

```
In [1]: import os
import random
import itertools
import numpy as np
import matplotlib.pyplot as plt
from PIL import Image
from tqdm import tqdm
import torchvision
```

```
import torch
import torch.nn as nn
import torch.optim as optim
from torch.utils.data import Dataset, DataLoader
import torchvision.transforms as T
```

```
In [2]: class ResidualBlock(nn.Module):
    def __init__(self, channels):
        super().__init__()
        self.block = nn.Sequential(
            nn.ReflectionPad2d(1),
            nn.Conv2d(channels, channels, kernel_size=3),
            nn.InstanceNorm2d(channels),
            nn.ReLU(inplace=True),
            nn.ReflectionPad2d(1),
            nn.Conv2d(channels, channels, kernel_size=3),
            nn.InstanceNorm2d(channels),
        )

    def forward(self, x):
        return x + self.block(x)
```

```
In [ ]: class Generator(nn.Module):
    def __init__(self, in_channels=3, out_channels=3, n_residual_blocks=9):
        super().__init__()

        model = [
            nn.ReflectionPad2d(3),
            nn.Conv2d(in_channels, 64, kernel_size=7),
            nn.InstanceNorm2d(64),
            nn.ReLU(inplace=True)
        ]

        # Downsampling
        in_features = 64
        out_features = in_features * 2
        for _ in range(2):
            model += [
                nn.Conv2d(in_features, out_features, kernel_size=3, stride=2, padding=1),
                nn.InstanceNorm2d(out_features),
                nn.ReLU(inplace=True),
            ]
            in_features = out_features
            out_features *= 2
```

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# Residual blocks
for _ in range(n_residual_blocks):
    model += [ResidualBlock(in_features)]

# Upsampling
out_features = in_features // 2
for _ in range(2):
    model += [
        nn.ConvTranspose2d(in_features, out_features, kernel_size=3, stride=2),
        nn.InstanceNorm2d(out_features),
        nn.ReLU(inplace=True),
    ]
    in_features = out_features
    out_features *= 2

model += [
    nn.ReflectionPad2d(3),
    nn.Conv2d(64, out_channels, kernel_size=7),
    nn.Tanh()
]

self.model = nn.Sequential(*model)

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

```

```

In [4]: class Discriminator(nn.Module):
    def __init__(self, in_channels=3):
        super().__init__()

        def discriminator_block(in_filters, out_filters, normalize=True):
            layers = [nn.Conv2d(in_filters, out_filters, kernel_size=4, stride=2, padding=1)]
            if normalize:
                layers.append(nn.InstanceNorm2d(out_filters))
            layers.append(nn.LeakyReLU(0.2, inplace=True))
            return layers

        self.model = nn.Sequential(
            *discriminator_block(in_channels, 64, normalize=False),
            *discriminator_block(64, 128),
            *discriminator_block(128, 256),
            *discriminator_block(256, 512),
            nn.Conv2d(512, 1, kernel_size=4, padding=1) # Output: patch of predictions
        )

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

```

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In [5]: criterion_GAN = nn.MSELoss()
criterion_cycle = nn.L1Loss()
criterion_identity = nn.L1Loss()

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In [6]: device = torch.device("cuda" if torch.cuda.is_available() else "cpu")

```

```

G_AB = Generator().to(device) # Monet → Photo
G_BA = Generator().to(device) # Photo → Monet
D_A = Discriminator().to(device) # Discriminate real Monet
D_B = Discriminator().to(device) # Discriminate real Photo

lr = 0.0002

optimizer_G = optim.Adam(itertools.chain(G_AB.parameters(), G_BA.parameters()), lr=lr)
optimizer_D_A = optim.Adam(D_A.parameters(), lr=lr, betas=(0.5, 0.999))
optimizer_D_B = optim.Adam(D_B.parameters(), lr=lr, betas=(0.5, 0.999))

```

In [7]:

```

class UnpairedImageDataset(Dataset):
    def __init__(self, root_dir, transforms_A=None, transforms_B=None, mode='train'):
        super().__init__()
        self.dir_A = os.path.join(root_dir, mode + 'A')
        self.dir_B = os.path.join(root_dir, mode + 'B')

        self.images_A = sorted(os.listdir(self.dir_A))
        self.images_B = sorted(os.listdir(self.dir_B))

        self.transforms_A = transforms_A
        self.transforms_B = transforms_B

    def __len__(self):
        return max(len(self.images_A), len(self.images_B))

    def __getitem__(self, idx):
        img_A_path = os.path.join(self.dir_A, self.images_A[idx % len(self.images_A)])
        img_B_path = os.path.join(self.dir_B, self.images_B[idx % len(self.images_B)])

        img_A = Image.open(img_A_path).convert('RGB')
        img_B = Image.open(img_B_path).convert('RGB')

        if self.transforms_A:
            img_A = self.transforms_A(img_A)
        if self.transforms_B:
            img_B = self.transforms_B(img_B)

        return {'A': img_A, 'B': img_B}

    transform_train = T.Compose([
        T.Resize(286, interpolation=Image.BICUBIC),
        T.RandomCrop(256),
        T.RandomHorizontalFlip(),
        T.ToTensor(),
        T.Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))
    ])
    transform_test = T.Compose([
        T.Resize(256, interpolation=Image.BICUBIC),
        T.ToTensor(),
        T.Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))
    ])

```

In [8]: # Assuming the dataset is structured with 'trainA', 'trainB', 'testA', 'testB' dire

```
dataset = UnpairedImageDataset(root_dir='C:/DEEP_LEARNING/ProjectMonet/datasets/Monet2City')
dataloader = DataLoader(dataset, batch_size=1, shuffle=True, num_workers=0)
```

In [9]:

```
import time

def sample_images(epoch, batches_done, dataloader, save_dir='images'):
    os.makedirs(save_dir, exist_ok=True)
    G_AB.eval()
    G_BA.eval()

    with torch.no_grad():
        data = next(iter(dataloader))
        real_A = data['A'].to(device)
        real_B = data['B'].to(device)

        fake_B = G_AB(real_A)
        fake_A = G_BA(real_B)

        recov_A = G_BA(fake_B)
        recov_B = G_AB(fake_A)

        imgs = torch.cat((real_A, fake_B, recov_A, real_B, fake_A, recov_B), 0)
        imgs = (imgs + 1) / 2 # [-1,1] -> [0,1]

        grid = torchvision.utils.make_grid(imgs, nrow=3)
        torchvision.utils.save_image(grid, f'{save_dir}/epoch{epoch}_batch{batches_}

G_AB.train()
G_BA.train()
```

In [10]:

```
import matplotlib.pyplot as plt

def plot_loss_progression(G_losses, D_A_losses, D_B_losses, cycle_losses=None, identity_losses=None):
    plt.figure(figsize=(14, 6))

    plt.subplot(1, 2, 1)
    plt.plot(G_losses, label='G Loss')
    plt.plot(D_A_losses, label='D_A Loss')
    plt.plot(D_B_losses, label='D_B Loss')
    plt.xlabel('Epoch')
    plt.ylabel('Loss')
    plt.title('Generator and Discriminator Loss')
    plt.legend()
    plt.grid(True)

    plt.subplot(1, 2, 2)
    if cycle_losses:
        plt.plot(cycle_losses, label='Cycle Loss')
    if identity_losses:
        plt.plot(identity_losses, label='Identity Loss')
    if GEN_A_losses:
        plt.plot(GEN_A_losses, label='GEN_A (A→B) Loss', linestyle='--')
    if GEN_B_losses:
        plt.plot(GEN_B_losses, label='GEN_B (B→A) Loss', linestyle='--')
    plt.xlabel('Epoch')
```

```
plt.ylabel('Loss')
plt.title('Cycle & Identity Loss')
plt.legend()
plt.grid(True)

plt.tight_layout()
plt.show()
```

```
In [11]: import torchvision.utils as vutils

def show_sample_images(dataloader, G_AB, G_BA, device):
    G_AB.eval()
    G_BA.eval()

    with torch.no_grad():
        batch = next(iter(dataloader))
        real_A = batch['A'].to(device)
        real_B = batch['B'].to(device)

        fake_B = G_AB(real_A)
        recov_A = G_BA(fake_B)

        fake_A = G_BA(real_B)
        recov_B = G_AB(fake_A)

    # Denormalize images from [-1,1] to [0,1]
    def denorm(x):
        return (x + 1) / 2

    images = torch.cat([
        denorm(real_A), denorm(fake_B), denorm(recov_A),
        denorm(real_B), denorm(fake_A), denorm(recov_B)
    ], 0)

    grid_img = vutils.make_grid(images, nrow=3)

    plt.figure(figsize=(12,8))
    plt.axis('off')
    plt.title('Real A | Fake B | Recov A || Real B | Fake A | Recov B')
    plt.imshow(grid_img.permute(1, 2, 0).cpu())
    plt.show()

    G_AB.train()
    G_BA.train()
```

```
In [12]: # Labels
real_label = 1.0
fake_label = 0.0

n_epochs = 25
lambda_cycle = 10.0
lambda_identity = 5.0
```

```
In [13]: def train_cycleGAN(n_epochs, dataloader, device):
```

```

G_losses = []
D_A_losses = []
D_B_losses = []
cycle_losses = []
identity_losses = []
GEN_A_losses = []
GEN_B_losses = []

for epoch in range(1, n_epochs+1):
    start_time = time.time()
    for i, batch in enumerate(tqdm(dataloader)):
        real_A = batch['A'].to(device)
        real_B = batch['B'].to(device)

        # -----
        # Train Generators
        # -----
        optimizer_G.zero_grad()

        # Identity Loss
        same_B = G_AB(real_B)
        loss_identity_B = criterion_identity(same_B, real_B) * lambda_identity

        same_A = G_BA(real_A)
        loss_identity_A = criterion_identity(same_A, real_A) * lambda_identity

        # GAN Loss
        fake_B = G_AB(real_A)
        pred_fake = D_B(fake_B)
        valid = torch.ones_like(pred_fake).to(device)
        loss_GAN_AB = criterion_GAN(pred_fake, valid)

        fake_A = G_BA(real_B)
        pred_fake = D_A(fake_A)
        valid = torch.ones_like(pred_fake).to(device)
        loss_GAN_BA = criterion_GAN(pred_fake, valid)

        # Cycle Loss
        recov_A = G_BA(fake_B)
        loss_cycle_A = criterion_cycle(recov_A, real_A) * lambda_cycle

        recov_B = G_AB(fake_A)
        loss_cycle_B = criterion_cycle(recov_B, real_B) * lambda_cycle

        # Total generator loss
        loss_G = loss_GAN_AB + loss_GAN_BA + loss_cycle_A + loss_cycle_B + loss_identity_A
        loss_GEN_A = loss_GAN_AB + loss_cycle_B + loss_identity_B
        loss_GEN_B = loss_GAN_BA + loss_cycle_A + loss_identity_A
        loss_G.backward()
        optimizer_G.step()

        # -----
        # Train Discriminator A
        # -----
        optimizer_D_A.zero_grad()

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```

# Real Loss
pred_real = D_A(real_A)
valid = torch.ones_like(pred_real).to(device)
loss_D_real = criterion_GAN(pred_real, valid)

# Fake Loss
fake_A_detach = fake_A.detach()
pred_fake = D_A(fake_A_detach)
fake = torch.zeros_like(pred_fake).to(device)
loss_D_fake = criterion_GAN(pred_fake, fake)

# Total Loss
loss_D_A = (loss_D_real + loss_D_fake) * 0.5
loss_D_A.backward()
optimizer_D_A.step()

# -----
# Train Discriminator B
# -----
optimizer_D_B.zero_grad()

# Real Loss
pred_real = D_B(real_B)
valid = torch.ones_like(pred_real).to(device)
loss_D_real = criterion_GAN(pred_real, valid)

# Fake Loss
fake_B_detach = fake_B.detach()
pred_fake = D_B(fake_B_detach)
fake = torch.zeros_like(pred_fake).to(device)
loss_D_fake = criterion_GAN(pred_fake, fake)

# Total Loss
loss_D_B = (loss_D_real + loss_D_fake) * 0.5
loss_D_B.backward()
optimizer_D_B.step()

# Print losses occasionally
if i % 200 == 0:
    print(f"[Epoch {epoch}/{n_epochs}] [Batch {i}/{len(dataloader)}] "
          f"[D_A loss: {loss_D_A.item():.4f}] [D_B loss: {loss_D_B.item():.4f}] "
          f"[G loss: {loss_G.item():.4f}]")

# Save sample images every 2200 batches
if i % 2200 == 0:
    sample_images(epoch, i, dataloader)
    show_sample_images(dataloader, G_AB, G_BA, device)

    G_losses.append(loss_G.item())
    D_A_losses.append(loss_D_A.item())
    D_B_losses.append(loss_D_B.item())
    cycle_loss_total = (loss_cycle_A + loss_cycle_B).item()
    cycle_losses.append(cycle_loss_total)
    identity_loss_total = (loss_identity_A + loss_identity_B).item()
    identity_losses.append(identity_loss_total)

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```
    GEN_A_losses.append(loss_GEN_A.item())
    GEN_B_losses.append(loss_GEN_B.item())

    print(f"Epoch {epoch} finished in {(time.time() - start_time):.2f} seconds.

# After training Loop ends
plot_loss_progression(G_losses, D_A_losses, D_B_losses,
cycle_losses, identity_losses,
GEN_A_losses=GEN_A_losses,
GEN_B_losses=GEN_B_losses)

torch.save(G_AB.state_dict(), "G_AB_photo.pth") # monet → Photo
torch.save(G_BA.state_dict(), "G_BA_monet.pth") # photo → Monet
```

```
In [14]: n_epochs = 15
lambda_cycle = 10.0
lambda_identity = 5.0
```

```
In [15]: import torch
print("CUDA available:", torch.cuda.is_available())
print("Number of GPUs:", torch.cuda.device_count())
print("Using GPU:", torch.cuda.get_device_name(0) if torch.cuda.is_available() else

CUDA available: True
Number of GPUs: 1
Using GPU: NVIDIA GeForce RTX 3060 Laptop GPU
```

```
In [16]: import torch
print(torch.version.cuda)
print(torch.backends.cudnn.version())
```

```
12.8
90701
```

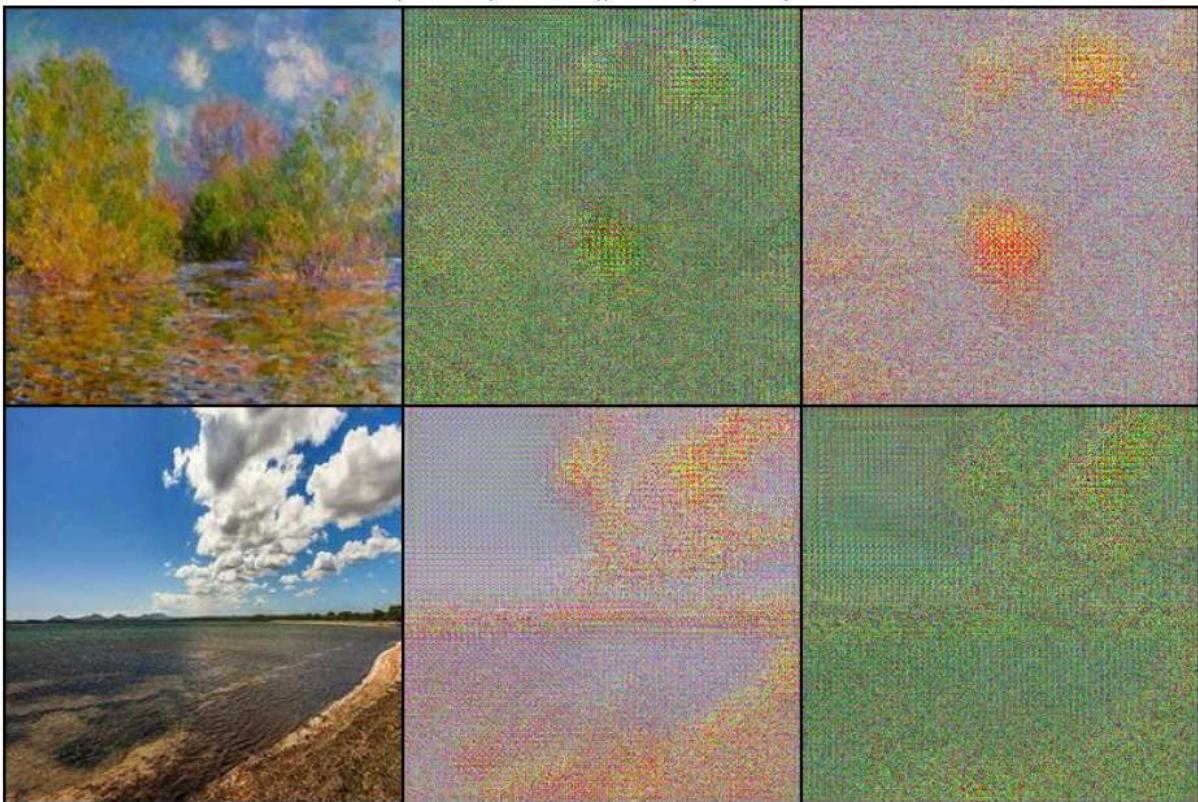
```
In [17]: !nvidia-smi
```

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Sat Jun 7 07:13:05 2025
```

NVIDIA-SMI 576.02			Driver Version: 576.02		CUDA Version: 12.		
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```
In [18]: train_cycleGAN(n_epochs, dataloader, device)
```

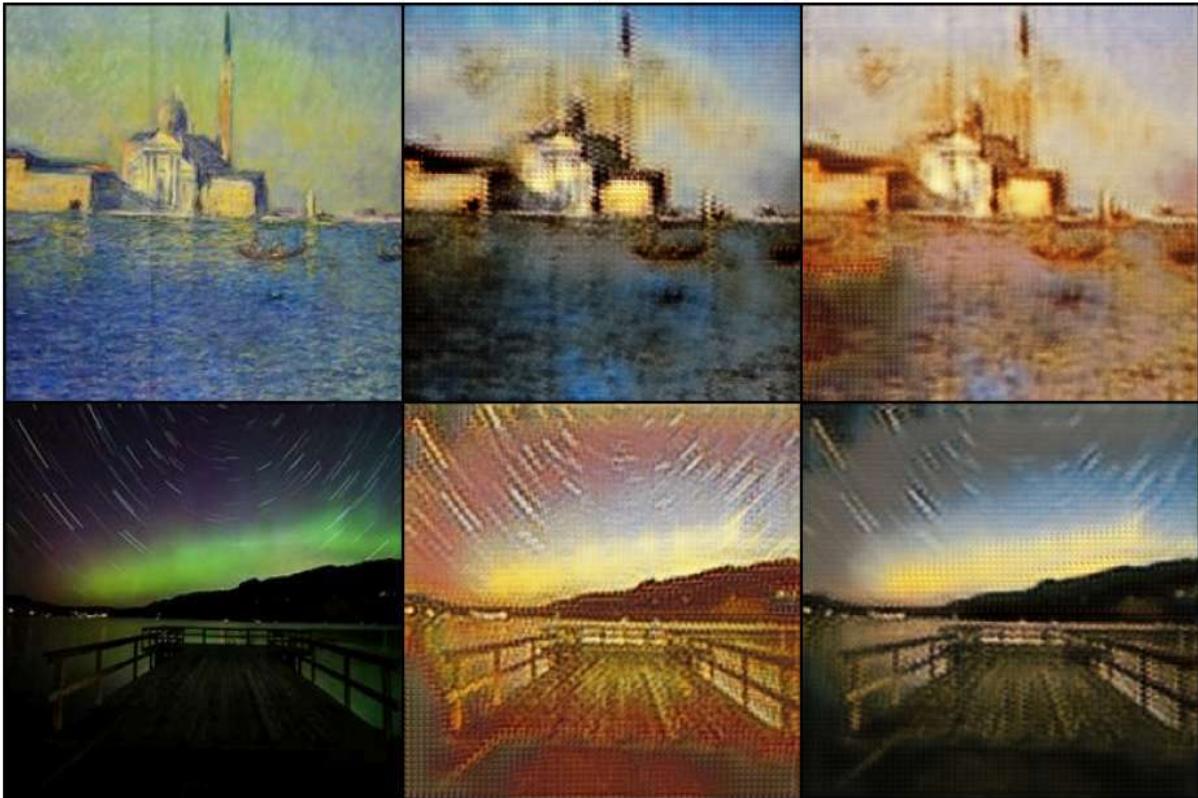
0% | 0/7038 [00:00<?, ?it/s]
[Epoch 1/15] [Batch 0/7038] [D_A loss: 0.5415] [D_B loss: 0.7338] [G loss: 15.1368]
Real A | Fake B | Recov A || Real B | Fake A | Recov B



3% | 201/7038 [01:15<42:00, 2.71it/s]
[Epoch 1/15] [Batch 200/7038] [D_A loss: 0.3165] [D_B loss: 0.3280] [G loss: 8.1664]
6% | 401/7038 [02:29<40:49, 2.71it/s]
[Epoch 1/15] [Batch 400/7038] [D_A loss: 0.1873] [D_B loss: 0.2526] [G loss: 11.0605]
9% | 601/7038 [03:44<40:08, 2.67it/s]
[Epoch 1/15] [Batch 600/7038] [D_A loss: 0.2846] [D_B loss: 0.0920] [G loss: 11.4435]
11% | 801/7038 [04:58<38:31, 2.70it/s]
[Epoch 1/15] [Batch 800/7038] [D_A loss: 0.2716] [D_B loss: 0.1192] [G loss: 7.6349]
14% | 1001/7038 [06:13<37:29, 2.68it/s]
[Epoch 1/15] [Batch 1000/7038] [D_A loss: 0.0692] [D_B loss: 0.0586] [G loss: 6.7708]
17% | 1201/7038 [07:28<36:07, 2.69it/s]
[Epoch 1/15] [Batch 1200/7038] [D_A loss: 0.0870] [D_B loss: 0.1141] [G loss: 8.5186]
20% | 1401/7038 [08:42<35:05, 2.68it/s]
[Epoch 1/15] [Batch 1400/7038] [D_A loss: 0.1418] [D_B loss: 0.1250] [G loss: 6.3755]
23% | 1601/7038 [09:57<33:56, 2.67it/s]
[Epoch 1/15] [Batch 1600/7038] [D_A loss: 0.1177] [D_B loss: 0.1063] [G loss: 9.5710]
26% | 1801/7038 [11:13<32:31, 2.68it/s]
[Epoch 1/15] [Batch 1800/7038] [D_A loss: 0.3405] [D_B loss: 0.0768] [G loss: 11.9132]

28% | [REDACTED] | 2001/7038 [12:27<31:16, 2.68it/s]
[Epoch 1/15] [Batch 2000/7038] [D_A loss: 0.1018] [D_B loss: 0.3675] [G loss: 5.691
1]
31% | [REDACTED] | 2200/7038 [13:42<30:04, 2.68it/s]
[Epoch 1/15] [Batch 2200/7038] [D_A loss: 0.2791] [D_B loss: 0.1519] [G loss: 8.688
5]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [14:58<28:49, 2.68it/s]
[Epoch 1/15] [Batch 2400/7038] [D_A loss: 0.1192] [D_B loss: 0.1114] [G loss: 7.861
3]
37% | [REDACTED] | 2601/7038 [16:12<27:41, 2.67it/s]
[Epoch 1/15] [Batch 2600/7038] [D_A loss: 0.0965] [D_B loss: 0.2363] [G loss: 8.114
6]
40% | [REDACTED] | 2801/7038 [17:27<26:20, 2.68it/s]
[Epoch 1/15] [Batch 2800/7038] [D_A loss: 0.1072] [D_B loss: 0.2292] [G loss: 7.402
0]
43% | [REDACTED] | 3001/7038 [18:42<25:08, 2.68it/s]
[Epoch 1/15] [Batch 3000/7038] [D_A loss: 0.3499] [D_B loss: 0.1083] [G loss: 10.014
8]
45% | [REDACTED] | 3201/7038 [19:57<23:51, 2.68it/s]
[Epoch 1/15] [Batch 3200/7038] [D_A loss: 0.1214] [D_B loss: 0.0967] [G loss: 6.085
1]
48% | [REDACTED] | 3401/7038 [21:12<22:38, 2.68it/s]
[Epoch 1/15] [Batch 3400/7038] [D_A loss: 0.1860] [D_B loss: 0.1275] [G loss: 6.173
9]
51% | [REDACTED] | 3601/7038 [22:27<21:21, 2.68it/s]
[Epoch 1/15] [Batch 3600/7038] [D_A loss: 0.2047] [D_B loss: 0.2017] [G loss: 5.964
1]
54% | [REDACTED] | 3801/7038 [23:42<20:11, 2.67it/s]

[Epoch 1/15] [Batch 3800/7038] [D_A loss: 0.1709] [D_B loss: 0.1103] [G loss: 8.349
7]

57% | [REDACTED] | 4001/7038 [24:56<18:53, 2.68it/s]

[Epoch 1/15] [Batch 4000/7038] [D_A loss: 0.1531] [D_B loss: 0.0623] [G loss: 6.645
2]

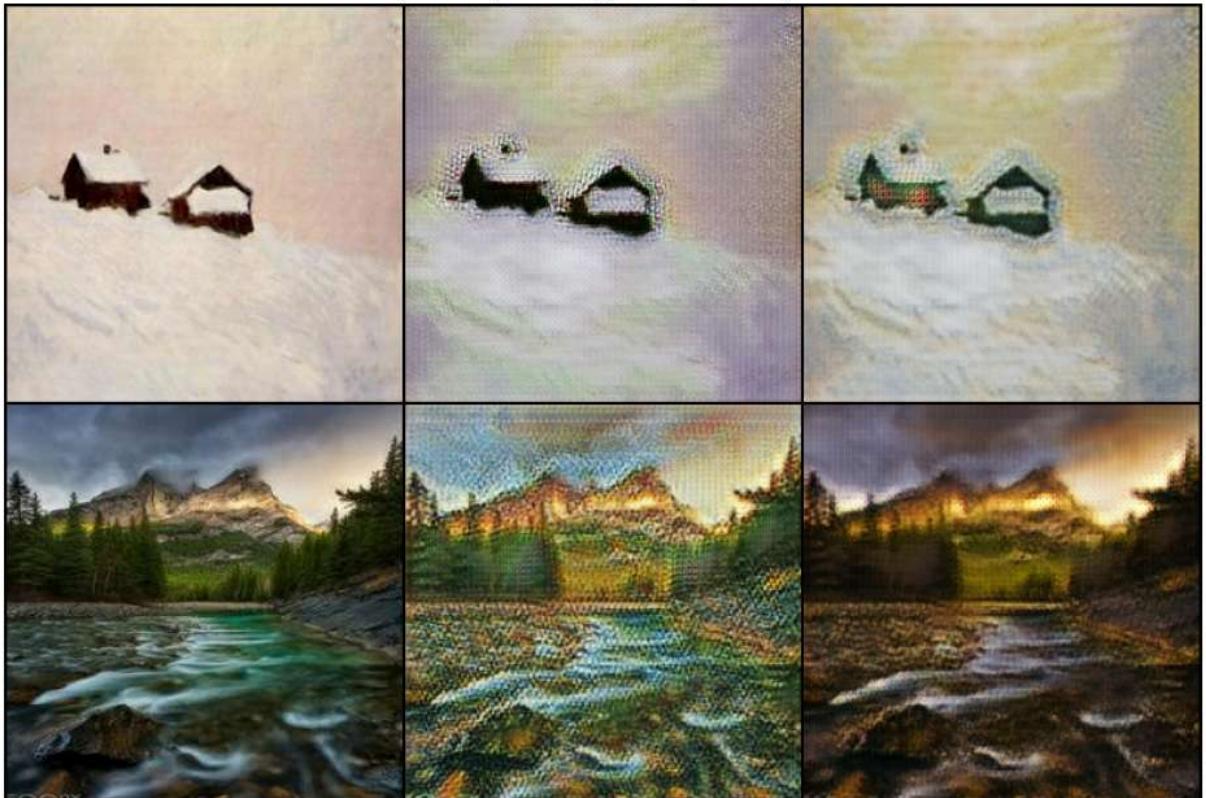
60% | [REDACTED] | 4201/7038 [26:11<17:39, 2.68it/s]

[Epoch 1/15] [Batch 4200/7038] [D_A loss: 0.1278] [D_B loss: 0.0377] [G loss: 8.358
8]

63% | [REDACTED] | 4400/7038 [27:26<16:23, 2.68it/s]

[Epoch 1/15] [Batch 4400/7038] [D_A loss: 0.0832] [D_B loss: 0.0285] [G loss: 6.135
5]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [28:42<15:08, 2.68it/s]

[Epoch 1/15] [Batch 4600/7038] [D_A loss: 0.2102] [D_B loss: 0.1097] [G loss: 7.027
9]

68% | [REDACTED] | 4801/7038 [29:57<13:56, 2.67it/s]

[Epoch 1/15] [Batch 4800/7038] [D_A loss: 0.0645] [D_B loss: 0.1411] [G loss: 6.819
0]

71% | [REDACTED] | 5001/7038 [31:11<12:39, 2.68it/s]

[Epoch 1/15] [Batch 5000/7038] [D_A loss: 0.3342] [D_B loss: 0.0904] [G loss: 6.065
8]

74% | [REDACTED] | 5201/7038 [32:26<11:24, 2.68it/s]

[Epoch 1/15] [Batch 5200/7038] [D_A loss: 0.3305] [D_B loss: 0.2327] [G loss: 7.319
8]

77% | [REDACTED] | 5401/7038 [33:41<10:12, 2.67it/s]

[Epoch 1/15] [Batch 5400/7038] [D_A loss: 0.2124] [D_B loss: 0.1497] [G loss: 6.258
3]

80% | [REDACTED] | 5601/7038 [34:56<08:59, 2.67it/s]

[Epoch 1/15] [Batch 5600/7038] [D_A loss: 0.1686] [D_B loss: 0.2520] [G loss: 5.2647]

82% | ██████████ | 5801/7038 [36:11<07:41, 2.68it/s]

[Epoch 1/15] [Batch 5800/7038] [D_A loss: 0.0964] [D_B loss: 0.1885] [G loss: 5.6740]

85% | ██████████ | 6001/7038 [37:26<06:27, 2.67it/s]

[Epoch 1/15] [Batch 6000/7038] [D_A loss: 0.2200] [D_B loss: 0.1042] [G loss: 5.2835]

88% | ██████████ | 6201/7038 [38:41<05:12, 2.67it/s]

[Epoch 1/15] [Batch 6200/7038] [D_A loss: 0.1124] [D_B loss: 0.0732] [G loss: 7.7301]

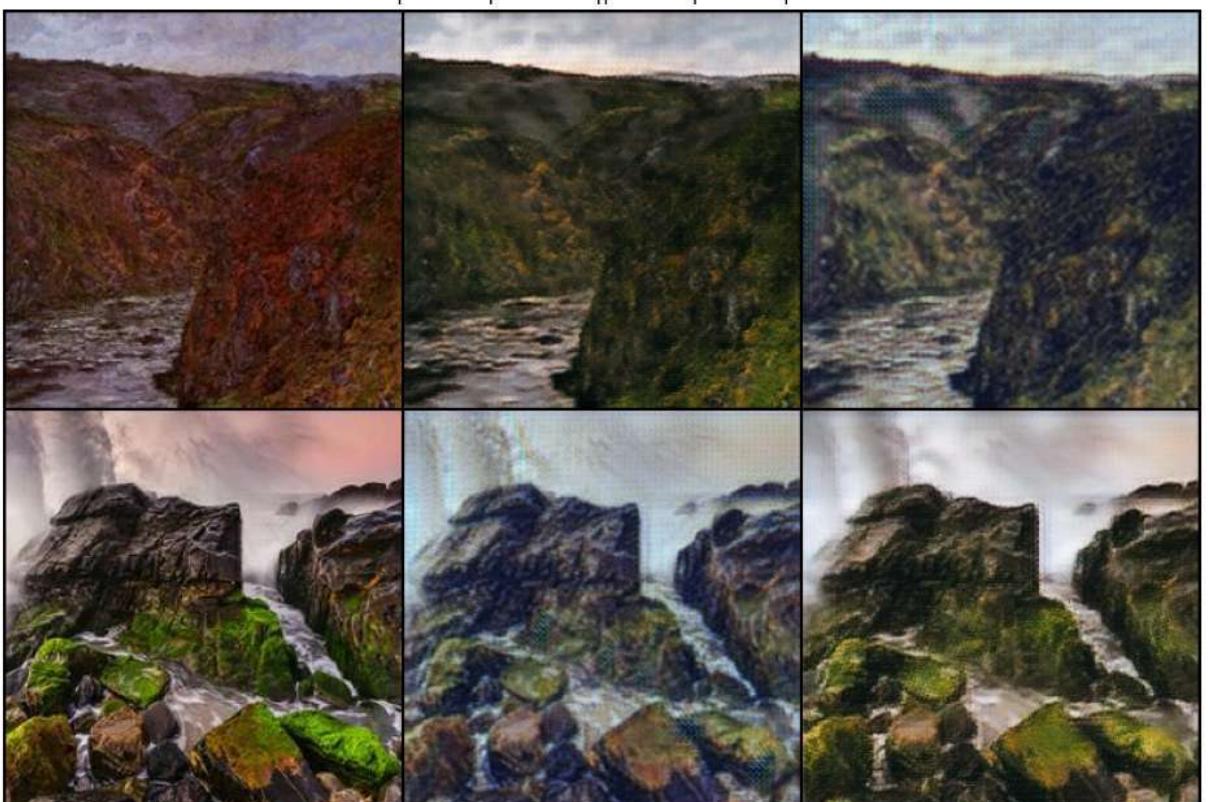
91% | ██████████ | 6401/7038 [39:56<03:58, 2.67it/s]

[Epoch 1/15] [Batch 6400/7038] [D_A loss: 0.1229] [D_B loss: 0.0363] [G loss: 7.3097]

94% | ██████████ | 6600/7038 [41:10<02:43, 2.69it/s]

[Epoch 1/15] [Batch 6600/7038] [D_A loss: 0.4315] [D_B loss: 0.1838] [G loss: 8.8707]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:26<01:28, 2.68it/s]

[Epoch 1/15] [Batch 6800/7038] [D_A loss: 0.0681] [D_B loss: 0.0264] [G loss: 7.3875]

99% | ██████████ | 7001/7038 [43:41<00:13, 2.67it/s]

[Epoch 1/15] [Batch 7000/7038] [D_A loss: 0.1801] [D_B loss: 0.1065] [G loss: 5.3725]

100% | ██████████ | 7038/7038 [43:55<00:00, 2.67it/s]

Epoch 1 finished in 2635.69 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 2/15] [Batch 0/7038] [D_A loss: 0.1208] [D_B loss: 0.1060] [G loss: 5.4300]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3% | 201/7038 [01:15<42:31, 2.68it/s]
[Epoch 2/15] [Batch 200/7038] [D_A loss: 0.2605] [D_B loss: 0.4490] [G loss: 8.4143]
6% | 401/7038 [02:30<41:07, 2.69it/s]
[Epoch 2/15] [Batch 400/7038] [D_A loss: 0.3210] [D_B loss: 0.2068] [G loss: 6.2055]
9% | 601/7038 [03:45<39:53, 2.69it/s]
[Epoch 2/15] [Batch 600/7038] [D_A loss: 0.1823] [D_B loss: 0.4168] [G loss: 6.2930]
11% | 801/7038 [05:00<38:47, 2.68it/s]
[Epoch 2/15] [Batch 800/7038] [D_A loss: 0.0233] [D_B loss: 0.0661] [G loss: 6.9537]
14% | 1001/7038 [06:15<37:38, 2.67it/s]
[Epoch 2/15] [Batch 1000/7038] [D_A loss: 0.1683] [D_B loss: 0.2311] [G loss: 4.2756]
17% | 1201/7038 [07:29<36:15, 2.68it/s]
[Epoch 2/15] [Batch 1200/7038] [D_A loss: 0.0942] [D_B loss: 0.0613] [G loss: 5.9466]
20% | 1401/7038 [08:44<35:00, 2.68it/s]
[Epoch 2/15] [Batch 1400/7038] [D_A loss: 0.1854] [D_B loss: 0.0910] [G loss: 6.3009]
23% | 1601/7038 [09:59<33:46, 2.68it/s]
[Epoch 2/15] [Batch 1600/7038] [D_A loss: 0.0977] [D_B loss: 0.0638] [G loss: 7.3093]
26% | 1801/7038 [11:14<32:34, 2.68it/s]
[Epoch 2/15] [Batch 1800/7038] [D_A loss: 0.0993] [D_B loss: 0.1093] [G loss: 7.4411]
28% | 2001/7038 [12:29<31:17, 2.68it/s]
[Epoch 2/15] [Batch 2000/7038] [D_A loss: 0.2218] [D_B loss: 0.1708] [G loss: 4.4455]
31% | 2200/7038 [13:43<30:04, 2.68it/s]

[Epoch 2/15] [Batch 2200/7038] [D_A loss: 0.1781] [D_B loss: 0.0752] [G loss: 5.2738]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [14:59<28:55, 2.67it/s]

[Epoch 2/15] [Batch 2400/7038] [D_A loss: 0.0568] [D_B loss: 0.0715] [G loss: 8.7214]

37% | [REDACTED] | 2601/7038 [16:14<27:34, 2.68it/s]

[Epoch 2/15] [Batch 2600/7038] [D_A loss: 0.1566] [D_B loss: 0.0571] [G loss: 7.7346]

40% | [REDACTED] | 2801/7038 [17:29<26:11, 2.70it/s]

[Epoch 2/15] [Batch 2800/7038] [D_A loss: 0.1980] [D_B loss: 0.1503] [G loss: 5.5947]

43% | [REDACTED] | 3001/7038 [18:44<25:07, 2.68it/s]

[Epoch 2/15] [Batch 3000/7038] [D_A loss: 0.1887] [D_B loss: 0.1724] [G loss: 5.9293]

45% | [REDACTED] | 3201/7038 [19:59<23:51, 2.68it/s]

[Epoch 2/15] [Batch 3200/7038] [D_A loss: 0.3081] [D_B loss: 0.1840] [G loss: 5.9441]

48% | [REDACTED] | 3401/7038 [21:14<22:37, 2.68it/s]

[Epoch 2/15] [Batch 3400/7038] [D_A loss: 0.0885] [D_B loss: 0.2794] [G loss: 6.1919]

51% | [REDACTED] | 3601/7038 [22:28<21:19, 2.69it/s]

[Epoch 2/15] [Batch 3600/7038] [D_A loss: 0.1797] [D_B loss: 0.5057] [G loss: 5.1803]

54% | [REDACTED] | 3801/7038 [23:43<20:13, 2.67it/s]

[Epoch 2/15] [Batch 3800/7038] [D_A loss: 0.2436] [D_B loss: 0.2073] [G loss: 4.6053]

57% | [REDACTED] | 4001/7038 [24:58<18:55, 2.67it/s]

[Epoch 2/15] [Batch 4000/7038] [D_A loss: 0.1056] [D_B loss: 0.4566] [G loss: 6.351
6]

60% | [REDACTED] | 4201/7038 [26:13<17:37, 2.68it/s]

[Epoch 2/15] [Batch 4200/7038] [D_A loss: 0.1759] [D_B loss: 0.1498] [G loss: 5.282
7]

63% | [REDACTED] | 4400/7038 [27:28<16:24, 2.68it/s]

[Epoch 2/15] [Batch 4400/7038] [D_A loss: 0.2078] [D_B loss: 0.1945] [G loss: 4.909
8]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [28:44<15:06, 2.69it/s]

[Epoch 2/15] [Batch 4600/7038] [D_A loss: 0.0789] [D_B loss: 0.0602] [G loss: 5.473
0]

68% | [REDACTED] | 4801/7038 [29:59<13:52, 2.69it/s]

[Epoch 2/15] [Batch 4800/7038] [D_A loss: 0.1181] [D_B loss: 0.1020] [G loss: 4.721
2]

71% | [REDACTED] | 5001/7038 [31:13<12:39, 2.68it/s]

[Epoch 2/15] [Batch 5000/7038] [D_A loss: 0.2152] [D_B loss: 0.1086] [G loss: 4.131
2]

74% | [REDACTED] | 5201/7038 [32:28<11:24, 2.68it/s]

[Epoch 2/15] [Batch 5200/7038] [D_A loss: 0.2327] [D_B loss: 0.1881] [G loss: 5.922
0]

77% | [REDACTED] | 5401/7038 [33:43<10:10, 2.68it/s]

[Epoch 2/15] [Batch 5400/7038] [D_A loss: 0.0880] [D_B loss: 0.1609] [G loss: 4.991
7]

80% | [REDACTED] | 5601/7038 [34:58<08:56, 2.68it/s]

[Epoch 2/15] [Batch 5600/7038] [D_A loss: 0.2692] [D_B loss: 0.5021] [G loss: 5.902
5]

82% | [REDACTED] | 5801/7038 [36:13<07:41, 2.68it/s]

[Epoch 2/15] [Batch 5800/7038] [D_A loss: 0.1552] [D_B loss: 0.0545] [G loss: 8.0704]

85% | ██████████ | 6001/7038 [37:28<06:28, 2.67it/s]

[Epoch 2/15] [Batch 6000/7038] [D_A loss: 0.0499] [D_B loss: 0.0610] [G loss: 7.7282]

88% | ██████████ | 6201/7038 [38:43<05:12, 2.68it/s]

[Epoch 2/15] [Batch 6200/7038] [D_A loss: 0.1949] [D_B loss: 0.1405] [G loss: 4.7555]

91% | ██████████ | 6401/7038 [39:58<03:58, 2.67it/s]

[Epoch 2/15] [Batch 6400/7038] [D_A loss: 0.1304] [D_B loss: 0.1877] [G loss: 5.7195]

94% | ██████████ | 6600/7038 [41:12<02:43, 2.68it/s]

[Epoch 2/15] [Batch 6600/7038] [D_A loss: 0.1778] [D_B loss: 0.1380] [G loss: 4.3102]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:28<01:28, 2.68it/s]

[Epoch 2/15] [Batch 6800/7038] [D_A loss: 0.2137] [D_B loss: 0.1797] [G loss: 4.7910]

99% | ██████████ | 7001/7038 [43:43<00:13, 2.68it/s]

[Epoch 2/15] [Batch 7000/7038] [D_A loss: 0.0487] [D_B loss: 0.0380] [G loss: 6.7562]

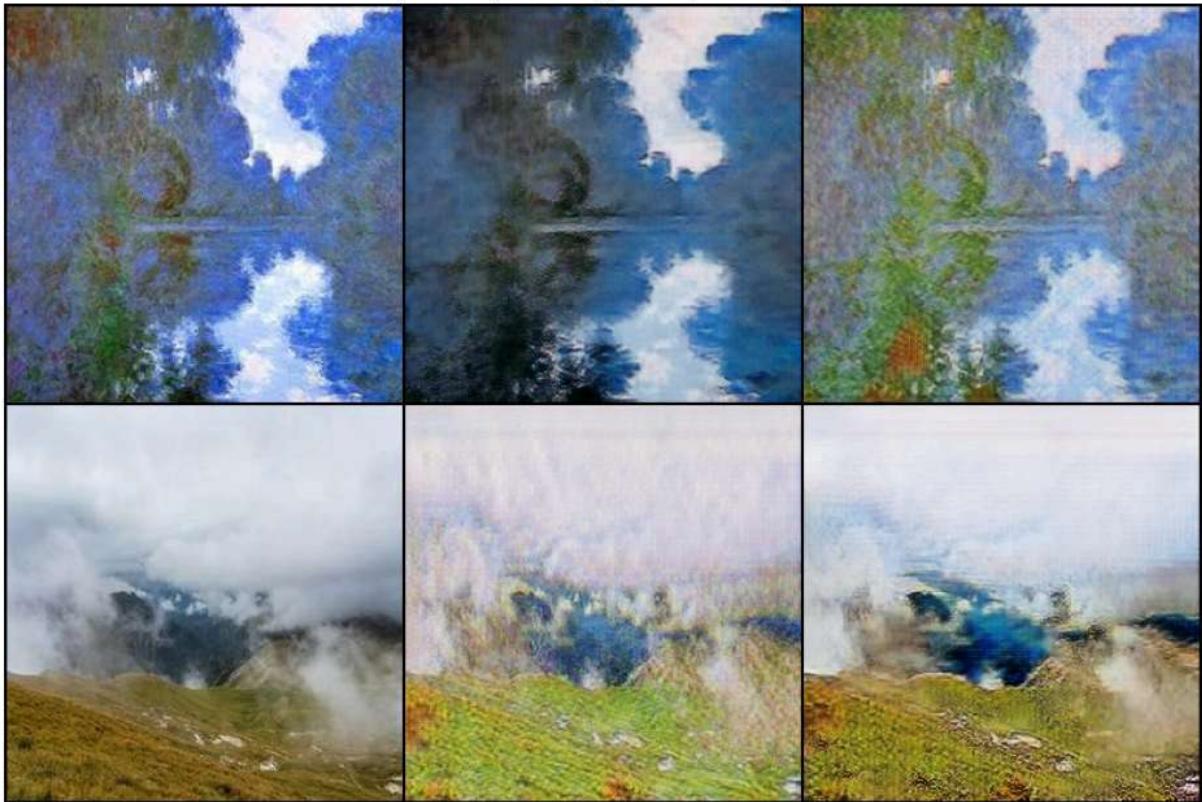
100% | ██████████ | 7038/7038 [43:57<00:00, 2.67it/s]

Epoch 2 finished in 2637.88 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 3/15] [Batch 0/7038] [D_A loss: 0.1858] [D_B loss: 0.0971] [G loss: 5.6638]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



```
3%| 201/7038 [01:15<42:34, 2.68it/s]
[Epoch 3/15] [Batch 200/7038] [D_A loss: 0.1861] [D_B loss: 0.3566] [G loss: 3.7033]
6%| 401/7038 [02:30<41:16, 2.68it/s]
[Epoch 3/15] [Batch 400/7038] [D_A loss: 0.0916] [D_B loss: 0.1435] [G loss: 5.1482]
9%| 601/7038 [03:45<39:57, 2.68it/s]
[Epoch 3/15] [Batch 600/7038] [D_A loss: 0.2059] [D_B loss: 0.1717] [G loss: 4.2083]
11%| 801/7038 [05:00<38:47, 2.68it/s]
[Epoch 3/15] [Batch 800/7038] [D_A loss: 0.1597] [D_B loss: 0.0250] [G loss: 7.0987]
14%| 1001/7038 [06:15<37:36, 2.68it/s]
[Epoch 3/15] [Batch 1000/7038] [D_A loss: 0.2981] [D_B loss: 0.0846] [G loss: 6.2441]
17%| 1201/7038 [07:30<36:19, 2.68it/s]
[Epoch 3/15] [Batch 1200/7038] [D_A loss: 0.0702] [D_B loss: 0.1098] [G loss: 6.1292]
20%| 1401/7038 [08:45<35:15, 2.66it/s]
[Epoch 3/15] [Batch 1400/7038] [D_A loss: 0.2865] [D_B loss: 0.2225] [G loss: 5.4195]
23%| 1601/7038 [10:00<33:51, 2.68it/s]
[Epoch 3/15] [Batch 1600/7038] [D_A loss: 0.2649] [D_B loss: 0.2040] [G loss: 4.2805]
26%| 1801/7038 [11:15<32:33, 2.68it/s]
[Epoch 3/15] [Batch 1800/7038] [D_A loss: 0.3206] [D_B loss: 0.2606] [G loss: 4.9309]
28%| 2001/7038 [12:30<31:33, 2.66it/s]
[Epoch 3/15] [Batch 2000/7038] [D_A loss: 0.2261] [D_B loss: 0.0583] [G loss: 6.5160]
31%| 2200/7038 [13:45<30:10, 2.67it/s]
```

[Epoch 3/15] [Batch 2200/7038] [D_A loss: 0.1350] [D_B loss: 0.0551] [G loss: 4.0045]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:01<28:48, 2.68it/s]

[Epoch 3/15] [Batch 2400/7038] [D_A loss: 0.0429] [D_B loss: 0.0647] [G loss: 5.9045]

37% | [REDACTED] | 2601/7038 [16:16<27:40, 2.67it/s]

[Epoch 3/15] [Batch 2600/7038] [D_A loss: 0.0888] [D_B loss: 0.1036] [G loss: 4.1486]

40% | [REDACTED] | 2801/7038 [17:31<26:22, 2.68it/s]

[Epoch 3/15] [Batch 2800/7038] [D_A loss: 0.3049] [D_B loss: 0.2634] [G loss: 4.9696]

43% | [REDACTED] | 3001/7038 [18:46<25:08, 2.68it/s]

[Epoch 3/15] [Batch 3000/7038] [D_A loss: 0.2921] [D_B loss: 0.2569] [G loss: 4.8027]

45% | [REDACTED] | 3201/7038 [20:01<23:50, 2.68it/s]

[Epoch 3/15] [Batch 3200/7038] [D_A loss: 0.1424] [D_B loss: 0.1487] [G loss: 4.6720]

48% | [REDACTED] | 3401/7038 [21:16<22:35, 2.68it/s]

[Epoch 3/15] [Batch 3400/7038] [D_A loss: 0.2452] [D_B loss: 0.1150] [G loss: 4.4181]

51% | [REDACTED] | 3601/7038 [22:31<21:21, 2.68it/s]

[Epoch 3/15] [Batch 3600/7038] [D_A loss: 0.1416] [D_B loss: 0.1497] [G loss: 7.0697]

54% | [REDACTED] | 3801/7038 [23:46<20:12, 2.67it/s]

[Epoch 3/15] [Batch 3800/7038] [D_A loss: 0.1141] [D_B loss: 0.1937] [G loss: 6.9272]

57% | [REDACTED] | 4001/7038 [25:01<18:50, 2.69it/s]

[Epoch 3/15] [Batch 4000/7038] [D_A loss: 0.1168] [D_B loss: 0.1778] [G loss: 5.832
3]

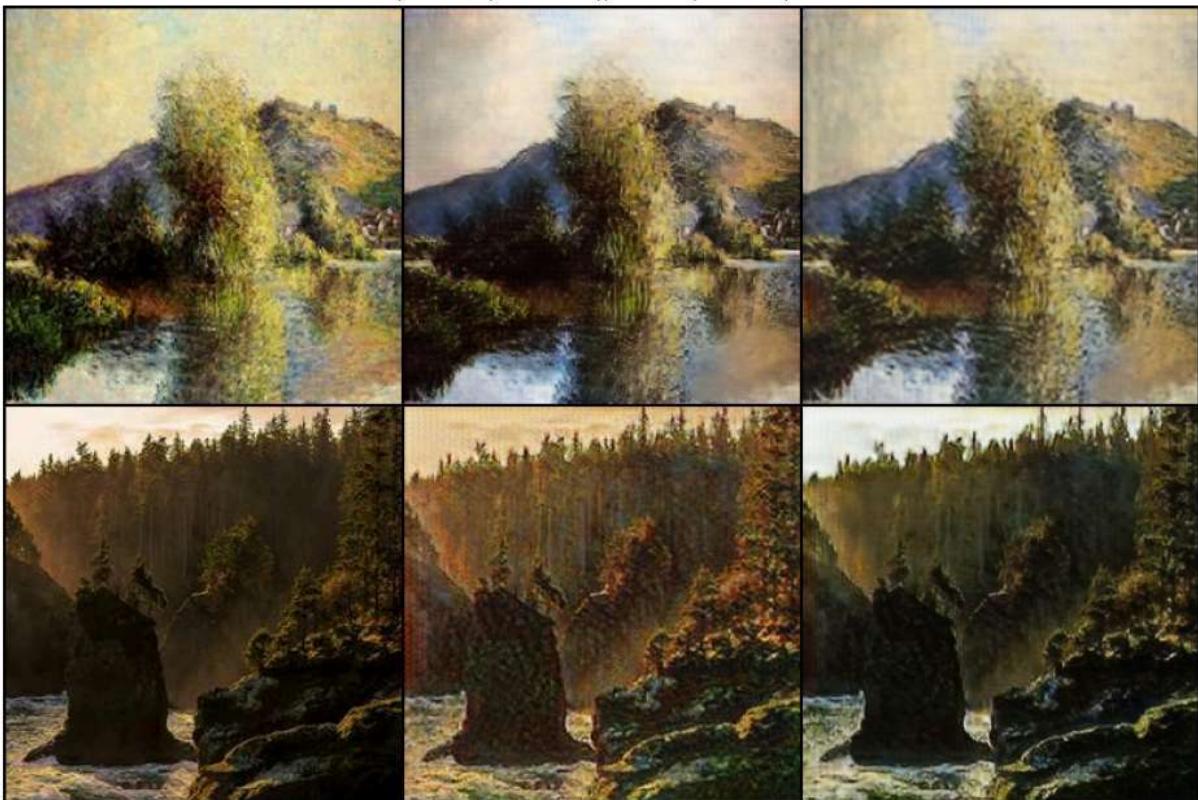
60% | [REDACTED] | 4201/7038 [26:16<17:38, 2.68it/s]

[Epoch 3/15] [Batch 4200/7038] [D_A loss: 0.0923] [D_B loss: 0.2535] [G loss: 4.342
7]

63% | [REDACTED] | 4400/7038 [27:30<16:24, 2.68it/s]

[Epoch 3/15] [Batch 4400/7038] [D_A loss: 0.1641] [D_B loss: 0.1733] [G loss: 4.487
8]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [28:46<15:10, 2.68it/s]

[Epoch 3/15] [Batch 4600/7038] [D_A loss: 0.2005] [D_B loss: 0.1221] [G loss: 6.179
7]

68% | [REDACTED] | 4801/7038 [30:01<13:55, 2.68it/s]

[Epoch 3/15] [Batch 4800/7038] [D_A loss: 0.1839] [D_B loss: 0.1741] [G loss: 4.918
1]

71% | [REDACTED] | 5001/7038 [31:16<12:41, 2.67it/s]

[Epoch 3/15] [Batch 5000/7038] [D_A loss: 0.1793] [D_B loss: 0.2428] [G loss: 6.269
1]

74% | [REDACTED] | 5201/7038 [32:31<11:30, 2.66it/s]

[Epoch 3/15] [Batch 5200/7038] [D_A loss: 0.0711] [D_B loss: 0.1932] [G loss: 5.037
3]

77% | [REDACTED] | 5401/7038 [33:46<10:13, 2.67it/s]

[Epoch 3/15] [Batch 5400/7038] [D_A loss: 0.3368] [D_B loss: 0.0967] [G loss: 6.513
3]

80% | [REDACTED] | 5601/7038 [35:02<08:57, 2.67it/s]

[Epoch 3/15] [Batch 5600/7038] [D_A loss: 0.1898] [D_B loss: 0.0566] [G loss: 7.071
9]

82% | [REDACTED] | 5801/7038 [36:17<07:43, 2.67it/s]

[Epoch 3/15] [Batch 5800/7038] [D_A loss: 0.1962] [D_B loss: 0.0426] [G loss: 5.5842]

85% | ██████████ | 6001/7038 [37:32<06:26, 2.68it/s]

[Epoch 3/15] [Batch 6000/7038] [D_A loss: 0.2001] [D_B loss: 0.1759] [G loss: 4.4333]

88% | ██████████ | 6201/7038 [38:47<05:13, 2.67it/s]

[Epoch 3/15] [Batch 6200/7038] [D_A loss: 0.1868] [D_B loss: 0.1036] [G loss: 5.3428]

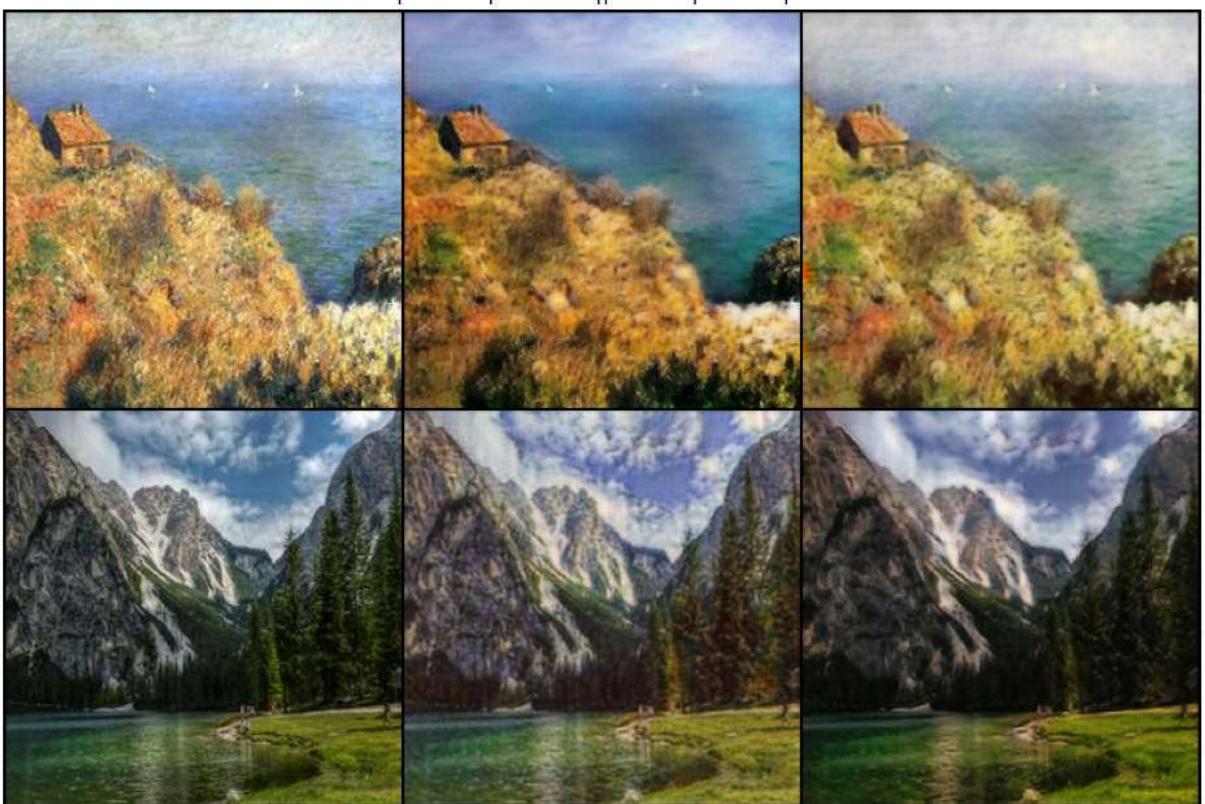
91% | ██████████ | 6401/7038 [40:02<03:58, 2.68it/s]

[Epoch 3/15] [Batch 6400/7038] [D_A loss: 0.2319] [D_B loss: 0.2440] [G loss: 5.1782]

94% | ██████████ | 6600/7038 [41:16<02:43, 2.67it/s]

[Epoch 3/15] [Batch 6600/7038] [D_A loss: 0.0569] [D_B loss: 0.0556] [G loss: 4.3635]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:32<01:28, 2.68it/s]

[Epoch 3/15] [Batch 6800/7038] [D_A loss: 0.1403] [D_B loss: 0.0956] [G loss: 4.3871]

99% | ██████████ | 7001/7038 [43:48<00:13, 2.67it/s]

[Epoch 3/15] [Batch 7000/7038] [D_A loss: 0.2914] [D_B loss: 0.2978] [G loss: 5.9119]

100% | ██████████ | 7038/7038 [44:02<00:00, 2.66it/s]

Epoch 3 finished in 2642.05 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 4/15] [Batch 0/7038] [D_A loss: 0.2372] [D_B loss: 0.2689] [G loss: 3.9857]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



```
3%| 201/7038 [01:16<42:30, 2.68it/s]
[Epoch 4/15] [Batch 200/7038] [D_A loss: 0.1620] [D_B loss: 0.0816] [G loss: 4.0549]
6%| 401/7038 [02:31<41:26, 2.67it/s]
[Epoch 4/15] [Batch 400/7038] [D_A loss: 0.1907] [D_B loss: 0.0919] [G loss: 4.6590]
9%| 601/7038 [03:46<40:06, 2.68it/s]
[Epoch 4/15] [Batch 600/7038] [D_A loss: 0.0390] [D_B loss: 0.0846] [G loss: 4.4642]
11%| 801/7038 [05:01<38:50, 2.68it/s]
[Epoch 4/15] [Batch 800/7038] [D_A loss: 0.4067] [D_B loss: 0.5517] [G loss: 6.0551]
14%| 1001/7038 [06:16<37:33, 2.68it/s]
[Epoch 4/15] [Batch 1000/7038] [D_A loss: 0.3482] [D_B loss: 0.2709] [G loss: 3.573
3]
17%| 1201/7038 [07:31<36:23, 2.67it/s]
[Epoch 4/15] [Batch 1200/7038] [D_A loss: 0.0445] [D_B loss: 0.0949] [G loss: 4.680
4]
20%| 1401/7038 [08:46<34:58, 2.69it/s]
[Epoch 4/15] [Batch 1400/7038] [D_A loss: 0.1664] [D_B loss: 0.1214] [G loss: 4.737
2]
23%| 1601/7038 [10:01<33:58, 2.67it/s]
[Epoch 4/15] [Batch 1600/7038] [D_A loss: 0.1838] [D_B loss: 0.0815] [G loss: 5.355
9]
26%| 1801/7038 [11:16<32:37, 2.68it/s]
[Epoch 4/15] [Batch 1800/7038] [D_A loss: 0.1304] [D_B loss: 0.1896] [G loss: 4.695
1]
28%| 2001/7038 [12:31<31:31, 2.66it/s]
[Epoch 4/15] [Batch 2000/7038] [D_A loss: 0.1820] [D_B loss: 0.0772] [G loss: 7.816
2]
31%| 2200/7038 [13:46<30:22, 2.65it/s]
```

[Epoch 4/15] [Batch 2200/7038] [D_A loss: 0.1488] [D_B loss: 0.2585] [G loss: 4.4809]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:02<28:55, 2.67it/s]

[Epoch 4/15] [Batch 2400/7038] [D_A loss: 0.2021] [D_B loss: 0.1872] [G loss: 5.3509]

37% | [REDACTED] | 2601/7038 [16:17<27:37, 2.68it/s]

[Epoch 4/15] [Batch 2600/7038] [D_A loss: 0.1609] [D_B loss: 0.0960] [G loss: 5.5737]

40% | [REDACTED] | 2801/7038 [17:32<26:20, 2.68it/s]

[Epoch 4/15] [Batch 2800/7038] [D_A loss: 0.2973] [D_B loss: 0.1118] [G loss: 4.1971]

43% | [REDACTED] | 3001/7038 [18:47<25:15, 2.66it/s]

[Epoch 4/15] [Batch 3000/7038] [D_A loss: 0.0766] [D_B loss: 0.2345] [G loss: 5.3197]

45% | [REDACTED] | 3201/7038 [20:02<23:58, 2.67it/s]

[Epoch 4/15] [Batch 3200/7038] [D_A loss: 0.0990] [D_B loss: 0.0300] [G loss: 4.7339]

48% | [REDACTED] | 3401/7038 [21:18<22:41, 2.67it/s]

[Epoch 4/15] [Batch 3400/7038] [D_A loss: 0.1297] [D_B loss: 0.2594] [G loss: 4.4911]

51% | [REDACTED] | 3601/7038 [22:33<21:31, 2.66it/s]

[Epoch 4/15] [Batch 3600/7038] [D_A loss: 0.0624] [D_B loss: 0.0246] [G loss: 4.1954]

54% | [REDACTED] | 3801/7038 [23:48<20:14, 2.66it/s]

[Epoch 4/15] [Batch 3800/7038] [D_A loss: 0.3972] [D_B loss: 0.2597] [G loss: 4.5400]

57% | [REDACTED] | 4001/7038 [25:03<18:58, 2.67it/s]

[Epoch 4/15] [Batch 4000/7038] [D_A loss: 0.2424] [D_B loss: 0.6576] [G loss: 5.1083]

60% | ██████████ | 4201/7038 [26:18<17:41, 2.67it/s]

[Epoch 4/15] [Batch 4200/7038] [D_A loss: 0.1322] [D_B loss: 0.3271] [G loss: 4.6810]

63% | ██████████ | 4400/7038 [27:33<16:26, 2.67it/s]

[Epoch 4/15] [Batch 4400/7038] [D_A loss: 0.2411] [D_B loss: 0.2153] [G loss: 4.3493]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | ██████████ | 4601/7038 [28:49<15:16, 2.66it/s]

[Epoch 4/15] [Batch 4600/7038] [D_A loss: 0.1747] [D_B loss: 0.2329] [G loss: 7.3628]

68% | ██████████ | 4801/7038 [30:04<14:00, 2.66it/s]

[Epoch 4/15] [Batch 4800/7038] [D_A loss: 0.0661] [D_B loss: 0.0467] [G loss: 7.5948]

71% | ██████████ | 5001/7038 [31:19<12:43, 2.67it/s]

[Epoch 4/15] [Batch 5000/7038] [D_A loss: 0.2206] [D_B loss: 0.1229] [G loss: 4.6321]

74% | ██████████ | 5201/7038 [32:34<11:29, 2.66it/s]

[Epoch 4/15] [Batch 5200/7038] [D_A loss: 0.1207] [D_B loss: 0.2283] [G loss: 6.3598]

77% | ██████████ | 5401/7038 [33:50<10:14, 2.67it/s]

[Epoch 4/15] [Batch 5400/7038] [D_A loss: 0.2352] [D_B loss: 0.0928] [G loss: 6.7176]

80% | ██████████ | 5601/7038 [35:05<09:02, 2.65it/s]

[Epoch 4/15] [Batch 5600/7038] [D_A loss: 0.1684] [D_B loss: 0.1083] [G loss: 4.4800]

82% | ██████████ | 5801/7038 [36:20<07:47, 2.64it/s]

[Epoch 4/15] [Batch 5800/7038] [D_A loss: 0.1538] [D_B loss: 0.1554] [G loss: 4.2925]

85% | ██████████ | 6001/7038 [37:35<06:29, 2.66it/s]

[Epoch 4/15] [Batch 6000/7038] [D_A loss: 0.2898] [D_B loss: 0.0866] [G loss: 5.1108]

88% | ██████████ | 6201/7038 [38:50<05:12, 2.68it/s]

[Epoch 4/15] [Batch 6200/7038] [D_A loss: 0.2010] [D_B loss: 0.2293] [G loss: 4.8078]

91% | ██████████ | 6401/7038 [40:06<03:58, 2.67it/s]

[Epoch 4/15] [Batch 6400/7038] [D_A loss: 0.1774] [D_B loss: 0.3349] [G loss: 4.6980]

94% | ██████████ | 6600/7038 [41:20<02:44, 2.65it/s]

[Epoch 4/15] [Batch 6600/7038] [D_A loss: 0.1695] [D_B loss: 0.0860] [G loss: 5.7618]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:37<01:28, 2.67it/s]

[Epoch 4/15] [Batch 6800/7038] [D_A loss: 0.0590] [D_B loss: 0.1109] [G loss: 4.3732]

99% | ██████████ | 7001/7038 [43:52<00:13, 2.66it/s]

[Epoch 4/15] [Batch 7000/7038] [D_A loss: 0.0859] [D_B loss: 0.1408] [G loss: 5.5055]

100% | ██████████ | 7038/7038 [44:06<00:00, 2.66it/s]

Epoch 4 finished in 2646.50 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 5/15] [Batch 0/7038] [D_A loss: 0.1525] [D_B loss: 0.1724] [G loss: 6.4104]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



```
3%|██████████| 201/7038 [01:16<42:33,  2.68it/s]
[Epoch 5/15] [Batch 200/7038] [D_A loss: 0.2474] [D_B loss: 0.3305] [G loss: 5.2590]
6%|██████████| 401/7038 [02:31<41:30,  2.67it/s]
[Epoch 5/15] [Batch 400/7038] [D_A loss: 0.2199] [D_B loss: 0.0900] [G loss: 6.3807]
9%|██████████| 601/7038 [03:46<40:24,  2.66it/s]
[Epoch 5/15] [Batch 600/7038] [D_A loss: 0.1169] [D_B loss: 0.1432] [G loss: 5.6715]
11%|██████████| 801/7038 [05:01<38:52,  2.67it/s]
[Epoch 5/15] [Batch 800/7038] [D_A loss: 0.1325] [D_B loss: 0.0538] [G loss: 4.9749]
14%|██████████| 1001/7038 [06:17<37:39,  2.67it/s]
[Epoch 5/15] [Batch 1000/7038] [D_A loss: 0.2243] [D_B loss: 0.1810] [G loss: 4.157
8]
17%|██████████| 1201/7038 [07:32<36:25,  2.67it/s]
[Epoch 5/15] [Batch 1200/7038] [D_A loss: 0.0596] [D_B loss: 0.2145] [G loss: 4.932
9]
20%|██████████| 1401/7038 [08:47<35:09,  2.67it/s]
[Epoch 5/15] [Batch 1400/7038] [D_A loss: 0.2976] [D_B loss: 0.2392] [G loss: 3.816
8]
23%|██████████| 1601/7038 [10:02<33:54,  2.67it/s]
[Epoch 5/15] [Batch 1600/7038] [D_A loss: 0.1018] [D_B loss: 0.0304] [G loss: 5.154
4]
26%|██████████| 1801/7038 [11:18<32:59,  2.65it/s]
[Epoch 5/15] [Batch 1800/7038] [D_A loss: 0.0668] [D_B loss: 0.1611] [G loss: 6.115
5]
28%|██████████| 2001/7038 [12:33<31:30,  2.66it/s]
[Epoch 5/15] [Batch 2000/7038] [D_A loss: 0.2861] [D_B loss: 0.0601] [G loss: 5.477
2]
31%|██████████| 2200/7038 [13:48<30:21,  2.66it/s]
```

[Epoch 5/15] [Batch 2200/7038] [D_A loss: 0.2943] [D_B loss: 0.2052] [G loss: 5.2974]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:04<28:56, 2.67it/s]

[Epoch 5/15] [Batch 2400/7038] [D_A loss: 0.0673] [D_B loss: 0.0660] [G loss: 4.7053]

37% | [REDACTED] | 2601/7038 [16:19<27:42, 2.67it/s]

[Epoch 5/15] [Batch 2600/7038] [D_A loss: 0.3035] [D_B loss: 0.3084] [G loss: 5.0142]

40% | [REDACTED] | 2801/7038 [17:34<26:26, 2.67it/s]

[Epoch 5/15] [Batch 2800/7038] [D_A loss: 0.2058] [D_B loss: 0.0416] [G loss: 4.4094]

43% | [REDACTED] | 3001/7038 [18:50<25:15, 2.66it/s]

[Epoch 5/15] [Batch 3000/7038] [D_A loss: 0.2731] [D_B loss: 0.0432] [G loss: 4.7558]

45% | [REDACTED] | 3201/7038 [20:05<23:58, 2.67it/s]

[Epoch 5/15] [Batch 3200/7038] [D_A loss: 0.1703] [D_B loss: 0.0480] [G loss: 5.2745]

48% | [REDACTED] | 3401/7038 [21:21<22:38, 2.68it/s]

[Epoch 5/15] [Batch 3400/7038] [D_A loss: 0.1953] [D_B loss: 0.0449] [G loss: 4.9046]

51% | [REDACTED] | 3601/7038 [22:36<21:29, 2.66it/s]

[Epoch 5/15] [Batch 3600/7038] [D_A loss: 0.1239] [D_B loss: 0.0340] [G loss: 7.0742]

54% | [REDACTED] | 3801/7038 [23:51<20:12, 2.67it/s]

[Epoch 5/15] [Batch 3800/7038] [D_A loss: 0.0833] [D_B loss: 0.1331] [G loss: 4.3150]

57% | [REDACTED] | 4001/7038 [25:07<19:04, 2.65it/s]

[Epoch 5/15] [Batch 4000/7038] [D_A loss: 0.0999] [D_B loss: 0.1866] [G loss: 4.3513]

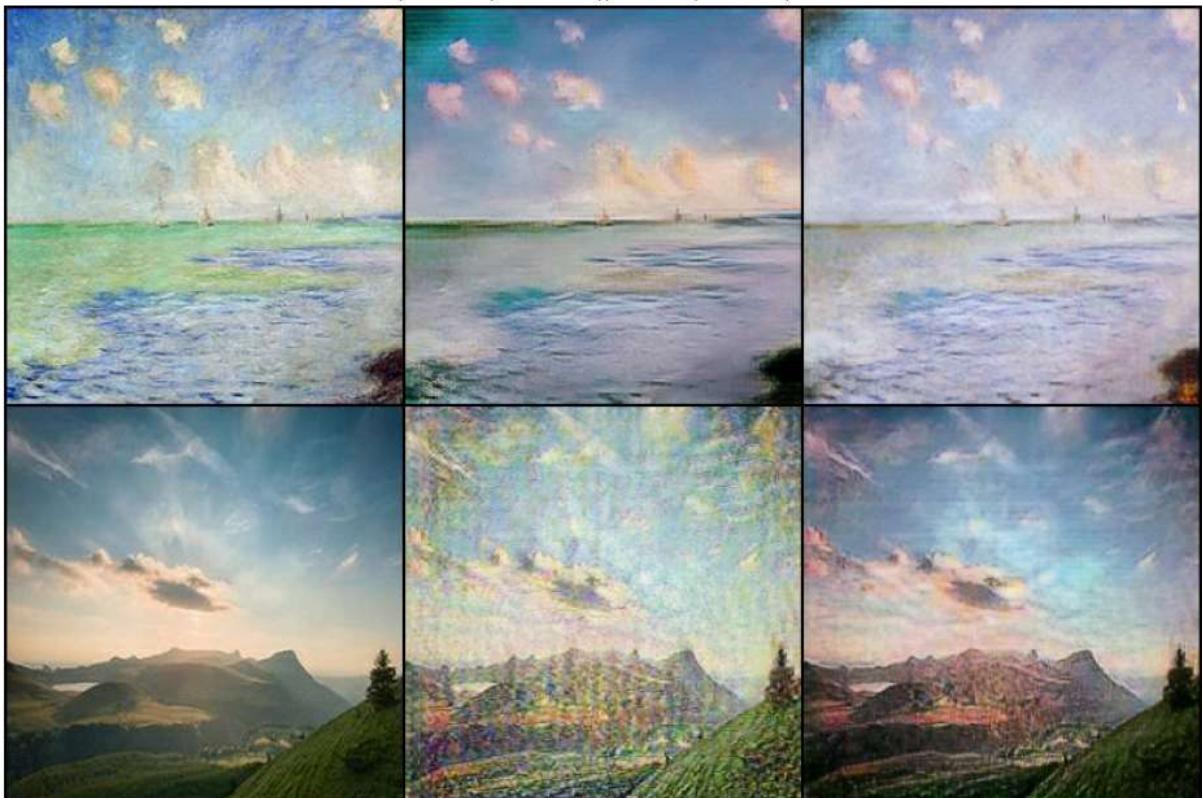
60% | ██████████ | 4201/7038 [26:22<17:45, 2.66it/s]

[Epoch 5/15] [Batch 4200/7038] [D_A loss: 0.1763] [D_B loss: 0.0716] [G loss: 5.5273]

63% | ██████████ | 4400/7038 [27:37<16:27, 2.67it/s]

[Epoch 5/15] [Batch 4400/7038] [D_A loss: 0.1148] [D_B loss: 0.2190] [G loss: 4.3554]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | ██████████ | 4601/7038 [28:53<15:15, 2.66it/s]

[Epoch 5/15] [Batch 4600/7038] [D_A loss: 0.0833] [D_B loss: 0.0288] [G loss: 5.8259]

68% | ██████████ | 4801/7038 [30:08<14:03, 2.65it/s]

[Epoch 5/15] [Batch 4800/7038] [D_A loss: 0.1745] [D_B loss: 0.1391] [G loss: 5.2937]

71% | ██████████ | 5001/7038 [31:24<12:45, 2.66it/s]

[Epoch 5/15] [Batch 5000/7038] [D_A loss: 0.1680] [D_B loss: 0.2973] [G loss: 4.1592]

74% | ██████████ | 5201/7038 [32:39<11:29, 2.66it/s]

[Epoch 5/15] [Batch 5200/7038] [D_A loss: 0.0762] [D_B loss: 0.2094] [G loss: 4.5088]

77% | ██████████ | 5401/7038 [33:54<10:15, 2.66it/s]

[Epoch 5/15] [Batch 5400/7038] [D_A loss: 0.1922] [D_B loss: 0.1706] [G loss: 4.7340]

80% | ██████████ | 5601/7038 [35:10<09:02, 2.65it/s]

[Epoch 5/15] [Batch 5600/7038] [D_A loss: 0.2224] [D_B loss: 0.1157] [G loss: 5.0757]

82% | ██████████ | 5801/7038 [36:25<07:45, 2.66it/s]

[Epoch 5/15] [Batch 5800/7038] [D_A loss: 0.1474] [D_B loss: 0.1122] [G loss: 3.825
1]

85% | ██████████ | 6001/7038 [37:41<06:31, 2.65it/s]

[Epoch 5/15] [Batch 6000/7038] [D_A loss: 0.0840] [D_B loss: 0.3540] [G loss: 5.104
8]

88% | ██████████ | 6201/7038 [38:56<05:15, 2.65it/s]

[Epoch 5/15] [Batch 6200/7038] [D_A loss: 0.0784] [D_B loss: 0.0900] [G loss: 3.790
0]

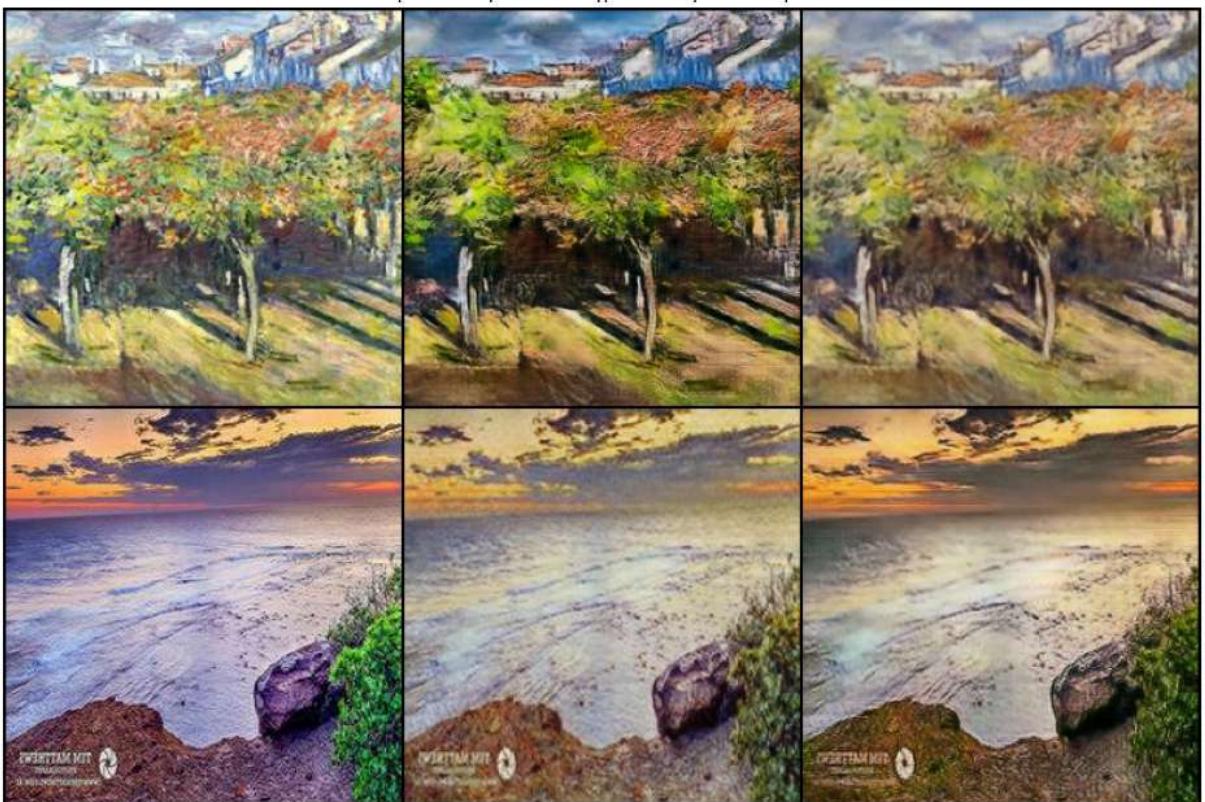
91% | ██████████ | 6401/7038 [40:11<03:58, 2.67it/s]

[Epoch 5/15] [Batch 6400/7038] [D_A loss: 0.1632] [D_B loss: 0.2141] [G loss: 4.889
1]

94% | ██████████ | 6600/7038 [41:26<02:44, 2.66it/s]

[Epoch 5/15] [Batch 6600/7038] [D_A loss: 0.1068] [D_B loss: 0.0892] [G loss: 6.581
2]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:43<01:29, 2.66it/s]

[Epoch 5/15] [Batch 6800/7038] [D_A loss: 0.1503] [D_B loss: 0.1805] [G loss: 4.768
2]

99% | ██████████ | 7001/7038 [43:58<00:13, 2.66it/s]

[Epoch 5/15] [Batch 7000/7038] [D_A loss: 0.2621] [D_B loss: 0.1645] [G loss: 5.226
0]

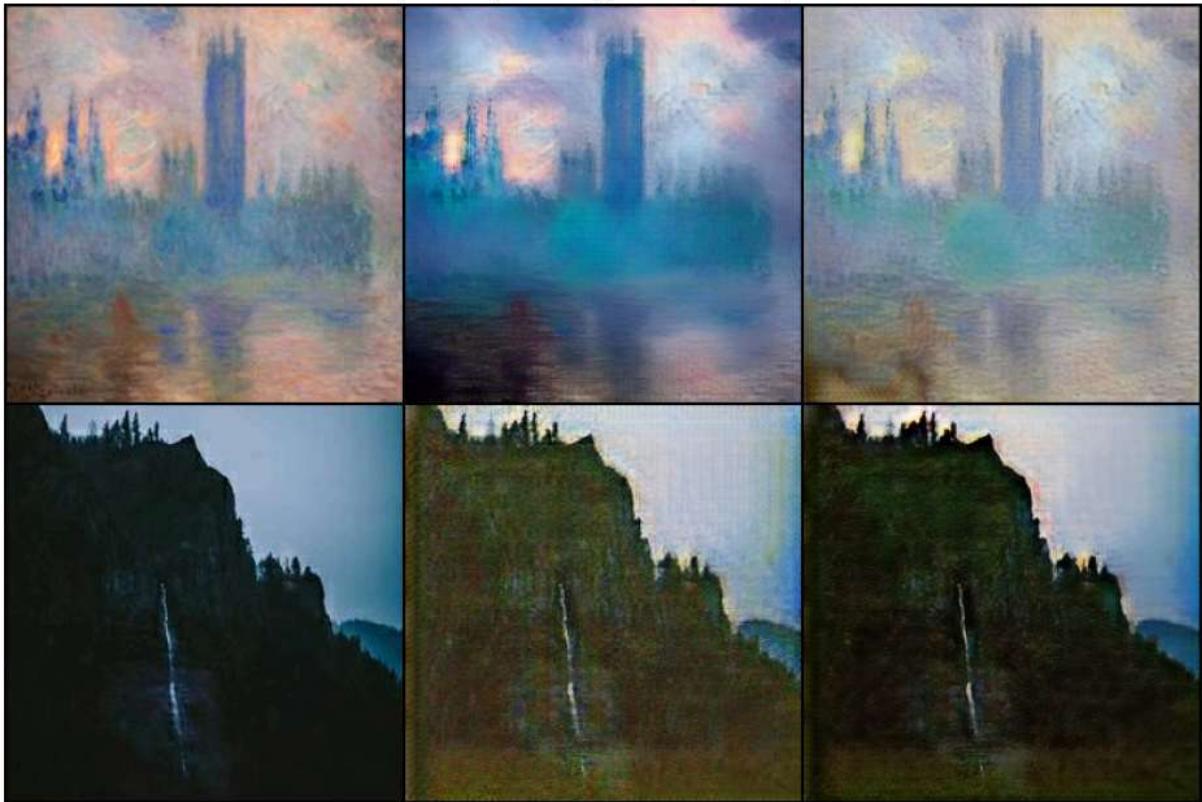
100% | ██████████ | 7038/7038 [44:12<00:00, 2.65it/s]

Epoch 5 finished in 2652.87 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 6/15] [Batch 0/7038] [D_A loss: 0.0755] [D_B loss: 0.1194] [G loss: 4.1894]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



```
3%|██████████| 201/7038 [01:16<43:02,  2.65it/s]
[Epoch 6/15] [Batch 200/7038] [D_A loss: 0.2150] [D_B loss: 0.0250] [G loss: 4.5875]
6%|██████████| 401/7038 [02:32<41:39,  2.66it/s]
[Epoch 6/15] [Batch 400/7038] [D_A loss: 0.2196] [D_B loss: 0.1470] [G loss: 5.0803]
9%|██████████| 601/7038 [03:47<40:32,  2.65it/s]
[Epoch 6/15] [Batch 600/7038] [D_A loss: 0.2010] [D_B loss: 0.0594] [G loss: 3.8597]
11%|██████████| 801/7038 [05:03<39:10,  2.65it/s]
[Epoch 6/15] [Batch 800/7038] [D_A loss: 0.1712] [D_B loss: 0.1807] [G loss: 3.8157]
14%|██████████| 1001/7038 [06:18<37:42,  2.67it/s]
[Epoch 6/15] [Batch 1000/7038] [D_A loss: 0.0459] [D_B loss: 0.1942] [G loss: 5.192
0]
17%|██████████| 1201/7038 [07:34<36:41,  2.65it/s]
[Epoch 6/15] [Batch 1200/7038] [D_A loss: 0.1408] [D_B loss: 0.3181] [G loss: 3.208
9]
20%|██████████| 1401/7038 [08:49<35:18,  2.66it/s]
[Epoch 6/15] [Batch 1400/7038] [D_A loss: 0.1069] [D_B loss: 0.2361] [G loss: 4.823
2]
23%|██████████| 1601/7038 [10:05<34:04,  2.66it/s]
[Epoch 6/15] [Batch 1600/7038] [D_A loss: 0.0232] [D_B loss: 0.0275] [G loss: 5.026
1]
26%|██████████| 1801/7038 [11:20<32:51,  2.66it/s]
[Epoch 6/15] [Batch 1800/7038] [D_A loss: 0.1909] [D_B loss: 0.0749] [G loss: 4.644
8]
28%|██████████| 2001/7038 [12:36<31:42,  2.65it/s]
[Epoch 6/15] [Batch 2000/7038] [D_A loss: 0.0362] [D_B loss: 0.0573] [G loss: 4.599
0]
31%|██████████| 2200/7038 [13:51<30:19,  2.66it/s]
```

[Epoch 6/15] [Batch 2200/7038] [D_A loss: 0.1440] [D_B loss: 0.1652] [G loss: 4.5612]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:07<29:02, 2.66it/s]

[Epoch 6/15] [Batch 2400/7038] [D_A loss: 0.1372] [D_B loss: 0.2100] [G loss: 4.5663]

37% | [REDACTED] | 2601/7038 [16:23<27:45, 2.66it/s]

[Epoch 6/15] [Batch 2600/7038] [D_A loss: 0.1890] [D_B loss: 0.1967] [G loss: 4.3929]

40% | [REDACTED] | 2801/7038 [17:38<26:30, 2.66it/s]

[Epoch 6/15] [Batch 2800/7038] [D_A loss: 0.3441] [D_B loss: 0.1534] [G loss: 4.4900]

43% | [REDACTED] | 3001/7038 [18:54<25:18, 2.66it/s]

[Epoch 6/15] [Batch 3000/7038] [D_A loss: 0.2000] [D_B loss: 0.0578] [G loss: 4.2407]

45% | [REDACTED] | 3201/7038 [20:10<24:01, 2.66it/s]

[Epoch 6/15] [Batch 3200/7038] [D_A loss: 0.2901] [D_B loss: 0.0972] [G loss: 3.6349]

48% | [REDACTED] | 3401/7038 [21:25<22:50, 2.65it/s]

[Epoch 6/15] [Batch 3400/7038] [D_A loss: 0.2528] [D_B loss: 0.0632] [G loss: 4.3825]

51% | [REDACTED] | 3601/7038 [22:41<21:37, 2.65it/s]

[Epoch 6/15] [Batch 3600/7038] [D_A loss: 0.2291] [D_B loss: 0.0919] [G loss: 4.4979]

54% | [REDACTED] | 3801/7038 [23:56<20:14, 2.67it/s]

[Epoch 6/15] [Batch 3800/7038] [D_A loss: 0.2839] [D_B loss: 0.1697] [G loss: 5.8113]

57% | [REDACTED] | 4001/7038 [25:12<19:04, 2.65it/s]

[Epoch 6/15] [Batch 4000/7038] [D_A loss: 0.1688] [D_B loss: 0.1398] [G loss: 5.2998]

60% | ██████████ | 4201/7038 [26:27<17:51, 2.65it/s]

[Epoch 6/15] [Batch 4200/7038] [D_A loss: 0.1386] [D_B loss: 0.1610] [G loss: 3.9889]

63% | ██████████ | 4400/7038 [27:43<16:38, 2.64it/s]

[Epoch 6/15] [Batch 4400/7038] [D_A loss: 0.3817] [D_B loss: 0.1121] [G loss: 3.9814]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | ██████████ | 4601/7038 [28:59<15:21, 2.65it/s]

[Epoch 6/15] [Batch 4600/7038] [D_A loss: 0.0905] [D_B loss: 0.1034] [G loss: 4.4519]

68% | ██████████ | 4801/7038 [30:15<14:00, 2.66it/s]

[Epoch 6/15] [Batch 4800/7038] [D_A loss: 0.0947] [D_B loss: 0.2232] [G loss: 5.0388]

71% | ██████████ | 5001/7038 [31:31<12:46, 2.66it/s]

[Epoch 6/15] [Batch 5000/7038] [D_A loss: 0.1728] [D_B loss: 0.0290] [G loss: 4.0698]

74% | ██████████ | 5201/7038 [32:46<11:30, 2.66it/s]

[Epoch 6/15] [Batch 5200/7038] [D_A loss: 0.2538] [D_B loss: 0.2212] [G loss: 4.3094]

77% | ██████████ | 5401/7038 [34:02<10:16, 2.65it/s]

[Epoch 6/15] [Batch 5400/7038] [D_A loss: 0.1521] [D_B loss: 0.1314] [G loss: 4.4046]

80% | ██████████ | 5601/7038 [35:17<09:04, 2.64it/s]

[Epoch 6/15] [Batch 5600/7038] [D_A loss: 0.0880] [D_B loss: 0.1146] [G loss: 4.7920]

82% | ██████████ | 5801/7038 [36:33<07:46, 2.65it/s]

[Epoch 6/15] [Batch 5800/7038] [D_A loss: 0.2481] [D_B loss: 0.1369] [G loss: 3.4492]

85% | ██████████ | 6001/7038 [37:49<06:30, 2.65it/s]

[Epoch 6/15] [Batch 6000/7038] [D_A loss: 0.0907] [D_B loss: 0.0545] [G loss: 5.7031]

88% | ██████████ | 6201/7038 [39:04<05:15, 2.65it/s]

[Epoch 6/15] [Batch 6200/7038] [D_A loss: 0.0777] [D_B loss: 0.0317] [G loss: 5.1989]

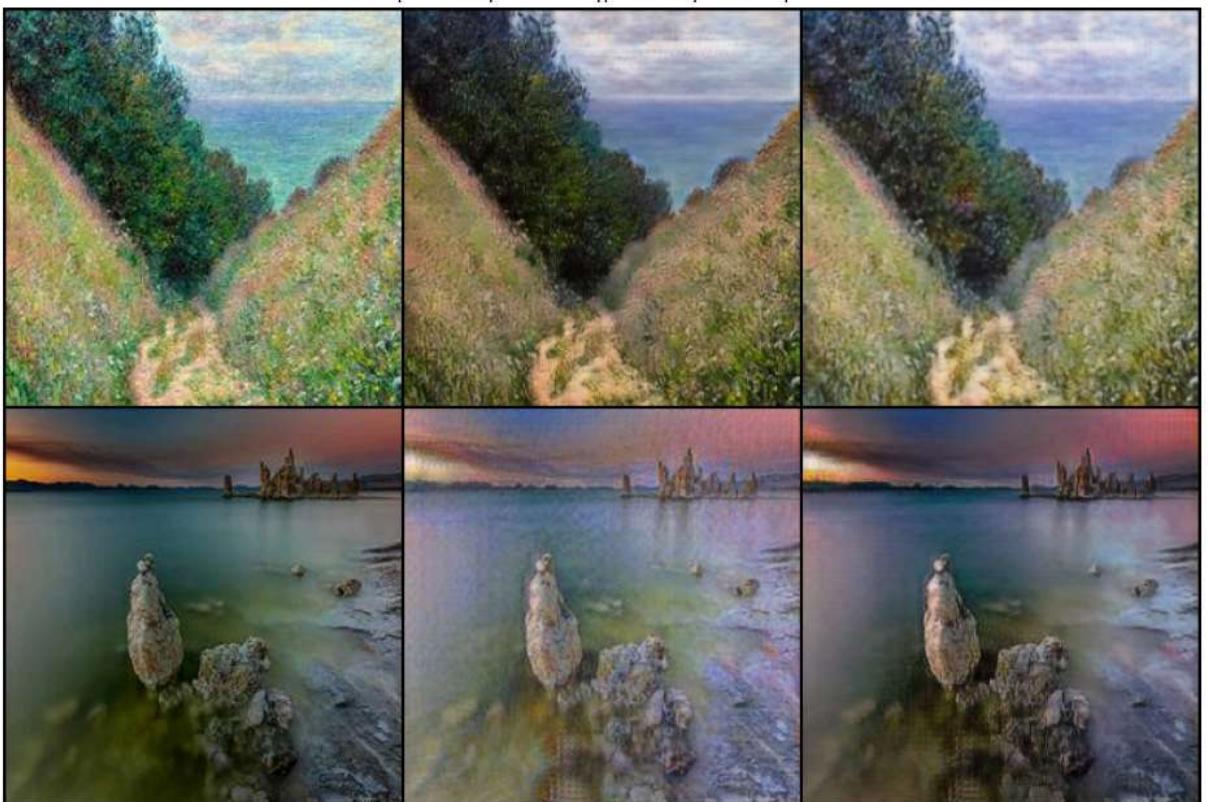
91% | ██████████ | 6401/7038 [40:20<04:00, 2.65it/s]

[Epoch 6/15] [Batch 6400/7038] [D_A loss: 0.1306] [D_B loss: 0.1498] [G loss: 4.5439]

94% | ██████████ | 6600/7038 [41:35<02:44, 2.66it/s]

[Epoch 6/15] [Batch 6600/7038] [D_A loss: 0.1554] [D_B loss: 0.2751] [G loss: 3.5332]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:52<01:29, 2.65it/s]

[Epoch 6/15] [Batch 6800/7038] [D_A loss: 0.1943] [D_B loss: 0.2304] [G loss: 4.3870]

99% | ██████████ | 7001/7038 [44:08<00:13, 2.66it/s]

[Epoch 6/15] [Batch 7000/7038] [D_A loss: 0.0925] [D_B loss: 0.2016] [G loss: 3.5448]

100% | ██████████ | 7038/7038 [44:22<00:00, 2.64it/s]

Epoch 6 finished in 2662.28 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 7/15] [Batch 0/7038] [D_A loss: 0.3158] [D_B loss: 0.0674] [G loss: 3.8325]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3%|██████| 201/7038 [01:16<42:46, 2.66it/s]
[Epoch 7/15] [Batch 200/7038] [D_A loss: 0.1996] [D_B loss: 0.1821] [G loss: 3.4520]
6%|███████| 401/7038 [02:32<41:42, 2.65it/s]
[Epoch 7/15] [Batch 400/7038] [D_A loss: 0.1922] [D_B loss: 0.3317] [G loss: 6.8791]
9%|███████| 601/7038 [03:47<40:29, 2.65it/s]
[Epoch 7/15] [Batch 600/7038] [D_A loss: 0.2056] [D_B loss: 0.1854] [G loss: 3.2204]
11%|███████| 801/7038 [05:03<39:18, 2.64it/s]
[Epoch 7/15] [Batch 800/7038] [D_A loss: 0.2830] [D_B loss: 0.0893] [G loss: 6.2666]
14%|███████| 1001/7038 [06:19<38:02, 2.64it/s]
[Epoch 7/15] [Batch 1000/7038] [D_A loss: 0.1558] [D_B loss: 0.3180] [G loss: 3.937
2]
17%|███████| 1201/7038 [07:35<36:50, 2.64it/s]
[Epoch 7/15] [Batch 1200/7038] [D_A loss: 0.2716] [D_B loss: 0.1966] [G loss: 3.719
0]
20%|███████| 1401/7038 [08:50<35:13, 2.67it/s]
[Epoch 7/15] [Batch 1400/7038] [D_A loss: 0.1194] [D_B loss: 0.0779] [G loss: 5.961
9]
23%|███████| 1601/7038 [10:06<34:02, 2.66it/s]
[Epoch 7/15] [Batch 1600/7038] [D_A loss: 0.1813] [D_B loss: 0.0748] [G loss: 4.446
4]
26%|███████| 1801/7038 [11:22<32:52, 2.65it/s]
[Epoch 7/15] [Batch 1800/7038] [D_A loss: 0.0610] [D_B loss: 0.2398] [G loss: 3.989
7]
28%|███████| 2001/7038 [12:37<31:37, 2.65it/s]
[Epoch 7/15] [Batch 2000/7038] [D_A loss: 0.1791] [D_B loss: 0.1008] [G loss: 4.975
6]
31%|███████| 2200/7038 [13:53<30:29, 2.64it/s]

[Epoch 7/15] [Batch 2200/7038] [D_A loss: 0.2601] [D_B loss: 0.3430] [G loss: 3.519
7]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:09<29:11, 2.65it/s]

[Epoch 7/15] [Batch 2400/7038] [D_A loss: 0.2595] [D_B loss: 0.2778] [G loss: 4.722
7]

37% | [REDACTED] | 2601/7038 [16:25<28:02, 2.64it/s]

[Epoch 7/15] [Batch 2600/7038] [D_A loss: 0.2889] [D_B loss: 0.0758] [G loss: 4.645
8]

40% | [REDACTED] | 2801/7038 [17:41<26:43, 2.64it/s]

[Epoch 7/15] [Batch 2800/7038] [D_A loss: 0.1055] [D_B loss: 0.0362] [G loss: 5.171
9]

43% | [REDACTED] | 3001/7038 [18:57<25:28, 2.64it/s]

[Epoch 7/15] [Batch 3000/7038] [D_A loss: 0.1664] [D_B loss: 0.1823] [G loss: 4.386
2]

45% | [REDACTED] | 3201/7038 [20:12<24:07, 2.65it/s]

[Epoch 7/15] [Batch 3200/7038] [D_A loss: 0.1142] [D_B loss: 0.1828] [G loss: 3.394
4]

48% | [REDACTED] | 3401/7038 [21:28<23:31, 2.58it/s]

[Epoch 7/15] [Batch 3400/7038] [D_A loss: 0.0804] [D_B loss: 0.1184] [G loss: 4.596
8]

51% | [REDACTED] | 3601/7038 [22:45<21:39, 2.65it/s]

[Epoch 7/15] [Batch 3600/7038] [D_A loss: 0.1163] [D_B loss: 0.3481] [G loss: 4.318
5]

54% | [REDACTED] | 3801/7038 [24:01<20:19, 2.65it/s]

[Epoch 7/15] [Batch 3800/7038] [D_A loss: 0.2563] [D_B loss: 0.3372] [G loss: 4.106
8]

57% | [REDACTED] | 4001/7038 [25:16<19:04, 2.65it/s]

[Epoch 7/15] [Batch 4000/7038] [D_A loss: 0.1750] [D_B loss: 0.2071] [G loss: 3.752
7]

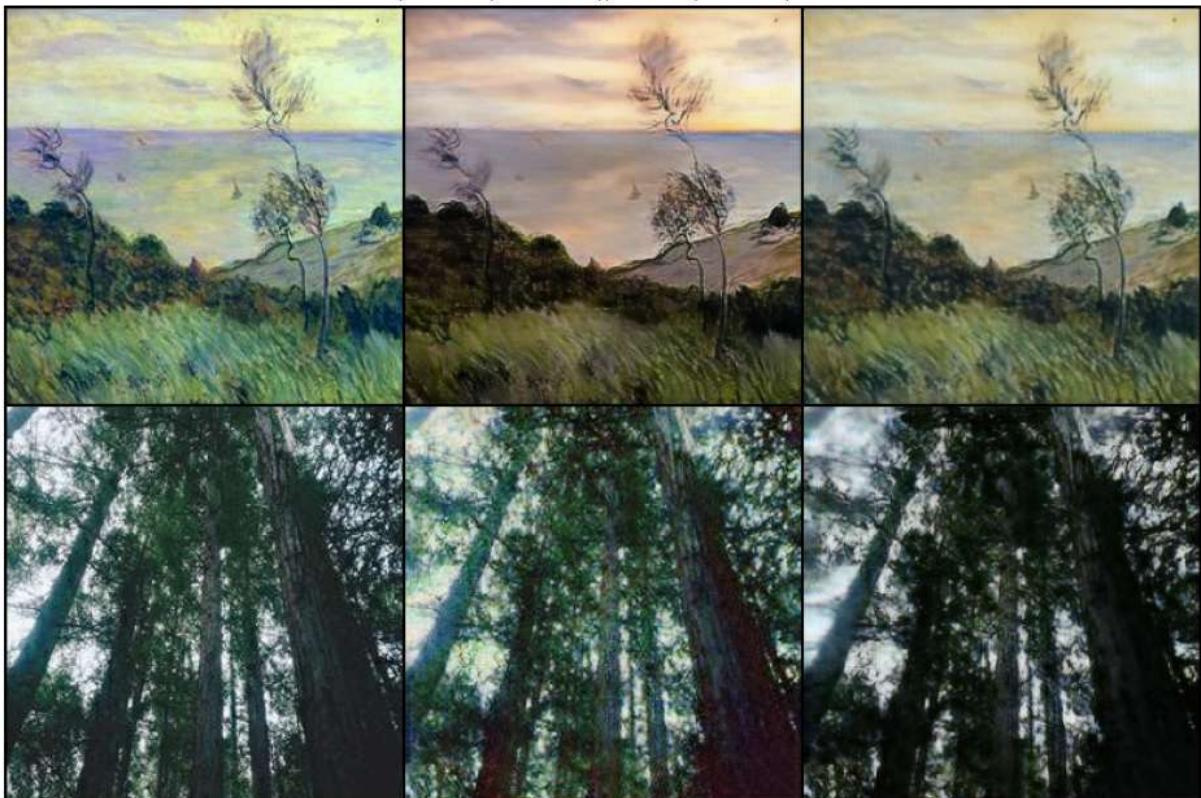
60% | [REDACTED] | 4201/7038 [26:32<17:49, 2.65it/s]

[Epoch 7/15] [Batch 4200/7038] [D_A loss: 0.0901] [D_B loss: 0.1191] [G loss: 5.605
0]

63% | [REDACTED] | 4400/7038 [27:47<16:36, 2.65it/s]

[Epoch 7/15] [Batch 4400/7038] [D_A loss: 0.1290] [D_B loss: 0.0940] [G loss: 4.020
5]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [29:03<15:21, 2.65it/s]

[Epoch 7/15] [Batch 4600/7038] [D_A loss: 0.2530] [D_B loss: 0.1150] [G loss: 3.977
5]

68% | [REDACTED] | 4801/7038 [30:18<14:01, 2.66it/s]

[Epoch 7/15] [Batch 4800/7038] [D_A loss: 0.3853] [D_B loss: 0.1428] [G loss: 4.708
0]

71% | [REDACTED] | 5001/7038 [31:34<12:45, 2.66it/s]

[Epoch 7/15] [Batch 5000/7038] [D_A loss: 0.1017] [D_B loss: 0.0684] [G loss: 4.183
3]

74% | [REDACTED] | 5201/7038 [32:49<11:31, 2.66it/s]

[Epoch 7/15] [Batch 5200/7038] [D_A loss: 0.2282] [D_B loss: 0.2417] [G loss: 3.732
6]

77% | [REDACTED] | 5401/7038 [34:05<10:14, 2.66it/s]

[Epoch 7/15] [Batch 5400/7038] [D_A loss: 0.0487] [D_B loss: 0.1592] [G loss: 5.373
0]

80% | [REDACTED] | 5601/7038 [35:20<09:01, 2.66it/s]

[Epoch 7/15] [Batch 5600/7038] [D_A loss: 0.1562] [D_B loss: 0.0697] [G loss: 3.703
5]

82% | [REDACTED] | 5801/7038 [36:36<07:49, 2.64it/s]

[Epoch 7/15] [Batch 5800/7038] [D_A loss: 0.2645] [D_B loss: 0.2888] [G loss: 3.7009]

85% | ██████████ | 6001/7038 [37:51<06:31, 2.65it/s]

[Epoch 7/15] [Batch 6000/7038] [D_A loss: 0.1413] [D_B loss: 0.1108] [G loss: 4.4447]

88% | ██████████ | 6201/7038 [39:06<05:15, 2.65it/s]

[Epoch 7/15] [Batch 6200/7038] [D_A loss: 0.1044] [D_B loss: 0.3455] [G loss: 3.6088]

91% | ██████████ | 6401/7038 [40:22<04:00, 2.65it/s]

[Epoch 7/15] [Batch 6400/7038] [D_A loss: 0.3245] [D_B loss: 0.1114] [G loss: 4.2357]

94% | ██████████ | 6600/7038 [41:37<02:45, 2.65it/s]

[Epoch 7/15] [Batch 6600/7038] [D_A loss: 0.1450] [D_B loss: 0.2524] [G loss: 4.1042]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:53<01:29, 2.64it/s]

[Epoch 7/15] [Batch 6800/7038] [D_A loss: 0.1219] [D_B loss: 0.0585] [G loss: 5.5044]

99% | ██████████ | 7001/7038 [44:09<00:13, 2.65it/s]

[Epoch 7/15] [Batch 7000/7038] [D_A loss: 0.0669] [D_B loss: 0.1456] [G loss: 5.7119]

100% | ██████████ | 7038/7038 [44:23<00:00, 2.64it/s]

Epoch 7 finished in 2663.32 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 8/15] [Batch 0/7038] [D_A loss: 0.1767] [D_B loss: 0.2488] [G loss: 5.2931]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



```
3%|██████████| 201/7038 [01:16<43:09,  2.64it/s]
[Epoch 8/15] [Batch 200/7038] [D_A loss: 0.1070] [D_B loss: 0.0578] [G loss: 4.3009]
6%|██████████| 401/7038 [02:31<41:40,  2.65it/s]
[Epoch 8/15] [Batch 400/7038] [D_A loss: 0.1593] [D_B loss: 0.1347] [G loss: 3.8859]
9%|██████████| 601/7038 [03:47<40:43,  2.63it/s]
[Epoch 8/15] [Batch 600/7038] [D_A loss: 0.1080] [D_B loss: 0.0994] [G loss: 4.9005]
11%|██████████| 801/7038 [05:03<39:02,  2.66it/s]
[Epoch 8/15] [Batch 800/7038] [D_A loss: 0.3525] [D_B loss: 0.4036] [G loss: 6.3126]
14%|██████████| 1001/7038 [06:18<38:02,  2.64it/s]
[Epoch 8/15] [Batch 1000/7038] [D_A loss: 0.1130] [D_B loss: 0.0850] [G loss: 3.933
2]
17%|██████████| 1201/7038 [07:34<36:42,  2.65it/s]
[Epoch 8/15] [Batch 1200/7038] [D_A loss: 0.2010] [D_B loss: 0.1863] [G loss: 3.374
4]
20%|██████████| 1401/7038 [08:49<35:26,  2.65it/s]
[Epoch 8/15] [Batch 1400/7038] [D_A loss: 0.2889] [D_B loss: 0.0996] [G loss: 4.820
9]
23%|██████████| 1601/7038 [10:05<34:14,  2.65it/s]
[Epoch 8/15] [Batch 1600/7038] [D_A loss: 0.2158] [D_B loss: 0.1223] [G loss: 5.557
0]
26%|██████████| 1801/7038 [11:20<33:06,  2.64it/s]
[Epoch 8/15] [Batch 1800/7038] [D_A loss: 0.1877] [D_B loss: 0.1129] [G loss: 4.490
9]
28%|██████████| 2001/7038 [12:36<31:45,  2.64it/s]
[Epoch 8/15] [Batch 2000/7038] [D_A loss: 0.2054] [D_B loss: 0.1811] [G loss: 4.170
4]
31%|██████████| 2200/7038 [13:51<30:27,  2.65it/s]
```

[Epoch 8/15] [Batch 2200/7038] [D_A loss: 0.0622] [D_B loss: 0.0564] [G loss: 4.625
6]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:07<29:14, 2.64it/s]

[Epoch 8/15] [Batch 2400/7038] [D_A loss: 0.1197] [D_B loss: 0.0574] [G loss: 4.007
3]

37% | [REDACTED] | 2601/7038 [16:23<27:53, 2.65it/s]

[Epoch 8/15] [Batch 2600/7038] [D_A loss: 0.1748] [D_B loss: 0.0429] [G loss: 4.338
7]

40% | [REDACTED] | 2801/7038 [17:38<26:36, 2.65it/s]

[Epoch 8/15] [Batch 2800/7038] [D_A loss: 0.2537] [D_B loss: 0.2288] [G loss: 3.564
3]

43% | [REDACTED] | 3001/7038 [18:54<25:22, 2.65it/s]

[Epoch 8/15] [Batch 3000/7038] [D_A loss: 0.1885] [D_B loss: 0.1070] [G loss: 7.177
0]

45% | [REDACTED] | 3201/7038 [20:09<24:08, 2.65it/s]

[Epoch 8/15] [Batch 3200/7038] [D_A loss: 0.1010] [D_B loss: 0.2817] [G loss: 4.169
2]

48% | [REDACTED] | 3401/7038 [21:25<22:58, 2.64it/s]

[Epoch 8/15] [Batch 3400/7038] [D_A loss: 0.1712] [D_B loss: 0.1964] [G loss: 3.109
8]

51% | [REDACTED] | 3601/7038 [22:40<21:38, 2.65it/s]

[Epoch 8/15] [Batch 3600/7038] [D_A loss: 0.0918] [D_B loss: 0.1627] [G loss: 5.030
9]

54% | [REDACTED] | 3801/7038 [23:56<20:19, 2.65it/s]

[Epoch 8/15] [Batch 3800/7038] [D_A loss: 0.1155] [D_B loss: 0.1097] [G loss: 3.594
4]

57% | [REDACTED] | 4001/7038 [25:11<19:03, 2.66it/s]

[Epoch 8/15] [Batch 4000/7038] [D_A loss: 0.1979] [D_B loss: 0.2231] [G loss: 3.5239]

60% | [REDACTED] | 4201/7038 [26:27<17:45, 2.66it/s]

[Epoch 8/15] [Batch 4200/7038] [D_A loss: 0.2706] [D_B loss: 0.1742] [G loss: 5.9786]

63% | [REDACTED] | 4400/7038 [27:42<16:32, 2.66it/s]

[Epoch 8/15] [Batch 4400/7038] [D_A loss: 0.1661] [D_B loss: 0.1128] [G loss: 4.2324]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [28:58<15:18, 2.65it/s]

[Epoch 8/15] [Batch 4600/7038] [D_A loss: 0.2757] [D_B loss: 0.3365] [G loss: 3.8663]

68% | [REDACTED] | 4801/7038 [30:14<14:04, 2.65it/s]

[Epoch 8/15] [Batch 4800/7038] [D_A loss: 0.3133] [D_B loss: 0.1463] [G loss: 4.7132]

71% | [REDACTED] | 5001/7038 [31:29<13:05, 2.59it/s]

[Epoch 8/15] [Batch 5000/7038] [D_A loss: 0.1278] [D_B loss: 0.2240] [G loss: 3.6837]

74% | [REDACTED] | 5201/7038 [32:46<11:55, 2.57it/s]

[Epoch 8/15] [Batch 5200/7038] [D_A loss: 0.1829] [D_B loss: 0.3249] [G loss: 3.3363]

77% | [REDACTED] | 5401/7038 [34:03<10:36, 2.57it/s]

[Epoch 8/15] [Batch 5400/7038] [D_A loss: 0.2281] [D_B loss: 0.0825] [G loss: 4.0782]

80% | [REDACTED] | 5601/7038 [35:20<09:17, 2.58it/s]

[Epoch 8/15] [Batch 5600/7038] [D_A loss: 0.1300] [D_B loss: 0.2042] [G loss: 3.6283]

82% | [REDACTED] | 5801/7038 [36:37<08:01, 2.57it/s]

[Epoch 8/15] [Batch 5800/7038] [D_A loss: 0.1820] [D_B loss: 0.2419] [G loss: 5.1835]

85% | ██████████ | 6001/7038 [37:53<06:34, 2.63it/s]

[Epoch 8/15] [Batch 6000/7038] [D_A loss: 0.1073] [D_B loss: 0.0373] [G loss: 4.6290]

88% | ██████████ | 6201/7038 [39:09<05:21, 2.60it/s]

[Epoch 8/15] [Batch 6200/7038] [D_A loss: 0.2001] [D_B loss: 0.4362] [G loss: 4.0564]

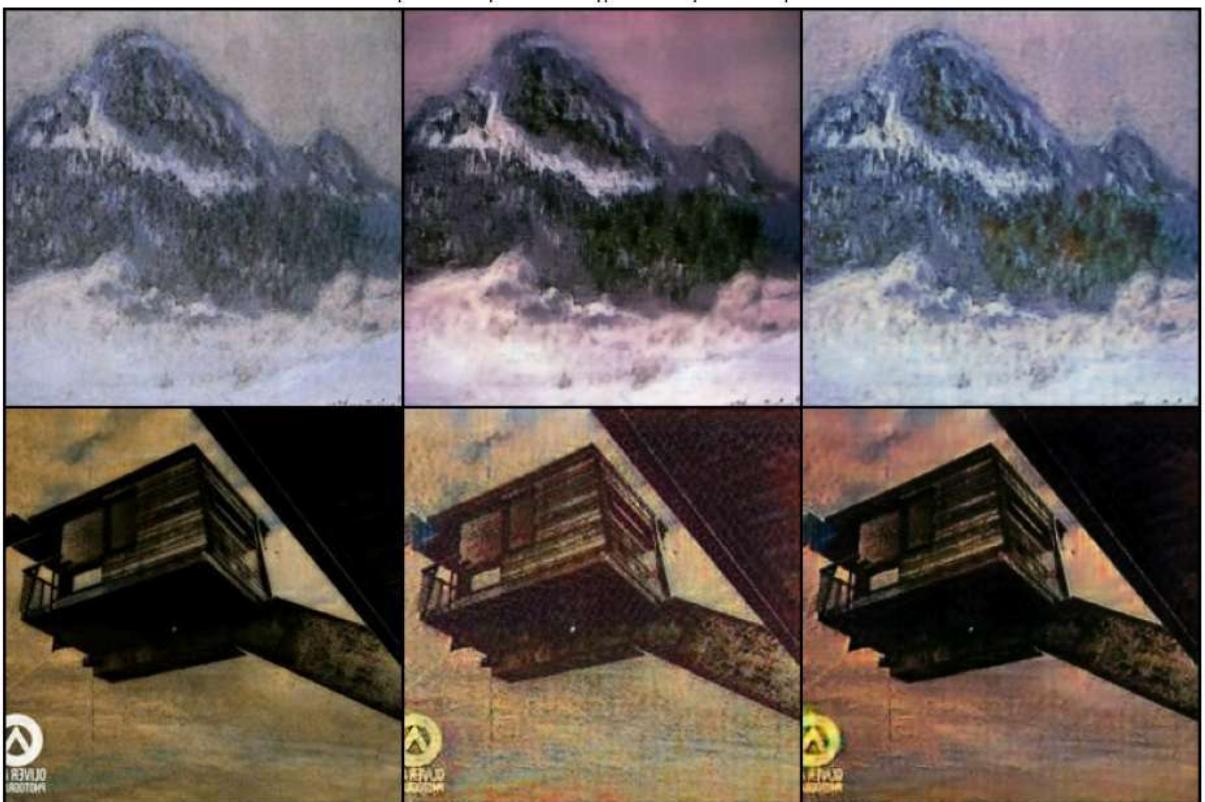
91% | ██████████ | 6401/7038 [40:26<04:02, 2.63it/s]

[Epoch 8/15] [Batch 6400/7038] [D_A loss: 0.2847] [D_B loss: 0.2283] [G loss: 4.6705]

94% | ██████████ | 6600/7038 [41:41<02:46, 2.63it/s]

[Epoch 8/15] [Batch 6600/7038] [D_A loss: 0.0589] [D_B loss: 0.2581] [G loss: 4.7130]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [42:59<01:30, 2.62it/s]

[Epoch 8/15] [Batch 6800/7038] [D_A loss: 0.0995] [D_B loss: 0.0815] [G loss: 6.5286]

99% | ██████████ | 7001/7038 [44:15<00:14, 2.63it/s]

[Epoch 8/15] [Batch 7000/7038] [D_A loss: 0.1804] [D_B loss: 0.1199] [G loss: 4.6397]

100% | ██████████ | 7038/7038 [44:29<00:00, 2.64it/s]

Epoch 8 finished in 2669.91 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 9/15] [Batch 0/7038] [D_A loss: 0.2727] [D_B loss: 0.2377] [G loss: 5.6781]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3%| [201/7038 [01:16<43:13, 2.64it/s]
[Epoch 9/15] [Batch 200/7038] [D_A loss: 0.1416] [D_B loss: 0.1656] [G loss: 3.7095]

6%| [401/7038 [02:32<41:56, 2.64it/s]
[Epoch 9/15] [Batch 400/7038] [D_A loss: 0.0940] [D_B loss: 0.2064] [G loss: 4.5738]

9%| [601/7038 [03:48<40:42, 2.63it/s]
[Epoch 9/15] [Batch 600/7038] [D_A loss: 0.1475] [D_B loss: 0.0705] [G loss: 4.6243]

11%| [801/7038 [05:04<39:15, 2.65it/s]
[Epoch 9/15] [Batch 800/7038] [D_A loss: 0.2084] [D_B loss: 0.3058] [G loss: 4.9371]

14%| [1001/7038 [06:20<38:00, 2.65it/s]
[Epoch 9/15] [Batch 1000/7038] [D_A loss: 0.1531] [D_B loss: 0.1935] [G loss: 4.3198]

17%| [1201/7038 [07:36<36:47, 2.64it/s]
[Epoch 9/15] [Batch 1200/7038] [D_A loss: 0.2886] [D_B loss: 0.0874] [G loss: 3.9339]

20%| [1401/7038 [08:51<35:36, 2.64it/s]
[Epoch 9/15] [Batch 1400/7038] [D_A loss: 0.0955] [D_B loss: 0.0922] [G loss: 4.3088]

23%| [1601/7038 [10:07<34:17, 2.64it/s]
[Epoch 9/15] [Batch 1600/7038] [D_A loss: 0.1840] [D_B loss: 0.3182] [G loss: 4.1748]

26%| [1801/7038 [11:23<33:03, 2.64it/s]
[Epoch 9/15] [Batch 1800/7038] [D_A loss: 0.2028] [D_B loss: 0.2555] [G loss: 3.8920]

28%| [2001/7038 [12:39<31:50, 2.64it/s]
[Epoch 9/15] [Batch 2000/7038] [D_A loss: 0.2654] [D_B loss: 0.5124] [G loss: 3.6948]

31%| [2200/7038 [13:54<30:32, 2.64it/s]

[Epoch 9/15] [Batch 2200/7038] [D_A loss: 0.1127] [D_B loss: 0.1330] [G loss: 4.4878]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:11<29:17, 2.64it/s]

[Epoch 9/15] [Batch 2400/7038] [D_A loss: 0.0704] [D_B loss: 0.0811] [G loss: 5.7060]

37% | [REDACTED] | 2601/7038 [16:27<28:02, 2.64it/s]

[Epoch 9/15] [Batch 2600/7038] [D_A loss: 0.1777] [D_B loss: 0.2656] [G loss: 3.7505]

40% | [REDACTED] | 2801/7038 [17:43<27:02, 2.61it/s]

[Epoch 9/15] [Batch 2800/7038] [D_A loss: 0.1615] [D_B loss: 0.2704] [G loss: 4.6691]

43% | [REDACTED] | 3001/7038 [18:59<25:29, 2.64it/s]

[Epoch 9/15] [Batch 3000/7038] [D_A loss: 0.0786] [D_B loss: 0.1217] [G loss: 5.2073]

45% | [REDACTED] | 3201/7038 [20:15<24:14, 2.64it/s]

[Epoch 9/15] [Batch 3200/7038] [D_A loss: 0.2042] [D_B loss: 0.0970] [G loss: 4.1485]

48% | [REDACTED] | 3401/7038 [21:31<22:58, 2.64it/s]

[Epoch 9/15] [Batch 3400/7038] [D_A loss: 0.2547] [D_B loss: 0.1241] [G loss: 6.6136]

51% | [REDACTED] | 3601/7038 [22:46<21:50, 2.62it/s]

[Epoch 9/15] [Batch 3600/7038] [D_A loss: 0.0344] [D_B loss: 0.0551] [G loss: 4.4855]

54% | [REDACTED] | 3801/7038 [24:02<20:31, 2.63it/s]

[Epoch 9/15] [Batch 3800/7038] [D_A loss: 0.2589] [D_B loss: 0.0714] [G loss: 5.2121]

57% | [REDACTED] | 4001/7038 [25:18<19:11, 2.64it/s]

[Epoch 9/15] [Batch 4000/7038] [D_A loss: 0.2827] [D_B loss: 0.3100] [G loss: 5.373
7]

60% | [REDACTED] | 4201/7038 [26:34<17:57, 2.63it/s]

[Epoch 9/15] [Batch 4200/7038] [D_A loss: 0.0855] [D_B loss: 0.1075] [G loss: 3.895
2]

63% | [REDACTED] | 4400/7038 [27:49<16:42, 2.63it/s]

[Epoch 9/15] [Batch 4400/7038] [D_A loss: 0.0841] [D_B loss: 0.0787] [G loss: 4.575
7]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [29:06<15:24, 2.64it/s]

[Epoch 9/15] [Batch 4600/7038] [D_A loss: 0.1964] [D_B loss: 0.0364] [G loss: 3.821
1]

68% | [REDACTED] | 4801/7038 [30:22<14:06, 2.64it/s]

[Epoch 9/15] [Batch 4800/7038] [D_A loss: 0.2763] [D_B loss: 0.4667] [G loss: 4.086
5]

71% | [REDACTED] | 5001/7038 [31:38<12:58, 2.62it/s]

[Epoch 9/15] [Batch 5000/7038] [D_A loss: 0.0562] [D_B loss: 0.1666] [G loss: 4.400
1]

74% | [REDACTED] | 5201/7038 [32:54<11:36, 2.64it/s]

[Epoch 9/15] [Batch 5200/7038] [D_A loss: 0.1716] [D_B loss: 0.0749] [G loss: 3.966
2]

77% | [REDACTED] | 5401/7038 [34:10<10:22, 2.63it/s]

[Epoch 9/15] [Batch 5400/7038] [D_A loss: 0.3215] [D_B loss: 0.0599] [G loss: 3.752
8]

80% | [REDACTED] | 5601/7038 [35:26<09:08, 2.62it/s]

[Epoch 9/15] [Batch 5600/7038] [D_A loss: 0.1760] [D_B loss: 0.2754] [G loss: 4.126
9]

82% | [REDACTED] | 5801/7038 [36:42<07:50, 2.63it/s]

[Epoch 9/15] [Batch 5800/7038] [D_A loss: 0.0409] [D_B loss: 0.0821] [G loss: 5.543
3]

85% | ██████████ | 6001/7038 [37:58<06:34, 2.63it/s]

[Epoch 9/15] [Batch 6000/7038] [D_A loss: 0.1229] [D_B loss: 0.1490] [G loss: 4.205
4]

88% | ██████████ | 6201/7038 [39:14<05:17, 2.64it/s]

[Epoch 9/15] [Batch 6200/7038] [D_A loss: 0.2083] [D_B loss: 0.2045] [G loss: 4.694
3]

91% | ██████████ | 6401/7038 [40:30<04:02, 2.62it/s]

[Epoch 9/15] [Batch 6400/7038] [D_A loss: 0.1185] [D_B loss: 0.0923] [G loss: 5.127
0]

94% | ██████████ | 6600/7038 [41:45<02:47, 2.62it/s]

[Epoch 9/15] [Batch 6600/7038] [D_A loss: 0.0834] [D_B loss: 0.0885] [G loss: 4.750
2]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:02<01:29, 2.63it/s]

[Epoch 9/15] [Batch 6800/7038] [D_A loss: 0.2005] [D_B loss: 0.2044] [G loss: 4.102
2]

99% | ██████████ | 7001/7038 [44:18<00:14, 2.63it/s]

[Epoch 9/15] [Batch 7000/7038] [D_A loss: 0.0914] [D_B loss: 0.0975] [G loss: 3.781
7]

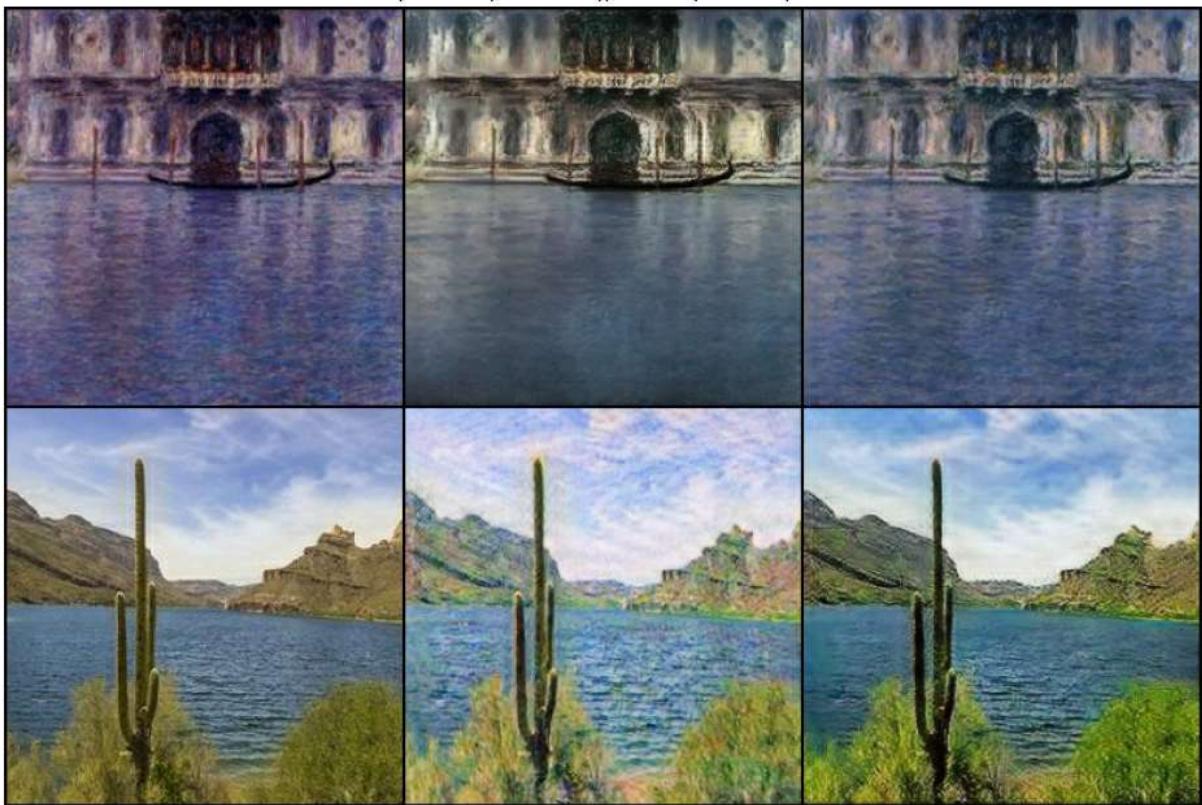
100% | ██████████ | 7038/7038 [44:32<00:00, 2.63it/s]

Epoch 9 finished in 2673.00 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 10/15] [Batch 0/7038] [D_A loss: 0.1746] [D_B loss: 0.1656] [G loss: 4.7226]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3%|██████ | 201/7038 [01:16<43:14, 2.64it/s]
[Epoch 10/15] [Batch 200/7038] [D_A loss: 0.0955] [D_B loss: 0.2822] [G loss: 4.908
8]

6%|██████ | 401/7038 [02:32<41:55, 2.64it/s]
[Epoch 10/15] [Batch 400/7038] [D_A loss: 0.2602] [D_B loss: 0.1624] [G loss: 6.008
2]

9%|██████ | 601/7038 [03:48<40:43, 2.63it/s]
[Epoch 10/15] [Batch 600/7038] [D_A loss: 0.3062] [D_B loss: 0.2115] [G loss: 4.032
3]

11%|██████ | 801/7038 [05:04<39:23, 2.64it/s]
[Epoch 10/15] [Batch 800/7038] [D_A loss: 0.0538] [D_B loss: 0.2151] [G loss: 3.954
9]

14%|██████ | 1001/7038 [06:20<38:11, 2.63it/s]
[Epoch 10/15] [Batch 1000/7038] [D_A loss: 0.1736] [D_B loss: 0.1374] [G loss: 4.431
6]

17%|██████ | 1201/7038 [07:36<36:57, 2.63it/s]
[Epoch 10/15] [Batch 1200/7038] [D_A loss: 0.2014] [D_B loss: 0.1915] [G loss: 4.332
8]

20%|██████ | 1401/7038 [08:52<36:00, 2.61it/s]
[Epoch 10/15] [Batch 1400/7038] [D_A loss: 0.3204] [D_B loss: 0.1879] [G loss: 4.446
7]

23%|██████ | 1601/7038 [10:08<34:30, 2.63it/s]
[Epoch 10/15] [Batch 1600/7038] [D_A loss: 0.1395] [D_B loss: 0.1133] [G loss: 3.669
6]

26%|██████ | 1801/7038 [11:24<33:11, 2.63it/s]
[Epoch 10/15] [Batch 1800/7038] [D_A loss: 0.0727] [D_B loss: 0.0600] [G loss: 4.258
7]

28%|██████ | 2001/7038 [12:40<31:47, 2.64it/s]

[Epoch 10/15] [Batch 2000/7038] [D_A loss: 0.1229] [D_B loss: 0.0887] [G loss: 3.8441]

31% | [redacted] | 2200/7038 [13:56<30:47, 2.62it/s]

[Epoch 10/15] [Batch 2200/7038] [D_A loss: 0.1992] [D_B loss: 0.2444] [G loss: 3.5151]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [redacted] | 2401/7038 [15:13<29:31, 2.62it/s]

[Epoch 10/15] [Batch 2400/7038] [D_A loss: 0.2081] [D_B loss: 0.0927] [G loss: 4.3423]

37% | [redacted] | 2601/7038 [16:29<28:09, 2.63it/s]

[Epoch 10/15] [Batch 2600/7038] [D_A loss: 0.3782] [D_B loss: 0.1719] [G loss: 3.1430]

40% | [redacted] | 2801/7038 [17:45<26:49, 2.63it/s]

[Epoch 10/15] [Batch 2800/7038] [D_A loss: 0.1044] [D_B loss: 0.0771] [G loss: 3.6776]

43% | [redacted] | 3001/7038 [19:01<25:37, 2.63it/s]

[Epoch 10/15] [Batch 3000/7038] [D_A loss: 0.1573] [D_B loss: 0.0689] [G loss: 4.1942]

45% | [redacted] | 3201/7038 [20:17<24:15, 2.64it/s]

[Epoch 10/15] [Batch 3200/7038] [D_A loss: 0.3579] [D_B loss: 0.1290] [G loss: 4.0514]

48% | [redacted] | 3401/7038 [21:33<23:00, 2.63it/s]

[Epoch 10/15] [Batch 3400/7038] [D_A loss: 0.1420] [D_B loss: 0.2985] [G loss: 3.8109]

51% | [redacted] | 3601/7038 [22:49<22:00, 2.60it/s]

[Epoch 10/15] [Batch 3600/7038] [D_A loss: 0.1117] [D_B loss: 0.1784] [G loss: 4.2150]

54% | [redacted] | 3801/7038 [24:05<20:28, 2.64it/s]

[Epoch 10/15] [Batch 3800/7038] [D_A loss: 0.1677] [D_B loss: 0.1493] [G loss: 4.7983]

57% | [REDACTED] | 4001/7038 [25:21<19:15, 2.63it/s]

[Epoch 10/15] [Batch 4000/7038] [D_A loss: 0.2819] [D_B loss: 0.0919] [G loss: 3.9075]

60% | [REDACTED] | 4201/7038 [26:37<17:57, 2.63it/s]

[Epoch 10/15] [Batch 4200/7038] [D_A loss: 0.5548] [D_B loss: 0.2448] [G loss: 4.4675]

63% | [REDACTED] | 4400/7038 [27:53<16:40, 2.64it/s]

[Epoch 10/15] [Batch 4400/7038] [D_A loss: 0.1002] [D_B loss: 0.1956] [G loss: 3.5378]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [29:10<15:26, 2.63it/s]

[Epoch 10/15] [Batch 4600/7038] [D_A loss: 0.1138] [D_B loss: 0.3150] [G loss: 4.5501]

68% | [REDACTED] | 4801/7038 [30:26<14:13, 2.62it/s]

[Epoch 10/15] [Batch 4800/7038] [D_A loss: 0.1122] [D_B loss: 0.2063] [G loss: 4.4211]

71% | [REDACTED] | 5001/7038 [31:42<12:59, 2.61it/s]

[Epoch 10/15] [Batch 5000/7038] [D_A loss: 0.1207] [D_B loss: 0.1163] [G loss: 3.3031]

74% | [REDACTED] | 5201/7038 [32:58<11:35, 2.64it/s]

[Epoch 10/15] [Batch 5200/7038] [D_A loss: 0.1408] [D_B loss: 0.1162] [G loss: 3.7355]

77% | [REDACTED] | 5401/7038 [34:14<10:22, 2.63it/s]

[Epoch 10/15] [Batch 5400/7038] [D_A loss: 0.1947] [D_B loss: 0.0516] [G loss: 4.2595]

80% | [REDACTED] | 5601/7038 [35:30<09:04, 2.64it/s]

[Epoch 10/15] [Batch 5600/7038] [D_A loss: 0.2199] [D_B loss: 0.0472] [G loss: 4.3735]

82% | ██████████ | 5801/7038 [36:46<07:48, 2.64it/s]

[Epoch 10/15] [Batch 5800/7038] [D_A loss: 0.0682] [D_B loss: 0.0481] [G loss: 4.5076]

85% | ██████████ | 6001/7038 [38:02<06:34, 2.63it/s]

[Epoch 10/15] [Batch 6000/7038] [D_A loss: 0.1773] [D_B loss: 0.1147] [G loss: 6.7980]

88% | ██████████ | 6201/7038 [39:19<05:18, 2.63it/s]

[Epoch 10/15] [Batch 6200/7038] [D_A loss: 0.0846] [D_B loss: 0.0997] [G loss: 3.6378]

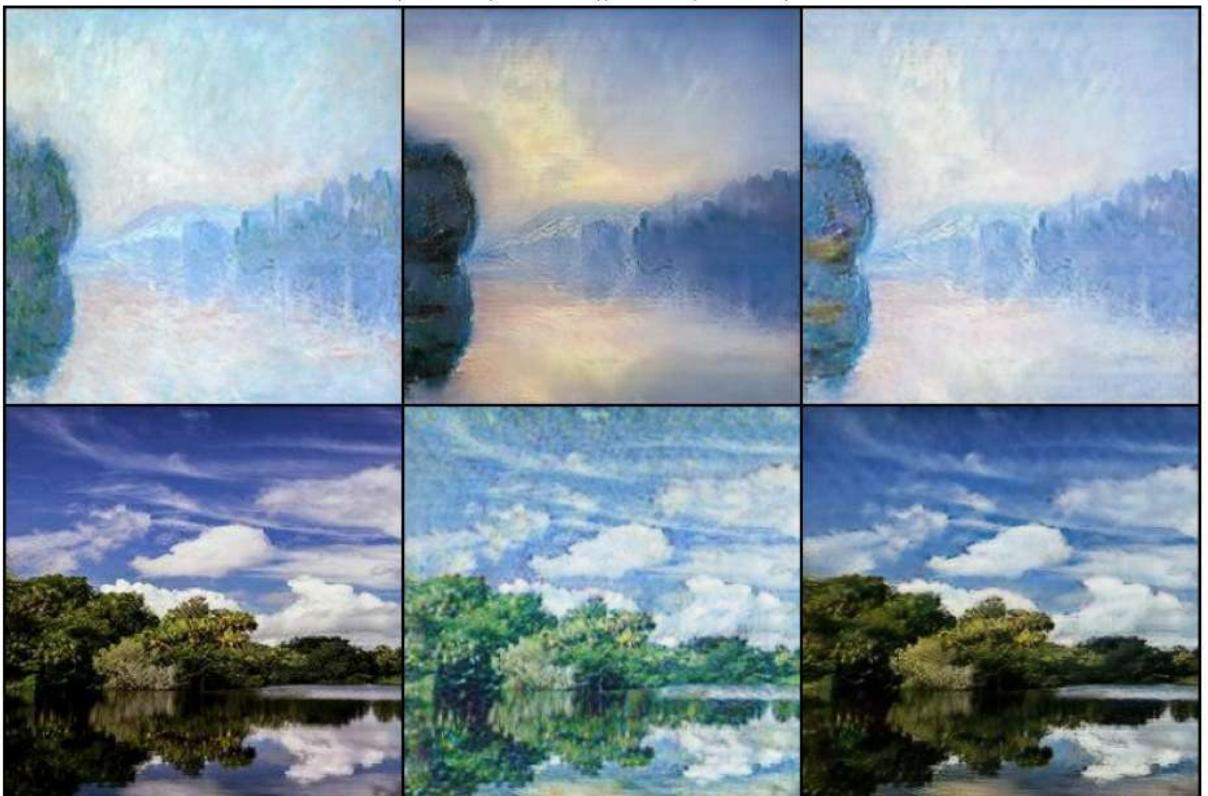
91% | ██████████ | 6401/7038 [40:35<04:02, 2.63it/s]

[Epoch 10/15] [Batch 6400/7038] [D_A loss: 0.0429] [D_B loss: 0.1322] [G loss: 4.4207]

94% | ██████████ | 6600/7038 [41:51<02:51, 2.56it/s]

[Epoch 10/15] [Batch 6600/7038] [D_A loss: 0.0693] [D_B loss: 0.1752] [G loss: 3.3621]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:08<01:30, 2.63it/s]

[Epoch 10/15] [Batch 6800/7038] [D_A loss: 0.3204] [D_B loss: 0.2308] [G loss: 4.4278]

99% | ██████████ | 7001/7038 [44:24<00:14, 2.63it/s]

[Epoch 10/15] [Batch 7000/7038] [D_A loss: 0.1477] [D_B loss: 0.0853] [G loss: 4.4749]

100% | ██████████ | 7038/7038 [44:38<00:00, 2.63it/s]

Epoch 10 finished in 2678.57 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 11/15] [Batch 0/7038] [D_A loss: 0.1576] [D_B loss: 0.2350] [G loss: 3.6632]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3%|██████████ | 201/7038 [01:17<43:22, 2.63it/s]
[Epoch 11/15] [Batch 200/7038] [D_A loss: 0.2548] [D_B loss: 0.3560] [G loss: 2.677
8]

6%|██████████ | 401/7038 [02:33<42:05, 2.63it/s]
[Epoch 11/15] [Batch 400/7038] [D_A loss: 0.0651] [D_B loss: 0.1082] [G loss: 4.162
4]

9%|██████████ | 601/7038 [03:49<40:45, 2.63it/s]
[Epoch 11/15] [Batch 600/7038] [D_A loss: 0.1518] [D_B loss: 0.1833] [G loss: 4.389
6]

11%|██████████ | 801/7038 [05:05<39:38, 2.62it/s]
[Epoch 11/15] [Batch 800/7038] [D_A loss: 0.0689] [D_B loss: 0.2531] [G loss: 3.858
1]

14%|██████████ | 1001/7038 [06:21<38:25, 2.62it/s]
[Epoch 11/15] [Batch 1000/7038] [D_A loss: 0.2631] [D_B loss: 0.4086] [G loss: 3.674
2]

17%|██████████ | 1201/7038 [07:38<37:04, 2.62it/s]
[Epoch 11/15] [Batch 1200/7038] [D_A loss: 0.2279] [D_B loss: 0.2275] [G loss: 3.630
8]

20%|██████████ | 1401/7038 [08:54<35:43, 2.63it/s]
[Epoch 11/15] [Batch 1400/7038] [D_A loss: 0.1204] [D_B loss: 0.1411] [G loss: 3.832
4]

23%|██████████ | 1601/7038 [10:10<34:35, 2.62it/s]
[Epoch 11/15] [Batch 1600/7038] [D_A loss: 0.1981] [D_B loss: 0.0952] [G loss: 3.677
0]

26%|██████████ | 1801/7038 [11:26<33:12, 2.63it/s]
[Epoch 11/15] [Batch 1800/7038] [D_A loss: 0.2256] [D_B loss: 0.1701] [G loss: 4.949
3]

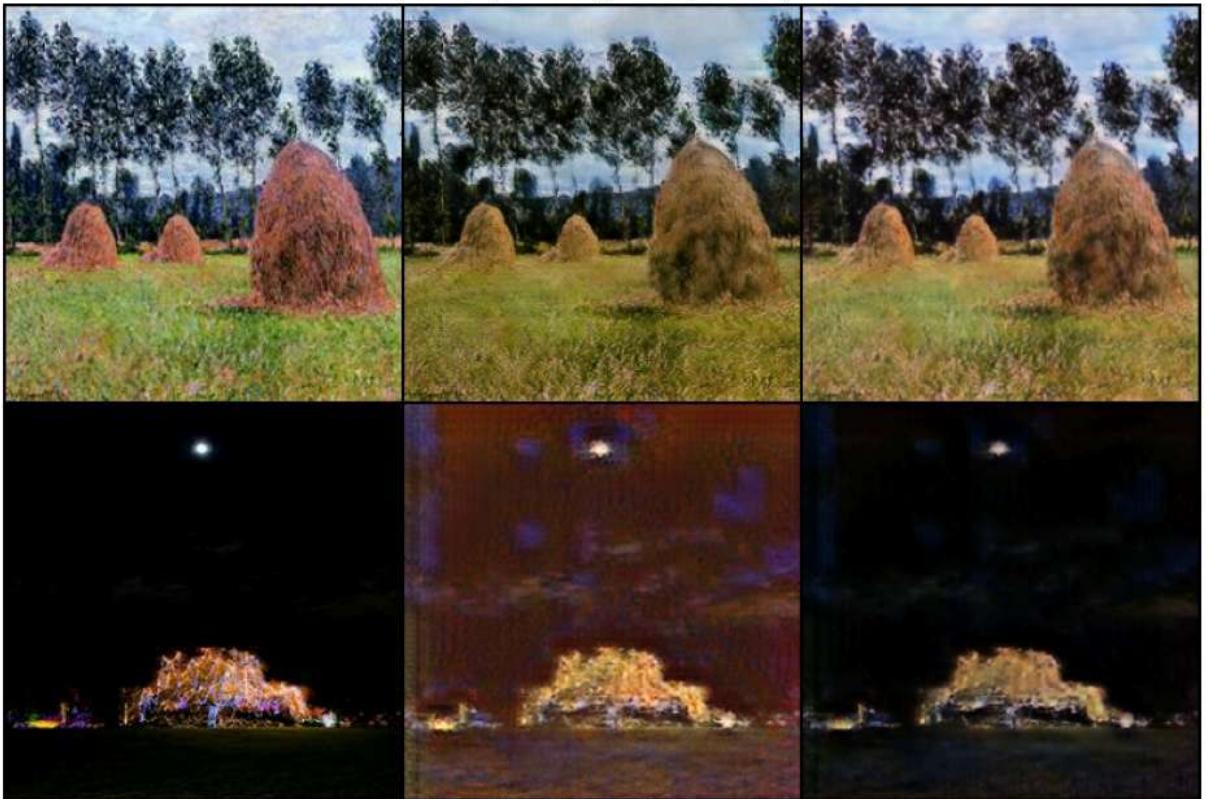
28%|██████████ | 2001/7038 [12:43<31:58, 2.63it/s]

[Epoch 11/15] [Batch 2000/7038] [D_A loss: 0.2055] [D_B loss: 0.1195] [G loss: 3.9145]

31% | [██████] | 2200/7038 [13:58<30:42, 2.63it/s]

[Epoch 11/15] [Batch 2200/7038] [D_A loss: 0.0688] [D_B loss: 0.0693] [G loss: 4.5178]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [██████] | 2401/7038 [15:16<29:30, 2.62it/s]

[Epoch 11/15] [Batch 2400/7038] [D_A loss: 0.1072] [D_B loss: 0.2178] [G loss: 3.5359]

37% | [██████] | 2601/7038 [16:32<28:13, 2.62it/s]

[Epoch 11/15] [Batch 2600/7038] [D_A loss: 0.0778] [D_B loss: 0.0838] [G loss: 4.1680]

40% | [██████] | 2801/7038 [17:49<26:45, 2.64it/s]

[Epoch 11/15] [Batch 2800/7038] [D_A loss: 0.2093] [D_B loss: 0.0904] [G loss: 5.8131]

43% | [██████] | 3001/7038 [19:05<25:40, 2.62it/s]

[Epoch 11/15] [Batch 3000/7038] [D_A loss: 0.1163] [D_B loss: 0.3357] [G loss: 4.5958]

45% | [██████] | 3201/7038 [20:21<24:17, 2.63it/s]

[Epoch 11/15] [Batch 3200/7038] [D_A loss: 0.0986] [D_B loss: 0.1207] [G loss: 3.4785]

48% | [██████] | 3401/7038 [21:38<23:11, 2.61it/s]

[Epoch 11/15] [Batch 3400/7038] [D_A loss: 0.0768] [D_B loss: 0.1611] [G loss: 4.2396]

51% | [██████] | 3601/7038 [22:54<21:42, 2.64it/s]

[Epoch 11/15] [Batch 3600/7038] [D_A loss: 0.1591] [D_B loss: 0.2532] [G loss: 3.3439]

54% | [██████] | 3801/7038 [24:10<20:30, 2.63it/s]

[Epoch 11/15] [Batch 3800/7038] [D_A loss: 0.0560] [D_B loss: 0.0913] [G loss: 4.0307]

57% | ██████████ | 4001/7038 [25:26<19:14, 2.63it/s]

[Epoch 11/15] [Batch 4000/7038] [D_A loss: 0.1873] [D_B loss: 0.0639] [G loss: 4.8712]

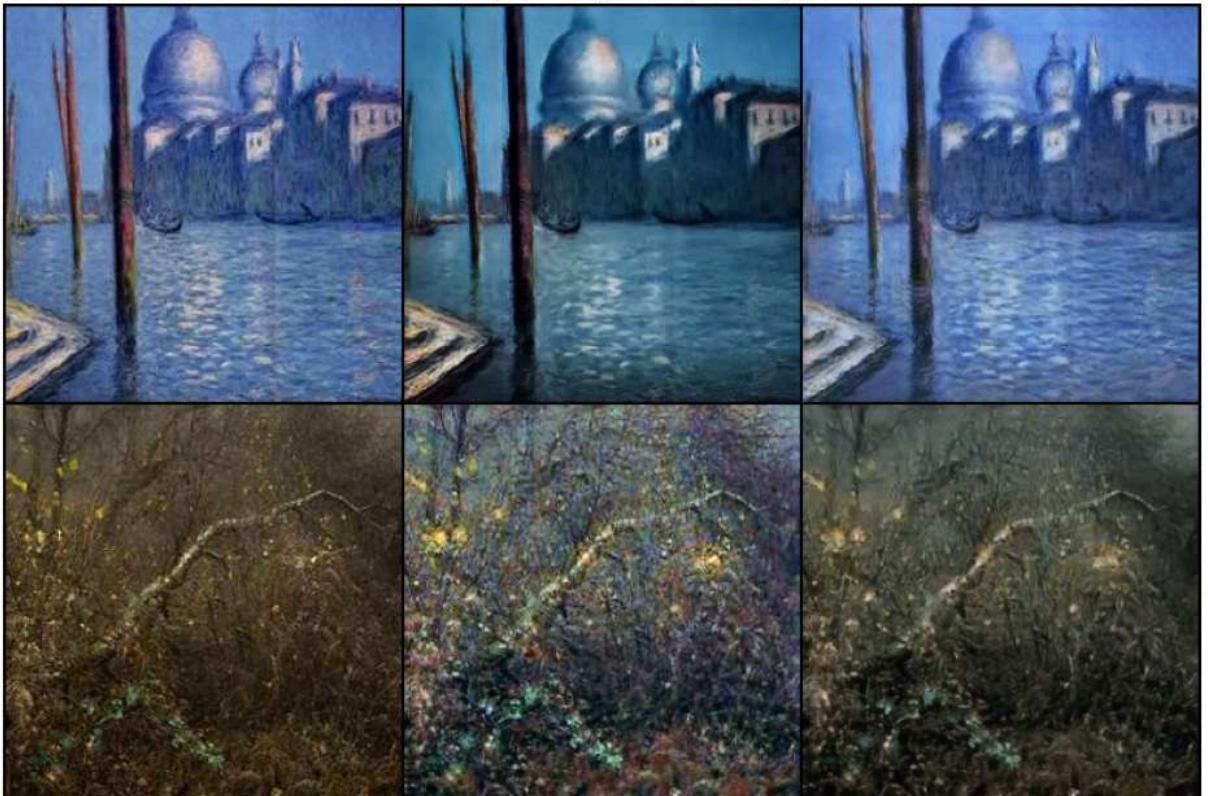
60% | ██████████ | 4201/7038 [26:43<17:54, 2.64it/s]

[Epoch 11/15] [Batch 4200/7038] [D_A loss: 0.1243] [D_B loss: 0.1874] [G loss: 3.7592]

63% | ██████████ | 4400/7038 [27:59<16:49, 2.61it/s]

[Epoch 11/15] [Batch 4400/7038] [D_A loss: 0.1167] [D_B loss: 0.2177] [G loss: 4.1171]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | ██████████ | 4601/7038 [29:16<15:30, 2.62it/s]

[Epoch 11/15] [Batch 4600/7038] [D_A loss: 0.0874] [D_B loss: 0.0708] [G loss: 4.7000]

68% | ██████████ | 4801/7038 [30:32<14:15, 2.61it/s]

[Epoch 11/15] [Batch 4800/7038] [D_A loss: 0.2480] [D_B loss: 0.2303] [G loss: 3.6380]

71% | ██████████ | 5001/7038 [31:49<12:56, 2.62it/s]

[Epoch 11/15] [Batch 5000/7038] [D_A loss: 0.1943] [D_B loss: 0.1091] [G loss: 3.2953]

74% | ██████████ | 5201/7038 [33:05<11:40, 2.62it/s]

[Epoch 11/15] [Batch 5200/7038] [D_A loss: 0.0602] [D_B loss: 0.1767] [G loss: 3.5919]

77% | ██████████ | 5401/7038 [34:21<10:24, 2.62it/s]

[Epoch 11/15] [Batch 5400/7038] [D_A loss: 0.0641] [D_B loss: 0.0306] [G loss: 5.2200]

80% | ██████████ | 5601/7038 [35:38<09:09, 2.62it/s]

[Epoch 11/15] [Batch 5600/7038] [D_A loss: 0.1279] [D_B loss: 0.1379] [G loss: 4.5908]

82% | ██████████ | 5801/7038 [36:54<07:52, 2.62it/s]

[Epoch 11/15] [Batch 5800/7038] [D_A loss: 0.1866] [D_B loss: 0.2840] [G loss: 4.3883]

85% | ██████████ | 6001/7038 [38:10<06:36, 2.62it/s]

[Epoch 11/15] [Batch 6000/7038] [D_A loss: 0.1930] [D_B loss: 0.2292] [G loss: 4.7963]

88% | ██████████ | 6201/7038 [39:27<05:18, 2.63it/s]

[Epoch 11/15] [Batch 6200/7038] [D_A loss: 0.0732] [D_B loss: 0.4181] [G loss: 4.0593]

91% | ██████████ | 6401/7038 [40:43<04:02, 2.62it/s]

[Epoch 11/15] [Batch 6400/7038] [D_A loss: 0.1218] [D_B loss: 0.1184] [G loss: 4.2231]

94% | ██████████ | 6600/7038 [41:59<02:47, 2.62it/s]

[Epoch 11/15] [Batch 6600/7038] [D_A loss: 0.1100] [D_B loss: 0.1203] [G loss: 4.1359]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:17<01:30, 2.61it/s]

[Epoch 11/15] [Batch 6800/7038] [D_A loss: 0.1369] [D_B loss: 0.1316] [G loss: 3.9467]

99% | ██████████ | 7001/7038 [44:33<00:14, 2.62it/s]

[Epoch 11/15] [Batch 7000/7038] [D_A loss: 0.0710] [D_B loss: 0.0886] [G loss: 4.1142]

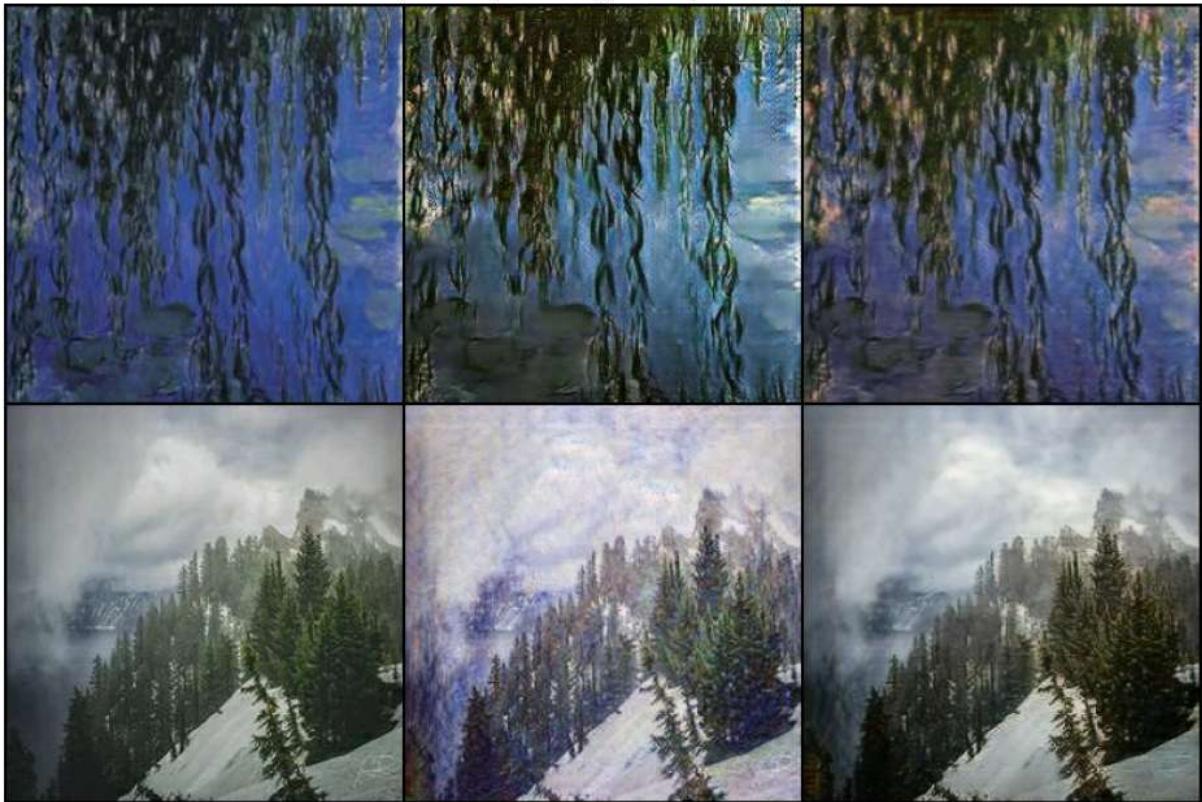
100% | ██████████ | 7038/7038 [44:47<00:00, 2.62it/s]

Epoch 11 finished in 2687.57 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 12/15] [Batch 0/7038] [D_A loss: 0.2571] [D_B loss: 0.0450] [G loss: 3.2875]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3%|██████████| 201/7038 [01:17<43:29, 2.62it/s]
[Epoch 12/15] [Batch 200/7038] [D_A loss: 0.0670] [D_B loss: 0.1403] [G loss: 4.674
2]
6%|██████████| 401/7038 [02:33<42:21, 2.61it/s]
[Epoch 12/15] [Batch 400/7038] [D_A loss: 0.1039] [D_B loss: 0.1787] [G loss: 4.217
5]
9%|██████████| 601/7038 [03:50<40:55, 2.61it/s]
[Epoch 12/15] [Batch 600/7038] [D_A loss: 0.3446] [D_B loss: 0.3492] [G loss: 3.599
4]
11%|██████████| 801/7038 [05:06<39:46, 2.61it/s]
[Epoch 12/15] [Batch 800/7038] [D_A loss: 0.0669] [D_B loss: 0.0621] [G loss: 3.869
1]
14%|██████████| 1001/7038 [06:23<38:28, 2.61it/s]
[Epoch 12/15] [Batch 1000/7038] [D_A loss: 0.1568] [D_B loss: 0.1611] [G loss: 4.462
0]
17%|██████████| 1201/7038 [07:39<37:16, 2.61it/s]
[Epoch 12/15] [Batch 1200/7038] [D_A loss: 0.1239] [D_B loss: 0.2401] [G loss: 3.287
1]
20%|██████████| 1401/7038 [08:55<35:52, 2.62it/s]
[Epoch 12/15] [Batch 1400/7038] [D_A loss: 0.1677] [D_B loss: 0.1392] [G loss: 4.322
0]
23%|██████████| 1601/7038 [10:13<34:43, 2.61it/s]
[Epoch 12/15] [Batch 1600/7038] [D_A loss: 0.2165] [D_B loss: 0.1711] [G loss: 4.271
0]
26%|██████████| 1801/7038 [11:29<33:17, 2.62it/s]
[Epoch 12/15] [Batch 1800/7038] [D_A loss: 0.2303] [D_B loss: 0.0660] [G loss: 4.287
3]
28%|██████████| 2001/7038 [12:45<32:03, 2.62it/s]

[Epoch 12/15] [Batch 2000/7038] [D_A loss: 0.1053] [D_B loss: 0.1304] [G loss: 4.4743]

31% | [redacted] | 2200/7038 [14:01<30:42, 2.63it/s]

[Epoch 12/15] [Batch 2200/7038] [D_A loss: 0.2010] [D_B loss: 0.2223] [G loss: 4.5729]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [redacted] | 2401/7038 [15:19<29:31, 2.62it/s]

[Epoch 12/15] [Batch 2400/7038] [D_A loss: 0.2442] [D_B loss: 0.0852] [G loss: 2.4970]

37% | [redacted] | 2601/7038 [16:35<28:10, 2.63it/s]

[Epoch 12/15] [Batch 2600/7038] [D_A loss: 0.1140] [D_B loss: 0.1182] [G loss: 6.1818]

40% | [redacted] | 2801/7038 [17:52<27:01, 2.61it/s]

[Epoch 12/15] [Batch 2800/7038] [D_A loss: 0.1205] [D_B loss: 0.1108] [G loss: 4.4879]

43% | [redacted] | 3001/7038 [19:08<25:42, 2.62it/s]

[Epoch 12/15] [Batch 3000/7038] [D_A loss: 0.0833] [D_B loss: 0.1332] [G loss: 3.8627]

45% | [redacted] | 3201/7038 [20:25<24:21, 2.63it/s]

[Epoch 12/15] [Batch 3200/7038] [D_A loss: 0.1503] [D_B loss: 0.0443] [G loss: 3.4575]

48% | [redacted] | 3401/7038 [21:41<23:03, 2.63it/s]

[Epoch 12/15] [Batch 3400/7038] [D_A loss: 0.2460] [D_B loss: 0.1073] [G loss: 3.4150]

51% | [redacted] | 3601/7038 [22:58<21:54, 2.62it/s]

[Epoch 12/15] [Batch 3600/7038] [D_A loss: 0.2781] [D_B loss: 0.1223] [G loss: 3.6151]

54% | [redacted] | 3801/7038 [24:14<20:40, 2.61it/s]

[Epoch 12/15] [Batch 3800/7038] [D_A loss: 0.1299] [D_B loss: 0.1083] [G loss: 5.2326]

57% | [REDACTED] | 4001/7038 [25:30<19:24, 2.61it/s]

[Epoch 12/15] [Batch 4000/7038] [D_A loss: 0.2457] [D_B loss: 0.2650] [G loss: 4.2374]

60% | [REDACTED] | 4201/7038 [26:47<18:11, 2.60it/s]

[Epoch 12/15] [Batch 4200/7038] [D_A loss: 0.1279] [D_B loss: 0.2754] [G loss: 3.6142]

63% | [REDACTED] | 4400/7038 [28:03<16:45, 2.62it/s]

[Epoch 12/15] [Batch 4400/7038] [D_A loss: 0.1484] [D_B loss: 0.1351] [G loss: 3.7785]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [29:20<15:37, 2.60it/s]

[Epoch 12/15] [Batch 4600/7038] [D_A loss: 0.1153] [D_B loss: 0.1907] [G loss: 4.3035]

68% | [REDACTED] | 4801/7038 [30:37<14:11, 2.63it/s]

[Epoch 12/15] [Batch 4800/7038] [D_A loss: 0.1619] [D_B loss: 0.2215] [G loss: 3.9319]

71% | [REDACTED] | 5001/7038 [31:53<13:00, 2.61it/s]

[Epoch 12/15] [Batch 5000/7038] [D_A loss: 0.0985] [D_B loss: 0.2182] [G loss: 4.2779]

74% | [REDACTED] | 5201/7038 [33:09<11:38, 2.63it/s]

[Epoch 12/15] [Batch 5200/7038] [D_A loss: 0.2914] [D_B loss: 0.3246] [G loss: 3.4119]

77% | [REDACTED] | 5401/7038 [34:26<10:24, 2.62it/s]

[Epoch 12/15] [Batch 5400/7038] [D_A loss: 0.0648] [D_B loss: 0.0584] [G loss: 2.9770]

80% | [REDACTED] | 5601/7038 [35:42<09:10, 2.61it/s]

[Epoch 12/15] [Batch 5600/7038] [D_A loss: 0.2004] [D_B loss: 0.1443] [G loss: 3.7696]

82% | ██████████ | 5801/7038 [36:59<07:52, 2.62it/s]

[Epoch 12/15] [Batch 5800/7038] [D_A loss: 0.1039] [D_B loss: 0.2359] [G loss: 5.1058]

85% | ██████████ | 6001/7038 [38:15<06:36, 2.62it/s]

[Epoch 12/15] [Batch 6000/7038] [D_A loss: 0.1302] [D_B loss: 0.1024] [G loss: 4.1769]

88% | ██████████ | 6201/7038 [39:31<05:19, 2.62it/s]

[Epoch 12/15] [Batch 6200/7038] [D_A loss: 0.1830] [D_B loss: 0.0606] [G loss: 5.7913]

91% | ██████████ | 6401/7038 [40:48<04:05, 2.59it/s]

[Epoch 12/15] [Batch 6400/7038] [D_A loss: 0.0603] [D_B loss: 0.1055] [G loss: 3.8677]

94% | ██████████ | 6600/7038 [42:04<02:48, 2.61it/s]

[Epoch 12/15] [Batch 6600/7038] [D_A loss: 0.2716] [D_B loss: 0.1746] [G loss: 3.5612]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:21<01:30, 2.63it/s]

[Epoch 12/15] [Batch 6800/7038] [D_A loss: 0.0362] [D_B loss: 0.1033] [G loss: 9.7219]

99% | ██████████ | 7001/7038 [44:38<00:14, 2.62it/s]

[Epoch 12/15] [Batch 7000/7038] [D_A loss: 0.1178] [D_B loss: 0.2083] [G loss: 4.1287]

100% | ██████████ | 7038/7038 [44:52<00:00, 2.61it/s]

Epoch 12 finished in 2692.14 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 13/15] [Batch 0/7038] [D_A loss: 0.1356] [D_B loss: 0.0685] [G loss: 3.9899]



3% | 201/7038 [01:17<43:44, 2.60it/s]
[Epoch 13/15] [Batch 200/7038] [D_A loss: 0.1703] [D_B loss: 0.1772] [G loss: 3.4712]

6% | 401/7038 [02:34<43:20, 2.55it/s]
[Epoch 13/15] [Batch 400/7038] [D_A loss: 0.1213] [D_B loss: 0.1363] [G loss: 3.6234]

9% | 601/7038 [03:51<41:07, 2.61it/s]
[Epoch 13/15] [Batch 600/7038] [D_A loss: 0.1700] [D_B loss: 0.1310] [G loss: 3.2698]

11% | 801/7038 [05:08<40:00, 2.60it/s]
[Epoch 13/15] [Batch 800/7038] [D_A loss: 0.2166] [D_B loss: 0.3251] [G loss: 3.7497]

14% | 1001/7038 [06:24<38:33, 2.61it/s]
[Epoch 13/15] [Batch 1000/7038] [D_A loss: 0.1887] [D_B loss: 0.1524] [G loss: 5.0278]

17% | 1201/7038 [07:41<37:06, 2.62it/s]
[Epoch 13/15] [Batch 1200/7038] [D_A loss: 0.2324] [D_B loss: 0.0266] [G loss: 4.0546]

20% | 1401/7038 [08:58<35:55, 2.61it/s]
[Epoch 13/15] [Batch 1400/7038] [D_A loss: 0.2612] [D_B loss: 0.0623] [G loss: 4.4689]

23% | 1601/7038 [10:15<34:39, 2.62it/s]
[Epoch 13/15] [Batch 1600/7038] [D_A loss: 0.1170] [D_B loss: 0.0909] [G loss: 3.2401]

26% | 1801/7038 [11:32<33:22, 2.62it/s]
[Epoch 13/15] [Batch 1800/7038] [D_A loss: 0.0651] [D_B loss: 0.1755] [G loss: 4.8487]

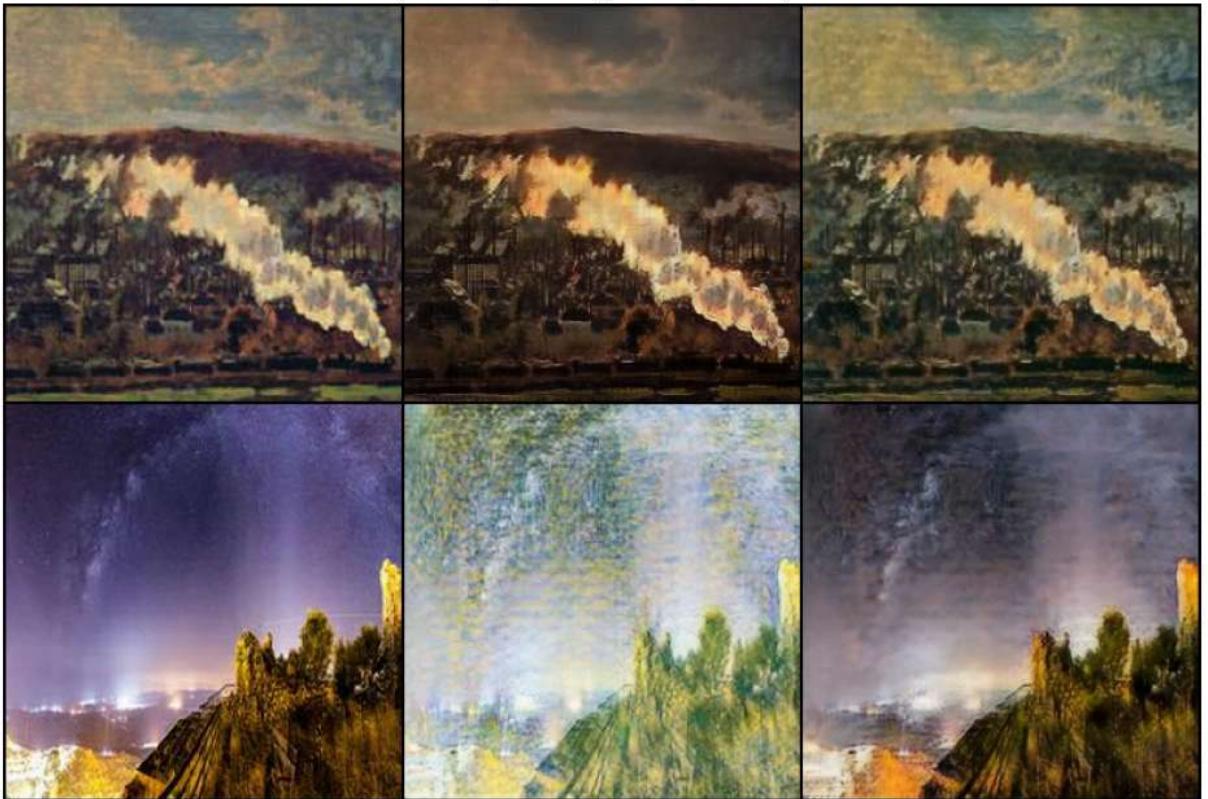
28% | 2001/7038 [12:48<32:12, 2.61it/s]

[Epoch 13/15] [Batch 2000/7038] [D_A loss: 0.0758] [D_B loss: 0.2221] [G loss: 4.3301]

31% | [redacted] | 2200/7038 [14:05<30:46, 2.62it/s]

[Epoch 13/15] [Batch 2200/7038] [D_A loss: 0.0619] [D_B loss: 0.0811] [G loss: 4.6054]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [redacted] | 2401/7038 [15:22<29:26, 2.63it/s]

[Epoch 13/15] [Batch 2400/7038] [D_A loss: 0.1242] [D_B loss: 0.0327] [G loss: 5.1384]

37% | [redacted] | 2601/7038 [16:39<28:21, 2.61it/s]

[Epoch 13/15] [Batch 2600/7038] [D_A loss: 0.1043] [D_B loss: 0.0999] [G loss: 3.6617]

40% | [redacted] | 2801/7038 [17:56<26:54, 2.62it/s]

[Epoch 13/15] [Batch 2800/7038] [D_A loss: 0.1066] [D_B loss: 0.3017] [G loss: 3.5233]

43% | [redacted] | 3001/7038 [19:12<25:49, 2.60it/s]

[Epoch 13/15] [Batch 3000/7038] [D_A loss: 0.1647] [D_B loss: 0.1376] [G loss: 4.1162]

45% | [redacted] | 3201/7038 [20:29<24:31, 2.61it/s]

[Epoch 13/15] [Batch 3200/7038] [D_A loss: 0.1154] [D_B loss: 0.1634] [G loss: 4.5265]

48% | [redacted] | 3401/7038 [21:45<23:06, 2.62it/s]

[Epoch 13/15] [Batch 3400/7038] [D_A loss: 0.1036] [D_B loss: 0.2070] [G loss: 3.9350]

51% | [redacted] | 3601/7038 [23:02<21:54, 2.61it/s]

[Epoch 13/15] [Batch 3600/7038] [D_A loss: 0.1696] [D_B loss: 0.2112] [G loss: 4.5867]

54% | [redacted] | 3801/7038 [24:19<20:33, 2.62it/s]

[Epoch 13/15] [Batch 3800/7038] [D_A loss: 0.0576] [D_B loss: 0.0374] [G loss: 4.2476]

57% | ██████████ | 4001/7038 [25:35<19:34, 2.59it/s]

[Epoch 13/15] [Batch 4000/7038] [D_A loss: 0.2394] [D_B loss: 0.1729] [G loss: 3.6287]

60% | ██████████ | 4201/7038 [26:52<18:09, 2.60it/s]

[Epoch 13/15] [Batch 4200/7038] [D_A loss: 0.0528] [D_B loss: 0.0665] [G loss: 3.8594]

63% | ██████████ | 4400/7038 [28:08<16:47, 2.62it/s]

[Epoch 13/15] [Batch 4400/7038] [D_A loss: 0.0752] [D_B loss: 0.0340] [G loss: 4.7691]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | ██████████ | 4601/7038 [29:26<15:31, 2.62it/s]

[Epoch 13/15] [Batch 4600/7038] [D_A loss: 0.0591] [D_B loss: 0.0932] [G loss: 4.1002]

68% | ██████████ | 4801/7038 [30:42<14:17, 2.61it/s]

[Epoch 13/15] [Batch 4800/7038] [D_A loss: 0.1056] [D_B loss: 0.0898] [G loss: 3.5689]

71% | ██████████ | 5001/7038 [31:59<12:59, 2.61it/s]

[Epoch 13/15] [Batch 5000/7038] [D_A loss: 0.0615] [D_B loss: 0.2702] [G loss: 5.2979]

74% | ██████████ | 5201/7038 [33:15<11:47, 2.60it/s]

[Epoch 13/15] [Batch 5200/7038] [D_A loss: 0.1207] [D_B loss: 0.1265] [G loss: 3.3429]

77% | ██████████ | 5401/7038 [34:32<10:24, 2.62it/s]

[Epoch 13/15] [Batch 5400/7038] [D_A loss: 0.0681] [D_B loss: 0.1650] [G loss: 4.2718]

80% | ██████████ | 5601/7038 [35:48<09:10, 2.61it/s]

[Epoch 13/15] [Batch 5600/7038] [D_A loss: 0.1723] [D_B loss: 0.3286] [G loss: 5.5282]

82% | ██████████ | 5801/7038 [37:05<07:52, 2.62it/s]

[Epoch 13/15] [Batch 5800/7038] [D_A loss: 0.1757] [D_B loss: 0.1762] [G loss: 3.9305]

85% | ██████████ | 6001/7038 [38:22<06:37, 2.61it/s]

[Epoch 13/15] [Batch 6000/7038] [D_A loss: 0.1380] [D_B loss: 0.4100] [G loss: 3.9246]

88% | ██████████ | 6201/7038 [39:38<05:19, 2.62it/s]

[Epoch 13/15] [Batch 6200/7038] [D_A loss: 0.0753] [D_B loss: 0.0699] [G loss: 4.7310]

91% | ██████████ | 6401/7038 [40:55<04:05, 2.60it/s]

[Epoch 13/15] [Batch 6400/7038] [D_A loss: 0.2853] [D_B loss: 0.1946] [G loss: 4.0784]

94% | ██████████ | 6600/7038 [42:11<02:47, 2.61it/s]

[Epoch 13/15] [Batch 6600/7038] [D_A loss: 0.0735] [D_B loss: 0.3875] [G loss: 4.3324]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:28<01:30, 2.61it/s]

[Epoch 13/15] [Batch 6800/7038] [D_A loss: 0.0855] [D_B loss: 0.1008] [G loss: 3.5590]

99% | ██████████ | 7001/7038 [44:45<00:14, 2.62it/s]

[Epoch 13/15] [Batch 7000/7038] [D_A loss: 0.1234] [D_B loss: 0.2464] [G loss: 4.4352]

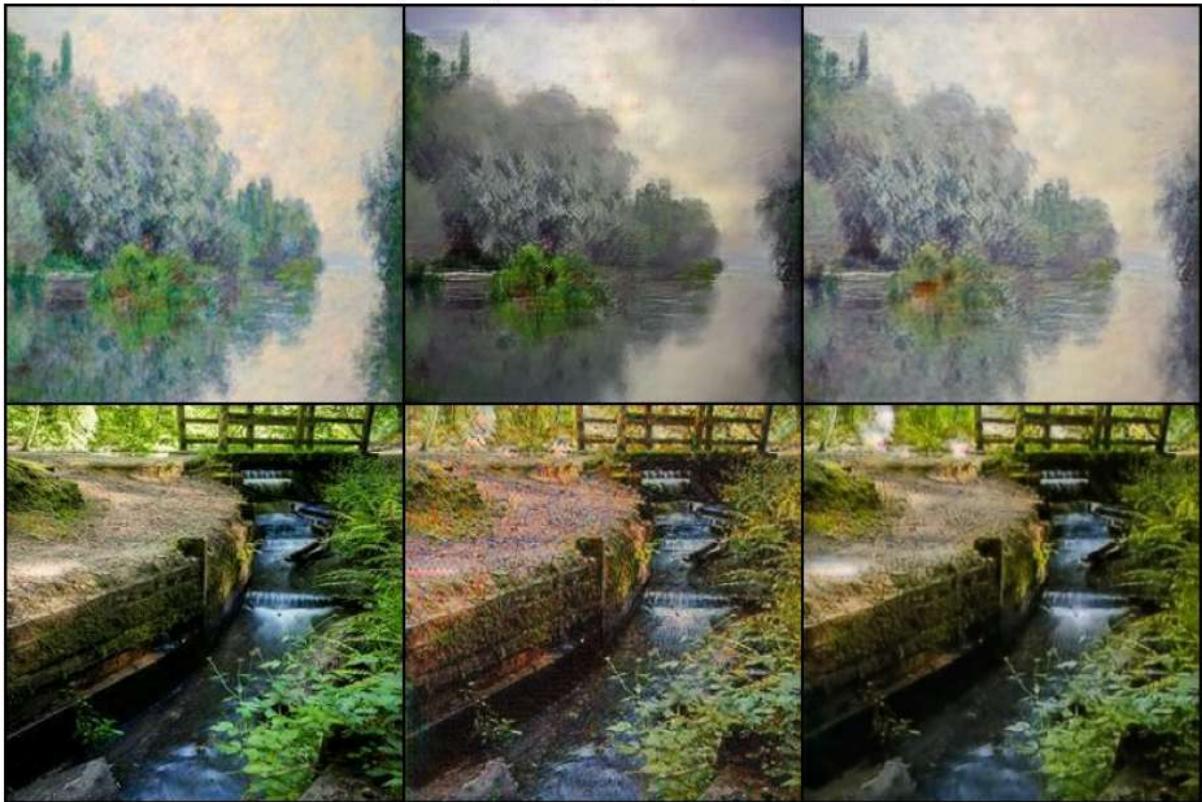
100% | ██████████ | 7038/7038 [44:59<00:00, 2.61it/s]

Epoch 13 finished in 2699.53 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 14/15] [Batch 0/7038] [D_A loss: 0.1446] [D_B loss: 0.1231] [G loss: 3.6804]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



```
3%|██████████| 201/7038 [01:17<43:31,  2.62it/s]
[Epoch 14/15] [Batch 200/7038] [D_A loss: 0.1745] [D_B loss: 0.1222] [G loss: 3.611
0]

6%|██████████| 401/7038 [02:34<42:13,  2.62it/s]
[Epoch 14/15] [Batch 400/7038] [D_A loss: 0.0810] [D_B loss: 0.1303] [G loss: 3.730
3]

9%|██████████| 601/7038 [03:50<41:01,  2.61it/s]
[Epoch 14/15] [Batch 600/7038] [D_A loss: 0.0379] [D_B loss: 0.1380] [G loss: 4.346
2]

11%|██████████| 801/7038 [05:07<39:50,  2.61it/s]
[Epoch 14/15] [Batch 800/7038] [D_A loss: 0.1232] [D_B loss: 0.1946] [G loss: 3.723
6]

14%|██████████| 1001/7038 [06:23<38:29,  2.61it/s]
[Epoch 14/15] [Batch 1000/7038] [D_A loss: 0.0846] [D_B loss: 0.3491] [G loss: 5.390
0]

17%|██████████| 1201/7038 [07:40<37:06,  2.62it/s]
[Epoch 14/15] [Batch 1200/7038] [D_A loss: 0.2846] [D_B loss: 0.1773] [G loss: 3.220
0]

20%|██████████| 1401/7038 [08:56<36:14,  2.59it/s]
[Epoch 14/15] [Batch 1400/7038] [D_A loss: 0.0892] [D_B loss: 0.1421] [G loss: 5.041
0]

23%|██████████| 1601/7038 [10:13<34:35,  2.62it/s]
[Epoch 14/15] [Batch 1600/7038] [D_A loss: 0.1354] [D_B loss: 0.4470] [G loss: 2.901
8]

26%|██████████| 1801/7038 [11:30<33:28,  2.61it/s]
[Epoch 14/15] [Batch 1800/7038] [D_A loss: 0.1873] [D_B loss: 0.1551] [G loss: 4.985
6]

28%|██████████| 2001/7038 [12:46<32:02,  2.62it/s]
```

[Epoch 14/15] [Batch 2000/7038] [D_A loss: 0.0976] [D_B loss: 0.0919] [G loss: 4.0735]

31% | [redacted] | 2200/7038 [14:02<30:54, 2.61it/s]

[Epoch 14/15] [Batch 2200/7038] [D_A loss: 0.0734] [D_B loss: 0.1983] [G loss: 3.4746]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [redacted] | 2401/7038 [15:20<29:31, 2.62it/s]

[Epoch 14/15] [Batch 2400/7038] [D_A loss: 0.0795] [D_B loss: 0.2473] [G loss: 4.4373]

37% | [redacted] | 2601/7038 [16:36<28:06, 2.63it/s]

[Epoch 14/15] [Batch 2600/7038] [D_A loss: 0.0880] [D_B loss: 0.1584] [G loss: 4.1855]

40% | [redacted] | 2801/7038 [17:53<26:58, 2.62it/s]

[Epoch 14/15] [Batch 2800/7038] [D_A loss: 0.1589] [D_B loss: 0.2535] [G loss: 2.9228]

43% | [redacted] | 3001/7038 [19:09<25:40, 2.62it/s]

[Epoch 14/15] [Batch 3000/7038] [D_A loss: 0.1236] [D_B loss: 0.1237] [G loss: 4.6868]

45% | [redacted] | 3201/7038 [20:26<24:23, 2.62it/s]

[Epoch 14/15] [Batch 3200/7038] [D_A loss: 0.1353] [D_B loss: 0.0716] [G loss: 3.5533]

48% | [redacted] | 3401/7038 [21:43<23:11, 2.61it/s]

[Epoch 14/15] [Batch 3400/7038] [D_A loss: 0.1879] [D_B loss: 0.2484] [G loss: 4.7238]

51% | [redacted] | 3601/7038 [22:59<21:52, 2.62it/s]

[Epoch 14/15] [Batch 3600/7038] [D_A loss: 0.0446] [D_B loss: 0.1307] [G loss: 4.1132]

54% | [redacted] | 3801/7038 [24:16<20:38, 2.61it/s]

[Epoch 14/15] [Batch 3800/7038] [D_A loss: 0.0904] [D_B loss: 0.1724] [G loss: 4.0910]

57% | ██████████ | 4001/7038 [25:32<19:24, 2.61it/s]

[Epoch 14/15] [Batch 4000/7038] [D_A loss: 0.1610] [D_B loss: 0.2504] [G loss: 5.0086]

60% | ██████████ | 4201/7038 [26:49<18:07, 2.61it/s]

[Epoch 14/15] [Batch 4200/7038] [D_A loss: 0.0577] [D_B loss: 0.1130] [G loss: 6.4823]

63% | ██████████ | 4400/7038 [28:05<16:53, 2.60it/s]

[Epoch 14/15] [Batch 4400/7038] [D_A loss: 0.2357] [D_B loss: 0.1505] [G loss: 3.2946]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | ██████████ | 4601/7038 [29:22<15:37, 2.60it/s]

[Epoch 14/15] [Batch 4600/7038] [D_A loss: 0.1134] [D_B loss: 0.2935] [G loss: 3.6642]

68% | ██████████ | 4801/7038 [30:39<14:13, 2.62it/s]

[Epoch 14/15] [Batch 4800/7038] [D_A loss: 0.1117] [D_B loss: 0.0689] [G loss: 3.5382]

71% | ██████████ | 5001/7038 [31:56<13:04, 2.60it/s]

[Epoch 14/15] [Batch 5000/7038] [D_A loss: 0.0502] [D_B loss: 0.1386] [G loss: 3.0651]

74% | ██████████ | 5201/7038 [33:13<11:47, 2.60it/s]

[Epoch 14/15] [Batch 5200/7038] [D_A loss: 0.1123] [D_B loss: 0.0920] [G loss: 3.8554]

77% | ██████████ | 5401/7038 [34:30<10:30, 2.60it/s]

[Epoch 14/15] [Batch 5400/7038] [D_A loss: 0.1191] [D_B loss: 0.1906] [G loss: 3.2167]

80% | ██████████ | 5601/7038 [35:47<09:14, 2.59it/s]

[Epoch 14/15] [Batch 5600/7038] [D_A loss: 0.1501] [D_B loss: 0.2112] [G loss: 3.7554]

82% | ██████████ | 5801/7038 [37:04<07:58, 2.59it/s]

[Epoch 14/15] [Batch 5800/7038] [D_A loss: 0.0612] [D_B loss: 0.1049] [G loss: 4.8592]

85% | ██████████ | 6001/7038 [38:21<06:40, 2.59it/s]

[Epoch 14/15] [Batch 6000/7038] [D_A loss: 0.1552] [D_B loss: 0.2463] [G loss: 4.2036]

88% | ██████████ | 6201/7038 [39:38<05:21, 2.60it/s]

[Epoch 14/15] [Batch 6200/7038] [D_A loss: 0.1903] [D_B loss: 0.2137] [G loss: 4.6468]

91% | ██████████ | 6401/7038 [40:55<04:05, 2.59it/s]

[Epoch 14/15] [Batch 6400/7038] [D_A loss: 0.2504] [D_B loss: 0.1313] [G loss: 3.7688]

94% | ██████████ | 6600/7038 [42:12<02:48, 2.60it/s]

[Epoch 14/15] [Batch 6600/7038] [D_A loss: 0.0556] [D_B loss: 0.0626] [G loss: 4.3209]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:30<01:31, 2.60it/s]

[Epoch 14/15] [Batch 6800/7038] [D_A loss: 0.1285] [D_B loss: 0.1268] [G loss: 4.4771]

99% | ██████████ | 7001/7038 [44:47<00:14, 2.60it/s]

[Epoch 14/15] [Batch 7000/7038] [D_A loss: 0.1201] [D_B loss: 0.0731] [G loss: 3.9247]

100% | ██████████ | 7038/7038 [45:01<00:00, 2.61it/s]

Epoch 14 finished in 2701.44 seconds.

0% | 0/7038 [00:00<?, ?it/s]

[Epoch 15/15] [Batch 0/7038] [D_A loss: 0.1121] [D_B loss: 0.2817] [G loss: 3.5426]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



3%|██████████| 201/7038 [01:17<43:48, 2.60it/s]
[Epoch 15/15] [Batch 200/7038] [D_A loss: 0.1923] [D_B loss: 0.0572] [G loss: 3.9569]

6%|██████████| 401/7038 [02:34<42:23, 2.61it/s]
[Epoch 15/15] [Batch 400/7038] [D_A loss: 0.0519] [D_B loss: 0.1455] [G loss: 5.4049]

9%|██████████| 601/7038 [03:52<41:15, 2.60it/s]
[Epoch 15/15] [Batch 600/7038] [D_A loss: 0.1217] [D_B loss: 0.1805] [G loss: 3.6961]

11%|██████████| 801/7038 [05:09<40:09, 2.59it/s]
[Epoch 15/15] [Batch 800/7038] [D_A loss: 0.0719] [D_B loss: 0.0745] [G loss: 3.8367]

14%|██████████| 1001/7038 [06:26<38:45, 2.60it/s]
[Epoch 15/15] [Batch 1000/7038] [D_A loss: 0.0695] [D_B loss: 0.1317] [G loss: 3.5801]

17%|██████████| 1201/7038 [07:43<37:15, 2.61it/s]
[Epoch 15/15] [Batch 1200/7038] [D_A loss: 0.1785] [D_B loss: 0.1567] [G loss: 4.2246]

20%|██████████| 1401/7038 [09:00<36:15, 2.59it/s]
[Epoch 15/15] [Batch 1400/7038] [D_A loss: 0.0573] [D_B loss: 0.1455] [G loss: 3.9536]

23%|██████████| 1601/7038 [10:17<34:56, 2.59it/s]
[Epoch 15/15] [Batch 1600/7038] [D_A loss: 0.0880] [D_B loss: 0.1240] [G loss: 5.1713]

26%|██████████| 1801/7038 [11:34<33:35, 2.60it/s]
[Epoch 15/15] [Batch 1800/7038] [D_A loss: 0.0349] [D_B loss: 0.2073] [G loss: 3.3976]

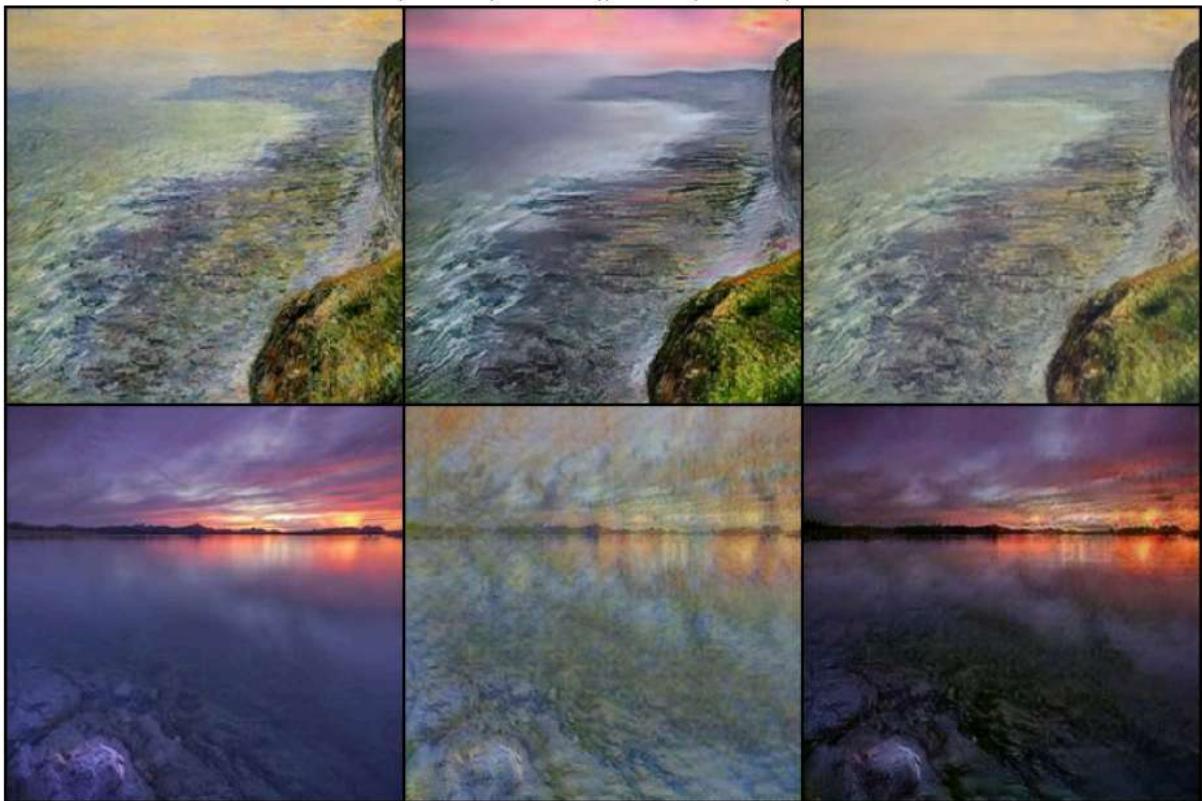
28%|██████████| 2001/7038 [12:51<32:13, 2.60it/s]

[Epoch 15/15] [Batch 2000/7038] [D_A loss: 0.0633] [D_B loss: 0.1084] [G loss: 2.7628]

31% | [REDACTED] | 2200/7038 [14:07<31:13, 2.58it/s]

[Epoch 15/15] [Batch 2200/7038] [D_A loss: 0.0490] [D_B loss: 0.1204] [G loss: 3.8029]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



34% | [REDACTED] | 2401/7038 [15:25<29:41, 2.60it/s]

[Epoch 15/15] [Batch 2400/7038] [D_A loss: 0.0918] [D_B loss: 0.1243] [G loss: 5.8254]

37% | [REDACTED] | 2601/7038 [16:42<28:24, 2.60it/s]

[Epoch 15/15] [Batch 2600/7038] [D_A loss: 0.1339] [D_B loss: 0.2519] [G loss: 3.7463]

40% | [REDACTED] | 2801/7038 [17:59<27:06, 2.60it/s]

[Epoch 15/15] [Batch 2800/7038] [D_A loss: 0.1659] [D_B loss: 0.3980] [G loss: 6.2861]

43% | [REDACTED] | 3001/7038 [19:16<25:52, 2.60it/s]

[Epoch 15/15] [Batch 3000/7038] [D_A loss: 0.0403] [D_B loss: 0.1352] [G loss: 5.0811]

45% | [REDACTED] | 3201/7038 [20:33<24:36, 2.60it/s]

[Epoch 15/15] [Batch 3200/7038] [D_A loss: 0.2974] [D_B loss: 0.1038] [G loss: 5.7068]

48% | [REDACTED] | 3401/7038 [21:50<23:19, 2.60it/s]

[Epoch 15/15] [Batch 3400/7038] [D_A loss: 0.1136] [D_B loss: 0.0977] [G loss: 5.7235]

51% | [REDACTED] | 3601/7038 [23:07<22:02, 2.60it/s]

[Epoch 15/15] [Batch 3600/7038] [D_A loss: 0.0889] [D_B loss: 0.2717] [G loss: 4.6267]

54% | [REDACTED] | 3801/7038 [24:24<20:48, 2.59it/s]

[Epoch 15/15] [Batch 3800/7038] [D_A loss: 0.1118] [D_B loss: 0.1395] [G loss: 4.853
1]

57% | [REDACTED] | 4001/7038 [25:40<19:32, 2.59it/s]

[Epoch 15/15] [Batch 4000/7038] [D_A loss: 0.0740] [D_B loss: 0.0804] [G loss: 3.969
0]

60% | [REDACTED] | 4201/7038 [26:57<18:10, 2.60it/s]

[Epoch 15/15] [Batch 4200/7038] [D_A loss: 0.0753] [D_B loss: 0.1773] [G loss: 3.972
3]

63% | [REDACTED] | 4400/7038 [28:14<17:09, 2.56it/s]

[Epoch 15/15] [Batch 4400/7038] [D_A loss: 0.0314] [D_B loss: 0.1451] [G loss: 3.957
5]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



65% | [REDACTED] | 4601/7038 [29:32<15:38, 2.60it/s]

[Epoch 15/15] [Batch 4600/7038] [D_A loss: 0.1375] [D_B loss: 0.0692] [G loss: 4.478
0]

68% | [REDACTED] | 4801/7038 [30:49<14:21, 2.60it/s]

[Epoch 15/15] [Batch 4800/7038] [D_A loss: 0.0853] [D_B loss: 0.1538] [G loss: 4.520
2]

71% | [REDACTED] | 5001/7038 [32:05<13:00, 2.61it/s]

[Epoch 15/15] [Batch 5000/7038] [D_A loss: 0.2738] [D_B loss: 0.2186] [G loss: 3.687
7]

74% | [REDACTED] | 5201/7038 [33:22<11:45, 2.60it/s]

[Epoch 15/15] [Batch 5200/7038] [D_A loss: 0.0771] [D_B loss: 0.0490] [G loss: 4.721
9]

77% | [REDACTED] | 5401/7038 [34:39<10:26, 2.61it/s]

[Epoch 15/15] [Batch 5400/7038] [D_A loss: 0.1222] [D_B loss: 0.2735] [G loss: 5.354
1]

80% | [REDACTED] | 5601/7038 [35:56<09:13, 2.59it/s]

[Epoch 15/15] [Batch 5600/7038] [D_A loss: 0.1145] [D_B loss: 0.1177] [G loss: 3.556
6]

82% | ██████████ | 5801/7038 [37:13<07:55, 2.60it/s]

[Epoch 15/15] [Batch 5800/7038] [D_A loss: 0.1141] [D_B loss: 0.1899] [G loss: 4.833
4]

85% | ██████████ | 6001/7038 [38:30<06:39, 2.60it/s]

[Epoch 15/15] [Batch 6000/7038] [D_A loss: 0.0727] [D_B loss: 0.1221] [G loss: 3.657
8]

88% | ██████████ | 6201/7038 [39:47<05:22, 2.60it/s]

[Epoch 15/15] [Batch 6200/7038] [D_A loss: 0.0334] [D_B loss: 0.0704] [G loss: 3.699
0]

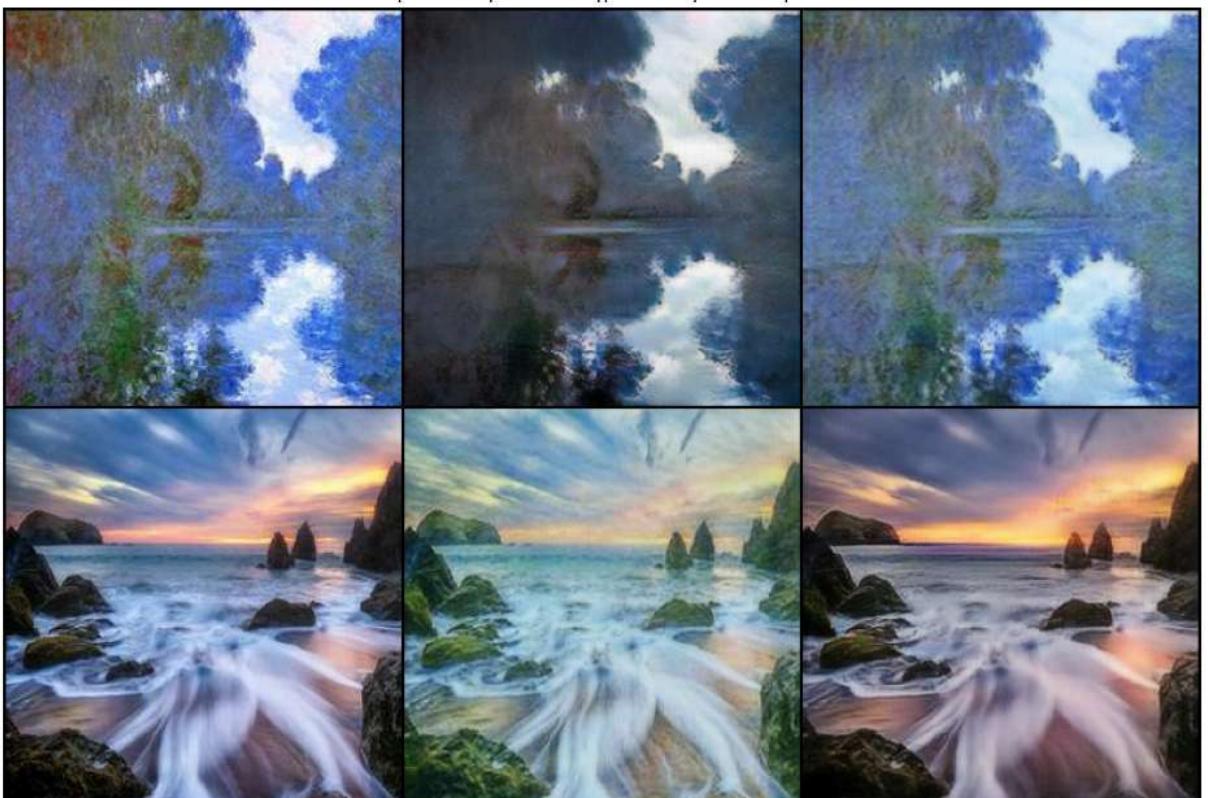
91% | ██████████ | 6401/7038 [41:04<04:03, 2.62it/s]

[Epoch 15/15] [Batch 6400/7038] [D_A loss: 0.0756] [D_B loss: 0.0624] [G loss: 3.778
3]

94% | ██████████ | 6600/7038 [42:21<02:48, 2.60it/s]

[Epoch 15/15] [Batch 6600/7038] [D_A loss: 0.0380] [D_B loss: 0.0909] [G loss: 4.422
6]

Real A | Fake B | Recov A || Real B | Fake A | Recov B



97% | ██████████ | 6801/7038 [43:38<01:31, 2.60it/s]

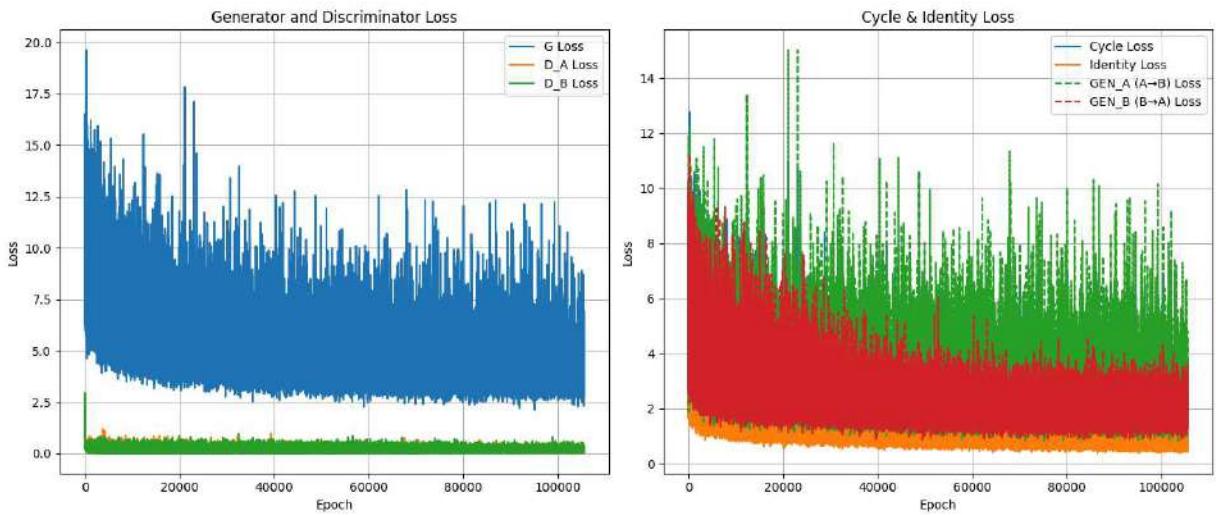
[Epoch 15/15] [Batch 6800/7038] [D_A loss: 0.1334] [D_B loss: 0.0959] [G loss: 4.082
6]

99% | ██████████ | 7001/7038 [44:55<00:14, 2.58it/s]

[Epoch 15/15] [Batch 7000/7038] [D_A loss: 0.1184] [D_B loss: 0.1538] [G loss: 4.174
4]

100% | ██████████ | 7038/7038 [45:09<00:00, 2.60it/s]

Epoch 15 finished in 2709.91 seconds.



In []: