Aplicando CGANs

Na coloração de paisagens

Gerador

UNet adaptada

Perda considerando disputa com o discriminador e L1

Otimizador Adam

Discriminador

Rede convolucional de contração

BinaryCrossEntropy loss

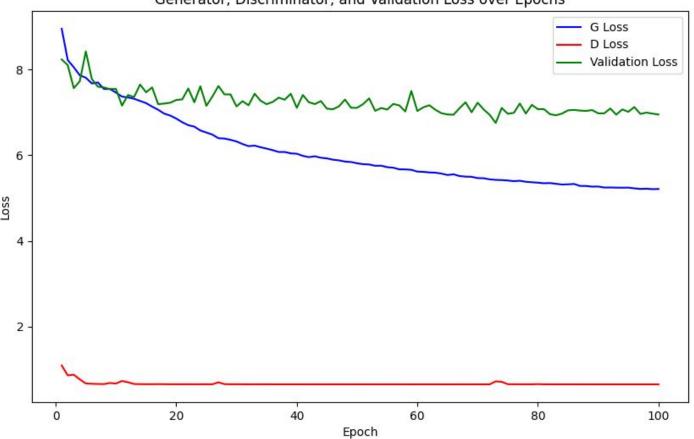
Otimizador Adam e SGD foram validados

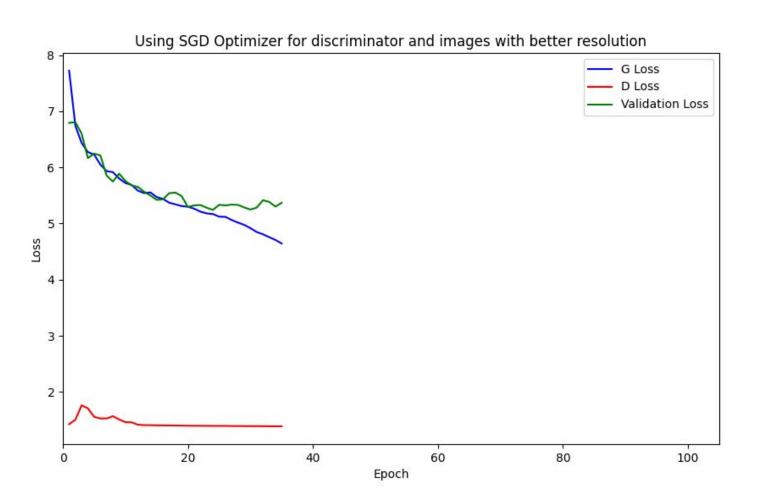
Treinamento Simultâneo

- Discriminador
 - atualiza a cada 5 epochs
 - usa labels não binárias, para induzir confusão

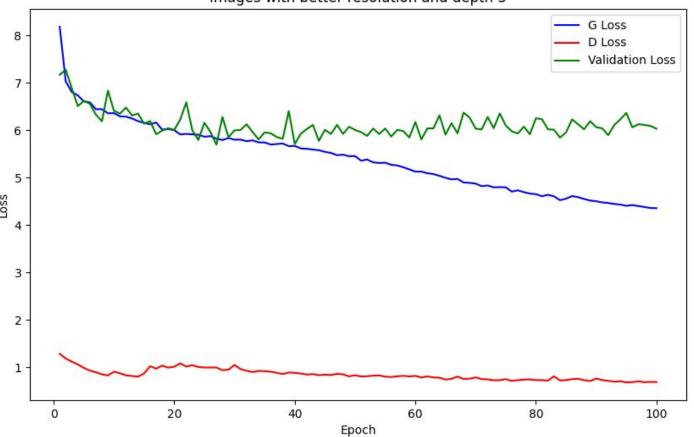
- Gerador
 - atualiza a cada epoch

Generator, Discriminator, and Validation Loss over Epochs

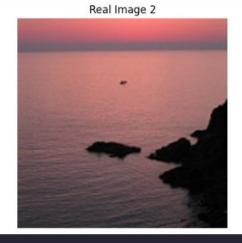


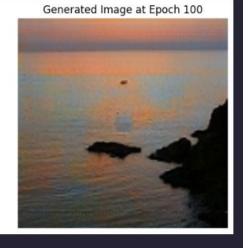


Images with better resolution and depth 3

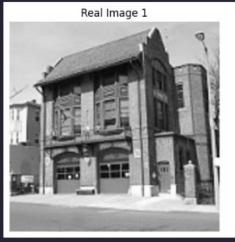


Real Image 1

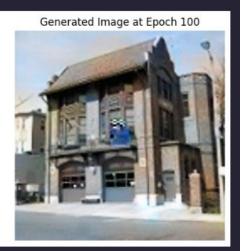




Validação

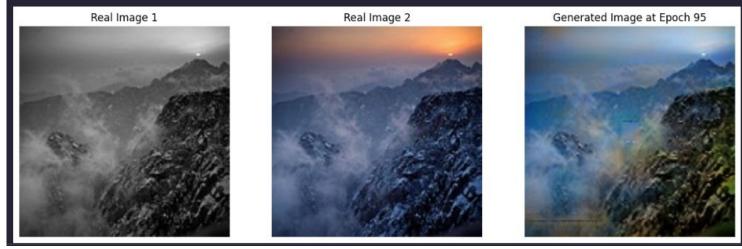






Real Image 1 Real Image 2 Generated Image at Epoch 95

Validação









Teste

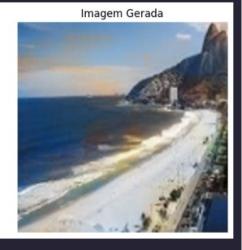










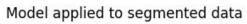


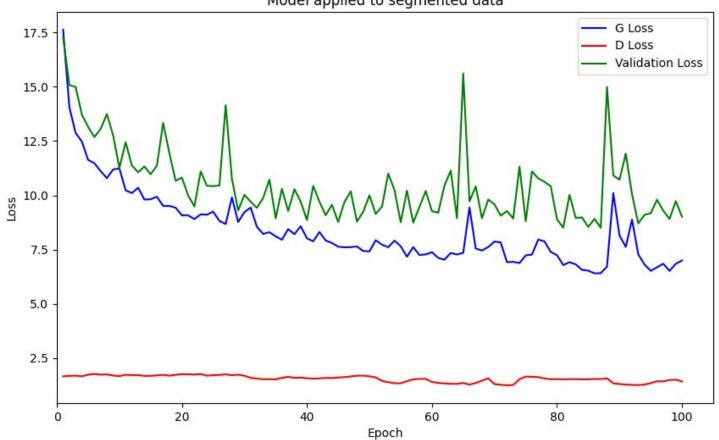
Teste



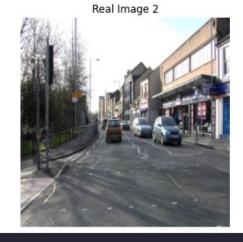


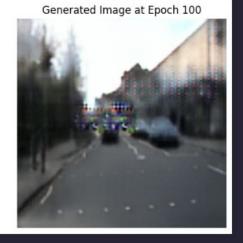




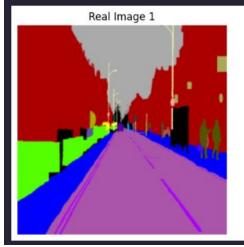


Real Image 1

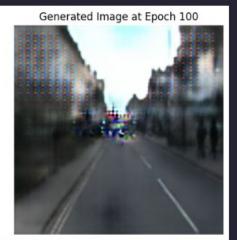




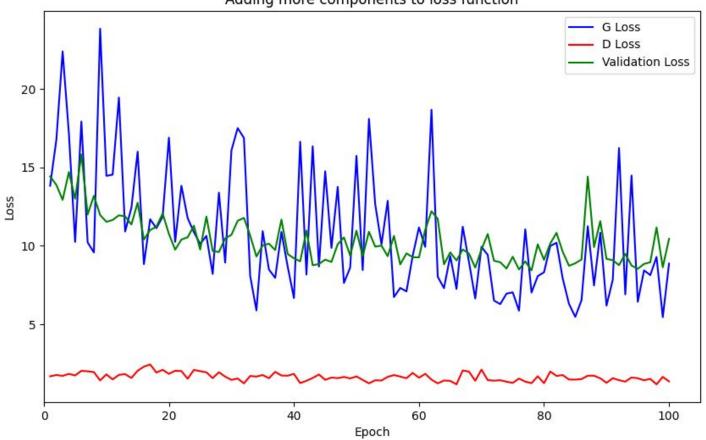






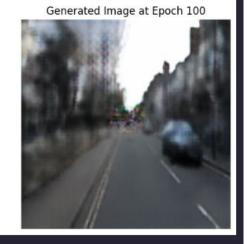


Adding more components to loss function



Real Image 1





Validação

