

基于MNIST实现生成对抗网络

```
import numpy as np
import torch
import torch.nn as nn
import torchvision
from torch.utils.data import DataLoader # 用于加载数据，可实例化
```

```
image_size = [1,28,28]
latent_dim = 96
batch_size = 64
use_gpu = torch.cuda.is_available()
```

无论是实现什么类型的GAN，都是先实现生成器和判别器，然后构建数据，然后实例化两个optimizer，
以及loss function，然后分别训练生成器和优化器（只训练各自的参数）

```
class Generator(nn.Module):
    def __init__(self): # 定义一些模块
        super(Generator, self).__init__() # 对父类实例化，因为是继承自nn.Module
        # 用Sequential来装网络层
        self.model = nn.Sequential(
            # 堆很多全连接层
            # 将参数in_dim(图片大小)写明成torch.prod(image_size, dtype=torch.int32)
            nn.Linear(latent_dim, 128),
            # 引入batchnorm可以提高收敛速度，具体做法是在生成器的Linear层后面添加
            BatchNorm1d,
            # 最后一层除外，判别器不要加
            torch.nn.BatchNorm1d(128),
            torch.nn.GELU(), # 将激活函数ReLU换成GELU效果更好

            nn.Linear(128, 256),
            torch.nn.BatchNorm1d(256),
            torch.nn.GELU(),

            nn.Linear(256, 512),
            torch.nn.BatchNorm1d(512),
            torch.nn.GELU(),

            nn.Linear(512, 1024),
            torch.nn.BatchNorm1d(1024),
            torch.nn.GELU(),

            nn.Linear(1024, np.prod(image_size, dtype=np.int32)), # 映射成图片大小
            # 输出
            nn.Tanh(),
            nn.Sigmoid(),
        )
    def forward(self, z): # 将以上模块串联起来
        # z就是高斯噪声, shape of z: [batchsize, latent_dim]
        output = self.model(z)
```

```
image = output.reshape(z.shape[0],*image_size) # image_size是一个列表，加*
变成元组
```

```
return image
```

```
class Discriminator(nn.Module): # 判别器接受一张图片作为输入，输出是经Sigmoid后的概率值
    def __init__(self):
        super(Discriminator,self).__init__() # 对父类实例化，因为是继承自nn.Module
        # 用Sequential来装网络层
        self.model = nn.Sequential(
            # 堆很多全连接层
            nn.Linear(np.prod(image_size,dtype=np.int32),512), # 输入是图片
            torch.nn.GELU(),

            nn.Linear(512, 256),
            torch.nn.GELU(),

            nn.Linear(256, 128),
            torch.nn.GELU(),

            nn.Linear(128, 64),
            torch.nn.GELU(),

            nn.Linear(64, 32),
            torch.nn.GELU(),

            nn.Linear(32, 1),
            nn.Sigmoid(),
        )
    def forward(self,image): # 将以上模块串联起来
        # shape of image:[batchsize,1,28,28]
        prob = self.model(image.reshape(image.shape[0],-1)) # reshape 4维成2维
        # 的，-1表示其他的放在一维

        return prob
```

```
# Training
# 真实图片
dataset = torchvision.datasets.MNIST("mnist_data",train=True,download=False,
                                     transform = torchvision.transforms.Compose([
                                         torchvision.transforms.Resize(28),
                                         torchvision.transforms.ToTensor(), # 将
# PIL转换Tensor
# 实际算出来的mean和std的效果不如0.5,0.5（也可以不用做归一化的transform）
# torchvision.transforms.Normalize(mean=
[0.5],std=[0.5])),
                                     ]))

# print(len(dataset))
# for i in range(len(dataset)):
#     if i<5:
#         print(dataset[i][0].shape) # 每个样本大小是1*28*28, 1为通道数
#     else:
```

```
# break
# DataLoader的作用就是将dataset中数据构成mimi_batch来做批训练
# 当你使用了batch normalization的时候, 如果batch_size设置得不合适, 又没有使用 drop_last
= true, 易出错
dataloader = DataLoader(dataset, batch_size=batch_size, shuffle=True,
drop_last=True)
# 2022.07.14注意这里是batch_size=batch_size(即64)
```

```
# 先实例化, 因为后面优化器中要求参数是迭代器
generator = Generator()
discriminator = Discriminator()

# betas表示参数 $\beta$ , weight_decay表示权重衰减(正则化)
g_optimizer = torch.optim.Adam(generator.parameters(), lr=0.0003, betas=(0.4,
0.8), weight_decay=0.0001)
d_optimizer = torch.optim.Adam(discriminator.parameters(), lr=0.0003, betas=
(0.4, 0.8), weight_decay=0.0001)

loss_fn = nn.BCELoss()
labels_one = torch.ones(batch_size, 1)
labels_zero = torch.zeros(batch_size, 1)
```

```
if use_gpu: # 有cuda
    print("use gpu for training")
    generator = generator.cuda()
    discriminator = discriminator.cuda()
    loss_fn = loss_fn.cuda()
    labels_one = labels_one.to("cuda")
    labels_zero = labels_zero.to("cuda")

num_epoch = 200

# 对照论文写博客
for epoch in range(num_epoch):
    for i, mimi_batch in enumerate(dataloader):
        gt_images, _ = mimi_batch # 真实图片, label就不要了, 写成_
        z = torch.randn(batch_size, latent_dim) # 随机生成高斯变量, latent_dim表示隐变
量维度

        if use_gpu:
            gt_images = gt_images.to("cuda")
            z = z.to("cuda")

        pred_images = generator(z) # 预测出的图片
        g_optimizer.zero_grad() # 先置零
        # print(len(gt_images))
        # print(len(pred_images))

        recons_loss = torch.abs(pred_images - gt_images).mean()
        # 把预测出的图片送入discriminator, 即论文中的  $D(G(z))$ 
        g_loss = recons_loss * 0.05 + loss_fn(discriminator(pred_images),
labels_one) # 对生成器为进行优化, 即生成的图片越接近真实的越好, 所以target为1

        g_loss.backward()
```

```

g_optimizer.step()

d_optimizer.zero_grad()
# 对照论文的优化目标函数来理解
# d_loss = 0.5*(loss_fn(discriminator(gt_images)
#                                     ,torch.ones(batch_size,1)) # 因为是BCELoss，所以要传入标
# 签，希望判别器是能够把真实的图片判别为1
# + loss_fn(discriminator(pred_images.detach())) # 因为计算d_loss不需要计算生成器部分的
# 梯度，所以detach，从计算图中分离
#                                     ,torch.zeros(batch_size,1))) # 此时希望判别器将真实图片判别
# 为0

# 为了方便观察判别器是否训练好，应该看以下两个loss
# real_loss基于真实图片，fake_loss基于生成图片
# 观察real_loss与fake_loss同时下降且同时达到最小值，并且差不多大，说明判别器已经稳
定

real_loss = loss_fn(discriminator(gt_images),labels_one)
fake_loss = loss_fn(discriminator(pred_images.detach()),labels_zero)
d_loss = 0.5*(real_loss + fake_loss)

d_loss.backward()
d_optimizer.step()

# 建议引入loss打印语句
if i % 50 == 0:
    print(f"step:{len(dataloader)*epoch+i}, recons_loss:
{recons_loss.item()}, g_loss:{g_loss.item()}, d_loss:{d_loss.item()},real_loss:
{real_loss.item()},fake_loss:{fake_loss.item()}")

    if i % 400 == 0:
        image = pred_images[:16].data
        torchvision.utils.save_image(image,
f"image_{len(dataloader)*epoch+i}.png", nrow=4)

```

```

use gpu for training
step:0, recons_loss:0.4736882448196411, g_loss:0.6996345520019531,
d_loss:0.6932847499847412,real_loss:0.6759243011474609,fake_loss:0.7106451988220
215
step:50, recons_loss:0.13849864900112152, g_loss:0.973850429058075,
d_loss:0.5187704563140869,real_loss:0.5283604264259338,fake_loss:0.5091804265975
952
step:100, recons_loss:0.16004204750061035, g_loss:0.8906609416007996,
d_loss:0.6890159249305725,real_loss:0.8434861898422241,fake_loss:0.5345456600189
209
step:150, recons_loss:0.15330849587917328, g_loss:0.8175380229949951,
d_loss:0.6969562768936157,real_loss:0.7842477560043335,fake_loss:0.6096647381782
532
step:200, recons_loss:0.15032292902469635, g_loss:0.6678354740142822,
d_loss:0.7043204307556152,real_loss:0.6118291020393372,fake_loss:0.7968118190765
381
step:250, recons_loss:0.14618299901485443, g_loss:0.6567710041999817,
d_loss:0.6591843366622925,real_loss:0.564181387424469,fake_loss:0.75418722629547
12

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step:300, recons_loss:0.14482729136943817, g_loss:0.7453327178955078,
d_loss:0.6694599986076355, real_loss:0.6768627166748047, fake_loss:0.6620572805404
663

step:350, recons_loss:0.15316936373710632, g_loss:0.9588468670845032,
d_loss:0.6431106925010681, real_loss:0.791209876537323, fake_loss:0.49501147866249
084

step:400, recons_loss:0.16514848172664642, g_loss:0.5987626910209656,
d_loss:0.6497397422790527, real_loss:0.4520273208618164, fake_loss:0.8474521636962
891

step:450, recons_loss:0.15563872456550598, g_loss:0.870925784111023,
d_loss:0.6454678773880005, real_loss:0.7344961166381836, fake_loss:0.5564396977424
622

step:500, recons_loss:0.15411455929279327, g_loss:0.5904036164283752,
d_loss:0.6873852014541626, real_loss:0.5322575569152832, fake_loss:0.8425128459930
42

step:550, recons_loss:0.15850520133972168, g_loss:0.9125420451164246,
d_loss:0.6595782041549683, real_loss:0.7928367257118225, fake_loss:0.5263196825981
14

step:600, recons_loss:0.15440520644187927, g_loss:0.8576751947402954,
d_loss:0.6922413110733032, real_loss:0.820837140083313, fake_loss:0.56364548206329
35

step:650, recons_loss:0.1556476503610611, g_loss:0.7924470901489258,
d_loss:0.6714234352111816, real_loss:0.7101911902427673, fake_loss:0.6326557397842
407

step:700, recons_loss:0.16336119174957275, g_loss:0.6897699236869812,
d_loss:0.6456262469291687, real_loss:0.5725484490394592, fake_loss:0.7187040448188
782

step:750, recons_loss:0.16230246424674988, g_loss:0.7276152968406677,
d_loss:0.6461730003356934, real_loss:0.5084032416343689, fake_loss:0.7839428186416
626

step:800, recons_loss:0.1647028625011444, g_loss:0.8605344891548157,
d_loss:0.6626418828964233, real_loss:0.7611862421035767, fake_loss:0.5640975832939
148

step:850, recons_loss:0.1564607173204422, g_loss:0.7735947966575623,
d_loss:0.6740784645080566, real_loss:0.707273006439209, fake_loss:0.64088392257690
43

step:900, recons_loss:0.1601848006248474, g_loss:0.7020807862281799,
d_loss:0.6618391275405884, real_loss:0.6189980506896973, fake_loss:0.7046802043914
795

step:937, recons_loss:0.16142284870147705, g_loss:0.8372852206230164,
d_loss:0.6932288408279419, real_loss:0.8034467101097107, fake_loss:0.5830109119415
283

step:987, recons_loss:0.15456809103488922, g_loss:0.6292603611946106,
d_loss:0.6261818408966064, real_loss:0.44632285833358765, fake_loss:0.806040823459
6252

step:1037, recons_loss:0.16303622722625732, g_loss:0.8335666060447693,
d_loss:0.6756172776222229, real_loss:0.7580170035362244, fake_loss:0.5932175517082
214

step:1087, recons_loss:0.16164597868919373, g_loss:0.8317930698394775,
d_loss:0.6373620629310608, real_loss:0.6667433381080627, fake_loss:0.6079807877540
588

step:1137, recons_loss:0.16823266446590424, g_loss:0.6635526418685913,
d_loss:0.7069135904312134, real_loss:0.6625860929489136, fake_loss:0.7512411475181
58

step:1187, recons_loss:0.15647181868553162, g_loss:0.6396658420562744,
d_loss:0.6824581027030945,real_loss:0.6000757217407227,fake_loss:0.7648404836654
663

step:1237, recons_loss:0.17080456018447876, g_loss:0.7450656294822693,
d_loss:0.7014026641845703,real_loss:0.7439797520637512,fake_loss:0.6588255167007
446

step:1287, recons_loss:0.17719709873199463, g_loss:0.7845789194107056,
d_loss:0.6510298252105713,real_loss:0.6707226037979126,fake_loss:0.6313371062278
748

step:1337, recons_loss:0.1607804000377655, g_loss:0.7750511169433594,
d_loss:0.6559741497039795,real_loss:0.672809898853302,fake_loss:0.63913840055465
7

step:1387, recons_loss:0.1513853669166565, g_loss:1.0030711889266968,
d_loss:0.6479688882827759,real_loss:0.8208487033843994,fake_loss:0.4750890135765
0757

step:1437, recons_loss:0.15329168736934662, g_loss:0.8688822984695435,
d_loss:0.5956748723983765,real_loss:0.611513078212738,fake_loss:0.57983666658401
49

step:1487, recons_loss:0.15964090824127197, g_loss:0.7016503810882568,
d_loss:0.6658945679664612,real_loss:0.6289491653442383,fake_loss:0.7028399705886
841

step:1537, recons_loss:0.15545648336410522, g_loss:0.6288150548934937,
d_loss:0.6972624659538269,real_loss:0.591362714767456,fake_loss:0.80316221714019
78

step:1587, recons_loss:0.16076111793518066, g_loss:0.793747067451477,
d_loss:0.6712539792060852,real_loss:0.7205781936645508,fake_loss:0.6219297647476
196

step:1637, recons_loss:0.16130204498767853, g_loss:0.6595103740692139,
d_loss:0.609365701675415,real_loss:0.4693141579627991,fake_loss:0.74941718578338
62

step:1687, recons_loss:0.14884281158447266, g_loss:0.6557759046554565,
d_loss:0.6903994083404541,real_loss:0.6213518381118774,fake_loss:0.7594469785690
308

step:1737, recons_loss:0.16804154217243195, g_loss:0.9041731953620911,
d_loss:0.6633186340332031,real_loss:0.7840334177017212,fake_loss:0.5426038503646
851

step:1787, recons_loss:0.15091432631015778, g_loss:0.7659988403320312,
d_loss:0.6397426128387451,real_loss:0.6347079873085022,fake_loss:0.6447771787643
433

step:1837, recons_loss:0.1642574816942215, g_loss:0.7408553957939148,
d_loss:0.6732069253921509,real_loss:0.6722020506858826,fake_loss:0.6742117404937
744

step:1874, recons_loss:0.1637437343597412, g_loss:0.6344335079193115,
d_loss:0.6662784218788147,real_loss:0.5601187944412231,fake_loss:0.7724380493164
062

step:1924, recons_loss:0.15623298287391663, g_loss:0.9063805341720581,
d_loss:0.6015720367431641,real_loss:0.6722216010093689,fake_loss:0.5309224128723
145

step:1974, recons_loss:0.15783856809139252, g_loss:0.7129713892936707,
d_loss:0.650708794593811,real_loss:0.6100262403488159,fake_loss:0.69139140844345
09

step:2024, recons_loss:0.17499828338623047, g_loss:0.6858403086662292,
d_loss:0.6921089887619019,real_loss:0.6569986939430237,fake_loss:0.7272193431854
248

step:2074, recons_loss:0.16522866487503052, g_loss:0.9238389730453491,
d_loss:0.6400018930435181, real_loss:0.7552399039268494, fake_loss:0.5247638225555
42

step:2124, recons_loss:0.16193275153636932, g_loss:0.7748368978500366,
d_loss:0.6633262634277344, real_loss:0.6862939596176147, fake_loss:0.6403585076332
092

step:2174, recons_loss:0.15278975665569305, g_loss:0.9291233420372009,
d_loss:0.654631495475769, real_loss:0.7766035795211792, fake_loss:0.53265941143035
89

step:2224, recons_loss:0.1583091914653778, g_loss:0.6849861145019531,
d_loss:0.6682772636413574, real_loss:0.6129379868507385, fake_loss:0.7236166000366
211

step:2274, recons_loss:0.1657065898180008, g_loss:0.9320001602172852,
d_loss:0.6752195358276367, real_loss:0.8256675004959106, fake_loss:0.5247716307640
076

step:2324, recons_loss:0.15930293500423431, g_loss:0.842348575592041,
d_loss:0.6587810516357422, real_loss:0.7262853384017944, fake_loss:0.5912768244743
347

step:2374, recons_loss:0.166170135140419, g_loss:0.7474555969238281,
d_loss:0.657342255115509, real_loss:0.6457623243331909, fake_loss:0.66892218589782
71

step:2424, recons_loss:0.1694435179233551, g_loss:0.6298056244850159,
d_loss:0.6738572120666504, real_loss:0.5305626392364502, fake_loss:0.8171518445014
954

step:2474, recons_loss:0.16390332579612732, g_loss:0.9546455144882202,
d_loss:0.6610949039459229, real_loss:0.8129827976226807, fake_loss:0.5092070698738
098

step:2524, recons_loss:0.1659080535173416, g_loss:0.6019406318664551,
d_loss:0.7157830595970154, real_loss:0.5387226343154907, fake_loss:0.8928434848785
4

step:2574, recons_loss:0.16132687032222748, g_loss:0.7510290741920471,
d_loss:0.6508373022079468, real_loss:0.6193102598190308, fake_loss:0.6823643445968
628

step:2624, recons_loss:0.1712551862001419, g_loss:0.6594095826148987,
d_loss:0.6726174354553223, real_loss:0.578229546546936, fake_loss:0.76700532436370
85

step:2674, recons_loss:0.1581360399723053, g_loss:0.9735592603683472,
d_loss:0.5544180274009705, real_loss:0.5780049562454224, fake_loss:0.5308310985565
186

step:2724, recons_loss:0.160291850566864, g_loss:0.7311055064201355,
d_loss:0.6583056449890137, real_loss:0.634132981300354, fake_loss:0.68247830867767
33

step:2774, recons_loss:0.15361088514328003, g_loss:0.6928738355636597,
d_loss:0.6606008410453796, real_loss:0.5833621025085449, fake_loss:0.7378395795822
144

step:2811, recons_loss:0.16055847704410553, g_loss:0.7968485355377197,
d_loss:0.6686897277832031, real_loss:0.7155161499977112, fake_loss:0.6218632459640
503

step:2861, recons_loss:0.16753816604614258, g_loss:0.7733556032180786,
d_loss:0.6466711759567261, real_loss:0.6532362103462219, fake_loss:0.6401061415672
302

step:2911, recons_loss:0.17534607648849487, g_loss:0.8179513812065125,
d_loss:0.6376026272773743, real_loss:0.6662580966949463, fake_loss:0.6089471578598
022

step:2961, recons_loss:0.15774251520633698, g_loss:0.753756046295166,
d_loss:0.6532894372940063, real_loss:0.545987069606781, fake_loss:0.76059186458587
65
step:3011, recons_loss:0.1507265865802765, g_loss:0.7250035405158997,
d_loss:0.6731455326080322, real_loss:0.6636461615562439, fake_loss:0.6826448440551
758
step:3061, recons_loss:0.16191457211971283, g_loss:0.9094497561454773,
d_loss:0.6763775944709778, real_loss:0.8116985559463501, fake_loss:0.5410566329956
055
step:3111, recons_loss:0.1588621735572815, g_loss:1.0735368728637695,
d_loss:0.6045718789100647, real_loss:0.7673240900039673, fake_loss:0.4418196678161
621
step:3161, recons_loss:0.16757820546627045, g_loss:0.5466610193252563,
d_loss:0.6896566152572632, real_loss:0.3212162256240845, fake_loss:1.0580970048904
42
step:3211, recons_loss:0.16016291081905365, g_loss:0.7244572043418884,
d_loss:0.6467565298080444, real_loss:0.601821780204773, fake_loss:0.69169127941131
59
step:3261, recons_loss:0.15630021691322327, g_loss:0.6750497817993164,
d_loss:0.6778237819671631, real_loss:0.5918049812316895, fake_loss:0.7638425827026
367
step:3311, recons_loss:0.1572457253932953, g_loss:0.7919155955314636,
d_loss:0.6170299649238586, real_loss:0.5805126428604126, fake_loss:0.6535472869873
047
step:3361, recons_loss:0.16013596951961517, g_loss:1.1147593259811401,
d_loss:0.6371744871139526, real_loss:0.8511167764663696, fake_loss:0.4232321679592
1326
step:3411, recons_loss:0.1597808450460434, g_loss:0.717737078666687,
d_loss:0.6952709555625916, real_loss:0.677733838558197, fake_loss:0.71280807256698
61
step:3461, recons_loss:0.16893038153648376, g_loss:0.77576744556427,
d_loss:0.6333274841308594, real_loss:0.5831707715988159, fake_loss:0.6834841966629
028
step:3511, recons_loss:0.15981194376945496, g_loss:0.9391895532608032,
d_loss:0.5823837518692017, real_loss:0.6299849152565002, fake_loss:0.5347826480865
479
step:3561, recons_loss:0.16013599932193756, g_loss:0.7203863859176636,
d_loss:0.6584662199020386, real_loss:0.6160925626754761, fake_loss:0.7008398771286
011
step:3611, recons_loss:0.16360849142074585, g_loss:0.7062162756919861,
d_loss:0.5375352501869202, real_loss:0.3039848208427429, fake_loss:0.7710856795310
974
step:3661, recons_loss:0.16189894080162048, g_loss:0.9977878928184509,
d_loss:0.6424775719642639, real_loss:0.8049803972244263, fake_loss:0.4799747467041
0156
step:3711, recons_loss:0.16392436623573303, g_loss:0.9106156826019287,
d_loss:0.6806837320327759, real_loss:0.7989462614059448, fake_loss:0.5624211430549
622
step:3748, recons_loss:0.165492445230484, g_loss:0.9701476693153381,
d_loss:0.5898189544677734, real_loss:0.6762655973434448, fake_loss:0.5033722519874
573
step:3798, recons_loss:0.168157696723938, g_loss:1.322824478149414,
d_loss:0.6495004892349243, real_loss:0.9394827485084534, fake_loss:0.3595182299613
9526

step:3848, recons_loss:0.16882891952991486, g_loss:0.9261760711669922,
d_loss:0.6302183866500854, real_loss:0.7066462635993958, fake_loss:0.5537905693054
199

step:3898, recons_loss:0.16060462594032288, g_loss:1.0115134716033936,
d_loss:0.6500557661056519, real_loss:0.8120890855789185, fake_loss:0.4880225062370
3003

step:3948, recons_loss:0.15487681329250336, g_loss:0.7175077199935913,
d_loss:0.6121847033500671, real_loss:0.4823806881904602, fake_loss:0.7419887185096
741

step:3998, recons_loss:0.16269628703594208, g_loss:0.817773163318634,
d_loss:0.6059755682945251, real_loss:0.6131794452667236, fake_loss:0.5987716913223
267

step:4048, recons_loss:0.1610713005065918, g_loss:0.9016106128692627,
d_loss:0.6007280349731445, real_loss:0.658259391784668, fake_loss:0.54319673776626
59

step:4098, recons_loss:0.15872706472873688, g_loss:0.9648914933204651,
d_loss:0.5770250558853149, real_loss:0.6352401971817017, fake_loss:0.5188099741935
73

step:4148, recons_loss:0.1700187772512436, g_loss:0.8216649293899536,
d_loss:0.673856258392334, real_loss:0.7346906065940857, fake_loss:0.61302196979522
7

step:4198, recons_loss:0.1549016386270523, g_loss:0.81562739610672,
d_loss:0.5395687222480774, real_loss:0.44705110788345337, fake_loss:0.632086336612
7014

step:4248, recons_loss:0.1700841188430786, g_loss:0.8136792778968811,
d_loss:0.5506938099861145, real_loss:0.4459571838378906, fake_loss:0.6554304361343
384

step:4298, recons_loss:0.1569211483001709, g_loss:0.8653002977371216,
d_loss:0.5464308261871338, real_loss:0.4205009341239929, fake_loss:0.6723607778549
194

step:4348, recons_loss:0.1677926927804947, g_loss:0.6697385311126709,
d_loss:0.6419447660446167, real_loss:0.34484294056892395, fake_loss:0.939046621322
6318

step:4398, recons_loss:0.1566489040851593, g_loss:0.6597942113876343,
d_loss:0.6406373977661133, real_loss:0.3571532368659973, fake_loss:0.9241214990615
845

step:4448, recons_loss:0.1593388468027115, g_loss:0.9173277616500854,
d_loss:0.5848675966262817, real_loss:0.5783496499061584, fake_loss:0.5913854837417
603

step:4498, recons_loss:0.1668965369462967, g_loss:0.9447310566902161,
d_loss:0.5925416946411133, real_loss:0.6673930883407593, fake_loss:0.5176903009414
673

step:4548, recons_loss:0.15111865103244781, g_loss:1.0777323246002197,
d_loss:0.5414839386940002, real_loss:0.6233367919921875, fake_loss:0.4596310853958
13

step:4598, recons_loss:0.165309876203537, g_loss:0.8608354330062866,
d_loss:0.6013513803482056, real_loss:0.5603810548782349, fake_loss:0.6423217058181
763

step:4648, recons_loss:0.16292501986026764, g_loss:1.1102616786956787,
d_loss:0.6598132848739624, real_loss:0.9037297964096069, fake_loss:0.4158968329429
6265

step:4685, recons_loss:0.16254019737243652, g_loss:0.7109843492507935,
d_loss:0.6381435394287109, real_loss:0.5331594944000244, fake_loss:0.7431275248527
527

step:4735, recons_loss:0.15915192663669586, g_loss:0.7044597864151001,
d_loss:0.6283794641494751, real_loss:0.5185683965682983, fake_loss:0.7381905913352
966
step:4785, recons_loss:0.16852355003356934, g_loss:0.7787689566612244,
d_loss:0.558315634727478, real_loss:0.42179805040359497, fake_loss:0.6948332786560
059
step:4835, recons_loss:0.15699224174022675, g_loss:0.8913361430168152,
d_loss:0.6060264110565186, real_loss:0.6534661054611206, fake_loss:0.5585867166519
165
step:4885, recons_loss:0.16679434478282928, g_loss:0.8628746867179871,
d_loss:0.5821173191070557, real_loss:0.5844665765762329, fake_loss:0.5797680020332
336
step:4935, recons_loss:0.16908863186836243, g_loss:0.7873709201812744,
d_loss:0.5954173803329468, real_loss:0.4837958812713623, fake_loss:0.7070388793945
312
step:4985, recons_loss:0.16268160939216614, g_loss:0.6806104779243469,
d_loss:0.6313319206237793, real_loss:0.3057790994644165, fake_loss:0.9568847417831
421
step:5035, recons_loss:0.16448649764060974, g_loss:1.024863362312317,
d_loss:0.5994601845741272, real_loss:0.7213885188102722, fake_loss:0.4775318503379
822
step:5085, recons_loss:0.16060061752796173, g_loss:0.7872622013092041,
d_loss:0.5891883373260498, real_loss:0.5022814273834229, fake_loss:0.6760951876640
32
step:5135, recons_loss:0.15871672332286835, g_loss:0.9075918793678284,
d_loss:0.5656386017799377, real_loss:0.5537687540054321, fake_loss:0.5775084495544
434
step:5185, recons_loss:0.1629890650510788, g_loss:1.14704430103302,
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494
step:5235, recons_loss:0.16385963559150696, g_loss:0.9295031428337097,
d_loss:0.579768717288971, real_loss:0.6232069730758667, fake_loss:0.53633046150207
52
step:5285, recons_loss:0.1733480542898178, g_loss:1.052170991897583,
d_loss:0.5208272337913513, real_loss:0.462020605802536, fake_loss:0.57963383197784
42
step:5335, recons_loss:0.16409599781036377, g_loss:0.8148316740989685,
d_loss:0.6576715707778931, real_loss:0.5755003094673157, fake_loss:0.7398427724838
257
step:5385, recons_loss:0.16532573103904724, g_loss:0.7532697319984436,
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step:5435, recons_loss:0.1638319045305252, g_loss:1.1823396682739258,
d_loss:0.4816111922264099, real_loss:0.49702775478363037, fake_loss:0.466194629669
18945
step:5485, recons_loss:0.16526535153388977, g_loss:0.6548857688903809,
d_loss:0.6661134362220764, real_loss:0.4371715784072876, fake_loss:0.8950552940368
652
step:5535, recons_loss:0.1658816784620285, g_loss:0.9567904472351074,
d_loss:0.5726875066757202, real_loss:0.6077837944030762, fake_loss:0.5375912189483
643
step:5585, recons_loss:0.16748209297657013, g_loss:1.144288182258606,
d_loss:0.5949158668518066, real_loss:0.7519229650497437, fake_loss:0.4379087686538
6963

step:5622, recons_loss:0.16909688711166382, g_loss:0.8003681302070618,
d_loss:0.5734317302703857, real_loss:0.44725367426872253, fake_loss:0.699609816074
3713

step:5672, recons_loss:0.1655120849609375, g_loss:0.950667679309845,
d_loss:0.60867840051651, real_loss:0.6092270612716675, fake_loss:0.608129739761352
5

step:5722, recons_loss:0.16075731813907623, g_loss:0.9403579831123352,
d_loss:0.615893542766571, real_loss:0.6032273769378662, fake_loss:0.62855970859527
59

step:5772, recons_loss:0.16507646441459656, g_loss:1.414433240890503,
d_loss:0.5420286655426025, real_loss:0.7733522653579712, fake_loss:0.3107050061225
891

step:5822, recons_loss:0.16944807767868042, g_loss:0.9334226250648499,
d_loss:0.5656388998031616, real_loss:0.5912744402885437, fake_loss:0.5400032997131
348

step:5872, recons_loss:0.16280072927474976, g_loss:1.3039182424545288,
d_loss:0.6073176860809326, real_loss:0.8630607724189758, fake_loss:0.3515746295452
118

step:5922, recons_loss:0.1658041924238205, g_loss:1.098503589630127,
d_loss:0.5264504551887512, real_loss:0.5671864748001099, fake_loss:0.4857144355773
926

step:5972, recons_loss:0.1636675000190735, g_loss:0.9190042614936829,
d_loss:0.5908734798431396, real_loss:0.62281733751297, fake_loss:0.558929562568664
6

step:6022, recons_loss:0.16144295036792755, g_loss:0.9912252426147461,
d_loss:0.5583147406578064, real_loss:0.5256973505020142, fake_loss:0.5909321308135
986

step:6072, recons_loss:0.16680790483951569, g_loss:1.1949268579483032,
d_loss:0.49839356541633606, real_loss:0.5553491711616516, fake_loss:0.441437959671
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step:6122, recons_loss:0.162122905254364, g_loss:1.39055597782135,
d_loss:0.598802924156189, real_loss:0.8772666454315186, fake_loss:0.32033920288085
94

step:6172, recons_loss:0.16917827725410461, g_loss:1.1659008264541626,
d_loss:0.6494991779327393, real_loss:0.907308042049408, fake_loss:0.39169028401374
817

step:6222, recons_loss:0.16432812809944153, g_loss:1.203281283378601,
d_loss:0.5838547348976135, real_loss:0.7832129001617432, fake_loss:0.3844965398311
615

step:6272, recons_loss:0.15612798929214478, g_loss:1.2827812433242798,
d_loss:0.41200369596481323, real_loss:0.4544418752193451, fake_loss:0.369565546512
60376

step:6322, recons_loss:0.16535276174545288, g_loss:1.5049517154693604,
d_loss:0.48549699783325195, real_loss:0.6802437901496887, fake_loss:0.290750205516
8152

step:6372, recons_loss:0.16548791527748108, g_loss:1.463982105255127,
d_loss:0.5771265029907227, real_loss:0.8380838632583618, fake_loss:0.3161690831184
387

step:6422, recons_loss:0.1629534512758255, g_loss:1.1088892221450806,
d_loss:0.5539346933364868, real_loss:0.6227432489395142, fake_loss:0.4851261079311
371

step:6472, recons_loss:0.16982950270175934, g_loss:0.9292050004005432,
d_loss:0.5686534643173218, real_loss:0.58836430311203, fake_loss:0.548942565917968
8

step:6522, recons_loss:0.16284805536270142, g_loss:1.1134817600250244,
d_loss:0.5586061477661133, real_loss:0.6638664603233337, fake_loss:0.4533458352088
928

step:6559, recons_loss:0.1641179323196411, g_loss:1.3368102312088013,
d_loss:0.4853570759296417, real_loss:0.6409233808517456, fake_loss:0.3297907710075
3784

step:6609, recons_loss:0.16193625330924988, g_loss:0.7823259830474854,
d_loss:0.5761165618896484, real_loss:0.4006240665912628, fake_loss:0.7516090869903
564

step:6659, recons_loss:0.16571426391601562, g_loss:1.1848219633102417,
d_loss:0.5271224975585938, real_loss:0.6501640677452087, fake_loss:0.4040808677673
34

step:6709, recons_loss:0.17619186639785767, g_loss:1.227756381034851,
d_loss:0.4792839586734772, real_loss:0.5672485828399658, fake_loss:0.3913193345069
885

step:6759, recons_loss:0.16551491618156433, g_loss:0.8658467531204224,
d_loss:0.6152540445327759, real_loss:0.49096614122390747, fake_loss:0.739541888236
9995

step:6809, recons_loss:0.16732434928417206, g_loss:1.092223048210144,
d_loss:0.5597004294395447, real_loss:0.6736448407173157, fake_loss:0.4457560181617
737

step:6859, recons_loss:0.15903277695178986, g_loss:0.9915649890899658,
d_loss:0.5981958508491516, real_loss:0.7055260539054871, fake_loss:0.4908656179904
938

step:6909, recons_loss:0.16639915108680725, g_loss:1.0172325372695923,
d_loss:0.48444074392318726, real_loss:0.3883178234100342, fake_loss:0.580563664436
3403

step:6959, recons_loss:0.17563003301620483, g_loss:1.0629234313964844,
d_loss:0.5017004609107971, real_loss:0.4474918842315674, fake_loss:0.5559090375900
269

step:7009, recons_loss:0.17264926433563232, g_loss:0.8940550684928894,
d_loss:0.4425278902053833, real_loss:0.22967946529388428, fake_loss:0.655376315116
8823

step:7059, recons_loss:0.1637030988931656, g_loss:1.3856524229049683,
d_loss:0.4888339638710022, real_loss:0.660431981086731, fake_loss:0.31723594665527
344

step:7109, recons_loss:0.16654309630393982, g_loss:1.2731006145477295,
d_loss:0.5823173522949219, real_loss:0.7797526121139526, fake_loss:0.3848820924758
911

step:7159, recons_loss:0.15746551752090454, g_loss:1.2432541847229004,
d_loss:0.46310603618621826, real_loss:0.5486302375793457, fake_loss:0.377581804990
76843

step:7209, recons_loss:0.16705940663814545, g_loss:1.034006953239441,
d_loss:0.49337324500083923, real_loss:0.44623321294784546, fake_loss:0.54051327705
3833

step:7259, recons_loss:0.16585135459899902, g_loss:1.0781476497650146,
d_loss:0.5236406326293945, real_loss:0.5393854379653931, fake_loss:0.5078958272933
96

step:7309, recons_loss:0.17442812025547028, g_loss:1.05008864402771,
d_loss:0.5004818439483643, real_loss:0.4128827154636383, fake_loss:0.5880810022354
126

step:7359, recons_loss:0.17582958936691284, g_loss:1.3352993726730347,
d_loss:0.48169100284576416, real_loss:0.6216856837272644, fake_loss:0.341696321964
2639

step:7409, recons_loss:0.1667579561471939, g_loss:1.099753975868225,
d_loss:0.4944809079170227, real_loss:0.5455069541931152, fake_loss:0.4434548914432
5256

step:7459, recons_loss:0.16374288499355316, g_loss:1.1149126291275024,
d_loss:0.5099409818649292, real_loss:0.5520339012145996, fake_loss:0.4678480029106
14

step:7496, recons_loss:0.16336601972579956, g_loss:1.1534696817398071,
d_loss:0.5514205098152161, real_loss:0.6772937774658203, fake_loss:0.4255472123622
8943

step:7546, recons_loss:0.17078082263469696, g_loss:1.3814443349838257,
d_loss:0.6250827312469482, real_loss:0.9221921563148499, fake_loss:0.3279733657836
914

step:7596, recons_loss:0.16563446819782257, g_loss:1.0743708610534668,
d_loss:0.5325896143913269, real_loss:0.5053424835205078, fake_loss:0.5598367452621
46

step:7646, recons_loss:0.17459382116794586, g_loss:1.3426393270492554,
d_loss:0.4744092524051666, real_loss:0.6109586954116821, fake_loss:0.3378598093986
511

step:7696, recons_loss:0.1719692498445511, g_loss:1.0982168912887573,
d_loss:0.5098694562911987, real_loss:0.5511173605918884, fake_loss:0.4686215221881
8665

step:7746, recons_loss:0.16035158932209015, g_loss:1.3478806018829346,
d_loss:0.548321008682251, real_loss:0.7104922533035278, fake_loss:0.38614973425865
173

step:7796, recons_loss:0.16608957946300507, g_loss:0.8918433785438538,
d_loss:0.5516776442527771, real_loss:0.44543033838272095, fake_loss:0.657924950122
8333

step:7846, recons_loss:0.16058015823364258, g_loss:1.1968119144439697,
d_loss:0.4076540470123291, real_loss:0.3344992995262146, fake_loss:0.4808087944984
436

step:7896, recons_loss:0.163019061088562, g_loss:1.1506067514419556,
d_loss:0.48090797662734985, real_loss:0.47608548402786255, fake_loss:0.48573043942
451477

step:7946, recons_loss:0.15283523499965668, g_loss:1.0465316772460938,
d_loss:0.49103081226348877, real_loss:0.3893046975135803, fake_loss:0.592756927013
3972

step:7996, recons_loss:0.16032005846500397, g_loss:0.9808312654495239,
d_loss:0.5229833126068115, real_loss:0.47949689626693726, fake_loss:0.566469669342
041

step:8046, recons_loss:0.16204090416431427, g_loss:1.0791505575180054,
d_loss:0.4097692668437958, real_loss:0.31560832262039185, fake_loss:0.503930211067
1997

step:8096, recons_loss:0.1557941734790802, g_loss:1.3387435674667358,
d_loss:0.4396320879459381, real_loss:0.5564451217651367, fake_loss:0.3228190541267
395

step:8146, recons_loss:0.16159206628799438, g_loss:1.1186615228652954,
d_loss:0.5528095364570618, real_loss:0.5717633962631226, fake_loss:0.5338556766510
01

step:8196, recons_loss:0.16637690365314484, g_loss:1.2179368734359741,
d_loss:0.4506298899650574, real_loss:0.4648340046405792, fake_loss:0.4364257454872
1313

step:8246, recons_loss:0.15787310898303986, g_loss:1.1504768133163452,
d_loss:0.4863602817058563, real_loss:0.4896230101585388, fake_loss:0.4830975532531
7383

step:8296, recons_loss:0.1588030755519867, g_loss:1.0617127418518066,
d_loss:0.539032518863678, real_loss:0.31996119022369385, fake_loss:0.7581038475036
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step:8346, recons_loss:0.17130237817764282, g_loss:1.36257004737854,
d_loss:0.5442055463790894, real_loss:0.7621080875396729, fake_loss:0.3263030648231
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step:8396, recons_loss:0.1661149263381958, g_loss:0.9297735095024109,
d_loss:0.5094040632247925, real_loss:0.3490937650203705, fake_loss:0.6697143316268
921
step:8433, recons_loss:0.16416911780834198, g_loss:1.1527373790740967,
d_loss:0.4766678810119629, real_loss:0.46132299304008484, fake_loss:0.492012739181
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step:8483, recons_loss:0.16589263081550598, g_loss:1.1072356700897217,
d_loss:0.4724791347980499, real_loss:0.3727537989616394, fake_loss:0.5722044706344
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step:8533, recons_loss:0.158174067735672, g_loss:1.1038795709609985,
d_loss:0.5112043619155884, real_loss:0.5509876608848572, fake_loss:0.4714210927486
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step:8583, recons_loss:0.16651983559131622, g_loss:0.7187243103981018,
d_loss:0.6813151240348816, real_loss:0.36340758204460144, fake_loss:0.999222636222
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step:8633, recons_loss:0.16072222590446472, g_loss:1.2917852401733398,
d_loss:0.4886762201786041, real_loss:0.588984489440918, fake_loss:0.38836795091629
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step:8683, recons_loss:0.16006596386432648, g_loss:1.1636162996292114,
d_loss:0.4429100751876831, real_loss:0.40739911794662476, fake_loss:0.478421002626
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step:8733, recons_loss:0.16896380484104156, g_loss:1.0953552722930908,
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264
step:8783, recons_loss:0.16256576776504517, g_loss:1.5070521831512451,
d_loss:0.39909273386001587, real_loss:0.5144795179367065, fake_loss:0.283705979585
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step:8833, recons_loss:0.16403038799762726, g_loss:1.6117032766342163,
d_loss:0.39029309153556824, real_loss:0.51514732837677, fake_loss:0.26543885469436
646
step:8883, recons_loss:0.16523316502571106, g_loss:1.4955716133117676,
d_loss:0.5163192749023438, real_loss:0.7155821919441223, fake_loss:0.3170563578605
652
step:8933, recons_loss:0.15837925672531128, g_loss:1.5527667999267578,
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step:8983, recons_loss:0.15674419701099396, g_loss:1.1327942609786987,
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step:9033, recons_loss:0.16047368943691254, g_loss:1.141722559928894,
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step:9083, recons_loss:0.16253814101219177, g_loss:1.1748846769332886,
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step:9133, recons_loss:0.15805308520793915, g_loss:1.315604567527771,
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1426

step:9183, recons_loss:0.16155892610549927, g_loss:1.1300941705703735,
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56
step:9233, recons_loss:0.15868528187274933, g_loss:1.080175757408142,
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step:9283, recons_loss:0.168692484498024, g_loss:1.1770685911178589,
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step:9333, recons_loss:0.1577572375535965, g_loss:1.0585503578186035,
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98
step:9370, recons_loss:0.15229679644107819, g_loss:1.3297431468963623,
d_loss:0.443545937538147,real_loss:0.4836377203464508,fake_loss:0.40345412492752
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step:9420, recons_loss:0.16010712087154388, g_loss:1.3376377820968628,
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step:9470, recons_loss:0.155816450715065, g_loss:1.0277515649795532,
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step:9520, recons_loss:0.1563522070646286, g_loss:1.2400318384170532,
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996
step:9570, recons_loss:0.16506654024124146, g_loss:1.2971749305725098,
d_loss:0.3811311423778534,real_loss:0.3507779836654663,fake_loss:0.4114843010902
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step:9620, recons_loss:0.16732648015022278, g_loss:1.3291962146759033,
d_loss:0.42299216985702515,real_loss:0.4706891179084778,fake_loss:0.375295221805
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step:9670, recons_loss:0.16460317373275757, g_loss:1.2055410146713257,
d_loss:0.43618714809417725,real_loss:0.42482343316078186,fake_loss:0.44755083322
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step:9720, recons_loss:0.16555100679397583, g_loss:1.7238202095031738,
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248
step:9770, recons_loss:0.16981597244739532, g_loss:1.3709697723388672,
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step:9820, recons_loss:0.1638992428779602, g_loss:1.1734974384307861,
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step:9870, recons_loss:0.16709992289543152, g_loss:1.3960909843444824,
d_loss:0.4368293583393097,real_loss:0.5060567855834961,fake_loss:0.3676019310951
233
step:9920, recons_loss:0.15175579488277435, g_loss:1.1402931213378906,
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step:9970, recons_loss:0.16166597604751587, g_loss:1.3872658014297485,
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step:10020, recons_loss:0.1506958305835724, g_loss:1.1394720077514648,
d_loss:0.5631844997406006,real_loss:0.5294935703277588,fake_loss:0.5968754291534
424

step:10070, recons_loss:0.1580430567264557, g_loss:1.1000268459320068,
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step:10120, recons_loss:0.15760935842990875, g_loss:1.2149310111999512,
d_loss:0.49065837264060974, real_loss:0.5827732086181641, fake_loss:0.398543536663
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step:10170, recons_loss:0.16095775365829468, g_loss:0.9550806879997253,
d_loss:0.4866545498371124, real_loss:0.27454298734664917, fake_loss:0.698766112327
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step:10220, recons_loss:0.1691734492778778, g_loss:1.1126203536987305,
d_loss:0.4363763630390167, real_loss:0.3630238175392151, fake_loss:0.5097289085388
184

step:10270, recons_loss:0.1653549075126648, g_loss:1.5759607553482056,
d_loss:0.5004473924636841, real_loss:0.6870984435081482, fake_loss:0.3137963414192
1997

step:10307, recons_loss:0.16502675414085388, g_loss:1.1644123792648315,
d_loss:0.4567824602127075, real_loss:0.38145050406455994, fake_loss:0.532114386558
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step:10357, recons_loss:0.15392017364501953, g_loss:1.5461034774780273,
d_loss:0.4519176185131073, real_loss:0.6037486791610718, fake_loss:0.3000865578651
428

step:10407, recons_loss:0.15692612528800964, g_loss:1.5881682634353638,
d_loss:0.48481836915016174, real_loss:0.6745023727416992, fake_loss:0.295134365558
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step:10457, recons_loss:0.1561402827501297, g_loss:1.4025205373764038,
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141

step:10507, recons_loss:0.16695187985897064, g_loss:1.4149665832519531,
d_loss:0.42884668707847595, real_loss:0.4878574311733246, fake_loss:0.369835942983
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step:10557, recons_loss:0.15779593586921692, g_loss:1.1486222743988037,
d_loss:0.4979012906551361, real_loss:0.45919328927993774, fake_loss:0.536609292030
3345

step:10607, recons_loss:0.1647363156080246, g_loss:1.6140385866165161,
d_loss:0.5679274797439575, real_loss:0.7938135862350464, fake_loss:0.3420414328575
134

step:10657, recons_loss:0.166875958442688, g_loss:1.0152759552001953,
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625

step:10707, recons_loss:0.1562269628047943, g_loss:1.5430017709732056,
d_loss:0.5153480768203735, real_loss:0.7505059838294983, fake_loss:0.2801902294158
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step:10757, recons_loss:0.17145253717899323, g_loss:1.3385357856750488,
d_loss:0.4719544053077698, real_loss:0.4569891095161438, fake_loss:0.4869197309017
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step:10807, recons_loss:0.16496162116527557, g_loss:1.5751547813415527,
d_loss:0.4615158438682556, real_loss:0.6439086198806763, fake_loss:0.2791230678558
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step:10857, recons_loss:0.1593637764453888, g_loss:1.3873989582061768,
d_loss:0.49350324273109436, real_loss:0.5849117636680603, fake_loss:0.402094721794
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step:10907, recons_loss:0.16012045741081238, g_loss:1.0188182592391968,
d_loss:0.5088152885437012, real_loss:0.33805161714553833, fake_loss:0.679579019546
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step:10957, recons_loss:0.16031064093112946, g_loss:1.3931490182876587,
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step:11007, recons_loss:0.15941298007965088, g_loss:1.3190665245056152,
d_loss:0.4925225079059601, real_loss:0.6290156841278076, fake_loss:0.3560293316841
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step:11057, recons_loss:0.1605287492275238, g_loss:1.3610895872116089,
d_loss:0.4994584321975708, real_loss:0.6443510055541992, fake_loss:0.3545658886432
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step:11107, recons_loss:0.1516018658876419, g_loss:1.0942516326904297,
d_loss:0.4979901909828186, real_loss:0.4766288995742798, fake_loss:0.5193514823913
574
step:11157, recons_loss:0.1598598062992096, g_loss:1.7115838527679443,
d_loss:0.4785430431365967, real_loss:0.7092366814613342, fake_loss:0.2478494197130
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step:11207, recons_loss:0.1641489565372467, g_loss:1.5636788606643677,
d_loss:0.4852268099784851, real_loss:0.6803042888641357, fake_loss:0.2901493310928
345
step:11244, recons_loss:0.15610434114933014, g_loss:1.20396089553833,
d_loss:0.4461446702480316, real_loss:0.4620170593261719, fake_loss:0.4302722811698
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step:11294, recons_loss:0.16604578495025635, g_loss:1.2188034057617188,
d_loss:0.5020217299461365, real_loss:0.5650349259376526, fake_loss:0.4390085637569
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step:11344, recons_loss:0.1532437950372696, g_loss:1.3883098363876343,
d_loss:0.48144853115081787, real_loss:0.6353205442428589, fake_loss:0.327576547861
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step:11394, recons_loss:0.15738600492477417, g_loss:1.073096752166748,
d_loss:0.40857604146003723, real_loss:0.28462010622024536, fake_loss:0.53253197669
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step:11444, recons_loss:0.15876968204975128, g_loss:1.341025471687317,
d_loss:0.4516124725341797, real_loss:0.5155947208404541, fake_loss:0.3876302242279
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step:11494, recons_loss:0.15304677188396454, g_loss:1.4178717136383057,
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step:11544, recons_loss:0.16475677490234375, g_loss:1.5017948150634766,
d_loss:0.3676493763923645, real_loss:0.3959597945213318, fake_loss:0.3393389582633
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step:11594, recons_loss:0.1637936532497406, g_loss:1.455262541770935,
d_loss:0.45205843448638916, real_loss:0.5151417255401611, fake_loss:0.388975173234
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step:11644, recons_loss:0.16979852318763733, g_loss:1.260571002960205,
d_loss:0.35955655574798584, real_loss:0.2687021493911743, fake_loss:0.450410962104
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step:11694, recons_loss:0.16254298388957977, g_loss:1.2668217420578003,
d_loss:0.43218547105789185, real_loss:0.38107502460479736, fake_loss:0.48329591751
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step:11744, recons_loss:0.159042090177536, g_loss:1.2630215883255005,
d_loss:0.5223796367645264, real_loss:0.48354923725128174, fake_loss:0.561210036277
771
step:11794, recons_loss:0.16236552596092224, g_loss:1.1167372465133667,
d_loss:0.5523780584335327, real_loss:0.48718035221099854, fake_loss:0.617575764656
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step:11844, recons_loss:0.1609117090702057, g_loss:1.0973057746887207,
d_loss:0.4486391246318817, real_loss:0.3844372630119324, fake_loss:0.5128409862518
31
step:11894, recons_loss:0.15662232041358948, g_loss:1.6050825119018555,
d_loss:0.43934381008148193, real_loss:0.6154327392578125, fake_loss:0.263254880905
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step:11944, recons_loss:0.16435126960277557, g_loss:1.2186739444732666,
d_loss:0.39811933040618896, real_loss:0.3483062982559204, fake_loss:0.447932362556
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step:11994, recons_loss:0.15663830935955048, g_loss:1.7661162614822388,
d_loss:0.4747295379638672, real_loss:0.7197874188423157, fake_loss:0.2296716868877
411
step:12044, recons_loss:0.1674720197916031, g_loss:1.755111813545227,
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step:12094, recons_loss:0.157927468419075, g_loss:1.3250941038131714,
d_loss:0.4331431984901428, real_loss:0.4877534806728363, fake_loss:0.3785329461097
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step:12144, recons_loss:0.16030006110668182, g_loss:1.306350827217102,
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step:12181, recons_loss:0.16512422263622284, g_loss:1.3027175664901733,
d_loss:0.4329764246940613, real_loss:0.40865805745124817, fake_loss:0.457294762134
552
step:12231, recons_loss:0.1585521101951599, g_loss:1.343769907951355,
d_loss:0.47710809111595154, real_loss:0.5290532112121582, fake_loss:0.425162971019
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step:12281, recons_loss:0.15484240651130676, g_loss:1.207951545715332,
d_loss:0.38866668939590454, real_loss:0.3000534176826477, fake_loss:0.477279961109
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step:12331, recons_loss:0.15328140556812286, g_loss:1.5413795709609985,
d_loss:0.3895108699798584, real_loss:0.4800572395324707, fake_loss:0.2989644706249
237
step:12381, recons_loss:0.16287754476070404, g_loss:1.48616361618042,
d_loss:0.46550488471984863, real_loss:0.5784589052200317, fake_loss:0.352550864219
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step:12431, recons_loss:0.16023655235767365, g_loss:1.3334400653839111,
d_loss:0.43693026900291443, real_loss:0.4415179491043091, fake_loss:0.432342588901
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step:12481, recons_loss:0.1598362922668457, g_loss:1.2297039031982422,
d_loss:0.41374140977859497, real_loss:0.42969709634780884, fake_loss:0.39778569340
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step:12531, recons_loss:0.1547703742980957, g_loss:1.5097858905792236,
d_loss:0.3491590619087219, real_loss:0.3563768267631531, fake_loss:0.3419412970542
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step:12581, recons_loss:0.154485285282135, g_loss:1.3702493906021118,
d_loss:0.5216327905654907, real_loss:0.6425411105155945, fake_loss:0.4007244110107
422
step:12631, recons_loss:0.1521334946155548, g_loss:1.2639802694320679,
d_loss:0.4571002423763275, real_loss:0.5115151405334473, fake_loss:0.4026853442192
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step:12681, recons_loss:0.16088803112506866, g_loss:1.3240841627120972,
d_loss:0.5143741369247437, real_loss:0.6762651205062866, fake_loss:0.3524831533432
007

step:12731, recons_loss:0.1611548364162445, g_loss:1.350865125656128,
d_loss:0.4308536648750305, real_loss:0.49718254804611206, fake_loss:0.364524781703
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step:12781, recons_loss:0.16384287178516388, g_loss:1.1866601705551147,
d_loss:0.4511319100856781, real_loss:0.3359583020210266, fake_loss:0.5663055181503
296

step:12831, recons_loss:0.16470496356487274, g_loss:1.3959550857543945,
d_loss:1.1975805759429932, real_loss:0.49976450204849243, fake_loss:1.895396709442
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step:12881, recons_loss:0.15881924331188202, g_loss:1.4799050092697144,
d_loss:0.3196992874145508, real_loss:0.3324916362762451, fake_loss:0.3069069385528
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step:12931, recons_loss:0.16222359240055084, g_loss:1.260381817817688,
d_loss:0.4434899091720581, real_loss:0.490838885307312, fake_loss:0.39614096283912
66

step:12981, recons_loss:0.1598920077085495, g_loss:1.382664442062378,
d_loss:0.5734041929244995, real_loss:0.7352632880210876, fake_loss:0.4115450978279
114

step:13031, recons_loss:0.16603738069534302, g_loss:1.3091520071029663,
d_loss:0.43340688943862915, real_loss:0.40961527824401855, fake_loss:0.45719847083
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step:13081, recons_loss:0.15355844795703888, g_loss:1.487978458404541,
d_loss:0.5149118304252625, real_loss:0.730872392654419, fake_loss:0.29895129799842
834

step:13118, recons_loss:0.1714751273393631, g_loss:1.1147311925888062,
d_loss:0.5068885087966919, real_loss:0.468858003616333, fake_loss:0.54491901397705
08

step:13168, recons_loss:0.16659262776374817, g_loss:1.4866669178009033,
d_loss:0.4371928572654724, real_loss:0.48749086260795593, fake_loss:0.386894822120
6665

step:13218, recons_loss:0.16054114699363708, g_loss:1.3718500137329102,
d_loss:0.5211250185966492, real_loss:0.688956618309021, fake_loss:0.35329344868659
973

step:13268, recons_loss:0.16272640228271484, g_loss:1.1047158241271973,
d_loss:0.44318506121635437, real_loss:0.34449857473373413, fake_loss:0.54187154769
89746

step:13318, recons_loss:0.1686047464609146, g_loss:1.5500186681747437,
d_loss:0.41055214405059814, real_loss:0.5292052030563354, fake_loss:0.291899085044
86084

step:13368, recons_loss:0.1541394144296646, g_loss:1.3082536458969116,
d_loss:0.547173023223877, real_loss:0.6217840909957886, fake_loss:0.47256198525428
77

step:13418, recons_loss:0.16367371380329132, g_loss:1.225372076034546,
d_loss:0.5517711043357849, real_loss:0.5993380546569824, fake_loss:0.5042041540145
874

step:13468, recons_loss:0.14928403496742249, g_loss:1.429319143295288,
d_loss:0.38440197706222534, real_loss:0.3599082827568054, fake_loss:0.408895671367
64526

step:13518, recons_loss:0.16435889899730682, g_loss:1.2283639907836914,
d_loss:0.5027093291282654, real_loss:0.5598013401031494, fake_loss:0.4456173479557
0374

step:13568, recons_loss:0.16303125023841858, g_loss:1.4695665836334229,
d_loss:0.4419255554676056, real_loss:0.5477654933929443, fake_loss:0.3360856175422
6685

step:13618, recons_loss:0.1617807000875473, g_loss:1.3584671020507812,
d_loss:0.38369041681289673, real_loss:0.41874659061431885, fake_loss:0.34863424301
14746

step:13668, recons_loss:0.16158466041088104, g_loss:1.211167573928833,
d_loss:0.48702341318130493, real_loss:0.42050784826278687, fake_loss:0.55353897809
9823

step:13718, recons_loss:0.1648799329996109, g_loss:1.2844494581222534,
d_loss:0.4413275718688965, real_loss:0.4466281533241272, fake_loss:0.4360269904136
6577

step:13768, recons_loss:0.15592551231384277, g_loss:1.2836458683013916,
d_loss:0.42412281036376953, real_loss:0.3971588611602783, fake_loss:0.451086759567
26074

step:13818, recons_loss:0.16876515746116638, g_loss:1.324766993522644,
d_loss:0.43592047691345215, real_loss:0.4048003554344177, fake_loss:0.467040598392
4866

step:13868, recons_loss:0.15309342741966248, g_loss:1.3436943292617798,
d_loss:0.4734547734260559, real_loss:0.49976494908332825, fake_loss:0.447144627571
10596

step:13918, recons_loss:0.16296078264713287, g_loss:1.695522427558899,
d_loss:0.382697731256485, real_loss:0.5226466059684753, fake_loss:0.24274887144565
582

step:13968, recons_loss:0.16026709973812103, g_loss:1.420981764793396,
d_loss:0.3527225852012634, real_loss:0.34882962703704834, fake_loss:0.356615573167
8009

step:14018, recons_loss:0.1622437685728073, g_loss:1.160292148590088,
d_loss:0.4065625071525574, real_loss:0.31889238953590393, fake_loss:0.494232594966
8884

step:14055, recons_loss:0.15656274557113647, g_loss:1.4532005786895752,
d_loss:0.46435219049453735, real_loss:0.6054728627204895, fake_loss:0.323231518268
5852

step:14105, recons_loss:0.16758409142494202, g_loss:1.0804022550582886,
d_loss:0.4513590633869171, real_loss:0.27869242429733276, fake_loss:0.624025702476
5015

step:14155, recons_loss:0.16256417334079742, g_loss:1.6815314292907715,
d_loss:0.6664867401123047, real_loss:1.0470384359359741, fake_loss:0.2859350442886
3525

step:14205, recons_loss:0.16116611659526825, g_loss:1.645398736000061,
d_loss:0.45679956674575806, real_loss:0.593213677406311, fake_loss:0.3203854560852
051

step:14255, recons_loss:0.15164300799369812, g_loss:1.3573952913284302,
d_loss:0.5218571424484253, real_loss:0.6271697282791138, fake_loss:0.4165445566177
368

step:14305, recons_loss:0.16806598007678986, g_loss:1.226241946220398,
d_loss:0.4836041331291199, real_loss:0.5300004482269287, fake_loss:0.4372078180313
1104

step:14355, recons_loss:0.15270337462425232, g_loss:1.3755275011062622,
d_loss:0.3471753001213074, real_loss:0.321834534406662, fake_loss:0.37251603603363
037

step:14405, recons_loss:0.1610209047794342, g_loss:1.5663470029830933,
d_loss:0.4624972939491272, real_loss:0.6054924726486206, fake_loss:0.3195021152496
338

step:14455, recons_loss:0.1703089028596878, g_loss:1.6209913492202759,
d_loss:0.41422122716903687, real_loss:0.5753039121627808, fake_loss:0.253138512372
9706

step:14505, recons_loss:0.1603543758392334, g_loss:1.0448038578033447,
d_loss:0.5070983171463013, real_loss:0.48289954662323, fake_loss:0.531297087669372
6
step:14555, recons_loss:0.16935177147388458, g_loss:1.3460463285446167,
d_loss:0.4483717679977417, real_loss:0.5388880372047424, fake_loss:0.3578554987907
4097
step:14605, recons_loss:0.1519363969564438, g_loss:1.338549256324768,
d_loss:0.4255082607269287, real_loss:0.426715612411499, fake_loss:0.42430093884468
08
step:14655, recons_loss:0.15896910429000854, g_loss:1.623254418373108,
d_loss:0.42589592933654785, real_loss:0.58681321144104, fake_loss:0.26497861742973
33
step:14705, recons_loss:0.16051965951919556, g_loss:1.119935393333435,
d_loss:0.4676571488380432, real_loss:0.42076897621154785, fake_loss:0.514545321464
5386
step:14755, recons_loss:0.15690767765045166, g_loss:1.6631337404251099,
d_loss:0.3266412019729614, real_loss:0.3826345205307007, fake_loss:0.2706478834152
2217
step:14805, recons_loss:0.1618923842906952, g_loss:1.1538615226745605,
d_loss:0.4741811454296112, real_loss:0.45492023229599, fake_loss:0.493442058563232
4
step:14855, recons_loss:0.16573460400104523, g_loss:1.186119794845581,
d_loss:0.5171208381652832, real_loss:0.6021766662597656, fake_loss:0.4320649802684
784
step:14905, recons_loss:0.16215090453624725, g_loss:1.5435141324996948,
d_loss:0.4343372583389282, real_loss:0.5524169206619263, fake_loss:0.3162575662136
078
step:14955, recons_loss:0.16043080389499664, g_loss:1.475860595703125,
d_loss:0.36503005027770996, real_loss:0.4088101089000702, fake_loss:0.321249961853
02734
step:14992, recons_loss:0.1667930632829666, g_loss:1.4028358459472656,
d_loss:0.6650859117507935, real_loss:0.59978187084198, fake_loss:0.730389952659606
9
step:15042, recons_loss:0.17109104990959167, g_loss:1.3168582916259766,
d_loss:0.40578943490982056, real_loss:0.4067852199077606, fake_loss:0.404793620109
5581
step:15092, recons_loss:0.1548747718334198, g_loss:1.1949559450149536,
d_loss:0.5207363367080688, real_loss:0.5970453023910522, fake_loss:0.4444273114204
407
step:15142, recons_loss:0.16024361550807953, g_loss:1.4273254871368408,
d_loss:0.4598473608493805, real_loss:0.5708836317062378, fake_loss:0.3488110899925
232
step:15192, recons_loss:0.1630827933549881, g_loss:1.334930181503296,
d_loss:0.3584801256656647, real_loss:0.2900846600532532, fake_loss:0.4268755912780
7617
step:15242, recons_loss:0.16216857731342316, g_loss:1.3917999267578125,
d_loss:0.5270195007324219, real_loss:0.6398056745529175, fake_loss:0.4142333865165
7104
step:15292, recons_loss:0.16327381134033203, g_loss:1.0410889387130737,
d_loss:0.5041522979736328, real_loss:0.3625447750091553, fake_loss:0.6457598805427
551
step:15342, recons_loss:0.1632649302482605, g_loss:1.475724220275879,
d_loss:0.4546824097633362, real_loss:0.5994354486465454, fake_loss:0.3099293410778
0457

step:15392, recons_loss:0.1567509025335312, g_loss:1.0857683420181274,
d_loss:0.43746328353881836, real_loss:0.32088255882263184, fake_loss:0.55404400825
50049

step:15442, recons_loss:0.15791375935077667, g_loss:0.9022899866104126,
d_loss:0.5299861431121826, real_loss:0.26851123571395874, fake_loss:0.791460990905
7617

step:15492, recons_loss:0.15828730165958405, g_loss:1.332283616065979,
d_loss:0.4166891574859619, real_loss:0.42095452547073364, fake_loss:0.412423759698
8678

step:15542, recons_loss:0.16211053729057312, g_loss:1.3698112964630127,
d_loss:0.4205589294433594, real_loss:0.4075292944908142, fake_loss:0.4335885941982
2693

step:15592, recons_loss:0.14573784172534943, g_loss:1.3337810039520264,
d_loss:0.4026896357536316, real_loss:0.4142788350582123, fake_loss:0.3911004066467
285

step:15642, recons_loss:0.15398502349853516, g_loss:1.057755947113037,
d_loss:0.48158037662506104, real_loss:0.38469916582107544, fake_loss:0.57846158742
90466

step:15692, recons_loss:0.15946750342845917, g_loss:0.9763461947441101,
d_loss:0.5262974500656128, real_loss:0.30821704864501953, fake_loss:0.744377851486
206

step:15742, recons_loss:0.1596364676952362, g_loss:1.131896734237671,
d_loss:0.43295663595199585, real_loss:0.39741966128349304, fake_loss:0.46849358081
817627

step:15792, recons_loss:0.16599808633327484, g_loss:1.286302924156189,
d_loss:0.47159427404403687, real_loss:0.5260294675827026, fake_loss:0.417159080505
3711

step:15842, recons_loss:0.16494497656822205, g_loss:1.4810279607772827,
d_loss:0.45068010687828064, real_loss:0.569676399230957, fake_loss:0.3316838145256
0425

step:15892, recons_loss:0.15944920480251312, g_loss:1.489664077758789,
d_loss:0.44627559185028076, real_loss:0.577548623085022, fake_loss:0.3150025606155
3955

step:15929, recons_loss:0.15221400558948517, g_loss:1.4219396114349365,
d_loss:0.3444519639015198, real_loss:0.27790892124176025, fake_loss:0.410994976758
9569

step:15979, recons_loss:0.16054314374923706, g_loss:1.4272087812423706,
d_loss:0.4563601016998291, real_loss:0.5503540635108948, fake_loss:0.3623661100864
4104

step:16029, recons_loss:0.16099925339221954, g_loss:1.0231928825378418,
d_loss:0.43311256170272827, real_loss:0.3245443105697632, fake_loss:0.541680812835
6934

step:16079, recons_loss:0.15869328379631042, g_loss:1.3966954946517944,
d_loss:0.44337642192840576, real_loss:0.5681885480880737, fake_loss:0.318564295768
7378

step:16129, recons_loss:0.16739268600940704, g_loss:1.4555182456970215,
d_loss:0.4291945993900299, real_loss:0.49131840467453003, fake_loss:0.367070794105
5298

step:16179, recons_loss:0.16763165593147278, g_loss:1.6046843528747559,
d_loss:0.324470579624176, real_loss:0.3822649121284485, fake_loss:0.26667624711990
356

step:16229, recons_loss:0.16213183104991913, g_loss:1.5544922351837158,
d_loss:0.559648334980011, real_loss:0.8242824077606201, fake_loss:0.29501426219940
186

step:16279, recons_loss:0.16384287178516388, g_loss:1.3945236206054688,
d_loss:0.44666486978530884, real_loss:0.4982842206954956, fake_loss:0.395045489072
7997

step:16329, recons_loss:0.1626451164484024, g_loss:1.3535442352294922,
d_loss:0.41405147314071655, real_loss:0.47555333375930786, fake_loss:0.35254961252
212524

step:16379, recons_loss:0.16086092591285706, g_loss:0.8839290142059326,
d_loss:0.6486773490905762, real_loss:0.4488047957420349, fake_loss:0.8485499620437
622

step:16429, recons_loss:0.1669316589832306, g_loss:1.2225656509399414,
d_loss:0.46739333868026733, real_loss:0.42815732955932617, fake_loss:0.50662934780
12085

step:16479, recons_loss:0.1669367551803589, g_loss:1.3978677988052368,
d_loss:0.33842015266418457, real_loss:0.29926788806915283, fake_loss:0.37757241725
92163

step:16529, recons_loss:0.15527865290641785, g_loss:1.4389177560806274,
d_loss:0.4554426372051239, real_loss:0.49626728892326355, fake_loss:0.414617985486
98425

step:16579, recons_loss:0.16419029235839844, g_loss:1.2951146364212036,
d_loss:0.38641542196273804, real_loss:0.3695339858531952, fake_loss:0.403296887874
60327

step:16629, recons_loss:0.16115376353263855, g_loss:1.5023242235183716,
d_loss:0.4479196071624756, real_loss:0.5226345658302307, fake_loss:0.3732046484947
2046

step:16679, recons_loss:0.15809550881385803, g_loss:1.585325002670288,
d_loss:0.4913305938243866, real_loss:0.7047793865203857, fake_loss:0.2778818011283
8745

step:16729, recons_loss:0.1561671644449234, g_loss:1.115702509880066,
d_loss:0.430824875831604, real_loss:0.3412982225418091, fake_loss:0.52035152912139
89

step:16779, recons_loss:0.16763025522232056, g_loss:1.243651270866394,
d_loss:0.4489977955818176, real_loss:0.470030277967453, fake_loss:0.42796528339385
986

step:16829, recons_loss:0.16262321174144745, g_loss:1.3830105066299438,
d_loss:0.46232229471206665, real_loss:0.5117864012718201, fake_loss:0.412858188152
31323

step:16866, recons_loss:0.15755072236061096, g_loss:1.3423335552215576,
d_loss:0.36797720193862915, real_loss:0.325131893157959, fake_loss:0.4108225107192
993

step:16916, recons_loss:0.16309814155101776, g_loss:1.4932994842529297,
d_loss:0.36616235971450806, real_loss:0.41375932097435, fake_loss:0.31856536865234
375

step:16966, recons_loss:0.1635076403617859, g_loss:1.5183734893798828,
d_loss:0.5021359920501709, real_loss:0.7220702767372131, fake_loss:0.2822017073631
2866

step:17016, recons_loss:0.15426693856716156, g_loss:1.1310745477676392,
d_loss:0.6100361943244934, real_loss:0.5238535404205322, fake_loss:0.6962188482284
546

step:17066, recons_loss:0.16582946479320526, g_loss:1.3540315628051758,
d_loss:0.40004539489746094, real_loss:0.38745492696762085, fake_loss:0.41263586282
7301

step:17116, recons_loss:0.1574098765850067, g_loss:1.664903163909912,
d_loss:0.4645824134349823, real_loss:0.6577963829040527, fake_loss:0.2713684439659
1187

step:17166, recons_loss:0.16392268240451813, g_loss:1.3069332838058472,
d_loss:0.49069744348526, real_loss:0.5442209243774414, fake_loss:0.437173962593078
6
step:17216, recons_loss:0.15670336782932281, g_loss:1.009606122970581,
d_loss:0.4841238558292389, real_loss:0.42434579133987427, fake_loss:0.543901920318
6035
step:17266, recons_loss:0.16583913564682007, g_loss:1.2791560888290405,
d_loss:0.42547568678855896, real_loss:0.4274447560310364, fake_loss:0.423506617546
08154
step:17316, recons_loss:0.15282276272773743, g_loss:1.4245797395706177,
d_loss:0.6014708280563354, real_loss:0.7422659397125244, fake_loss:0.4606757760047
9126
step:17366, recons_loss:0.15814566612243652, g_loss:1.508223295211792,
d_loss:0.4847683906555176, real_loss:0.6594988703727722, fake_loss:0.3100378811359
4055
step:17416, recons_loss:0.16996656358242035, g_loss:1.0975693464279175,
d_loss:0.40925079584121704, real_loss:0.23610447347164154, fake_loss:0.58239710330
96313
step:17466, recons_loss:0.15532320737838745, g_loss:1.4002281427383423,
d_loss:0.47086238861083984, real_loss:0.4588867425918579, fake_loss:0.482838064432
14417
step:17516, recons_loss:0.15730322897434235, g_loss:1.5413134098052979,
d_loss:0.3977074921131134, real_loss:0.49486297369003296, fake_loss:0.300552010536
19385
step:17566, recons_loss:0.1534723937511444, g_loss:1.690269112586975,
d_loss:0.4993235170841217, real_loss:0.7420426607131958, fake_loss:0.2566043734550
476
step:17616, recons_loss:0.1649896800518036, g_loss:1.39268159866333,
d_loss:0.5276431441307068, real_loss:0.6941120624542236, fake_loss:0.3611741960048
6755
step:17666, recons_loss:0.16156424582004547, g_loss:1.1643327474594116,
d_loss:0.5469843149185181, real_loss:0.42927706241607666, fake_loss:0.664691567420
9595
step:17716, recons_loss:0.15423256158828735, g_loss:1.2768888473510742,
d_loss:0.46767809987068176, real_loss:0.5232730507850647, fake_loss:0.412083148956
29883
step:17766, recons_loss:0.16411800682544708, g_loss:1.2859129905700684,
d_loss:0.4395815432071686, real_loss:0.46446314454078674, fake_loss:0.414699941873
5504
step:17803, recons_loss:0.16620269417762756, g_loss:1.3542218208312988,
d_loss:0.40126949548721313, real_loss:0.38385531306266785, fake_loss:0.41868370771
40808
step:17853, recons_loss:0.16357600688934326, g_loss:1.7237948179244995,
d_loss:0.4110448956489563, real_loss:0.5355527400970459, fake_loss:0.2865370512008
667
step:17903, recons_loss:0.16282351315021515, g_loss:1.1877130270004272,
d_loss:0.47025927901268005, real_loss:0.45138826966285706, fake_loss:0.48913028836
250305
step:17953, recons_loss:0.15262721478939056, g_loss:1.0705595016479492,
d_loss:0.4903635084629059, real_loss:0.49926841259002686, fake_loss:0.481458604335
7849
step:18003, recons_loss:0.14857590198516846, g_loss:1.2020372152328491,
d_loss:0.44233277440071106, real_loss:0.3288041949272156, fake_loss:0.555861353874
2065

step:18053, recons_loss:0.15673916041851044, g_loss:1.4660452604293823,
d_loss:0.4730081558227539, real_loss:0.5691887736320496, fake_loss:0.3768275380134
5825

step:18103, recons_loss:0.164974644780159, g_loss:1.1184498071670532,
d_loss:0.47139331698417664, real_loss:0.3649115562438965, fake_loss:0.577875077724
4568

step:18153, recons_loss:0.15890689194202423, g_loss:1.2761311531066895,
d_loss:0.45147204399108887, real_loss:0.37067756056785583, fake_loss:0.53226649761
19995

step:18203, recons_loss:0.16709962487220764, g_loss:1.469307541847229,
d_loss:0.41588854789733887, real_loss:0.48574793338775635, fake_loss:0.34602919220
92438

step:18253, recons_loss:0.16039641201496124, g_loss:1.358115792274475,
d_loss:0.5527420043945312, real_loss:0.6368950605392456, fake_loss:0.4685889482498
169

step:18303, recons_loss:0.15513768792152405, g_loss:1.1679532527923584,
d_loss:0.5099836587905884, real_loss:0.5356069803237915, fake_loss:0.4843603968620
3003

step:18353, recons_loss:0.1622409075498581, g_loss:1.3156977891921997,
d_loss:0.42113417387008667, real_loss:0.41000741720199585, fake_loss:0.43226090073
58551

step:18403, recons_loss:0.15397576987743378, g_loss:1.5320031642913818,
d_loss:0.4671328067779541, real_loss:0.5650200843811035, fake_loss:0.3692455291748
047

step:18453, recons_loss:0.15334366261959076, g_loss:1.1367944478988647,
d_loss:0.4319223165512085, real_loss:0.33844301104545593, fake_loss:0.525401651859
2834

step:18503, recons_loss:0.1615607589483261, g_loss:1.914826512336731,
d_loss:0.42617058753967285, real_loss:0.6339432597160339, fake_loss:0.218397885560
98938

step:18553, recons_loss:0.1631564050912857, g_loss:1.3441191911697388,
d_loss:0.35694605112075806, real_loss:0.3247610926628113, fake_loss:0.389131009578
70483

step:18603, recons_loss:0.1565156877040863, g_loss:1.3312684297561646,
d_loss:0.5132684111595154, real_loss:0.5768307447433472, fake_loss:0.4497060775756
836

step:18653, recons_loss:0.158413827419281, g_loss:1.5535916090011597,
d_loss:0.5136131644248962, real_loss:0.6081228256225586, fake_loss:0.4191034734249
115

step:18703, recons_loss:0.1637963205575943, g_loss:1.4872099161148071,
d_loss:0.45296773314476013, real_loss:0.4973219037055969, fake_loss:0.408613562583
92334

step:18740, recons_loss:0.1649925410747528, g_loss:1.2901161909103394,
d_loss:0.4484245479106903, real_loss:0.5071077942848206, fake_loss:0.3897413015365
6006

step:18790, recons_loss:0.1633613258600235, g_loss:1.2724559307098389,
d_loss:0.46919867396354675, real_loss:0.5064772367477417, fake_loss:0.431920111179
3518

step:18840, recons_loss:0.15295670926570892, g_loss:1.5047541856765747,
d_loss:0.5308532118797302, real_loss:0.6222909092903137, fake_loss:0.4394155144691
4673

step:18890, recons_loss:0.15784944593906403, g_loss:1.3989726305007935,
d_loss:0.3876117467880249, real_loss:0.4059236943721771, fake_loss:0.3692998290061
9507

step:18940, recons_loss:0.1535177230834961, g_loss:1.5789856910705566,
d_loss:0.4439031481742859, real_loss:0.5793695449829102, fake_loss:0.3084367513656
616
step:18990, recons_loss:0.16403034329414368, g_loss:1.6778483390808105,
d_loss:0.3908003568649292, real_loss:0.5041196346282959, fake_loss:0.2774810791015
625
step:19040, recons_loss:0.16505011916160583, g_loss:1.5020517110824585,
d_loss:0.4236886501312256, real_loss:0.4939114451408386, fake_loss:0.3534658551216
1255
step:19090, recons_loss:0.16701115667819977, g_loss:1.2076127529144287,
d_loss:0.39807379245758057, real_loss:0.2644960582256317, fake_loss:0.531651496887
207
step:19140, recons_loss:0.16522397100925446, g_loss:1.323549509048462,
d_loss:0.37423133850097656, real_loss:0.38383036851882935, fake_loss:0.36463233828
544617
step:19190, recons_loss:0.1568671017885208, g_loss:1.3456759452819824,
d_loss:0.44847118854522705, real_loss:0.47901707887649536, fake_loss:0.41792529821
395874
step:19240, recons_loss:0.16343529522418976, g_loss:1.4834229946136475,
d_loss:0.40972769260406494, real_loss:0.49717867374420166, fake_loss:0.32227671146
39282
step:19290, recons_loss:0.16040357947349548, g_loss:1.6270763874053955,
d_loss:0.4956326484680176, real_loss:0.7180184125900269, fake_loss:0.2732468843460
083
step:19340, recons_loss:0.16271281242370605, g_loss:1.1788438558578491,
d_loss:0.4792681634426117, real_loss:0.5182255506515503, fake_loss:0.4403107762336
731
step:19390, recons_loss:0.1606922149658203, g_loss:1.2386022806167603,
d_loss:0.4658389389514923, real_loss:0.4918350577354431, fake_loss:0.4398428201675
415
step:19440, recons_loss:0.1550368219614029, g_loss:1.1468642950057983,
d_loss:0.5097792148590088, real_loss:0.4843553900718689, fake_loss:0.5352030396461
487
step:19490, recons_loss:0.1660832315683365, g_loss:1.3115594387054443,
d_loss:0.4699572026729584, real_loss:0.47537678480148315, fake_loss:0.464537620544
4336
step:19540, recons_loss:0.16570013761520386, g_loss:1.1954162120819092,
d_loss:0.45148706436157227, real_loss:0.3803805410861969, fake_loss:0.522593617439
27
step:19590, recons_loss:0.1597200334072113, g_loss:1.2892640829086304,
d_loss:0.469677209854126, real_loss:0.46380478143692017, fake_loss:0.4755496084690
094
step:19640, recons_loss:0.16181252896785736, g_loss:1.6057802438735962,
d_loss:0.44561806321144104, real_loss:0.5775099992752075, fake_loss:0.313726127147
67456
step:19677, recons_loss:0.15796677768230438, g_loss:1.4951107501983643,
d_loss:0.47352665662765503, real_loss:0.6611484885215759, fake_loss:0.285904794931
41174
step:19727, recons_loss:0.16367857158184052, g_loss:1.5862910747528076,
d_loss:0.4820442497730255, real_loss:0.6689124703407288, fake_loss:0.2951760292053
2227
step:19777, recons_loss:0.15587282180786133, g_loss:1.3120818138122559,
d_loss:0.49345678091049194, real_loss:0.5726847648620605, fake_loss:0.414228767156
60095

step:19827, recons_loss:0.16666120290756226, g_loss:1.5776039361953735,
d_loss:0.41249439120292664, real_loss:0.5208563804626465, fake_loss:0.304132401943
2068

step:19877, recons_loss:0.16839592158794403, g_loss:1.3382816314697266,
d_loss:0.4075976014137268, real_loss:0.42068400979042053, fake_loss:0.394511193037
0331

step:19927, recons_loss:0.1642046719789505, g_loss:1.397011160850525,
d_loss:0.4411226212978363, real_loss:0.5246472358703613, fake_loss:0.3575980067253
113

step:19977, recons_loss:0.1681808978319168, g_loss:1.2752734422683716,
d_loss:0.48426711559295654, real_loss:0.5335066318511963, fake_loss:0.435027629137
0392

step:20027, recons_loss:0.1512884795665741, g_loss:1.5431562662124634,
d_loss:0.4308609962463379, real_loss:0.5169734954833984, fake_loss:0.3447484672069
5496

step:20077, recons_loss:0.15947836637496948, g_loss:1.725013256072998,
d_loss:0.40855172276496887, real_loss:0.5363415479660034, fake_loss:0.280761897563
9343

step:20127, recons_loss:0.15695694088935852, g_loss:1.302350401878357,
d_loss:0.48391419649124146, real_loss:0.5753450989723206, fake_loss:0.392483294010
16235

step:20177, recons_loss:0.17053771018981934, g_loss:1.5073109865188599,
d_loss:0.46303480863571167, real_loss:0.6062983870506287, fake_loss:0.319771260023
11707

step:20227, recons_loss:0.15861395001411438, g_loss:1.2223727703094482,
d_loss:0.5152304172515869, real_loss:0.54934161901474, fake_loss:0.481119215488433
84

step:20277, recons_loss:0.15791283547878265, g_loss:1.6544255018234253,
d_loss:0.4970686733722687, real_loss:0.7266881465911865, fake_loss:0.2674492001533
5083

step:20327, recons_loss:0.15320375561714172, g_loss:1.4959241151809692,
d_loss:0.49832844734191895, real_loss:0.7070609331130981, fake_loss:0.289595961570
73975

step:20377, recons_loss:0.16969415545463562, g_loss:1.0702683925628662,
d_loss:0.4681481719017029, real_loss:0.368111252784729, fake_loss:0.56818509101867
68

step:20427, recons_loss:0.16989555954933167, g_loss:1.190090537071228,
d_loss:0.4671010971069336, real_loss:0.45273348689079285, fake_loss:0.481468677520
75195

step:20477, recons_loss:0.1544068604707718, g_loss:1.376855731010437,
d_loss:0.3907545208930969, real_loss:0.37859028577804565, fake_loss:0.402918726205
8258

step:20527, recons_loss:0.1645956039428711, g_loss:1.3089423179626465,
d_loss:0.4149131178855896, real_loss:0.38495030999183655, fake_loss:0.444875895977
02026

step:20577, recons_loss:0.16320523619651794, g_loss:1.3212987184524536,
d_loss:0.42846813797950745, real_loss:0.4675731956958771, fake_loss:0.389363080263
1378

step:20614, recons_loss:0.15618199110031128, g_loss:1.444069743156433,
d_loss:0.5000380277633667, real_loss:0.5929883718490601, fake_loss:0.4070876240730
2856

step:20664, recons_loss:0.16520391404628754, g_loss:1.4151962995529175,
d_loss:0.6045893430709839, real_loss:0.6733984351158142, fake_loss:0.5357803106307
983

step:20714, recons_loss:0.16422656178474426, g_loss:1.2669757604599,
d_loss:0.37742772698402405, real_loss:0.304540753364563, fake_loss:0.4503147006034
851
step:20764, recons_loss:0.1582748293876648, g_loss:1.0306469202041626,
d_loss:0.4954104423522949, real_loss:0.44072726368904114, fake_loss:0.550093591213
2263
step:20814, recons_loss:0.1598476618528366, g_loss:1.3872517347335815,
d_loss:0.5313094854354858, real_loss:0.7059412002563477, fake_loss:0.3566778302192
688
step:20864, recons_loss:0.16623637080192566, g_loss:1.31602144241333,
d_loss:0.4495382308959961, real_loss:0.45335936546325684, fake_loss:0.445717126131
05774
step:20914, recons_loss:0.15508009493350983, g_loss:1.3454982042312622,
d_loss:0.46366560459136963, real_loss:0.5670173168182373, fake_loss:0.360313892364
50195
step:20964, recons_loss:0.16279442608356476, g_loss:1.5712863206863403,
d_loss:0.4786665141582489, real_loss:0.592736005783081, fake_loss:0.36459702253341
675
step:21014, recons_loss:0.15941059589385986, g_loss:1.2213995456695557,
d_loss:0.428835928440094, real_loss:0.38917580246925354, fake_loss:0.4684960842132
5684
step:21064, recons_loss:0.16812105476856232, g_loss:0.8943897485733032,
d_loss:0.5415871143341064, real_loss:0.27132412791252136, fake_loss:0.811850070953
3691
step:21114, recons_loss:0.16213223338127136, g_loss:1.1664538383483887,
d_loss:0.5151231288909912, real_loss:0.4858033061027527, fake_loss:0.5444429516792
297
step:21164, recons_loss:0.16614875197410583, g_loss:1.2211716175079346,
d_loss:0.4523051083087921, real_loss:0.4680820107460022, fake_loss:0.4365282058715
8203
step:21214, recons_loss:0.1618339568376541, g_loss:1.284727931022644,
d_loss:0.45967352390289307, real_loss:0.4036991000175476, fake_loss:0.515647947788
2385
step:21264, recons_loss:0.15467002987861633, g_loss:1.3700977563858032,
d_loss:0.46478232741355896, real_loss:0.5498223304748535, fake_loss:0.379742324352
2644
step:21314, recons_loss:0.1575484722852707, g_loss:1.5387024879455566,
d_loss:0.5167516469955444, real_loss:0.6369502544403076, fake_loss:0.3965530693531
0364
step:21364, recons_loss:0.1552676111459732, g_loss:1.3798695802688599,
d_loss:0.4221053123474121, real_loss:0.45923879742622375, fake_loss:0.384971827268
60046
step:21414, recons_loss:0.1639312356710434, g_loss:1.1716089248657227,
d_loss:0.5008826851844788, real_loss:0.5705849528312683, fake_loss:0.4311804175376
892
step:21464, recons_loss:0.16100358963012695, g_loss:1.3396742343902588,
d_loss:0.5203880071640015, real_loss:0.6288810968399048, fake_loss:0.4118949770927
429
step:21514, recons_loss:0.15358899533748627, g_loss:1.3074564933776855,
d_loss:0.5016186237335205, real_loss:0.5449141263961792, fake_loss:0.4583231210708
618
step:21551, recons_loss:0.1570909470319748, g_loss:1.468993902206421,
d_loss:0.5513162612915039, real_loss:0.7568447589874268, fake_loss:0.3457877039909
363

step:21601, recons_loss:0.14938804507255554, g_loss:1.420893669128418,
d_loss:0.4674275815486908, real_loss:0.5320473909378052, fake_loss:0.4028077721595
764

step:21651, recons_loss:0.15867088735103607, g_loss:1.5626157522201538,
d_loss:0.40518298745155334, real_loss:0.47576195001602173, fake_loss:0.33460402488
708496

step:21701, recons_loss:0.16412226855754852, g_loss:1.390944242477417,
d_loss:0.4739716351032257, real_loss:0.56047123670578, fake_loss:0.387472033500671
4

step:21751, recons_loss:0.16475248336791992, g_loss:1.588695764541626,
d_loss:0.39590519666671753, real_loss:0.49350932240486145, fake_loss:0.29830104112
62512

step:21801, recons_loss:0.1640547662973404, g_loss:1.598268747329712,
d_loss:0.41226738691329956, real_loss:0.524860143661499, fake_loss:0.2996746301651
001

step:21851, recons_loss:0.16320957243442535, g_loss:1.4800370931625366,
d_loss:0.5209329128265381, real_loss:0.7518619298934937, fake_loss:0.2900038957595
825

step:21901, recons_loss:0.1633647233247757, g_loss:1.3803960084915161,
d_loss:0.4083346724510193, real_loss:0.4683781862258911, fake_loss:0.3482911586761
4746

step:21951, recons_loss:0.16226701438426971, g_loss:1.432384729385376,
d_loss:0.43244704604148865, real_loss:0.5320724248886108, fake_loss:0.332821667194
36646

step:22001, recons_loss:0.15654867887496948, g_loss:1.3100398778915405,
d_loss:0.43179622292518616, real_loss:0.4114096164703369, fake_loss:0.452182829380
0354

step:22051, recons_loss:0.15925775468349457, g_loss:1.3741010427474976,
d_loss:0.4543968439102173, real_loss:0.5178704261779785, fake_loss:0.3909232616424
5605

step:22101, recons_loss:0.15234729647636414, g_loss:1.3645726442337036,
d_loss:0.5966956615447998, real_loss:0.8052340745925903, fake_loss:0.3881571888923
645

step:22151, recons_loss:0.16609884798526764, g_loss:1.1135751008987427,
d_loss:0.4406896233558655, real_loss:0.31601738929748535, fake_loss:0.565361857414
2456

step:22201, recons_loss:0.1674787402153015, g_loss:0.9771291613578796,
d_loss:0.5247011780738831, real_loss:0.3745881915092468, fake_loss:0.6748141646385
193

step:22251, recons_loss:0.16884201765060425, g_loss:1.3376357555389404,
d_loss:0.42250221967697144, real_loss:0.4690316319465637, fake_loss:0.375972837209
70154

step:22301, recons_loss:0.1657007485628128, g_loss:1.4244155883789062,
d_loss:0.4902685880661011, real_loss:0.5758364200592041, fake_loss:0.4047007858753
2043

step:22351, recons_loss:0.16246461868286133, g_loss:1.3319331407546997,
d_loss:0.5419178009033203, real_loss:0.6180640459060669, fake_loss:0.4657716155052
185

step:22401, recons_loss:0.16055336594581604, g_loss:1.104235053062439,
d_loss:0.487656831741333, real_loss:0.4263955354690552, fake_loss:0.54891812801361
08

step:22451, recons_loss:0.16623955965042114, g_loss:1.2707786560058594,
d_loss:0.5111583471298218, real_loss:0.4519146680831909, fake_loss:0.5704020261764
526

step:22488, recons_loss:0.15848509967327118, g_loss:1.2970050573349,
d_loss:0.36826127767562866, real_loss:0.327754408121109, fake_loss:0.4087681770324
707
step:22538, recons_loss:0.1601727157831192, g_loss:0.9216988682746887,
d_loss:0.5703990459442139, real_loss:0.47258633375167847, fake_loss:0.668211817741
394
step:22588, recons_loss:0.1533142328262329, g_loss:1.3845100402832031,
d_loss:0.4676310122013092, real_loss:0.5837054252624512, fake_loss:0.3515565991401
6724
step:22638, recons_loss:0.16856150329113007, g_loss:1.3273979425430298,
d_loss:0.49120032787323, real_loss:0.5197983384132385, fake_loss:0.462602317333221
44
step:22688, recons_loss:0.17243042588233948, g_loss:1.2104476690292358,
d_loss:0.4955729842185974, real_loss:0.4895630478858948, fake_loss:0.5015829205513
step:22738, recons_loss:0.1615149825811386, g_loss:1.3531744480133057,
d_loss:0.5081073045730591, real_loss:0.6315395832061768, fake_loss:0.3846750259399
414
step:22788, recons_loss:0.16394133865833282, g_loss:1.1630408763885498,
d_loss:0.4340325593948364, real_loss:0.3678356409072876, fake_loss:0.5002294778823
853
step:22838, recons_loss:0.16242896020412445, g_loss:1.1148037910461426,
d_loss:0.4825783371925354, real_loss:0.42886507511138916, fake_loss:0.536291599273
6816
step:22888, recons_loss:0.16396424174308777, g_loss:1.3620531558990479,
d_loss:2.0142056941986084, real_loss:0.5009812116622925, fake_loss:3.5274300575256
348
step:22938, recons_loss:0.1595374345779419, g_loss:1.4918041229248047,
d_loss:0.4260617792606354, real_loss:0.470314621925354, fake_loss:0.38180893659591
675
step:22988, recons_loss:0.1602211445569992, g_loss:1.4436827898025513,
d_loss:0.42698463797569275, real_loss:0.5029686689376831, fake_loss:0.351000607013
7024
step:23038, recons_loss:0.1615683138370514, g_loss:1.4366947412490845,
d_loss:0.41698944568634033, real_loss:0.47050660848617554, fake_loss:0.36347228288
65051
step:23088, recons_loss:0.16186904907226562, g_loss:1.737366795539856,
d_loss:0.5195721387863159, real_loss:0.8086795806884766, fake_loss:0.2304646372795
105
step:23138, recons_loss:0.15643669664859772, g_loss:1.1974480152130127,
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7
step:23188, recons_loss:0.17612025141716003, g_loss:1.0471770763397217,
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198
step:23238, recons_loss:0.16325441002845764, g_loss:1.581677794456482,
d_loss:0.41153761744499207, real_loss:0.5190948247909546, fake_loss:0.303980410099
02954
step:23288, recons_loss:0.15921643376350403, g_loss:1.3833446502685547,
d_loss:0.45446205139160156, real_loss:0.4701855182647705, fake_loss:0.438738584518
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step:23338, recons_loss:0.1628652811050415, g_loss:1.2542284727096558,
d_loss:0.5083374381065369, real_loss:0.6122424602508545, fake_loss:0.4044323861598
9685

step:23388, recons_loss:0.16034911572933197, g_loss:1.5120600461959839,
d_loss:0.4126548171043396, real_loss:0.530559241771698, fake_loss:0.29475042223930
36
step:23425, recons_loss:0.1634744554758072, g_loss:0.9771801233291626,
d_loss:0.48113393783569336, real_loss:0.3490111529827118, fake_loss:0.613256692886
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step:23475, recons_loss:0.16700337827205658, g_loss:1.1396961212158203,
d_loss:0.49305152893066406, real_loss:0.440458208322525, fake_loss:0.5456448793411
255
step:23525, recons_loss:0.15945561230182648, g_loss:1.4771190881729126,
d_loss:0.44404301047325134, real_loss:0.5349509716033936, fake_loss:0.353135049343
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step:23575, recons_loss:0.16405530273914337, g_loss:1.3246479034423828,
d_loss:0.46234703063964844, real_loss:0.5020231008529663, fake_loss:0.422670960426
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step:23625, recons_loss:0.16443869471549988, g_loss:1.4883838891983032,
d_loss:0.4242234230041504, real_loss:0.44512301683425903, fake_loss:0.403323858976
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step:23675, recons_loss:0.17103296518325806, g_loss:1.2636229991912842,
d_loss:0.49203193187713623, real_loss:0.5451716780662537, fake_loss:0.438892185688
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step:23725, recons_loss:0.16312366724014282, g_loss:1.1775391101837158,
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step:23775, recons_loss:0.16430753469467163, g_loss:1.513789176940918,
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step:23825, recons_loss:0.1642792969942093, g_loss:1.5749785900115967,
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step:23875, recons_loss:0.15833227336406708, g_loss:1.5164765119552612,
d_loss:0.4567726254463196, real_loss:0.5803991556167603, fake_loss:0.3331461250782
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step:23925, recons_loss:0.16197118163108826, g_loss:1.1444257497787476,
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step:23975, recons_loss:0.15642458200454712, g_loss:1.1778167486190796,
d_loss:0.5175713300704956, real_loss:0.5149209499359131, fake_loss:0.5202217102050
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step:24025, recons_loss:0.16105155646800995, g_loss:1.2273932695388794,
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3931
step:24075, recons_loss:0.17293396592140198, g_loss:1.3616852760314941,
d_loss:0.4455328583717346, real_loss:0.49483421444892883, fake_loss:0.396231472492
218
step:24125, recons_loss:0.15746472775936127, g_loss:1.191468596458435,
d_loss:0.4272958040237427, real_loss:0.3017684817314148, fake_loss:0.5528231263160
706
step:24175, recons_loss:0.16213804483413696, g_loss:1.14076828956604,
d_loss:0.449662446975708, real_loss:0.3887692093849182, fake_loss:0.51055568456649
78
step:24225, recons_loss:0.16722561419010162, g_loss:1.4866315126419067,
d_loss:0.5554452538490295, real_loss:0.7406951785087585, fake_loss:0.3701952993869
7815

step:24275, recons_loss:0.16380448639392853, g_loss:1.3352571725845337,
d_loss:0.48870140314102173, real_loss:0.4136248230934143, fake_loss:0.563777983188
6292

step:24325, recons_loss:0.1612669825553894, g_loss:1.2504216432571411,
d_loss:0.4900118112564087, real_loss:0.5468604564666748, fake_loss:0.4331631660461
426

step:24362, recons_loss:0.15828043222427368, g_loss:1.6246201992034912,
d_loss:0.3527771830558777, real_loss:0.422445148229599, fake_loss:0.28310924768447
876

step:24412, recons_loss:0.1589871048927307, g_loss:1.3036768436431885,
d_loss:1.1650112867355347, real_loss:0.365195631980896, fake_loss:1.96482694149017
33

step:24462, recons_loss:0.16016219556331635, g_loss:1.1499993801116943,
d_loss:0.4493255913257599, real_loss:0.41320717334747314, fake_loss:0.485444009304
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step:24512, recons_loss:0.15496012568473816, g_loss:1.1534475088119507,
d_loss:0.4253922998905182, real_loss:0.382546067237854, fake_loss:0.46823853254318
24

step:24562, recons_loss:0.16339163482189178, g_loss:1.310709834098816,
d_loss:0.43304821848869324, real_loss:0.32989418506622314, fake_loss:0.53620225191
11633

step:24612, recons_loss:0.16506704688072205, g_loss:1.3725306987762451,
d_loss:0.5219763517379761, real_loss:0.551758885383606, fake_loss:0.49219384789466
86

step:24662, recons_loss:0.16510722041130066, g_loss:1.414495825767517,
d_loss:0.45345479249954224, real_loss:0.5049163103103638, fake_loss:0.401993274688
7207

step:24712, recons_loss:0.15509964525699615, g_loss:1.4948735237121582,
d_loss:0.47555339336395264, real_loss:0.5695363879203796, fake_loss:0.381570428609
848

step:24762, recons_loss:0.1672348529100418, g_loss:1.489086627960205,
d_loss:0.3964674472808838, real_loss:0.3845304846763611, fake_loss:0.4084044098854
065

step:24812, recons_loss:0.1600189357995987, g_loss:1.6785086393356323,
d_loss:0.47378671169281006, real_loss:0.668984055519104, fake_loss:0.2785893678665
161

step:24862, recons_loss:0.17054317891597748, g_loss:1.6151491403579712,
d_loss:0.4629952907562256, real_loss:0.5621325969696045, fake_loss:0.3638579547405
243

step:24912, recons_loss:0.16103072464466095, g_loss:1.3327125310897827,
d_loss:0.47438573837280273, real_loss:0.4872412383556366, fake_loss:0.461530268192
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step:24962, recons_loss:0.1589093655347824, g_loss:1.5217151641845703,
d_loss:0.44402188062667847, real_loss:0.5798858404159546, fake_loss:0.308157920837
40234

step:25012, recons_loss:0.16535085439682007, g_loss:1.301477074623108,
d_loss:0.46387502551078796, real_loss:0.4881291389465332, fake_loss:0.439620912075
0427

step:25062, recons_loss:0.1666850447654724, g_loss:1.719175100326538,
d_loss:0.4851817190647125, real_loss:0.7126337885856628, fake_loss:0.2577296495437
622

step:25112, recons_loss:0.16022230684757233, g_loss:1.5414481163024902,
d_loss:0.4220396876335144, real_loss:0.5313692092895508, fake_loss:0.3127101659774
78

step:25162, recons_loss:0.15757377445697784, g_loss:1.1595849990844727,
d_loss:0.4885174334049225, real_loss:0.48448193073272705, fake_loss:0.492552936077
1179

step:25212, recons_loss:0.15230688452720642, g_loss:1.0074769258499146,
d_loss:0.5047760605812073, real_loss:0.45114320516586304, fake_loss:0.558408915996
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step:25262, recons_loss:0.1644502729177475, g_loss:1.2134177684783936,
d_loss:0.42729881405830383, real_loss:0.3937684893608093, fake_loss:0.460829138755
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step:25299, recons_loss:0.16341252624988556, g_loss:1.2794536352157593,
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step:25449, recons_loss:0.16495729982852936, g_loss:1.4049863815307617,
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step:25499, recons_loss:0.16301147639751434, g_loss:1.641932725906372,
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step:25549, recons_loss:0.1641407012939453, g_loss:1.506260871887207,
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step:25599, recons_loss:0.1584741473197937, g_loss:1.096847414970398,
d_loss:0.6019500494003296, real_loss:0.6843587160110474, fake_loss:0.5195413827896
118

step:25649, recons_loss:0.16654905676841736, g_loss:1.3883848190307617,
d_loss:0.46717023849487305, real_loss:0.5378265976905823, fake_loss:0.396513849496
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step:25699, recons_loss:0.1603669375181198, g_loss:1.4249622821807861,
d_loss:0.5347360372543335, real_loss:0.7084649205207825, fake_loss:0.3610072135925
293

step:25749, recons_loss:0.17128391563892365, g_loss:1.269621729850769,
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13

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step:25999, recons_loss:0.1608881652355194, g_loss:1.3317567110061646,
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step:26099, recons_loss:0.1620861291885376, g_loss:1.434206247329712,
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step:26149, recons_loss:0.16412416100502014, g_loss:1.1709524393081665,
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step:26386, recons_loss:0.16092738509178162, g_loss:1.3296895027160645,
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step:26436, recons_loss:0.17426688969135284, g_loss:1.5837658643722534,
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step:26486, recons_loss:0.16177582740783691, g_loss:1.3238931894302368,
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step:26586, recons_loss:0.15380972623825073, g_loss:1.3839538097381592,
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86
step:26636, recons_loss:0.16348406672477722, g_loss:1.2555317878723145,
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27
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198

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step:27173, recons_loss:0.15659897029399872, g_loss:1.4812920093536377,
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38
step:27223, recons_loss:0.16950762271881104, g_loss:1.2932065725326538,
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step:27273, recons_loss:0.16815263032913208, g_loss:1.3865485191345215,
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329
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step:27473, recons_loss:0.15477845072746277, g_loss:1.2109161615371704,
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354

step:27823, recons_loss:0.15651695430278778, g_loss:1.1098849773406982,
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d_loss:0.4731701612472534, real_loss:0.34492063522338867, fake_loss:0.601419687271
1182

step:28110, recons_loss:0.17098814249038696, g_loss:1.4306731224060059,
d_loss:0.5677919387817383, real_loss:0.6050378680229187, fake_loss:0.5305460095405
579

step:28160, recons_loss:0.16299869120121002, g_loss:1.502271294593811,
d_loss:0.43460071086883545, real_loss:0.5352367162704468, fake_loss:0.333964705467
2241

step:28210, recons_loss:0.16353781521320343, g_loss:1.0781126022338867,
d_loss:0.4460349678993225, real_loss:0.3758973777294159, fake_loss:0.5161725282669
067

step:28260, recons_loss:0.1574314683675766, g_loss:1.4879220724105835,
d_loss:0.5379131436347961, real_loss:0.7201259732246399, fake_loss:0.3557002842426
3

step:28310, recons_loss:0.15704429149627686, g_loss:1.6394046545028687,
d_loss:0.6193968057632446, real_loss:0.779025673866272, fake_loss:0.45976790785789
49

step:28360, recons_loss:0.1715928614139557, g_loss:1.4864956140518188,
d_loss:0.470780611038208, real_loss:0.602608323097229, fake_loss:0.338952928781509
4

step:28410, recons_loss:0.1712496131658554, g_loss:1.4087201356887817,
d_loss:0.4270167350769043, real_loss:0.5060136914253235, fake_loss:0.3480197489261
627

step:28460, recons_loss:0.16414132714271545, g_loss:1.5481994152069092,
d_loss:0.424891859292984, real_loss:0.5216737985610962, fake_loss:0.32810992002487
18

step:28510, recons_loss:0.15732450783252716, g_loss:1.1105036735534668,
d_loss:0.4604990780353546, real_loss:0.4179025888442993, fake_loss:0.5030955672264
099

step:28560, recons_loss:0.1640796661376953, g_loss:1.0981754064559937,
d_loss:0.555322527885437, real_loss:0.41795849800109863, fake_loss:0.6926865577697
754

step:28610, recons_loss:0.16182832419872284, g_loss:1.596235752105713,
d_loss:0.4962809681892395, real_loss:0.6859517097473145, fake_loss:0.3066102266311
6455

step:28660, recons_loss:0.15981708467006683, g_loss:1.020639181137085,
d_loss:0.5428022146224976, real_loss:0.5101160407066345, fake_loss:0.5754884481430
054

step:28710, recons_loss:0.15592510998249054, g_loss:1.3532532453536987,
d_loss:0.4645006060600281,real_loss:0.5429835319519043,fake_loss:0.3860176503658
2947

step:28760, recons_loss:0.15472014248371124, g_loss:1.1289318799972534,
d_loss:0.49768537282943726,real_loss:0.4792807698249817,fake_loss:0.516089975833
8928

step:28810, recons_loss:0.15934480726718903, g_loss:1.5589394569396973,
d_loss:0.48331648111343384,real_loss:0.6339123845100403,fake_loss:0.332720577716
8274

step:28860, recons_loss:0.17450670897960663, g_loss:1.077065348625183,
d_loss:0.46025681495666504,real_loss:0.3917294442653656,fake_loss:0.528784155845
6421

step:28910, recons_loss:0.15950150787830353, g_loss:1.1969770193099976,
d_loss:0.5728964805603027,real_loss:0.6071917414665222,fake_loss:0.5386011600494
385

step:28960, recons_loss:0.16484692692756653, g_loss:1.312840223312378,
d_loss:0.5047482252120972,real_loss:0.6063888072967529,fake_loss:0.4031077027320
862

step:29010, recons_loss:0.16812554001808167, g_loss:0.9788402915000916,
d_loss:0.5817117691040039,real_loss:0.3653082847595215,fake_loss:0.7981153130531
311

step:29047, recons_loss:0.16730856895446777, g_loss:1.2553105354309082,
d_loss:0.4986470937728882,real_loss:0.5350873470306396,fake_loss:0.4622068405151
367

step:29097, recons_loss:0.15668083727359772, g_loss:1.2459872961044312,
d_loss:0.5613872408866882,real_loss:0.705215334892273,fake_loss:0.41755917668342
59

step:29147, recons_loss:0.16684621572494507, g_loss:1.265153169631958,
d_loss:0.47619134187698364,real_loss:0.4898519515991211,fake_loss:0.462530761957
1686

step:29197, recons_loss:0.16691134870052338, g_loss:1.4634381532669067,
d_loss:0.45281633734703064,real_loss:0.5634852647781372,fake_loss:0.342147409915
9241

step:29247, recons_loss:0.15274439752101898, g_loss:1.09142005443573,
d_loss:0.48727840185165405,real_loss:0.4665660262107849,fake_loss:0.507990777492
5232

step:29297, recons_loss:0.15820957720279694, g_loss:1.424787998199463,
d_loss:0.5109924077987671,real_loss:0.6527762413024902,fake_loss:0.3692086338996
887

step:29347, recons_loss:0.16221289336681366, g_loss:1.375333309173584,
d_loss:0.495161235332489,real_loss:0.5443247556686401,fake_loss:0.44599768519401
55

step:29397, recons_loss:0.15955358743667603, g_loss:1.1779234409332275,
d_loss:0.4746575355529785,real_loss:0.4727151691913605,fake_loss:0.4765999317169
1895

step:29447, recons_loss:0.1711181253194809, g_loss:1.307725429534912,
d_loss:0.5292527675628662,real_loss:0.5886568427085876,fake_loss:0.4698486626148
224

step:29497, recons_loss:0.16518893837928772, g_loss:0.9793439507484436,
d_loss:0.4668394923210144,real_loss:0.3255421221256256,fake_loss:0.6081368923187
256

step:29547, recons_loss:0.16486887633800507, g_loss:1.0870927572250366,
d_loss:0.45900699496269226,real_loss:0.32856446504592896,fake_loss:0.58944952487
94556

step:29597, recons_loss:0.1595984846353531, g_loss:1.1008373498916626,
d_loss:0.461525559425354, real_loss:0.4195370376110077, fake_loss:0.50351405143737
79

step:29647, recons_loss:0.15946491062641144, g_loss:1.4135582447052002,
d_loss:1.3507976531982422, real_loss:0.7602342367172241, fake_loss:1.9413609504699
707

step:29697, recons_loss:0.16246065497398376, g_loss:1.2083507776260376,
d_loss:0.5275934338569641, real_loss:0.6502872705459595, fake_loss:0.4048995971679
6875

step:29747, recons_loss:0.15781359374523163, g_loss:1.5746686458587646,
d_loss:0.4873560070991516, real_loss:0.6611597537994385, fake_loss:0.3135522305965
4236

step:29797, recons_loss:0.15630356967449188, g_loss:0.9939691424369812,
d_loss:0.4733145236968994, real_loss:0.27441510558128357, fake_loss:0.672213912010
1929

step:29847, recons_loss:0.16652531921863556, g_loss:1.2047045230865479,
d_loss:0.46613967418670654, real_loss:0.4955490529537201, fake_loss:0.436730325222
0154

step:29897, recons_loss:0.16105836629867554, g_loss:1.0933489799499512,
d_loss:0.5408207178115845, real_loss:0.41461026668548584, fake_loss:0.667031168937
6831

step:29947, recons_loss:0.17102770507335663, g_loss:1.175549030303955,
d_loss:0.46230220794677734, real_loss:0.44709110260009766, fake_loss:0.47751328349
113464

step:29984, recons_loss:0.15979231894016266, g_loss:1.1813271045684814,
d_loss:0.500069260597229, real_loss:0.512453556060791, fake_loss:0.487684994935989
4

step:30034, recons_loss:0.16814053058624268, g_loss:1.5457539558410645,
d_loss:0.4567496180534363, real_loss:0.5705583095550537, fake_loss:0.3429409265518
1885

step:30084, recons_loss:0.1703290343284607, g_loss:1.5363894701004028,
d_loss:0.4540579319000244, real_loss:0.5752264857292175, fake_loss:0.3328893780708
313

step:30134, recons_loss:0.16718517243862152, g_loss:1.2894963026046753,
d_loss:0.39963972568511963, real_loss:0.36623358726501465, fake_loss:0.43304586410
52246

step:30184, recons_loss:0.15795934200286865, g_loss:1.2139490842819214,
d_loss:0.44547390937805176, real_loss:0.36021435260772705, fake_loss:0.53073346614
83765

step:30234, recons_loss:0.16567932069301605, g_loss:1.503063440322876,
d_loss:0.48327621817588806, real_loss:0.5468806624412537, fake_loss:0.419671773910
52246

step:30284, recons_loss:0.16275367140769958, g_loss:1.5537269115447998,
d_loss:0.5977611541748047, real_loss:0.8832727670669556, fake_loss:0.3122495412826
538

step:30334, recons_loss:0.1647491753101349, g_loss:1.1043208837509155,
d_loss:0.4583183825016022, real_loss:0.29488205909729004, fake_loss:0.621754705905
9143

step:30384, recons_loss:0.16703899204730988, g_loss:1.3210880756378174,
d_loss:0.3639509081840515, real_loss:0.3093307912349701, fake_loss:0.4185710549354
553

step:30434, recons_loss:0.16880494356155396, g_loss:1.2594358921051025,
d_loss:0.49965640902519226, real_loss:0.5080878138542175, fake_loss:0.491225004196
167

step:30484, recons_loss:0.15727682411670685, g_loss:1.6212157011032104,
d_loss:0.5064443945884705, real_loss:0.6849468946456909, fake_loss:0.3279418945312
5
step:30534, recons_loss:0.16431930661201477, g_loss:1.1250840425491333,
d_loss:0.46457579731941223, real_loss:0.4388207197189331, fake_loss:0.490330874919
89136
step:30584, recons_loss:0.15943433344364166, g_loss:1.506525993347168,
d_loss:0.5402640104293823, real_loss:0.7714142799377441, fake_loss:0.3091136813163
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step:30634, recons_loss:0.16938936710357666, g_loss:1.1402064561843872,
d_loss:0.4941312074661255, real_loss:0.4621421992778778, fake_loss:0.5261201858520
508
step:30684, recons_loss:0.1678677350282669, g_loss:1.1833869218826294,
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step:30734, recons_loss:0.16556571424007416, g_loss:1.1351476907730103,
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35
step:30784, recons_loss:0.16477130353450775, g_loss:1.1957918405532837,
d_loss:0.6125322580337524, real_loss:0.7843486070632935, fake_loss:0.4407159388065
338
step:30834, recons_loss:0.16317623853683472, g_loss:0.9767076969146729,
d_loss:0.48124122619628906, real_loss:0.30164775252342224, fake_loss:0.66083467006
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step:30884, recons_loss:0.16245506703853607, g_loss:1.347827434539795,
d_loss:0.4376094937324524, real_loss:0.4927775263786316, fake_loss:0.3824414908885
956
step:30921, recons_loss:0.16531246900558472, g_loss:1.0953994989395142,
d_loss:0.5513999462127686, real_loss:0.5797936320304871, fake_loss:0.5230062007904
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step:30971, recons_loss:0.16841965913772583, g_loss:1.1643184423446655,
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914
step:31021, recons_loss:0.16820232570171356, g_loss:1.3249772787094116,
d_loss:0.4970429539680481, real_loss:0.5806485414505005, fake_loss:0.4134373664855
957
step:31071, recons_loss:0.16884063184261322, g_loss:0.9894899129867554,
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969
step:31121, recons_loss:0.15981905162334442, g_loss:1.3287400007247925,
d_loss:0.5389684438705444, real_loss:0.6127501726150513, fake_loss:0.4651867747306
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step:31171, recons_loss:0.16552461683750153, g_loss:1.5388550758361816,
d_loss:0.5208128094673157, real_loss:0.720805823802948, fake_loss:0.32081982493400
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step:31221, recons_loss:0.1636674404144287, g_loss:1.2449225187301636,
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step:31271, recons_loss:0.16349172592163086, g_loss:1.2368751764297485,
d_loss:0.4847657084465027, real_loss:0.5129053592681885, fake_loss:0.4566260278224
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step:31321, recons_loss:0.1637723445892334, g_loss:1.3282313346862793,
d_loss:0.4468945264816284, real_loss:0.5100090503692627, fake_loss:0.3837799727916
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step:31371, recons_loss:0.16668562591075897, g_loss:1.1543039083480835,
d_loss:0.3911473751068115,real_loss:0.23926123976707458,fake_loss:0.543033480644
2261

step:31421, recons_loss:0.16257549822330475, g_loss:1.4099278450012207,
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step:31471, recons_loss:0.16345642507076263, g_loss:1.0773252248764038,
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step:31521, recons_loss:0.16070905327796936, g_loss:1.3998926877975464,
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step:31621, recons_loss:0.16187554597854614, g_loss:1.302931547164917,
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5

step:31671, recons_loss:0.1659289002418518, g_loss:0.9072597622871399,
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step:31721, recons_loss:0.1710735559463501, g_loss:1.3365787267684937,
d_loss:0.5344995260238647,real_loss:0.668926477432251,fake_loss:0.40007251501083
374

step:31771, recons_loss:0.16019928455352783, g_loss:1.2306442260742188,
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315

step:31821, recons_loss:0.159303680062294, g_loss:1.2402347326278687,
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step:31858, recons_loss:0.15172480046749115, g_loss:1.463294506072998,
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28

step:31908, recons_loss:0.16503123939037323, g_loss:1.2894628047943115,
d_loss:0.47571149468421936,real_loss:0.5287300944328308,fake_loss:0.422692894935
6079

step:31958, recons_loss:0.1606641709804535, g_loss:1.211027979850769,
d_loss:0.49350932240486145,real_loss:0.47343844175338745,fake_loss:0.51358020305
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step:32008, recons_loss:0.15909674763679504, g_loss:1.2121466398239136,
d_loss:0.542050838470459,real_loss:0.5667340755462646,fake_loss:0.51736760139465
33

step:32058, recons_loss:0.15852415561676025, g_loss:1.3089287281036377,
d_loss:0.5516811609268188,real_loss:0.6680650115013123,fake_loss:0.4352972507476
8066

step:32108, recons_loss:0.1755579262971878, g_loss:1.3194767236709595,
d_loss:0.44968169927597046,real_loss:0.5004668831825256,fake_loss:0.398896545171
73767

step:32158, recons_loss:0.1696474701166153, g_loss:1.2426215410232544,
d_loss:0.4353722929954529,real_loss:0.444102942943573,fake_loss:0.42664164304733
276

step:32208, recons_loss:0.15769895911216736, g_loss:1.2311409711837769,
d_loss:0.5386902689933777,real_loss:0.5608550310134888,fake_loss:0.5165255069732
666

step:32258, recons_loss:0.16825231909751892, g_loss:1.033310055732727,
d_loss:0.44002267718315125, real_loss:0.3294176459312439, fake_loss:0.550627708435
0586

step:32308, recons_loss:0.16834630072116852, g_loss:1.2438685894012451,
d_loss:0.5817923545837402, real_loss:0.7302440404891968, fake_loss:0.4333407282829
2847

step:32358, recons_loss:0.16092835366725922, g_loss:1.2702935934066772,
d_loss:0.4465803802013397, real_loss:0.45579278469085693, fake_loss:0.437367975711
8225

step:32408, recons_loss:0.16239111125469208, g_loss:1.4295527935028076,
d_loss:0.4986232817173004, real_loss:0.6302515268325806, fake_loss:0.3669950366020
2026

step:32458, recons_loss:0.16500666737556458, g_loss:1.3633651733398438,
d_loss:0.4749951958656311, real_loss:0.5779237151145935, fake_loss:0.3720666766166
687

step:32508, recons_loss:0.1671612560749054, g_loss:1.3836313486099243,
d_loss:0.39469245076179504, real_loss:0.4182162880897522, fake_loss:0.371168613433
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step:32558, recons_loss:0.16101597249507904, g_loss:1.4478521347045898,
d_loss:0.6167097687721252, real_loss:0.8429787158966064, fake_loss:0.3904408514499
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step:32608, recons_loss:0.16457153856754303, g_loss:1.3835034370422363,
d_loss:0.4148057699203491, real_loss:0.3930642604827881, fake_loss:0.4365472793579
1016

step:32658, recons_loss:0.16640575230121613, g_loss:1.2358169555664062,
d_loss:0.589740514755249, real_loss:0.7270883321762085, fake_loss:0.45239269733428
955

step:32708, recons_loss:0.1648625284433365, g_loss:1.2361400127410889,
d_loss:0.43787330389022827, real_loss:0.4729169011116028, fake_loss:0.402829706668
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step:32758, recons_loss:0.16724218428134918, g_loss:1.0945099592208862,
d_loss:0.45961812138557434, real_loss:0.4065869450569153, fake_loss:0.512649297714
2334

step:32795, recons_loss:0.16190890967845917, g_loss:1.1892540454864502,
d_loss:0.5004417300224304, real_loss:0.5009406805038452, fake_loss:0.4999427795410
156

step:32845, recons_loss:0.16156268119812012, g_loss:1.3165712356567383,
d_loss:0.5755405426025391, real_loss:0.6651354432106018, fake_loss:0.4859456419944
763

step:32895, recons_loss:0.16741366684436798, g_loss:1.4753708839416504,
d_loss:0.502506673336029, real_loss:0.638375461101532, fake_loss:0.366637855768203
74

step:32945, recons_loss:0.1649879664182663, g_loss:1.36630117893219,
d_loss:0.42160582542419434, real_loss:0.4731915593147278, fake_loss:0.370020091533
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step:32995, recons_loss:0.16523006558418274, g_loss:1.2604745626449585,
d_loss:0.5298853516578674, real_loss:0.6367190480232239, fake_loss:0.4230516552925
11

step:33045, recons_loss:0.1586402803659439, g_loss:1.2168521881103516,
d_loss:0.43126675486564636, real_loss:0.39246270060539246, fake_loss:0.47007080912
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step:33095, recons_loss:0.15971896052360535, g_loss:1.0743592977523804,
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step:33145, recons_loss:0.16331465542316437, g_loss:1.2952443361282349,
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step:33195, recons_loss:0.1631205528974533, g_loss:1.2457166910171509,
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step:33245, recons_loss:0.16196222603321075, g_loss:0.9091862440109253,
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96
step:33295, recons_loss:0.16286751627922058, g_loss:1.4585578441619873,
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step:33345, recons_loss:0.16817672550678253, g_loss:0.9926605224609375,
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step:33395, recons_loss:0.16530652344226837, g_loss:1.180429220199585,
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step:33445, recons_loss:0.1570553332567215, g_loss:1.4595277309417725,
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step:33495, recons_loss:0.1601695418357849, g_loss:1.1551790237426758,
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step:33545, recons_loss:0.16537004709243774, g_loss:1.0657933950424194,
d_loss:0.4895838797092438, real_loss:0.43883150815963745, fake_loss:0.540336251258
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step:33595, recons_loss:0.17273883521556854, g_loss:1.1019268035888672,
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step:33645, recons_loss:0.16674894094467163, g_loss:1.1141527891159058,
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step:33695, recons_loss:0.16828124225139618, g_loss:1.3396713733673096,
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step:33832, recons_loss:0.16746161878108978, g_loss:1.5307881832122803,
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step:33932, recons_loss:0.16611242294311523, g_loss:1.364824652671814,
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step:33982, recons_loss:0.16467510163784027, g_loss:1.146785855293274,
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step:34032, recons_loss:0.1655399352312088, g_loss:1.3968350887298584,
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step:34182, recons_loss:0.16360722482204437, g_loss:1.2935116291046143,
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592

step:34232, recons_loss:0.1636895090341568, g_loss:1.2458887100219727,
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step:34282, recons_loss:0.16119152307510376, g_loss:1.3367165327072144,
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step:35019, recons_loss:0.15979643166065216, g_loss:1.0583552122116089,
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step:35319, recons_loss:0.16410033404827118, g_loss:1.1865378618240356,
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step:35606, recons_loss:0.1653103083372116, g_loss:1.2713181972503662,
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step:35656, recons_loss:0.15933890640735626, g_loss:1.2477113008499146,
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step:35856, recons_loss:0.1655188500881195, g_loss:1.3213536739349365,
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step:35906, recons_loss:0.16476549208164215, g_loss:1.2271133661270142,
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26

step:36156, recons_loss:0.1669364869594574, g_loss:1.001659631729126,
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step:36206, recons_loss:0.16880813241004944, g_loss:1.2055245637893677,
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step:36506, recons_loss:0.172468364238739, g_loss:1.0774046182632446,
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step:36743, recons_loss:0.15624521672725677, g_loss:1.252101182937622,
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step:36793, recons_loss:0.16451887786388397, g_loss:1.4010311365127563,
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step:36943, recons_loss:0.17026300728321075, g_loss:1.2182483673095703,
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463

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step:37143, recons_loss:0.1627834588289261, g_loss:1.0360848903656006,
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88

step:37193, recons_loss:0.1536741405725479, g_loss:1.0829391479492188,
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888

step:37243, recons_loss:0.15560874342918396, g_loss:1.0547771453857422,
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75

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step:37980, recons_loss:0.1652529537677765, g_loss:1.204535961151123,
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d_loss:0.4927992820739746, real_loss:0.4780206084251404, fake_loss:0.5075779557228
088

step:38080, recons_loss:0.16342969238758087, g_loss:1.4966760873794556,
d_loss:0.5545459985733032, real_loss:0.8008251190185547, fake_loss:0.3082668483257
2937

step:38130, recons_loss:0.16278083622455597, g_loss:0.9447566270828247,
d_loss:0.573219895362854, real_loss:0.5148088932037354, fake_loss:0.63163089752197
27

step:38180, recons_loss:0.16409894824028015, g_loss:1.2242168188095093,
d_loss:0.5511197447776794, real_loss:0.6728286147117615, fake_loss:0.4294108748435
974

step:38230, recons_loss:0.16469264030456543, g_loss:1.055336594581604,
d_loss:0.5249619483947754, real_loss:0.48979490995407104, fake_loss:0.560129046440
1245

step:38280, recons_loss:0.1686796098947525, g_loss:0.9495852589607239,
d_loss:0.5175210237503052, real_loss:0.3349975645542145, fake_loss:0.7000444531440
735

step:38330, recons_loss:0.16098527610301971, g_loss:1.2837846279144287,
d_loss:0.4389783442020416, real_loss:0.4388982653617859, fake_loss:0.4390584230422
9736

step:38380, recons_loss:0.16557477414608002, g_loss:1.2679857015609741,
d_loss:0.5165821313858032, real_loss:0.6130827069282532, fake_loss:0.4200814962387
085

step:38417, recons_loss:0.16512052714824677, g_loss:1.0915263891220093,
d_loss:0.48495203256607056, real_loss:0.4431225061416626, fake_loss:0.526781558990
4785

step:38467, recons_loss:0.15527357161045074, g_loss:1.2365851402282715,
d_loss:0.5428813695907593, real_loss:0.5773465037345886, fake_loss:0.5084162950515
747
step:38517, recons_loss:0.1618644893169403, g_loss:0.8332043290138245,
d_loss:0.5655194520950317, real_loss:0.35626116394996643, fake_loss:0.774777770042
4194
step:38567, recons_loss:0.16084299981594086, g_loss:1.3322372436523438,
d_loss:0.5177783966064453, real_loss:0.5408437252044678, fake_loss:0.4947130680084
2285
step:38617, recons_loss:0.1591455042362213, g_loss:1.1899101734161377,
d_loss:0.49692675471305847, real_loss:0.542424201965332, fake_loss:0.4514293074607
849
step:38667, recons_loss:0.1564410775899887, g_loss:1.025306224822998,
d_loss:0.5390195846557617, real_loss:0.45162004232406616, fake_loss:0.626419067382
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step:38717, recons_loss:0.16292917728424072, g_loss:1.2225350141525269,
d_loss:0.4432389736175537, real_loss:0.4423648715019226, fake_loss:0.4441130757331
848
step:38767, recons_loss:0.16743719577789307, g_loss:1.1178770065307617,
d_loss:0.5273289680480957, real_loss:0.5083920955657959, fake_loss:0.5462658405303
955
step:38817, recons_loss:0.17131970822811127, g_loss:1.4001561403274536,
d_loss:0.4964134693145752, real_loss:0.5649775266647339, fake_loss:0.4278494119644
165
step:38867, recons_loss:0.1618398278951645, g_loss:1.419384479522705,
d_loss:0.48920267820358276, real_loss:0.6386516094207764, fake_loss:0.339753776788
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step:38917, recons_loss:0.16312165558338165, g_loss:1.3882777690887451,
d_loss:0.5008123517036438, real_loss:0.6228231191635132, fake_loss:0.3788016140460
968
step:38967, recons_loss:0.16120848059654236, g_loss:1.3395031690597534,
d_loss:0.5332158803939819, real_loss:0.6253417134284973, fake_loss:0.4410899877548
218
step:39017, recons_loss:0.15550656616687775, g_loss:1.1894214153289795,
d_loss:0.44353583455085754, real_loss:0.4327046275138855, fake_loss:0.454367041587
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step:39067, recons_loss:0.15753096342086792, g_loss:1.3782902956008911,
d_loss:0.484993577003479, real_loss:0.5952500104904175, fake_loss:0.37473711371421
814
step:39117, recons_loss:0.16462421417236328, g_loss:1.196528673171997,
d_loss:0.4725971221923828, real_loss:0.520720899105072, fake_loss:0.42447334527969
36
step:39167, recons_loss:0.1673242449760437, g_loss:1.0516445636749268,
d_loss:0.5572872757911682, real_loss:0.5395107269287109, fake_loss:0.5750638246536
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step:39217, recons_loss:0.16733044385910034, g_loss:1.2499592304229736,
d_loss:0.48104897141456604, real_loss:0.5208144783973694, fake_loss:0.441283464431
7627
step:39267, recons_loss:0.15786166489124298, g_loss:1.477142333984375,
d_loss:0.5158893465995789, real_loss:0.7038304805755615, fake_loss:0.3279482126235
962
step:39317, recons_loss:0.17315568029880524, g_loss:1.1434953212738037,
d_loss:0.5238492488861084, real_loss:0.5602379441261292, fake_loss:0.4874605536460
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step:39354, recons_loss:0.16028445959091187, g_loss:1.165588617324829,
d_loss:0.5138852596282959, real_loss:0.5546009540557861, fake_loss:0.4731695652008
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step:39404, recons_loss:0.1582217812538147, g_loss:1.1774357557296753,
d_loss:0.4950374364852905, real_loss:0.5210026502609253, fake_loss:0.4690722227096
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step:39454, recons_loss:0.1622435301542282, g_loss:1.4009888172149658,
d_loss:0.5875065326690674, real_loss:0.7622812390327454, fake_loss:0.4127318561077
118
step:39504, recons_loss:0.1704423874616623, g_loss:1.0022039413452148,
d_loss:0.5021992325782776, real_loss:0.4437708556652069, fake_loss:0.5606276392936
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step:39554, recons_loss:0.16372917592525482, g_loss:1.2564290761947632,
d_loss:0.5419735908508301, real_loss:0.6279215216636658, fake_loss:0.4560256004333
496
step:39604, recons_loss:0.16393053531646729, g_loss:1.3440927267074585,
d_loss:0.5543546080589294, real_loss:0.6437743306159973, fake_loss:0.4649348855018
616
step:39654, recons_loss:0.16566091775894165, g_loss:1.1281582117080688,
d_loss:0.5464504957199097, real_loss:0.5971783399581909, fake_loss:0.4957226514816
284
step:39704, recons_loss:0.15687070786952972, g_loss:1.303870677947998,
d_loss:0.6090126037597656, real_loss:0.8214870691299438, fake_loss:0.3965381979942
322
step:39754, recons_loss:0.16168653964996338, g_loss:0.9212762117385864,
d_loss:0.5054071545600891, real_loss:0.35682427883148193, fake_loss:0.653990030288
6963
step:39804, recons_loss:0.16836391389369965, g_loss:1.2382501363754272,
d_loss:0.5021820664405823, real_loss:0.4934602677822113, fake_loss:0.5109038352966
309
step:39854, recons_loss:0.165286123752594, g_loss:1.123344898223877,
d_loss:0.5394318699836731, real_loss:0.5607007741928101, fake_loss:0.5181629657745
361
step:39904, recons_loss:0.16046229004859924, g_loss:1.060774326324463,
d_loss:0.5287842750549316, real_loss:0.5372297167778015, fake_loss:0.5203388929367
065
step:39954, recons_loss:0.1597663313150406, g_loss:0.8342600464820862,
d_loss:0.595255970954895, real_loss:0.40790417790412903, fake_loss:0.7826077938079
834
step:40004, recons_loss:0.16910912096500397, g_loss:1.6277318000793457,
d_loss:0.5282372236251831, real_loss:0.7710105776786804, fake_loss:0.2854639291763
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step:40054, recons_loss:0.16259706020355225, g_loss:0.9942277669906616,
d_loss:0.4990960657596588, real_loss:0.46387964487075806, fake_loss:0.534312486648
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step:40104, recons_loss:0.15422435104846954, g_loss:1.1592564582824707,
d_loss:0.5429223775863647, real_loss:0.6259104013442993, fake_loss:0.4599343836307
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step:40154, recons_loss:0.16550102829933167, g_loss:1.0379054546356201,
d_loss:0.5072078704833984, real_loss:0.46218621730804443, fake_loss:0.552229583263
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step:40204, recons_loss:0.1686752885580063, g_loss:1.01092529296875,
d_loss:0.5320191979408264, real_loss:0.4476594924926758, fake_loss:0.6163789033889
77

step:40254, recons_loss:0.16818201541900635, g_loss:1.1364322900772095,
d_loss:0.555535554885864, real_loss:0.586676836013794, fake_loss:0.52443027496337
89
step:40291, recons_loss:0.17196547985076904, g_loss:1.13831627368927,
d_loss:0.505540132522583, real_loss:0.5398398041725159, fake_loss:0.47124049067497
253
step:40341, recons_loss:0.15954461693763733, g_loss:1.117114543914795,
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695
step:40391, recons_loss:0.1587696224451065, g_loss:1.200080394744873,
d_loss:0.5508850812911987, real_loss:0.6469939947128296, fake_loss:0.4547761678695
6787
step:40441, recons_loss:0.153608500957489, g_loss:1.0162451267242432,
d_loss:0.5518138408660889, real_loss:0.4177159070968628, fake_loss:0.6859118342399
597
step:40491, recons_loss:0.15604998171329498, g_loss:1.213355302810669,
d_loss:0.5554384589195251, real_loss:0.6500256061553955, fake_loss:0.4608512818813
324
step:40541, recons_loss:0.15877558290958405, g_loss:1.1553395986557007,
d_loss:0.526059627532959, real_loss:0.5302425622940063, fake_loss:0.52187669277191
16
step:40591, recons_loss:0.16274090111255646, g_loss:1.13148832321167,
d_loss:0.5463415384292603, real_loss:0.5308976769447327, fake_loss:0.5617853403091
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step:40641, recons_loss:0.16206789016723633, g_loss:1.2447665929794312,
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step:40691, recons_loss:0.15415434539318085, g_loss:1.300380825996399,
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step:40741, recons_loss:0.16587238013744354, g_loss:1.2299797534942627,
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step:40791, recons_loss:0.16441169381141663, g_loss:1.22885262966156,
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step:40841, recons_loss:0.1674100160598755, g_loss:1.238704800605774,
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step:40891, recons_loss:0.171054407954216, g_loss:1.2680851221084595,
d_loss:0.5883692502975464, real_loss:0.7457393407821655, fake_loss:0.4309992194175
72
step:40941, recons_loss:0.16317126154899597, g_loss:0.985769510269165,
d_loss:0.5411444902420044, real_loss:0.48922544717788696, fake_loss:0.593063473701
477
step:40991, recons_loss:0.16659362614154816, g_loss:1.090324878692627,
d_loss:0.48942142724990845, real_loss:0.4449286162853241, fake_loss:0.533914268016
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step:41041, recons_loss:0.15919825434684753, g_loss:1.4338067770004272,
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step:41091, recons_loss:0.16199302673339844, g_loss:1.4379931688308716,
d_loss:0.5118875503540039, real_loss:0.657796323299408, fake_loss:0.36597880721092
224

step:41141, recons_loss:0.16921840608119965, g_loss:1.213666319847107,
d_loss:0.4554971158504486, real_loss:0.4953189492225647, fake_loss:0.4156752824783
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step:41191, recons_loss:0.17112474143505096, g_loss:1.2048460245132446,
d_loss:0.47710299491882324, real_loss:0.5118355751037598, fake_loss:0.442370414733
8867
step:41228, recons_loss:0.16235966980457306, g_loss:1.284640908241272,
d_loss:0.565390944480896, real_loss:0.6670931577682495, fake_loss:0.46368867158889
77
step:41278, recons_loss:0.16145439445972443, g_loss:1.2362388372421265,
d_loss:0.4956534504890442, real_loss:0.5142968893051147, fake_loss:0.4770100116729
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step:41328, recons_loss:0.16560624539852142, g_loss:1.1244441270828247,
d_loss:0.5072892904281616, real_loss:0.5263717174530029, fake_loss:0.4882068634033
203
step:41378, recons_loss:0.16123944520950317, g_loss:1.3368183374404907,
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step:41428, recons_loss:0.15995655953884125, g_loss:1.207520604133606,
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step:41478, recons_loss:0.16767780482769012, g_loss:1.1459957361221313,
d_loss:0.5870791077613831, real_loss:0.592658519744873, fake_loss:0.58149969577789
31
step:41528, recons_loss:0.1637088656425476, g_loss:1.1906757354736328,
d_loss:0.4736763536930084, real_loss:0.4872111678123474, fake_loss:0.4601415395736
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step:41578, recons_loss:0.16297104954719543, g_loss:1.271544098854065,
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689
step:41628, recons_loss:0.16001440584659576, g_loss:1.2072350978851318,
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761
step:41678, recons_loss:0.15971976518630981, g_loss:0.9649233222007751,
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495
step:41728, recons_loss:0.17410430312156677, g_loss:1.3106619119644165,
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step:41778, recons_loss:0.16072170436382294, g_loss:1.4146857261657715,
d_loss:0.5412653088569641, real_loss:0.702121376991272, fake_loss:0.38040924072265
625
step:41828, recons_loss:0.16429153084754944, g_loss:1.056923508644104,
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step:41878, recons_loss:0.16236799955368042, g_loss:1.0729622840881348,
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step:41928, recons_loss:0.16748759150505066, g_loss:1.2637040615081787,
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4824
step:41978, recons_loss:0.16162535548210144, g_loss:1.2257258892059326,
d_loss:0.5126106142997742, real_loss:0.6004950404167175, fake_loss:0.4247261881828
308

step:42028, recons_loss:0.1553492695093155, g_loss:1.1172804832458496,
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step:42078, recons_loss:0.15939779579639435, g_loss:1.237612009048462,
d_loss:0.5493058562278748,real_loss:0.6268457174301147,fake_loss:0.4717659652233
124

step:42128, recons_loss:0.16324183344841003, g_loss:1.1579047441482544,
d_loss:0.607140064239502,real_loss:0.7101748585700989,fake_loss:0.50410521030426
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step:42165, recons_loss:0.16412660479545593, g_loss:1.3838590383529663,
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997

step:42215, recons_loss:0.15706126391887665, g_loss:1.6861494779586792,
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311

step:42265, recons_loss:0.16721776127815247, g_loss:1.3337523937225342,
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5869

step:42315, recons_loss:0.16959279775619507, g_loss:1.1186984777450562,
d_loss:0.5328295230865479,real_loss:0.5585525035858154,fake_loss:0.5071064829826
355

step:42365, recons_loss:0.16185712814331055, g_loss:1.1794929504394531,
d_loss:0.4957205653190613,real_loss:0.4261845350265503,fake_loss:0.5652565956115
723

step:42415, recons_loss:0.16503149271011353, g_loss:1.0824463367462158,
d_loss:0.5111553072929382,real_loss:0.451515257358551,fake_loss:0.57079535722732
54

step:42465, recons_loss:0.1681889146566391, g_loss:1.137770414352417,
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80896

step:42515, recons_loss:0.15484675765037537, g_loss:1.358506202697754,
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step:42565, recons_loss:0.15828660130500793, g_loss:1.4307912588119507,
d_loss:0.5349674224853516,real_loss:0.7032198905944824,fake_loss:0.3667148947715
759

step:42615, recons_loss:0.16203084588050842, g_loss:1.2437077760696411,
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157837

step:42665, recons_loss:0.16771210730075836, g_loss:1.3035286664962769,
d_loss:0.5089433193206787,real_loss:0.4938381314277649,fake_loss:0.5240484476089
478

step:42715, recons_loss:0.16817104816436768, g_loss:1.176641583442688,
d_loss:0.5640125870704651,real_loss:0.6099745035171509,fake_loss:0.5180506706237
793

step:42765, recons_loss:0.16456681489944458, g_loss:1.000180721282959,
d_loss:0.561485767364502,real_loss:0.5674614906311035,fake_loss:0.55550998449325
56

step:42815, recons_loss:0.16490492224693298, g_loss:1.2854104042053223,
d_loss:0.49107158184051514,real_loss:0.5678718686103821,fake_loss:0.414271265268
3258

step:42865, recons_loss:0.17023895680904388, g_loss:1.0938291549682617,
d_loss:0.5469573736190796,real_loss:0.5351113677024841,fake_loss:0.5588033199310
303

step:42915, recons_loss:0.15817420184612274, g_loss:1.1028075218200684,
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2395

step:42965, recons_loss:0.16322848200798035, g_loss:1.2693054676055908,
d_loss:0.5049388408660889,real_loss:0.5778818130493164,fake_loss:0.4319958388805
3894

step:43015, recons_loss:0.16429577767848969, g_loss:1.0865017175674438,
d_loss:0.49234163761138916,real_loss:0.4505693018436432,fake_loss:0.534114003181
4575

step:43065, recons_loss:0.16575504839420319, g_loss:1.223331093788147,
d_loss:0.4544018507003784,real_loss:0.4704001545906067,fake_loss:0.4384035468101
5015

step:43102, recons_loss:0.16371677815914154, g_loss:1.0078601837158203,
d_loss:0.4919387102127075,real_loss:0.4123179614543915,fake_loss:0.5715594291687
012

step:43152, recons_loss:0.1670791059732437, g_loss:1.2135865688323975,
d_loss:0.4324648380279541,real_loss:0.3999570608139038,fake_loss:0.4649726152420
044

step:43202, recons_loss:0.16357137262821198, g_loss:1.4674116373062134,
d_loss:0.4527474641799927,real_loss:0.5663626790046692,fake_loss:0.3391322791576
3855

step:43252, recons_loss:0.1565743386745453, g_loss:1.1695549488067627,
d_loss:0.5325648784637451,real_loss:0.5937035083770752,fake_loss:0.4714262485504
1504

step:43302, recons_loss:0.1562318056821823, g_loss:1.2601075172424316,
d_loss:0.6059205532073975,real_loss:0.7461496591567993,fake_loss:0.4656915068626
404

step:43352, recons_loss:0.15976807475090027, g_loss:1.1933295726776123,
d_loss:0.5876142978668213,real_loss:0.6819185614585876,fake_loss:0.4933100342750
5493

step:43402, recons_loss:0.16492795944213867, g_loss:1.1170234680175781,
d_loss:0.47050249576568604,real_loss:0.4254195988178253,fake_loss:0.515585422515
8691

step:43452, recons_loss:0.16144780814647675, g_loss:1.0816748142242432,
d_loss:0.4309960603713989,real_loss:0.36402636766433716,fake_loss:0.497965782880
7831

step:43502, recons_loss:0.1540285050868988, g_loss:1.0478724241256714,
d_loss:0.5386135578155518,real_loss:0.48175936937332153,fake_loss:0.595467805862
4268

step:43552, recons_loss:0.1656949371099472, g_loss:1.4124680757522583,
d_loss:0.5646504163742065,real_loss:0.7688021659851074,fake_loss:0.3604987263679
5044

step:43602, recons_loss:0.16398966312408447, g_loss:1.2032926082611084,
d_loss:0.4895611107349396,real_loss:0.483303427696228,fake_loss:0.49581879377365
11

step:43652, recons_loss:0.1675354242324829, g_loss:1.0520868301391602,
d_loss:0.49364808201789856,real_loss:0.48856261372566223,fake_loss:0.49873355031
01349

step:43702, recons_loss:0.1591913104057312, g_loss:1.3284924030303955,
d_loss:0.5468088388442993,real_loss:0.6906825304031372,fake_loss:0.4029351472854
614

step:43752, recons_loss:0.16115206480026245, g_loss:1.1348695755004883,
d_loss:0.5466934442520142,real_loss:0.6117609739303589,fake_loss:0.4816259145736
6943

step:43802, recons_loss:0.15406376123428345, g_loss:1.3482462167739868,
d_loss:0.5225739479064941, real_loss:0.6767399907112122, fake_loss:0.3684079349040
985

step:43852, recons_loss:0.1667368859052658, g_loss:1.2040252685546875,
d_loss:0.5373305082321167, real_loss:0.538421094417572, fake_loss:0.53623998165130
62

step:43902, recons_loss:0.16708576679229736, g_loss:1.1651275157928467,
d_loss:0.5147638320922852, real_loss:0.5234681367874146, fake_loss:0.5060595273971
558

step:43952, recons_loss:0.16446352005004883, g_loss:1.0650829076766968,
d_loss:0.6023388504981995, real_loss:0.5918983221054077, fake_loss:0.6127793788909
912

step:44002, recons_loss:0.1561647355556488, g_loss:1.1850314140319824,
d_loss:0.48286521434783936, real_loss:0.4961041510105133, fake_loss:0.469626277685
1654

step:44039, recons_loss:0.1582423746585846, g_loss:1.056929349899292,
d_loss:0.5273017883300781, real_loss:0.47590872645378113, fake_loss:0.578694820404
0527

step:44089, recons_loss:0.16607506573200226, g_loss:1.0260570049285889,
d_loss:0.5118730068206787, real_loss:0.4915550947189331, fake_loss:0.5321909189224
243

step:44139, recons_loss:0.1685599982738495, g_loss:1.0070258378982544,
d_loss:0.5331525802612305, real_loss:0.47511428594589233, fake_loss:0.591190814971
9238

step:44189, recons_loss:0.16748064756393433, g_loss:1.404924750328064,
d_loss:0.5455855131149292, real_loss:0.7076996564865112, fake_loss:0.3834714293479
9194

step:44239, recons_loss:0.16050010919570923, g_loss:1.20475172996521,
d_loss:0.5584768652915955, real_loss:0.6299535632133484, fake_loss:0.4870001971721
649

step:44289, recons_loss:0.16196571290493011, g_loss:1.4883891344070435,
d_loss:0.49986714124679565, real_loss:0.6014989614486694, fake_loss:0.398235350847
24426

step:44339, recons_loss:0.15878373384475708, g_loss:1.1619256734848022,
d_loss:0.47909340262413025, real_loss:0.44906556606292725, fake_loss:0.50912123918
53333

step:44389, recons_loss:0.1587262749671936, g_loss:1.354241132736206,
d_loss:0.5810513496398926, real_loss:0.747715950012207, fake_loss:0.41438671946525
574

step:44439, recons_loss:0.1674373894929886, g_loss:1.1228420734405518,
d_loss:0.658415675163269, real_loss:0.7404707670211792, fake_loss:0.57636052370071
41

step:44489, recons_loss:0.16463030874729156, g_loss:1.138769507408142,
d_loss:0.4625259339809418, real_loss:0.4432242512702942, fake_loss:0.4818276166915
8936

step:44539, recons_loss:0.1666603833436966, g_loss:1.2824217081069946,
d_loss:0.4847474694252014, real_loss:0.5953422784805298, fake_loss:0.3741526603698
7305

step:44589, recons_loss:0.16728299856185913, g_loss:1.1834897994995117,
d_loss:0.5198346376419067, real_loss:0.5414581894874573, fake_loss:0.4982111454010
01

step:44639, recons_loss:0.15133875608444214, g_loss:1.091252088546753,
d_loss:0.4761039614677429, real_loss:0.38316479325294495, fake_loss:0.569043159484
8633

step:44689, recons_loss:0.1695958375930786, g_loss:1.0514899492263794,
d_loss:0.576635479927063, real_loss:0.5850425958633423, fake_loss:0.56822830438613
89

step:44739, recons_loss:0.16407562792301178, g_loss:1.5375733375549316,
d_loss:0.6474841833114624, real_loss:0.9294689893722534, fake_loss:0.3654993176460
266

step:44789, recons_loss:0.15907980501651764, g_loss:1.053648829460144,
d_loss:0.5048787593841553, real_loss:0.4800102412700653, fake_loss:0.5297473073005
676

step:44839, recons_loss:0.155827134847641, g_loss:1.1058367490768433,
d_loss:0.591521143913269, real_loss:0.5949189066886902, fake_loss:0.58812344074249
27

step:44889, recons_loss:0.16414763033390045, g_loss:0.9609979391098022,
d_loss:0.5512511134147644, real_loss:0.4711591899394989, fake_loss:0.6313430070877
075

step:44939, recons_loss:0.1549811065196991, g_loss:1.0707014799118042,
d_loss:0.5581157207489014, real_loss:0.5475900173187256, fake_loss:0.5686414837837
219

step:44976, recons_loss:0.16133414208889008, g_loss:1.2243144512176514,
d_loss:0.4591977000236511, real_loss:0.48095136880874634, fake_loss:0.437444061040
8783

step:45026, recons_loss:0.16462309658527374, g_loss:1.1284233331680298,
d_loss:0.4760962724685669, real_loss:0.42710819840431213, fake_loss:0.525084376335
144

step:45076, recons_loss:0.15747462213039398, g_loss:1.1918216943740845,
d_loss:0.46249711513519287, real_loss:0.45421403646469116, fake_loss:0.47078022360
801697

step:45126, recons_loss:0.16593271493911743, g_loss:1.124077558517456,
d_loss:0.5562715530395508, real_loss:0.5967993140220642, fake_loss:0.5157438516616
821

step:45176, recons_loss:0.16566060483455658, g_loss:1.2122055292129517,
d_loss:0.48477476835250854, real_loss:0.5012145042419434, fake_loss:0.468335062265
3961

step:45226, recons_loss:0.16209927201271057, g_loss:1.3498649597167969,
d_loss:0.5121399760246277, real_loss:0.6599264740943909, fake_loss:0.3643534779548
645

step:45276, recons_loss:0.16652387380599976, g_loss:1.1187289953231812,
d_loss:0.5389703512191772, real_loss:0.48382675647735596, fake_loss:0.594114005565
6433

step:45326, recons_loss:0.15466760098934174, g_loss:1.0019001960754395,
d_loss:0.49006688594818115, real_loss:0.3828270435333252, fake_loss:0.597306728363
0371

step:45376, recons_loss:0.1672012209892273, g_loss:1.059525489807129,
d_loss:0.504267156124115, real_loss:0.4921804368495941, fake_loss:0.51635384559631
35

step:45426, recons_loss:0.1687934398651123, g_loss:1.2779444456100464,
d_loss:0.49712643027305603, real_loss:0.5847817659378052, fake_loss:0.409471094608
3069

step:45476, recons_loss:0.15800350904464722, g_loss:1.198578953742981,
d_loss:0.49804383516311646, real_loss:0.506556510925293, fake_loss:0.4895311594009
3994

step:45526, recons_loss:0.16309235990047455, g_loss:1.17098867893219,
d_loss:0.48280128836631775, real_loss:0.47509485483169556, fake_loss:0.49050772190
093994

step:45576, recons_loss:0.16781030595302582, g_loss:1.1991690397262573,
d_loss:0.5570144653320312, real_loss:0.6656476259231567, fake_loss:0.4483813047409
0576

step:45626, recons_loss:0.16802331805229187, g_loss:1.3738949298858643,
d_loss:0.5169374346733093, real_loss:0.6309735178947449, fake_loss:0.4029013216495
514

step:45676, recons_loss:0.16416822373867035, g_loss:1.3124454021453857,
d_loss:0.4635602533817291, real_loss:0.5141270756721497, fake_loss:0.4129934310913
086

step:45726, recons_loss:0.15926021337509155, g_loss:1.2769572734832764,
d_loss:0.45191967487335205, real_loss:0.4697609841823578, fake_loss:0.434078335762
0239

step:45776, recons_loss:0.1651155799627304, g_loss:1.307407259941101,
d_loss:0.5491771697998047, real_loss:0.6875104904174805, fake_loss:0.4108437895774
8413

step:45826, recons_loss:0.1652849167585373, g_loss:0.9761868119239807,
d_loss:0.5067199468612671, real_loss:0.38758981227874756, fake_loss:0.625850081443
7866

step:45876, recons_loss:0.16398359835147858, g_loss:1.1540288925170898,
d_loss:0.4762294292449951, real_loss:0.5167708396911621, fake_loss:0.4356880187988
281

step:45913, recons_loss:0.16272398829460144, g_loss:1.1959940195083618,
d_loss:0.492334246635437, real_loss:0.4859195053577423, fake_loss:0.49874901771545
41

step:45963, recons_loss:0.16110458970069885, g_loss:1.0782241821289062,
d_loss:0.49021491408348083, real_loss:0.49577975273132324, fake_loss:0.48465007543
56384

step:46013, recons_loss:0.16148675978183746, g_loss:1.4786521196365356,
d_loss:0.5086693167686462, real_loss:0.6954256296157837, fake_loss:0.3219130337238
312

step:46063, recons_loss:0.1626308560371399, g_loss:1.1454678773880005,
d_loss:0.4836776852607727, real_loss:0.4822039008140564, fake_loss:0.4851514697074
89

step:46113, recons_loss:0.1597098410129547, g_loss:0.9860217571258545,
d_loss:0.524610161781311, real_loss:0.4445497393608093, fake_loss:0.60467064380645
75

step:46163, recons_loss:0.1665438860654831, g_loss:1.1937345266342163,
d_loss:0.4844262897968292, real_loss:0.5190790891647339, fake_loss:0.4497734904289
2456

step:46213, recons_loss:0.1645931899547577, g_loss:1.3306384086608887,
d_loss:0.5613602995872498, real_loss:0.5793763399124146, fake_loss:0.5433442592620
85

step:46263, recons_loss:0.15619629621505737, g_loss:1.1857887506484985,
d_loss:0.5371503829956055, real_loss:0.6117912530899048, fake_loss:0.4625095725059
509

step:46313, recons_loss:0.16209284961223602, g_loss:1.242416501045227,
d_loss:0.47279465198516846, real_loss:0.5093227028846741, fake_loss:0.436266630887
98523

step:46363, recons_loss:0.16055186092853546, g_loss:1.1842477321624756,
d_loss:0.47708070278167725, real_loss:0.4953749477863312, fake_loss:0.458786427974
7009

step:46413, recons_loss:0.17152346670627594, g_loss:1.34866464138031,
d_loss:0.5435581207275391, real_loss:0.6609878540039062, fake_loss:0.4261283874511
719

step:46463, recons_loss:0.1634044200181961, g_loss:1.1645945310592651,
d_loss:0.5142166614532471,real_loss:0.4666444659233093,fake_loss:0.5617888569831
848
step:46513, recons_loss:0.15997639298439026, g_loss:0.981421709060669,
d_loss:0.5069137811660767,real_loss:0.4356178045272827,fake_loss:0.5782098174095
154
step:46563, recons_loss:0.15932372212409973, g_loss:1.2295382022857666,
d_loss:0.5008784532546997,real_loss:0.5095469951629639,fake_loss:0.4922099113464
3555
step:46613, recons_loss:0.16221728920936584, g_loss:1.1940866708755493,
d_loss:0.5599356889724731,real_loss:0.6396810412406921,fake_loss:0.4801903665065
7654
step:46663, recons_loss:0.1674373298883438, g_loss:1.2029974460601807,
d_loss:0.4829140901565552,real_loss:0.4553365707397461,fake_loss:0.5104916095733
643
step:46713, recons_loss:0.16152897477149963, g_loss:1.0018162727355957,
d_loss:0.518041729927063,real_loss:0.41616278886795044,fake_loss:0.6199207305908
203
step:46763, recons_loss:0.15415658056735992, g_loss:1.529225468635559,
d_loss:0.5474956035614014,real_loss:0.7232856750488281,fake_loss:0.3717055916786
194
step:46813, recons_loss:0.15765976905822754, g_loss:1.0591869354248047,
d_loss:0.5527076721191406,real_loss:0.4606975317001343,fake_loss:0.6447178721427
917
step:46850, recons_loss:0.1591624915599823, g_loss:1.1607264280319214,
d_loss:0.4992462992668152,real_loss:0.49131515622138977,fake_loss:0.507177412509
9182
step:46900, recons_loss:0.15958194434642792, g_loss:1.2140296697616577,
d_loss:0.4941588342189789,real_loss:0.5643098950386047,fake_loss:0.4240077733993
53
step:46950, recons_loss:0.16817954182624817, g_loss:1.2074568271636963,
d_loss:0.51934814453125,real_loss:0.5286732912063599,fake_loss:0.510022997856140
1
step:47000, recons_loss:0.15807421505451202, g_loss:1.0984832048416138,
d_loss:0.5300177931785583,real_loss:0.47215232253074646,fake_loss:0.587883234024
0479
step:47050, recons_loss:0.16153103113174438, g_loss:1.0598784685134888,
d_loss:0.675169825553894,real_loss:0.5820367336273193,fake_loss:0.76830297708511
35
step:47100, recons_loss:0.15887823700904846, g_loss:1.373926043510437,
d_loss:0.4520590901374817,real_loss:0.5154848098754883,fake_loss:0.3886333405971
527
step:47150, recons_loss:0.16549332439899445, g_loss:1.2604767084121704,
d_loss:0.44548118114471436,real_loss:0.42559969425201416,fake_loss:0.46536269783
973694

KeyboardInterrupt

Traceback (most recent call last)

Input In [8], in <cell line: 12>()

43 real_loss = loss_fn(discriminator(gt_images), labels_one)

44 fake_loss = loss_fn(discriminator(pred_images.detach()), labels_zero)

---> 45 d_loss = 0.5*(real_loss + fake_loss)

47 d_loss.backward()

48 d_optimizer.step()

KeyboardInterrupt: