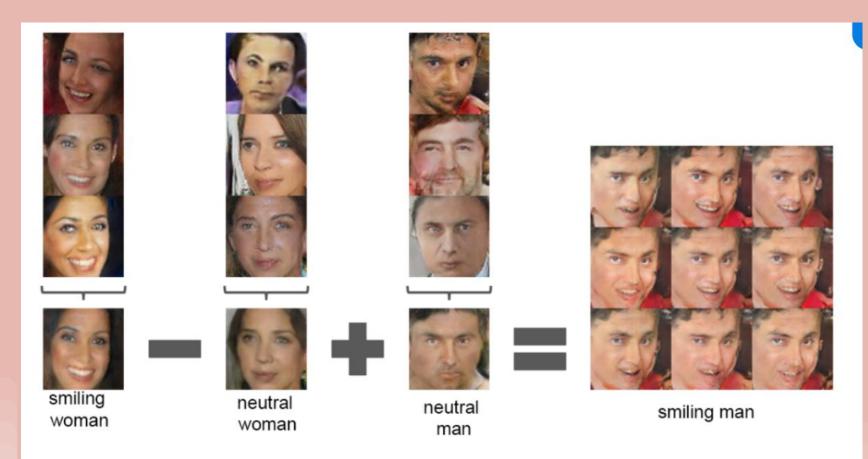
Tomato Fired Eggs

Motivation:

- Interested in image generation
- Did research and found that DCGAN(Deep Convolutional Generative Adversarial Network) are used in image generation. (image inpainting, Gradient image generation, Separable image generation)

Separable image generation



Gradient image generation



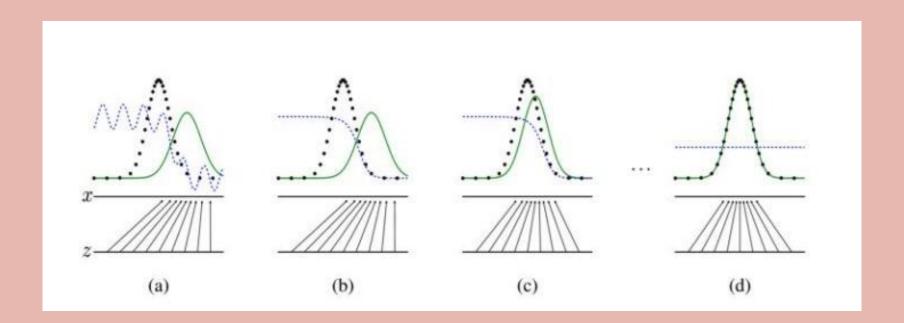




WHY DCGAN?

- DCGAN combines Gan with CNN(Convolutional neural network), it will greatly improve the stability of the original Gan training and the quality of the generated results.

GANs

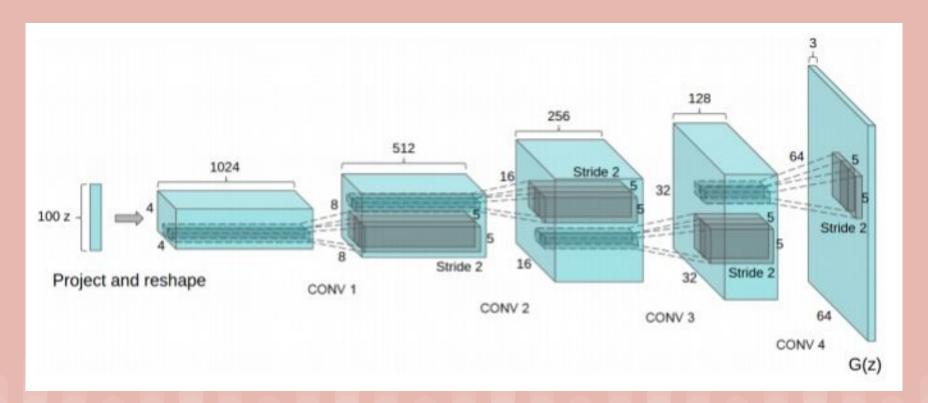


CNN

Delete the pooling, use convolution transpose instead of convolution.



Framework



generator discriminator

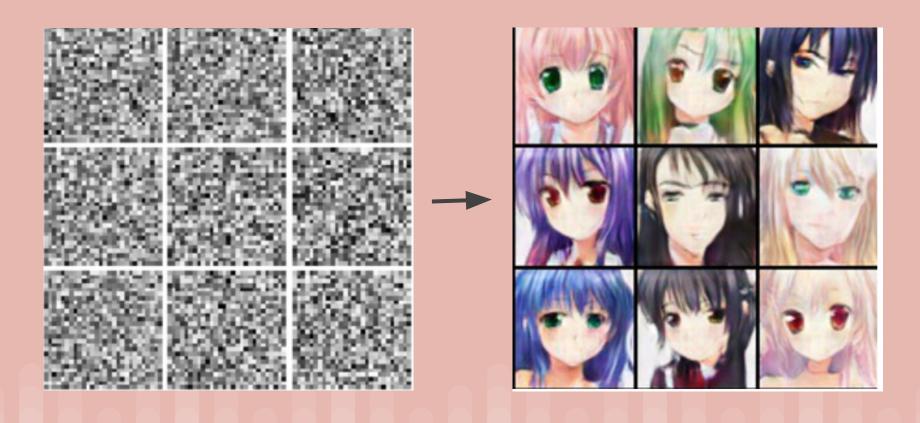
Data Set: Anime Face DataSet

Size: 63,632

https://www.kaggle.com/splcher/anime facedataset



Convert noise to comic pictures



Input features:

Data set images (comic face)

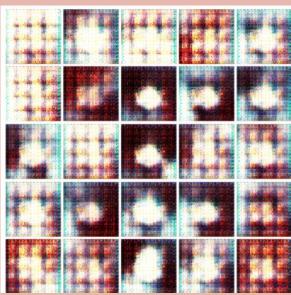
Output prediction:

The machine imitates the original image and outputs the image it draws(fake image).

Input

Output





Final Product

