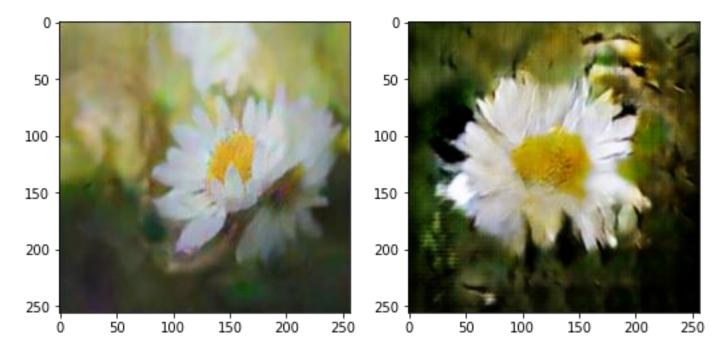
https://github.com/ravasconcelos/flowers_dcgan/blob/master/dcgan_flowers_1.ipynb

This model was based on the model of Assignment 4, but one more convolutional layer was added to the Generator and the Discriminator: https://github.com/gsurma/image_generator/blob/master/ImageGeneratorDCGAN.ipynb

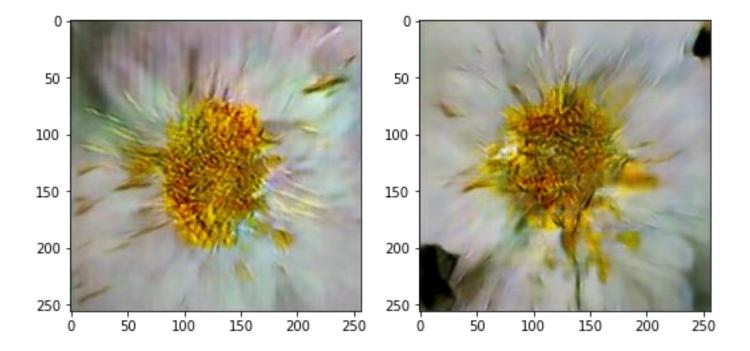
Batch Size: 64 Noise Array: 100

Generator: 6 Conv2DTranspose layers, initial shape 8, 8, 512

Discriminator: 5 Conv2D layers







https://github.com/ravasconcelos/flowers_dcgan/blob/master/dcgan_flowers_2.ipynb

This model was based on Tensorflow DCGAN tutorial: https://www.tensorflow.org/tutorials/generative/dcgan

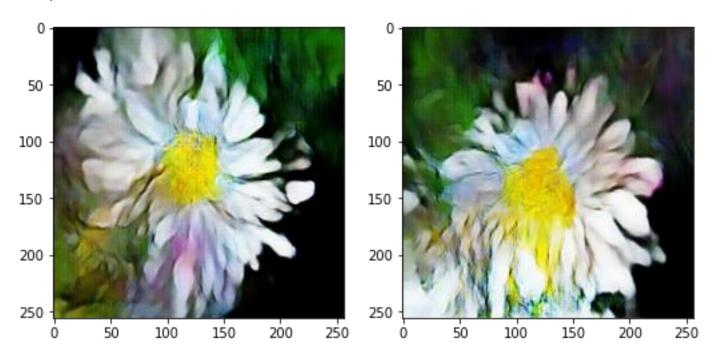
Batch Size: 64

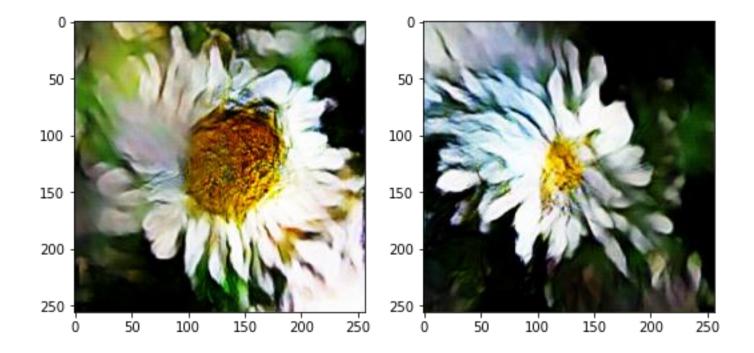
Noise Array: 100

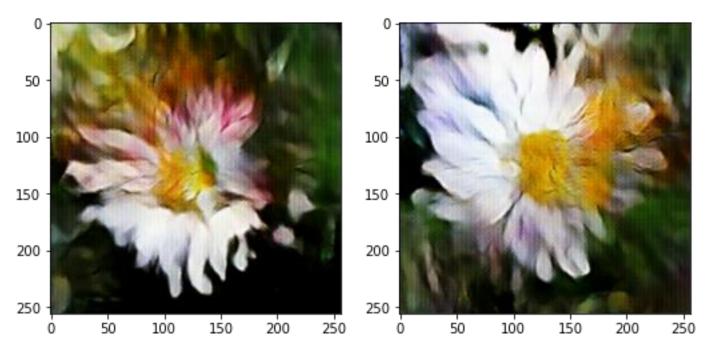
Generator: 3 Conv2DTranspose layers, initial shape 64, 64, 256

Discriminator: 2 Conv2D layers

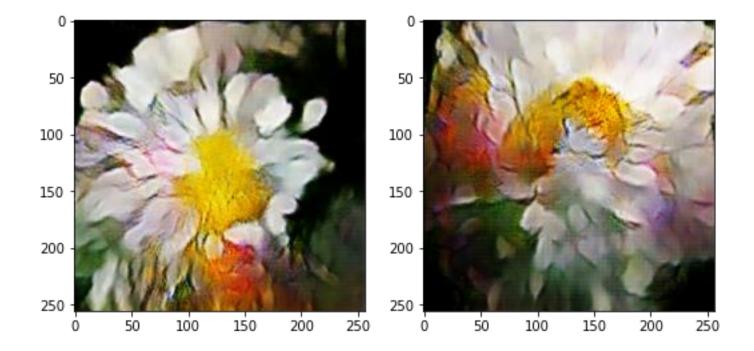
2000 epochs







500 epochs



https://github.com/ravasconcelos/flowers_dcgan/blob/master/dcgan_flowers_3.ipynb

Based on Model 1, but with a bigger noise array.

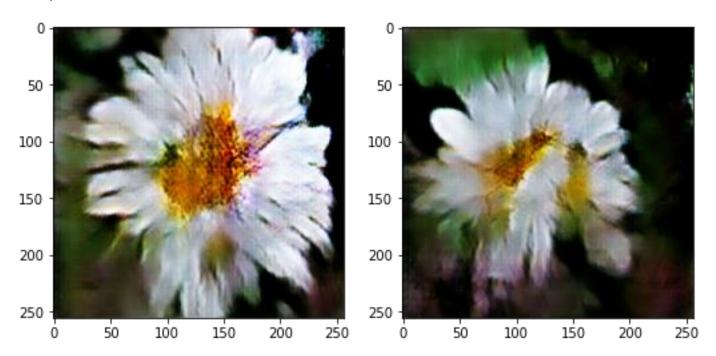
Batch Size: 64

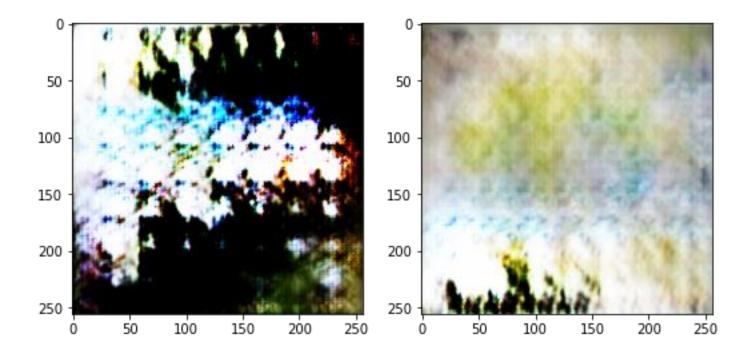
Noise Array: 1000

Generator: 6 Conv2DTranspose layers, initial shape 8, 8, 512

Discriminator: 5 Conv2D layers

2000 epochs





https://github.com/ravasconcelos/flowers_dcgan/blob/master/dcgan_flowers_4.ipynb

This model was based on Model 2, but with some hyperparameters from the Paper: https://arxiv.org/pdf/1511.06434.pdf%C3%AF%C2%BC%E2%80%B0

Use batchnorm in both the generator and the discriminator.

Use ReLU activation in generator for all layers except for the output, which uses Tanh.

Use LeakyReLU activation in the discriminator for all layers.

Batch Size: 64

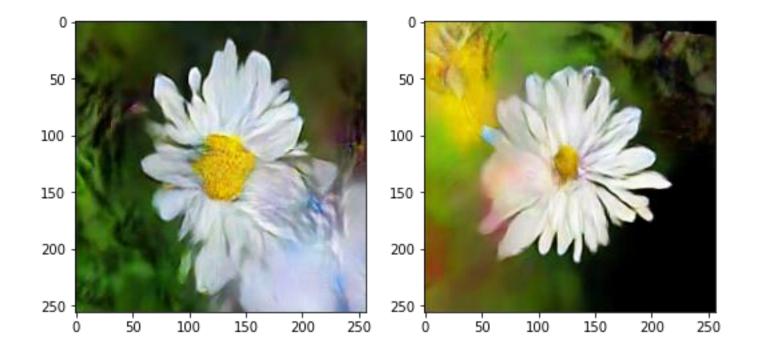
LR_D = 0.0002 # Paper

LR_G = 0.0002 # Paper

Noise Array: 100

Generator: 3 Conv2DTranspose layers, initial shape 64, 64, 256

Discriminator: 2 Conv2D layers





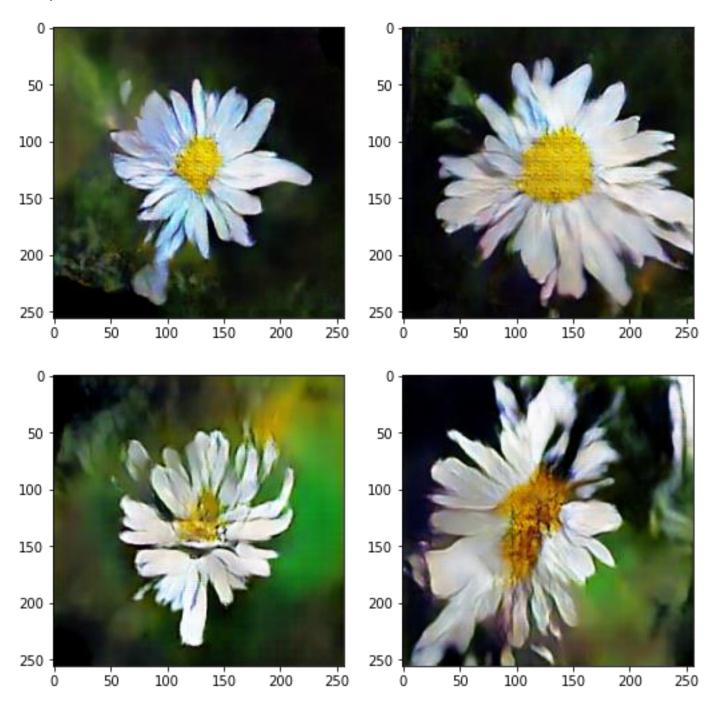
https://github.com/ravasconcelos/flowers_dcgan/blob/master/dcgan_flowers_5.ipynb

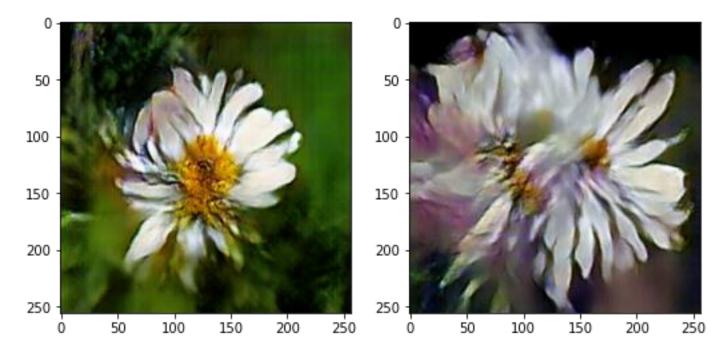
This model was based on the model described in the Paper.

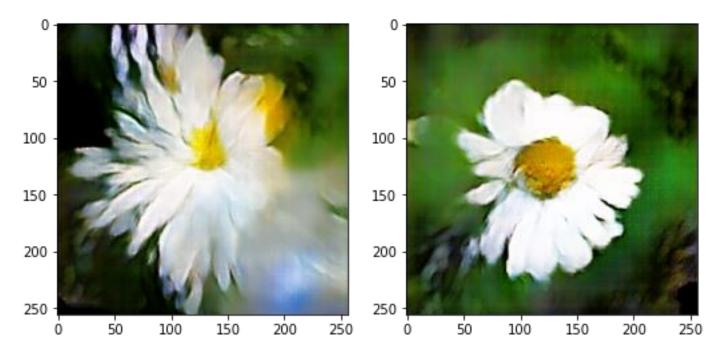
Batch Size: 128 Noise Array: 100

Generator: 4 Conv2DTranspose layers, initial shape 16, 16, 1024

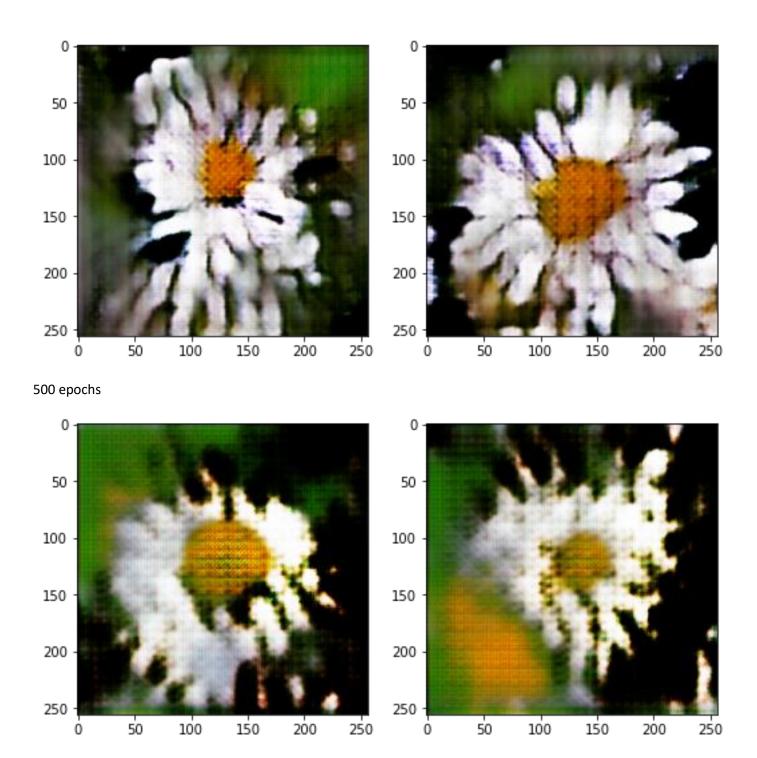
Discriminator: 3 Conv2D layers



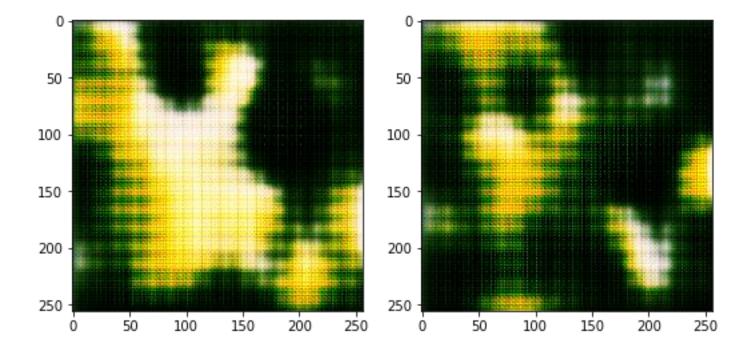




1000 epochs



100 epochs



https://github.com/ravasconcelos/flowers_dcgan/blob/master/dcgan_flowers_6.ipynb

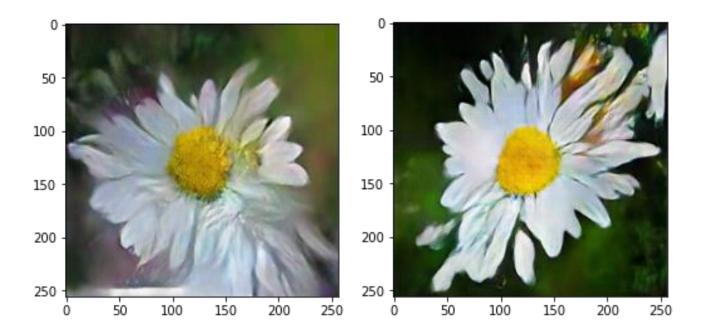
This model was based on Model 4, but with strides (2,2) in all the layers.

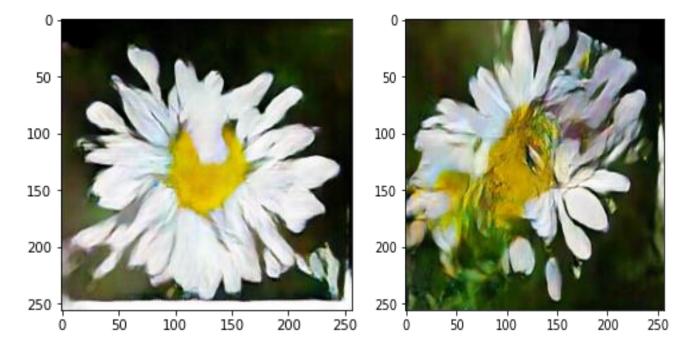
Batch Size: 64

Noise Array: 100

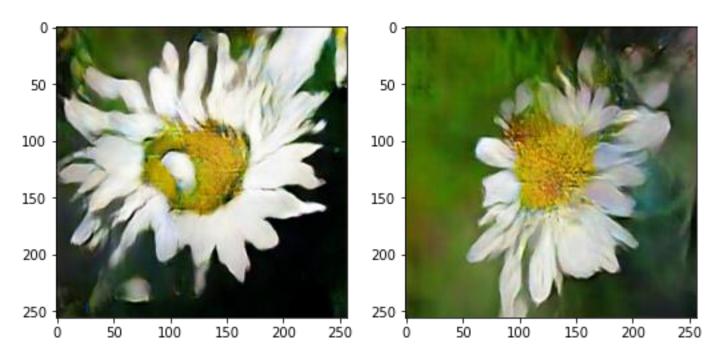
Generator: 3 Conv2DTranspose layers, initial shape 32, 32, 512

Discriminator: 2 Conv2D layers

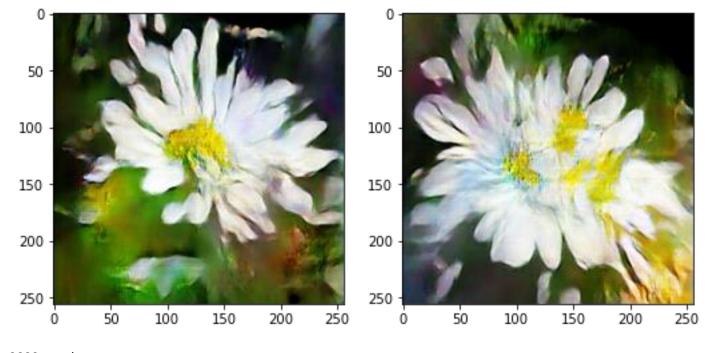


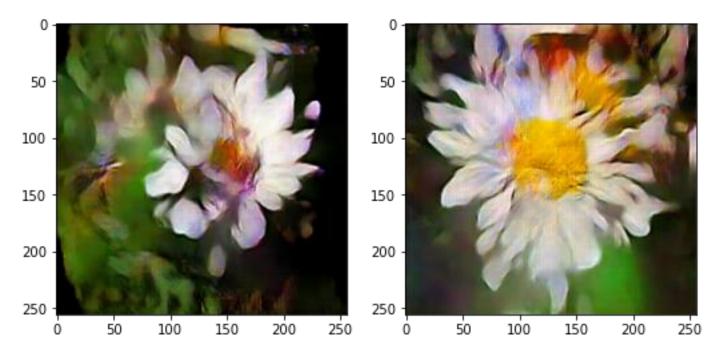


4000 epochs



3000 epochs





1000 epochs

