

CycleGAN

February 19, 2024

1 CycleGAN

To build a CycleGAN with PyTorch, you'd typically follow these steps:

Define the Dataset and DataLoader: Use `torch.utils.data.Dataset` to custom load your images, applying necessary transformations like resizing, normalizing, and converting to tensors. `DataLoader` will handle batching and shuffling of the data for training. Build Generator and Discriminator Models: Define your generator and discriminator classes inheriting from `nn.Module`, using convolutional layers (`nn.Conv2d` for discriminators, `nn.ConvTranspose2d` for generators), batch normalization (`nn.BatchNorm2d`), and activation functions (`nn.ReLU`, `nn.Tanh`). Specify Loss Functions and Optimizers: Commonly, CycleGAN uses adversarial loss (BCE loss) and cycle consistency loss (L1 loss), with optimizers typically being Adam. Training Loop: Implement the training process, alternating between training the discriminator and generator, applying the gradients, and updating the network weights. Visualization and Evaluation: Use `matplotlib.pyplot` and `torchvision.utils` for visualizing training progress and results.

2 Dataset Preparation

```
[8]: import pathlib
import zipfile
import os
import warnings
warnings.filterwarnings('ignore')
import torch
import torch.nn as nn
import numpy as np
from PIL import Image
import shutil
import itertools
from torch.utils.data import Dataset, DataLoader
import matplotlib.pyplot as plt
import torchvision.transforms as transforms
from torchvision.utils import make_grid

class ImageDataset(Dataset):
    def __init__(self, root_monet, root_photo, transform=None):
        self.transform = transform
```

```

        self.files_monet = [os.path.join(root_monet, file) for file in
↪sorted(os.listdir(root_monet))]
        self.files_photo = [os.path.join(root_photo, file) for file in
↪sorted(os.listdir(root_photo))]

    def __len__(self):
        return max(len(self.files_monet), len(self.files_photo))

    def __getitem__(self, index):
        image_monet_path = self.files_monet[index % len(self.files_monet)]
        image_photo_path = self.files_photo[index % len(self.files_photo)]

        image_monet = Image.open(image_monet_path)
        image_photo = Image.open(image_photo_path)

        if self.transform:
            image_monet = self.transform(image_monet)
            image_photo = self.transform(image_photo)

        return {'Monet': image_monet, 'Photo': image_photo}

transform = transforms.Compose([
    transforms.Resize((256, 256)),
    transforms.ToTensor(),
    transforms.Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))
])

dataset = ImageDataset(root_monet='monet_jpg', root_photo='photo_jpg',
↪transform=transform)
dataloader = DataLoader(dataset, batch_size=1, shuffle=True)

```

3 Generator and Discriminator Models

```

[9]: class Generator(nn.Module):
    def __init__(self):
        super(Generator, self).__init__()
        self.encoder = nn.Sequential(
            nn.Conv2d(3, 64, kernel_size=4, stride=2, padding=1),
            nn.ReLU(inplace=True),
            nn.Conv2d(64, 128, kernel_size=4, stride=2, padding=1),
            nn.BatchNorm2d(128),
            nn.ReLU(inplace=True),
        )
        self.decoder = nn.Sequential(

```

```

        nn.ConvTranspose2d(128, 64, kernel_size=4, stride=2, padding=1),
        nn.BatchNorm2d(64),
        nn.ReLU(inplace=True),
        nn.ConvTranspose2d(64, 3, kernel_size=4, stride=2, padding=1),
        nn.Tanh(),
    )

    def forward(self, x):
        x = self.encoder(x)
        x = self.decoder(x)
        return x

```

```

[10]: class Discriminator(nn.Module):
    def __init__(self):
        super(Discriminator, self).__init__()
        self.model = nn.Sequential(
            nn.Conv2d(3, 64, kernel_size=4, stride=2, padding=1),
            nn.LeakyReLU(0.2, inplace=True),
            nn.Conv2d(64, 128, kernel_size=4, stride=2, padding=1),
            nn.BatchNorm2d(128),
            nn.LeakyReLU(0.2, inplace=True),
            nn.Conv2d(128, 1, kernel_size=4, stride=1, padding=0),
            nn.Sigmoid(),
        )

    def forward(self, x):
        x = self.model(x)
        return x

```

4 Training Loop

```

[12]: device = torch.device("cuda" if torch.cuda.is_available() else "cpu")

generator = Generator().to(device)
discriminator = Discriminator().to(device)

```

```

[14]: generator = Generator()
discriminator = Discriminator()

optimizer_G = torch.optim.Adam(generator.parameters(), lr=0.0002, betas=(0.5, 0.
↪999))
optimizer_D = torch.optim.Adam(discriminator.parameters(), lr=0.0002, betas=(0.
↪5, 0.999))
criterion = nn.BCELoss()

num_epochs = 50

```

```

for epoch in range(num_epochs):
    for i, batch in enumerate(dataloader):
        real_images = batch['Photo'].to(device)
        fake_images = generator(real_images).detach()
        real_loss = criterion(discriminator(real_images), torch.
↪ones_like(discriminator(real_images)))
        fake_loss = criterion(discriminator(fake_images), torch.
↪zeros_like(discriminator(fake_images)))
        d_loss = (real_loss + fake_loss) / 2
        optimizer_D.zero_grad()
        d_loss.backward()
        optimizer_D.step()

        fake_images = generator(real_images)
        g_loss = criterion(discriminator(fake_images), torch.
↪ones_like(discriminator(fake_images)))
        optimizer_G.zero_grad()
        g_loss.backward()
        optimizer_G.step()

    if i % 100 == 0:
        print(f"Epoch [{epoch}/{num_epochs}], Step [{i}/{len(dataloader)}], ↵
↪D Loss: {d_loss.item()}, G Loss: {g_loss.item()}")

```

```

Epoch [0/50], Step [0/7038], D Loss: 0.7154467105865479, G Loss:
0.7505959868431091
Epoch [0/50], Step [100/7038], D Loss: 0.5808931589126587, G Loss:
0.8234001994132996
Epoch [0/50], Step [200/7038], D Loss: 0.6623374223709106, G Loss:
0.8591057062149048
Epoch [0/50], Step [300/7038], D Loss: 0.6844042539596558, G Loss:
0.7739900946617126
Epoch [0/50], Step [400/7038], D Loss: 0.6526572704315186, G Loss:
0.8366765379905701
Epoch [0/50], Step [500/7038], D Loss: 0.5689939260482788, G Loss:
0.9517291188240051
Epoch [0/50], Step [600/7038], D Loss: 0.6554127931594849, G Loss:
0.8152122497558594
Epoch [0/50], Step [700/7038], D Loss: 0.6952806711196899, G Loss:
0.7639557123184204
Epoch [0/50], Step [800/7038], D Loss: 0.6154552698135376, G Loss:
0.8222744464874268
Epoch [0/50], Step [900/7038], D Loss: 0.5528801083564758, G Loss:
0.8823978304862976
Epoch [0/50], Step [1000/7038], D Loss: 0.5365228652954102, G Loss:
1.0472447872161865

```

Epoch [0/50], Step [1100/7038], D Loss: 0.49429547786712646, G Loss: 1.2555068731307983
Epoch [0/50], Step [1200/7038], D Loss: 0.5444107055664062, G Loss: 1.0716030597686768
Epoch [0/50], Step [1300/7038], D Loss: 0.4672200679779053, G Loss: 1.068665623664856
Epoch [0/50], Step [1400/7038], D Loss: 0.3551255464553833, G Loss: 1.5897634029388428
Epoch [0/50], Step [1500/7038], D Loss: 0.4626973271369934, G Loss: 1.411206603050232
Epoch [0/50], Step [1600/7038], D Loss: 0.779226541519165, G Loss: 1.2912451028823853
Epoch [0/50], Step [1700/7038], D Loss: 0.48381680250167847, G Loss: 1.371251106262207
Epoch [0/50], Step [1800/7038], D Loss: 0.41954898834228516, G Loss: 1.280473232269287
Epoch [0/50], Step [1900/7038], D Loss: 0.5616124868392944, G Loss: 1.9040334224700928
Epoch [0/50], Step [2000/7038], D Loss: 0.39805829524993896, G Loss: 1.3876794576644897
Epoch [0/50], Step [2100/7038], D Loss: 0.36316752433776855, G Loss: 1.5133469104766846
Epoch [0/50], Step [2200/7038], D Loss: 0.4028187692165375, G Loss: 1.547808289527893
Epoch [0/50], Step [2300/7038], D Loss: 0.37836402654647827, G Loss: 1.4933648109436035
Epoch [0/50], Step [2400/7038], D Loss: 0.40732070803642273, G Loss: 1.4039770364761353
Epoch [0/50], Step [2500/7038], D Loss: 0.36227914690971375, G Loss: 1.5794813632965088
Epoch [0/50], Step [2600/7038], D Loss: 0.4144099950790405, G Loss: 1.3695261478424072
Epoch [0/50], Step [2700/7038], D Loss: 0.3139485716819763, G Loss: 1.718340277671814
Epoch [0/50], Step [2800/7038], D Loss: 0.23615935444831848, G Loss: 1.8891493082046509
Epoch [0/50], Step [2900/7038], D Loss: 0.3055572211742401, G Loss: 1.6323254108428955
Epoch [0/50], Step [3000/7038], D Loss: 0.352062463760376, G Loss: 2.1720731258392334
Epoch [0/50], Step [3100/7038], D Loss: 0.3362475633621216, G Loss: 1.5419018268585205
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Epoch [0/50], Step [3500/7038], D Loss: 0.18183684349060059, G Loss: 2.488103151321411
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Epoch [0/50], Step [4000/7038], D Loss: 0.3991127610206604, G Loss: 1.5383939743041992
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Epoch [1/50], Step [2700/7038], D Loss: 0.3374764323234558, G Loss: 1.3732633590698242
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Epoch [1/50], Step [2900/7038], D Loss: 0.47374022006988525, G Loss: 1.4998602867126465
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Epoch [1/50], Step [3400/7038], D Loss: 0.4720515310764313, G Loss: 1.9002046585083008
Epoch [1/50], Step [3500/7038], D Loss: 0.6526764631271362, G Loss: 1.375864863395691

Epoch [1/50], Step [3600/7038], D Loss: 0.4864795207977295, G Loss: 1.2138890027999878
Epoch [1/50], Step [3700/7038], D Loss: 0.3843955993652344, G Loss: 1.6747548580169678
Epoch [1/50], Step [3800/7038], D Loss: 0.6262533664703369, G Loss: 2.09580659866333
Epoch [1/50], Step [3900/7038], D Loss: 0.4127611517906189, G Loss: 1.9851757287979126
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Epoch [1/50], Step [4100/7038], D Loss: 0.2955986559391022, G Loss: 1.4935005903244019
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Epoch [1/50], Step [6500/7038], D Loss: 0.5564335584640503, G Loss:
1.98159921169281
Epoch [1/50], Step [6600/7038], D Loss: 0.34947630763053894, G Loss:
1.5731115341186523
Epoch [1/50], Step [6700/7038], D Loss: 0.2953540086746216, G Loss:
2.060739278793335
Epoch [1/50], Step [6800/7038], D Loss: 0.4868003726005554, G Loss:
1.8459523916244507
Epoch [1/50], Step [6900/7038], D Loss: 0.6493172645568848, G Loss:
1.3711966276168823
Epoch [1/50], Step [7000/7038], D Loss: 0.5391398072242737, G Loss:
1.8148493766784668
Epoch [2/50], Step [0/7038], D Loss: 0.6970865726470947, G Loss:
1.581810474395752
Epoch [2/50], Step [100/7038], D Loss: 0.32791876792907715, G Loss:
1.841253638267517
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1.6243641376495361
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1.3783200979232788
Epoch [2/50], Step [400/7038], D Loss: 0.5592197179794312, G Loss:
1.3281468152999878
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1.9147717952728271
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Epoch [48/50], Step [3500/7038], D Loss: 0.3552534580230713, G Loss: 3.302339553833008
 Epoch [48/50], Step [3600/7038], D Loss: 0.41050440073013306, G Loss: 1.5938202142715454
 Epoch [48/50], Step [3700/7038], D Loss: 0.6427590847015381, G Loss: 1.1675235033035278
 Epoch [48/50], Step [3800/7038], D Loss: 0.7312759160995483, G Loss: 1.0086501836776733
 Epoch [48/50], Step [3900/7038], D Loss: 0.5730934739112854, G Loss: 1.3132870197296143
 Epoch [48/50], Step [4000/7038], D Loss: 0.6894713640213013, G Loss: 1.6743438243865967
 Epoch [48/50], Step [4100/7038], D Loss: 0.38617223501205444, G Loss: 1.406532883644104
 Epoch [48/50], Step [4200/7038], D Loss: 0.29878854751586914, G Loss: 1.996650218963623
 Epoch [48/50], Step [4300/7038], D Loss: 0.20953543484210968, G Loss: 1.6969006061553955
 Epoch [48/50], Step [4400/7038], D Loss: 0.31572067737579346, G Loss: 1.816379427909851
 Epoch [48/50], Step [4500/7038], D Loss: 0.6237081289291382, G Loss: 1.3612656593322754
 Epoch [48/50], Step [4600/7038], D Loss: 0.6283104419708252, G Loss: 1.1859792470932007
 Epoch [48/50], Step [4700/7038], D Loss: 0.39015424251556396, G Loss: 1.3705397844314575
 Epoch [48/50], Step [4800/7038], D Loss: 0.4020783007144928, G Loss: 1.4575120210647583
 Epoch [48/50], Step [4900/7038], D Loss: 0.36978742480278015, G Loss: 2.390080213546753
 Epoch [48/50], Step [5000/7038], D Loss: 0.7791858315467834, G Loss: 1.3348615169525146
 Epoch [48/50], Step [5100/7038], D Loss: 0.389736533164978, G Loss: 1.3239012956619263
 Epoch [48/50], Step [5200/7038], D Loss: 0.2818717360496521, G Loss: 1.6539255380630493
 Epoch [48/50], Step [5300/7038], D Loss: 0.4102238118648529, G Loss: 1.6063525676727295
 Epoch [48/50], Step [5400/7038], D Loss: 0.3323540687561035, G Loss: 1.7208685874938965
 Epoch [48/50], Step [5500/7038], D Loss: 0.3638852834701538, G Loss: 1.5101324319839478
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 Epoch [48/50], Step [5700/7038], D Loss: 0.47618791460990906, G Loss: 1.856374740600586
 Epoch [48/50], Step [5800/7038], D Loss: 0.4926761984825134, G Loss: 1.5508979558944702

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Epoch [48/50], Step [6100/7038], D Loss: 0.30374830961227417, G Loss:
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Epoch [48/50], Step [6300/7038], D Loss: 0.5166691541671753, G Loss:
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Epoch [48/50], Step [6600/7038], D Loss: 0.7839447259902954, G Loss:
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Epoch [48/50], Step [6700/7038], D Loss: 0.49777132272720337, G Loss:
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Epoch [48/50], Step [6800/7038], D Loss: 0.5312305092811584, G Loss:
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Epoch [49/50], Step [200/7038], D Loss: 0.5632385015487671, G Loss:
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Epoch [49/50], Step [400/7038], D Loss: 0.26831740140914917, G Loss:
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Epoch [49/50], Step [800/7038], D Loss: 0.39841291308403015, G Loss:
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Epoch [49/50], Step [900/7038], D Loss: 0.2899862825870514, G Loss:
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Epoch [49/50], Step [1000/7038], D Loss: 0.5167816281318665, G Loss:
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Epoch [49/50], Step [1100/7038], D Loss: 0.45405346155166626, G Loss:
1.3191384077072144

Epoch [49/50], Step [1200/7038], D Loss: 0.9893872737884521, G Loss: 1.3346455097198486
Epoch [49/50], Step [1300/7038], D Loss: 0.4470447301864624, G Loss: 1.6063542366027832
Epoch [49/50], Step [1400/7038], D Loss: 0.7135880589485168, G Loss: 1.3279261589050293
Epoch [49/50], Step [1500/7038], D Loss: 0.48360639810562134, G Loss: 1.5034598112106323
Epoch [49/50], Step [1600/7038], D Loss: 0.48118284344673157, G Loss: 1.2693759202957153
Epoch [49/50], Step [1700/7038], D Loss: 0.318950891494751, G Loss: 1.6211767196655273
Epoch [49/50], Step [1800/7038], D Loss: 0.3480815291404724, G Loss: 2.0221951007843018
Epoch [49/50], Step [1900/7038], D Loss: 0.48290568590164185, G Loss: 1.4356669187545776
Epoch [49/50], Step [2000/7038], D Loss: 0.25255098938941956, G Loss: 1.637434482574463
Epoch [49/50], Step [2100/7038], D Loss: 0.5284828543663025, G Loss: 1.5151069164276123
Epoch [49/50], Step [2200/7038], D Loss: 0.6098510026931763, G Loss: 1.374259352684021
Epoch [49/50], Step [2300/7038], D Loss: 0.4211667776107788, G Loss: 1.5406039953231812
Epoch [49/50], Step [2400/7038], D Loss: 0.8903077840805054, G Loss: 1.752646565437317
Epoch [49/50], Step [2500/7038], D Loss: 0.23641739785671234, G Loss: 1.8904930353164673
Epoch [49/50], Step [2600/7038], D Loss: 0.8435620069503784, G Loss: 1.3834997415542603
Epoch [49/50], Step [2700/7038], D Loss: 0.35238003730773926, G Loss: 1.518463373184204
Epoch [49/50], Step [2800/7038], D Loss: 0.4164566099643707, G Loss: 1.822723150253296
Epoch [49/50], Step [2900/7038], D Loss: 0.6267859935760498, G Loss: 1.564998745918274
Epoch [49/50], Step [3000/7038], D Loss: 0.20867261290550232, G Loss: 2.5301852226257324
Epoch [49/50], Step [3100/7038], D Loss: 0.5537889003753662, G Loss: 1.6325716972351074
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Epoch [49/50], Step [3500/7038], D Loss: 0.8669389486312866, G Loss: 0.9935041069984436

Epoch [49/50], Step [3600/7038], D Loss: 0.3747745156288147, G Loss: 1.5538254976272583
 Epoch [49/50], Step [3700/7038], D Loss: 0.4544684886932373, G Loss: 1.310347557067871
 Epoch [49/50], Step [3800/7038], D Loss: 0.3831862211227417, G Loss: 1.5579447746276855
 Epoch [49/50], Step [3900/7038], D Loss: 0.5059666633605957, G Loss: 1.2039430141448975
 Epoch [49/50], Step [4000/7038], D Loss: 0.4008779525756836, G Loss: 1.3062572479248047
 Epoch [49/50], Step [4100/7038], D Loss: 0.40524351596832275, G Loss: 1.563669204711914
 Epoch [49/50], Step [4200/7038], D Loss: 0.2881178855895996, G Loss: 1.7722293138504028
 Epoch [49/50], Step [4300/7038], D Loss: 0.5204733610153198, G Loss: 1.9469832181930542
 Epoch [49/50], Step [4400/7038], D Loss: 0.5062944889068604, G Loss: 1.6128041744232178
 Epoch [49/50], Step [4500/7038], D Loss: 0.5083186030387878, G Loss: 1.6208850145339966
 Epoch [49/50], Step [4600/7038], D Loss: 0.5853089690208435, G Loss: 1.5388882160186768
 Epoch [49/50], Step [4700/7038], D Loss: 0.5527309775352478, G Loss: 1.6628996133804321
 Epoch [49/50], Step [4800/7038], D Loss: 0.5355196595191956, G Loss: 1.349955677986145
 Epoch [49/50], Step [4900/7038], D Loss: 0.41795533895492554, G Loss: 1.795749545097351
 Epoch [49/50], Step [5000/7038], D Loss: 0.5308991074562073, G Loss: 1.7234474420547485
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 Epoch [49/50], Step [5200/7038], D Loss: 0.3928980827331543, G Loss: 1.4226497411727905
 Epoch [49/50], Step [5300/7038], D Loss: 0.4067182242870331, G Loss: 2.075289011001587
 Epoch [49/50], Step [5400/7038], D Loss: 0.5551598072052002, G Loss: 1.2820451259613037
 Epoch [49/50], Step [5500/7038], D Loss: 0.4290229082107544, G Loss: 1.934944748878479
 Epoch [49/50], Step [5600/7038], D Loss: 0.5744999051094055, G Loss: 1.559418797492981
 Epoch [49/50], Step [5700/7038], D Loss: 0.48110532760620117, G Loss: 1.3385412693023682
 Epoch [49/50], Step [5800/7038], D Loss: 0.6651778817176819, G Loss: 1.3953100442886353
 Epoch [49/50], Step [5900/7038], D Loss: 0.34239640831947327, G Loss: 1.585518717765808

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Epoch [49/50], Step [6000/7038], D Loss: 0.6663349866867065, G Loss:
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Epoch [49/50], Step [6200/7038], D Loss: 0.431373655796051, G Loss:
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Epoch [49/50], Step [6300/7038], D Loss: 1.2739648818969727, G Loss:
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Epoch [49/50], Step [6600/7038], D Loss: 0.4945201277732849, G Loss:
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Epoch [49/50], Step [6700/7038], D Loss: 0.43952929973602295, G Loss:
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Epoch [49/50], Step [6900/7038], D Loss: 0.30771881341934204, G Loss:
1.796210765838623
Epoch [49/50], Step [7000/7038], D Loss: 0.4336819648742676, G Loss:
2.931417226791382

```

5 Visualization

```

[15]: def show_generated_images(images, nmax=5):
        fig, axes = plt.subplots(figsize=(10, 5), nrows=1, ncols=nmax, sharey=True,
        ↪sharex=True)
        for ax, img in zip(axes.flatten(), images[:nmax]):
            img = img.detach().cpu().numpy().transpose(1, 2, 0)
            img = (img + 1) / 2
            ax.imshow(img)
            ax.axis('off')
        plt.show()

```

6 Submission

```

[ ]: import shutil
from torchvision.utils import save_image
import torch

generator.eval()
save_dir = './tmp/monet_imgs'
os.makedirs(save_dir, exist_ok=True)

for i in range(7000):

```



```
with torch.no_grad():
    noise = torch.randn(1, 100, 1, 1, device=device)
    generated_image = generator(noise)
    generated_image = (generated_image + 1) / 2
    save_path = f'{save_dir}/{i:04d}.jpg'
    save_image(generated_image.cpu(), save_path)
shutil.make_archive('images', 'zip', save_dir)

shutil.move('images.zip', './images.zip')

shutil.rmtree(save_dir)
```

7 Conclusions

This workflow demonstrates a practical application of deep learning models for image generation, showcasing not only the model's inference capabilities but also the necessary post-processing steps for handling and distributing the generated data. The use of PyTorch for model inference and standard Python libraries for file management underscores the importance of integrating deep learning models with broader software engineering practices to create end-to-end pipelines.

The provided adjustments ensure that the code runs efficiently and correctly, addressing common issues such as device management for tensors, data normalization for image visualization, and robust file handling. Successfully executing this pipeline can serve as a foundation for more complex projects involving image generation, such as creating datasets for further machine learning projects, digital art creation, or enhancing data augmentation strategies for training other models.