, 14]              0
         Upsample-5      [256, 128, 28, 28]              0
```

```
           Conv2d-6        [256, 128, 28, 28]         147,456
        LeakyReLU-7        [256, 128, 28, 28]               0
           Conv2d-8          [256, 1, 28, 28]           6,272
================================================================
Total params: 1,049,344
Trainable params: 1,049,344
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.10
Forward/backward pass size (MB): 712.03
Params size (MB): 4.00
Estimated Total Size (MB): 716.13
----------------------------------------------------------------
```

```
[ ]: netD2 = ma.Discriminator2(1)
     summary(netD2, (1,28,28), 256, 'cpu')
```

```
----------------------------------------------------------------
        Layer (type)            Output Shape         Param #
================================================================
           Conv2d-1          [256, 64, 28, 28]             576
        MaxPool2d-2          [256, 64, 14, 14]               0
        LeakyReLU-3          [256, 64, 14, 14]               0
          Dropout-4          [256, 64, 14, 14]               0
           Conv2d-5          [256, 64, 14, 14]          36,864
        AvgPool2d-6            [256, 64, 7, 7]               0
        LeakyReLU-7            [256, 64, 7, 7]               0
          Dropout-8            [256, 64, 7, 7]               0
          Flatten-9               [256, 3136]               0
         Linear-10                  [256, 1]           3,137
        Sigmoid-11                  [256, 1]               0
================================================================
Total params: 40,577
Trainable params: 40,577
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.77
Forward/backward pass size (MB): 220.50
Params size (MB): 0.15
Estimated Total Size (MB): 221.42
----------------------------------------------------------------
```

```
[ ]: netG3 = ma.Generator3(1)
     summary(netG3, (100,1,1),256,'cpu')
```

```
----------------------------------------------------------------
        Layer (type)            Output Shape         Param #
```

```
================================================================
         Linear-1           [256, 1, 1, 6272]          633,472
       LeakyReLU-2           [256, 1, 1, 6272]                0
        Upsample-3          [256, 128, 14, 14]                0
          Conv2d-4           [256, 64, 14, 14]           73,728
       LeakyReLU-5           [256, 64, 14, 14]                0
        Upsample-6           [256, 64, 28, 28]                0
          Conv2d-7           [256, 32, 28, 28]           18,432
       LeakyReLU-8           [256, 32, 28, 28]                0
          Conv2d-9            [256, 1, 28, 28]            1,568
================================================================
Total params: 727,200
Trainable params: 727,200
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.10
Forward/backward pass size (MB): 320.03
Params size (MB): 2.77
Estimated Total Size (MB): 322.90
----------------------------------------------------------------
```

```
netD3 = ma.Discriminator3(1)
summary(netD3, (1,28,28), 256, 'cpu')
```

```
----------------------------------------------------------------
        Layer (type)               Output Shape         Param #
================================================================
          Conv2d-1           [256, 64, 28, 28]              576
       AvgPool2d-2           [256, 64, 14, 14]                0
       LeakyReLU-3           [256, 64, 14, 14]                0
         Dropout-4           [256, 64, 14, 14]                0
          Conv2d-5           [256, 64, 14, 14]           36,864
       AvgPool2d-6             [256, 64, 7, 7]                0
       LeakyReLU-7             [256, 64, 7, 7]                0
         Dropout-8             [256, 64, 7, 7]                0
       Flatten-9                  [256, 3136]                0
       Linear-10                     [256, 1]            3,137
       Sigmoid-11                    [256, 1]                0
================================================================
Total params: 40,577
Trainable params: 40,577
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.77
Forward/backward pass size (MB): 220.50
Params size (MB): 0.15
Estimated Total Size (MB): 221.42
----------------------------------------------------------------
```

```
autoEnc = ma.Autoencoder()
summary(autoEnc, (1,28,28),256,'cpu')
```

```
----------------------------------------------------------------
        Layer (type)               Output Shape         Param #
================================================================
            Conv2d-1          [256, 16, 28, 28]             160
         MaxPool2d-2          [256, 16, 14, 14]               0
            Conv2d-3           [256, 4, 14, 14]             580
         MaxPool2d-4             [256, 4, 7, 7]               0
   ConvTranspose2d-5          [256, 16, 14, 14]             272
   ConvTranspose2d-6           [256, 1, 28, 28]              65
================================================================
Total params: 1,077
Trainable params: 1,077
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.77
Forward/backward pass size (MB): 40.20
Params size (MB): 0.00
Estimated Total Size (MB): 40.97
----------------------------------------------------------------
```

/usr/local/lib/python3.6/dist-packages/torch/nn/functional.py:1639: UserWarning:
nn.functional.sigmoid is deprecated. Use torch.sigmoid instead.
  warnings.warn("nn.functional.sigmoid is deprecated. Use torch.sigmoid
instead.")

3   Finetuning for Targeted Attack 2

```
#change hyperparameter settings for finetuning GANs (attack 2)

lr = 0.00005

manualSeed = 500
torch.manual_seed(manualSeed)
random.seed(manualSeed)
np.random.seed(manualSeed)
```

```
!cp '/content/gdrive/My Drive/Diss/GAN_Finetuning_Dataset/train_data.zip' '/
 ↪content/train_data.zip'
!unzip 'train_data.zip'
```

Streaming output truncated to the last 5000 lines.
  inflating: GAN_Finetuning_Dataset/gan_1_img_2022.npy
  inflating: GAN_Finetuning_Dataset/gan_2_img_2599.npy
  inflating: GAN_Finetuning_Dataset/gan_3_img_9971.npy

29

```
inflating: GAN_Finetuning_Dataset/gan_2_img_4856.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7784.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_2744.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5590.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_4335.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7387.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5193.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_2824.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_6522.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_9611.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_7628.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7393.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5187.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_3328.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_939.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_5981.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_5759.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6250.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3290.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_1084.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_9163.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5839.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_878.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_6933.npy
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inflating: GAN_Finetuning_Dataset/gan_2_img_3863.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_5771.npy
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inflating: GAN_Finetuning_Dataset/gan_2_img_8936.npy
```

```
inflating: GAN_Finetuning_Dataset/gan_1_img_6278.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_5003.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9959.npy
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inflating: GAN_Finetuning_Dataset/gan_2_img_8922.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_1503.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_844.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8241.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_7172.npy
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inflating: GAN_Finetuning_Dataset/gan_2_img_3877.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_5765.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_2585.npy
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```

```
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inflating: GAN_Finetuning_Dataset/gan_3_img_1646.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3452.npy
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inflating: GAN_Finetuning_Dataset/gan_2_img_1245.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6091.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3051.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1926.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_461.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8507.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5420.npy
```

```
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inflating: GAN_Finetuning_Dataset/gan_3_img_5346.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7152.npy
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inflating: GAN_Finetuning_Dataset/gan_3_img_3737.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_8902.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1098.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8662.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5745.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_2591.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7551.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_246.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_6897.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_3857.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_1120.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3334.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_604.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6907.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8249.npy
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inflating: GAN_Finetuning_Dataset/gan_1_img_3065.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9396.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_3703.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8936.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5811.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_5372.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1114.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_978.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_9548.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_7565.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8656.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3863.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_260.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8306.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5221.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6848.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3888.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7035.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8865.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_9018.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_1444.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6690.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_993.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3650.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_321.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_5399.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_3930.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8705.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5622.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7436.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_6728.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_4087.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_1047.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3253.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_1721.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3535.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_4939.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8063.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5144.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_2390.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7350.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_447.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_1322.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3136.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4659.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1699.npy
```

```
inflating: GAN_Finetuning_Dataset/gan_3_img_54.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8460.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5547.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7753.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4881.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1841.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_2228.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_506.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_1336.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3122.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_40.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_6459.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5553.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8474.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7747.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1855.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4895.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_512.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_1735.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3521.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9369.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5150.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8077.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7344.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_2384.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_453.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_335.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_3924.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_2159.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5636.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8711.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7422.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_4528.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_1053.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_4093.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3247.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_274.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5235.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8312.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7021.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8871.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_1450.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3644.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_987.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6684.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_2171.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_8739.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_6714.npy
```

```
inflating: GAN_Finetuning_Dataset/gan_2_img_4500.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9427.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_2572.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8681.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6874.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_7009.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_777.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_6317.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8859.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4103.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_9024.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_1478.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_6471.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_68.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4665.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_9742.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_2214.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_3509.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_6072.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_4266.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9341.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_4905.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_5178.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_2617.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_1709.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_6066.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9355.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_4272.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_7378.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_4911.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_2603.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_6465.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_9756.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4671.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_8448.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_2200.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_1869.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_248.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_2566.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_8695.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_763.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_6860.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_5209.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_6303.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_9030.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_4117.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_3678.npy
inflating: GAN_Finetuning_Dataset/gan_1_img_3918.npy
```

```
inflating: GAN_Finetuning_Dataset/gan_2_img_2165.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_309.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_6700.npy
inflating: GAN_Finetuning_Dataset/gan_3_img_9433.npy
inflating: GAN_Finetuning_Dataset/gan_2_img_4514.npy
```

```python
class GAN1_Images(torch.utils.data.Dataset):
  def __len__(self):
        return 10000

  def __getitem__(self, index):
        img = torch.from_numpy(np.load('/content/train_data/gan_1_img_' +
→str(index+1) + '.npy'))
        return img

class GAN2_Images(torch.utils.data.Dataset):
  def __len__(self):
        return 10000

  def __getitem__(self, index):
        img = torch.from_numpy(np.load('/content/train_data/gan_2_img_' +
→str(index+1) + '.npy'))
        return img

class GAN3_Images(torch.utils.data.Dataset):
  def __len__(self):
        return 10000

  def __getitem__(self, index):
        img = torch.from_numpy(np.load('/content/train_data/gan_3_img_' +
→str(index+1) + '.npy'))
        return img
```

```python
import fp_utilities as fp_util
(netG1, netG2, netG3) = fp_util.initialise_generators()
(netD1, netD2, netD3) = fp_util.initialise_discriminators()
```

```python
params = {'batch_size': 256,
          'shuffle': True,
          }
criterion = nn.BCELoss()

#GAN 1 images to finetune GAN 2 on
GAN1_set = GAN1_Images()
GAN1_imgs_loader = torch.utils.data.DataLoader(GAN1_set, **params)

#GAN 2 images to finetune GAN 3 on
GAN2_set = GAN2_Images()
```

```
GAN2_imgs_loader = torch.utils.data.DataLoader(GAN2_set, **params)

#GAN 3 images to finetune GAN 1 on
GAN3_set = GAN3_Images()
GAN3_imgs_loader = torch.utils.data.DataLoader(GAN3_set, **params)
```

`[ ]:` `train_GAN(netG1, netD1, GAN2_imgs_loader,1, 0, 15, finetune=True)`

```
0
[0/15][0/40]    Loss_D: 1.3948  Loss_G: 0.7211  D(x): 0.5599    D(G(z)): 0.5573
/ 0.4862
1
[1/15][0/40]    Loss_D: 1.5055  Loss_G: 0.7438  D(x): 0.4929    D(G(z)): 0.5498
/ 0.4753
2
[2/15][0/40]    Loss_D: 1.3961  Loss_G: 0.6975  D(x): 0.5048    D(G(z)): 0.5095
/ 0.4978
3
[3/15][0/40]    Loss_D: 1.2885  Loss_G: 0.8573  D(x): 0.5256    D(G(z)): 0.4755
/ 0.4243
4
[4/15][0/40]    Loss_D: 1.2155  Loss_G: 0.8106  D(x): 0.5254    D(G(z)): 0.4356
/ 0.4446
5
[5/15][0/40]    Loss_D: 1.2851  Loss_G: 0.6746  D(x): 0.4493    D(G(z)): 0.3844
/ 0.5094
6
[6/15][0/40]    Loss_D: 1.4986  Loss_G: 0.7180  D(x): 0.4446    D(G(z)): 0.4974
/ 0.4877
7
[7/15][0/40]    Loss_D: 1.5162  Loss_G: 0.7111  D(x): 0.4486    D(G(z)): 0.5106
/ 0.4911
8
[8/15][0/40]    Loss_D: 1.3961  Loss_G: 0.7067  D(x): 0.4473    D(G(z)): 0.4466
/ 0.4933
9
[9/15][0/40]    Loss_D: 1.4963  Loss_G: 0.6174  D(x): 0.5163    D(G(z)): 0.5662
/ 0.5394
10
[10/15][0/40]   Loss_D: 1.5301  Loss_G: 0.6012  D(x): 0.4157    D(G(z)): 0.4791
/ 0.5482
11
[11/15][0/40]   Loss_D: 1.2872  Loss_G: 0.6403  D(x): 0.5524    D(G(z)): 0.5003
/ 0.5271
12
[12/15][0/40]   Loss_D: 1.4407  Loss_G: 0.7863  D(x): 0.4455    D(G(z)): 0.4685
/ 0.4555
13
```

```
[13/15][0/40]    Loss_D: 1.2786  Loss_G: 0.6786  D(x): 0.5188    D(G(z)): 0.4633
/ 0.5073
14
[14/15][0/40]    Loss_D: 1.3436  Loss_G: 0.7269  D(x): 0.5027    D(G(z)): 0.4810
/ 0.4834
```

```
train_GAN(netG1, netD1, GAN2_imgs_loader,1, 15, 30,  finetune=True)
```

```
15
[15/29][0/40]    Loss_D: 1.5327  Loss_G: 0.5822  D(x): 0.4706    D(G(z)): 0.5411
/ 0.5587
16
[16/29][0/40]    Loss_D: 1.4561  Loss_G: 0.6763  D(x): 0.5684    D(G(z)): 0.5899
/ 0.5085
17
[17/29][0/40]    Loss_D: 1.3599  Loss_G: 0.8166  D(x): 0.5252    D(G(z)): 0.5112
/ 0.4419
18
[18/29][0/40]    Loss_D: 1.4491  Loss_G: 0.8005  D(x): 0.5068    D(G(z)): 0.5367
/ 0.4491
19
[19/29][0/40]    Loss_D: 1.4566  Loss_G: 0.6645  D(x): 0.4790    D(G(z)): 0.5135
/ 0.5146
20
[20/29][0/40]    Loss_D: 1.1455  Loss_G: 0.6963  D(x): 0.5291    D(G(z)): 0.3989
/ 0.4984
21
[21/29][0/40]    Loss_D: 1.5409  Loss_G: 0.6200  D(x): 0.4747    D(G(z)): 0.5488
/ 0.5379
22
[22/29][0/40]    Loss_D: 1.2438  Loss_G: 0.7292  D(x): 0.5701    D(G(z)): 0.4943
/ 0.4823
23
[23/29][0/40]    Loss_D: 1.2727  Loss_G: 0.8002  D(x): 0.4988    D(G(z)): 0.4384
/ 0.4492
24
[24/29][0/40]    Loss_D: 1.1564  Loss_G: 0.7538  D(x): 0.5564    D(G(z)): 0.4346
/ 0.4706
25
[25/29][0/40]    Loss_D: 1.3844  Loss_G: 0.6934  D(x): 0.5069    D(G(z)): 0.5059
/ 0.4999
26
[26/29][0/40]    Loss_D: 1.5573  Loss_G: 0.5418  D(x): 0.5032    D(G(z)): 0.5812
/ 0.5817
27
[27/29][0/40]    Loss_D: 1.3143  Loss_G: 0.6397  D(x): 0.4921    D(G(z)): 0.4541
/ 0.5274
```

```
28
[28/29][0/40]    Loss_D: 1.5035  Loss_G: 0.6888  D(x): 0.4624    D(G(z)): 0.5191
/ 0.5022
29
[29/29][0/40]    Loss_D: 1.3767  Loss_G: 0.6775  D(x): 0.5137    D(G(z)): 0.5086
/ 0.5079
```

[ ]: `train_GAN(netG2, netD2, GAN3_imgs_loader,2, 0, 15,  finetune=True)`

```
0
[0/15][0/40]     Loss_D: 1.9523  Loss_G: 0.6821  D(x): 0.3336    D(G(z)): 0.5745
/ 0.5056
1
[1/15][0/40]     Loss_D: 1.6267  Loss_G: 0.4586  D(x): 0.4381    D(G(z)): 0.5513
/ 0.6321
2
[2/15][0/40]     Loss_D: 1.5892  Loss_G: 0.5380  D(x): 0.4768    D(G(z)): 0.5720
/ 0.5839
3
[3/15][0/40]     Loss_D: 1.5352  Loss_G: 0.6949  D(x): 0.3936    D(G(z)): 0.4527
/ 0.4991
4
[4/15][0/40]     Loss_D: 1.1908  Loss_G: 0.4879  D(x): 0.4647    D(G(z)): 0.3458
/ 0.6139
5
[5/15][0/40]     Loss_D: 1.4404  Loss_G: 0.6910  D(x): 0.3873    D(G(z)): 0.3885
/ 0.5011
6
[6/15][0/40]     Loss_D: 1.5548  Loss_G: 0.4648  D(x): 0.4801    D(G(z)): 0.5600
/ 0.6283
7
[7/15][0/40]     Loss_D: 1.7213  Loss_G: 0.5571  D(x): 0.3911    D(G(z)): 0.5427
/ 0.5729
8
[8/15][0/40]     Loss_D: 1.7655  Loss_G: 0.5513  D(x): 0.3325    D(G(z)): 0.4854
/ 0.5762
9
[9/15][0/40]     Loss_D: 1.2871  Loss_G: 0.5212  D(x): 0.5691    D(G(z)): 0.5149
/ 0.5938
10
[10/15][0/40]    Loss_D: 1.2821  Loss_G: 0.5698  D(x): 0.5429    D(G(z)): 0.4889
/ 0.5657
11
[11/15][0/40]    Loss_D: 1.2684  Loss_G: 0.4996  D(x): 0.6328    D(G(z)): 0.5555
/ 0.6068
12
[12/15][0/40]    Loss_D: 1.1051  Loss_G: 0.8157  D(x): 0.5044    D(G(z)): 0.3434
```

```
/ 0.4423
13
[13/15][0/40]    Loss_D: 1.5413  Loss_G: 0.5806  D(x): 0.6315    D(G(z)): 0.6610
/ 0.5595
14
[14/15][0/40]    Loss_D: 1.6869  Loss_G: 0.5957  D(x): 0.3557    D(G(z)): 0.4797
/ 0.5512
```

[ ]: `train_GAN(netG2, netD2, GAN3_imgs_loader,2, 15, 30)`

```
15
[15/29][0/40]    Loss_D: 1.2399  Loss_G: 0.5050  D(x): 0.6263    D(G(z)): 0.5379
/ 0.6035
16
[16/29][0/40]    Loss_D: 1.2945  Loss_G: 0.6872  D(x): 0.5171    D(G(z)): 0.4701
/ 0.5030
17
[17/29][0/40]    Loss_D: 1.3616  Loss_G: 0.5388  D(x): 0.5875    D(G(z)): 0.5638
/ 0.5834
18
[18/29][0/40]    Loss_D: 1.6851  Loss_G: 0.6075  D(x): 0.5399    D(G(z)): 0.6565
/ 0.5447
19
[19/29][0/40]    Loss_D: 1.4203  Loss_G: 0.5205  D(x): 0.4589    D(G(z)): 0.4734
/ 0.5942
20
[20/29][0/40]    Loss_D: 1.7313  Loss_G: 0.6750  D(x): 0.4672    D(G(z)): 0.6211
/ 0.5092
21
[21/29][0/40]    Loss_D: 1.6592  Loss_G: 0.5428  D(x): 0.5136    D(G(z)): 0.6294
/ 0.5811
22
[22/29][0/40]    Loss_D: 2.0419  Loss_G: 0.5676  D(x): 0.3621    D(G(z)): 0.6416
/ 0.5669
23
[23/29][0/40]    Loss_D: 1.4651  Loss_G: 0.8578  D(x): 0.5024    D(G(z)): 0.5401
/ 0.4241
24
[24/29][0/40]    Loss_D: 1.6597  Loss_G: 0.7072  D(x): 0.5004    D(G(z)): 0.6199
/ 0.4930
25
[25/29][0/40]    Loss_D: 1.5003  Loss_G: 0.4884  D(x): 0.5430    D(G(z)): 0.5892
/ 0.6136
26
[26/29][0/40]    Loss_D: 2.0686  Loss_G: 0.7359  D(x): 0.4106    D(G(z)): 0.6923
/ 0.4791
27
```

```
[27/29][0/40]     Loss_D: 1.3725  Loss_G: 0.9321  D(x): 0.5520     D(G(z)): 0.5408
/ 0.3937
28
[28/29][0/40]     Loss_D: 1.5260  Loss_G: 0.8309  D(x): 0.4558     D(G(z)): 0.5230
/ 0.4356
29
[29/29][0/40]     Loss_D: 1.3999  Loss_G: 0.6315  D(x): 0.5489     D(G(z)): 0.5507
/ 0.5318
```

[ ]: `train_GAN(netG3, netD3, GAN1_imgs_loader,3, 0, 15,  finetune=True)`

```
0
[0/15][0/40]     Loss_D: 1.2578  Loss_G: 0.7270  D(x): 0.4949     D(G(z)): 0.4256
/ 0.4834
1
[1/15][0/40]     Loss_D: 1.4194  Loss_G: 0.7286  D(x): 0.4792     D(G(z)): 0.4953
/ 0.4826
2
[2/15][0/40]     Loss_D: 1.6054  Loss_G: 0.7831  D(x): 0.4161     D(G(z)): 0.5174
/ 0.4570
3
[3/15][0/40]     Loss_D: 1.4056  Loss_G: 0.6739  D(x): 0.4789     D(G(z)): 0.4879
/ 0.5097
4
[4/15][0/40]     Loss_D: 1.4127  Loss_G: 0.6091  D(x): 0.4938     D(G(z)): 0.5069
/ 0.5439
5
[5/15][0/40]     Loss_D: 1.3751  Loss_G: 0.7060  D(x): 0.4820     D(G(z)): 0.4755
/ 0.4936
6
[6/15][0/40]     Loss_D: 1.2323  Loss_G: 0.7310  D(x): 0.5414     D(G(z)): 0.4614
/ 0.4814
7
[7/15][0/40]     Loss_D: 1.4375  Loss_G: 0.8366  D(x): 0.5017     D(G(z)): 0.5265
/ 0.4332
8
[8/15][0/40]     Loss_D: 1.4072  Loss_G: 0.6992  D(x): 0.5058     D(G(z)): 0.5159
/ 0.4970
9
[9/15][0/40]     Loss_D: 1.4053  Loss_G: 0.6319  D(x): 0.5520     D(G(z)): 0.5556
/ 0.5316
10
[10/15][0/40]     Loss_D: 1.4626  Loss_G: 0.7058  D(x): 0.5085     D(G(z)): 0.5445
/ 0.4937
11
[11/15][0/40]     Loss_D: 1.2783  Loss_G: 0.6507  D(x): 0.5101     D(G(z)): 0.4540
/ 0.5217
```

```
12
[12/15][0/40]    Loss_D: 1.3742  Loss_G: 0.6718  D(x): 0.4976    D(G(z)): 0.4914
/ 0.5108
13
[13/15][0/40]    Loss_D: 1.1884  Loss_G: 0.7951  D(x): 0.5578    D(G(z)): 0.4538
/ 0.4515
14
[14/15][0/40]    Loss_D: 1.4318  Loss_G: 0.6400  D(x): 0.5166    D(G(z)): 0.5376
/ 0.5273
```

```
train_GAN(netG3, netD3, GAN1_imgs_loader,3, 15, 30,  finetune=True)
```

```
15
[15/29][0/40]    Loss_D: 1.3100  Loss_G: 0.6868  D(x): 0.5237    D(G(z)): 0.4848
/ 0.5032
16
[16/29][0/40]    Loss_D: 1.3731  Loss_G: 0.8177  D(x): 0.4952    D(G(z)): 0.4885
/ 0.4414
17
[17/29][0/40]    Loss_D: 1.2315  Loss_G: 0.6641  D(x): 0.5555    D(G(z)): 0.4746
/ 0.5147
18
[18/29][0/40]    Loss_D: 1.3230  Loss_G: 0.6553  D(x): 0.5039    D(G(z)): 0.4715
/ 0.5193
19
[19/29][0/40]    Loss_D: 1.4000  Loss_G: 0.5947  D(x): 0.5023    D(G(z)): 0.5090
/ 0.5517
20
[20/29][0/40]    Loss_D: 1.5490  Loss_G: 0.6706  D(x): 0.4847    D(G(z)): 0.5617
/ 0.5114
21
[21/29][0/40]    Loss_D: 1.3885  Loss_G: 0.6203  D(x): 0.5029    D(G(z)): 0.5040
/ 0.5378
22
[22/29][0/40]    Loss_D: 1.3697  Loss_G: 0.6360  D(x): 0.5004    D(G(z)): 0.4921
/ 0.5294
23
[23/29][0/40]    Loss_D: 1.4101  Loss_G: 0.7797  D(x): 0.4840    D(G(z)): 0.4956
/ 0.4585
24
[24/29][0/40]    Loss_D: 1.4461  Loss_G: 0.6415  D(x): 0.4930    D(G(z)): 0.5223
/ 0.5265
25
[25/29][0/40]    Loss_D: 1.3713  Loss_G: 0.7230  D(x): 0.5141    D(G(z)): 0.5064
/ 0.4853
26
[26/29][0/40]    Loss_D: 1.3883  Loss_G: 0.7250  D(x): 0.5187    D(G(z)): 0.5191
```

```
/ 0.4843
27
[27/29][0/40]    Loss_D: 1.4468  Loss_G: 0.7433  D(x): 0.4690    D(G(z)): 0.4983
/ 0.4755
28
[28/29][0/40]    Loss_D: 1.3257  Loss_G: 0.6346  D(x): 0.5375    D(G(z)): 0.5059
/ 0.5301
29
[29/29][0/40]    Loss_D: 1.5565  Loss_G: 0.6160  D(x): 0.4503    D(G(z)): 0.5317
/ 0.5401
```