z
↓

| 4 x 4 |
| 8 x 8 |
| 16 x 16 |
| 32 x 32 |
| 64 x 64 |
| 128 x 128 |
| 256 x 256 |
| 512 x 512 |
| 1024 x 1024 |

x' ↓   x ↓

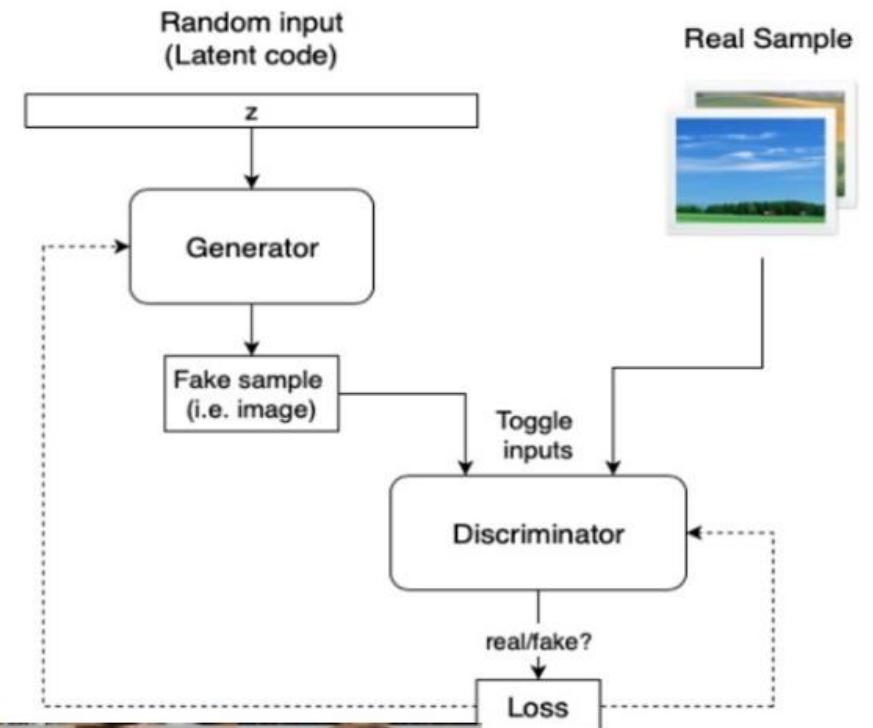| 1024 x 1024 |
| 512 x 512 |
| 256 x 256 |
| 128 x 128 |
| 64 x 64 |
| 32 x 32 |
| 16 x 16 |
| 8 x 8 |
| 4 x 4 |

Training time: 12 days
1024x1024 resolution

Generator
Discriminator

z = random code
x = real image
x' = generated image

StyleGAN

Random input
(Latent code)

z

Generator

Fake sample
(i.e. image)

Real Sample

Toggle
inputs

Discriminator

real/fake?

Loss