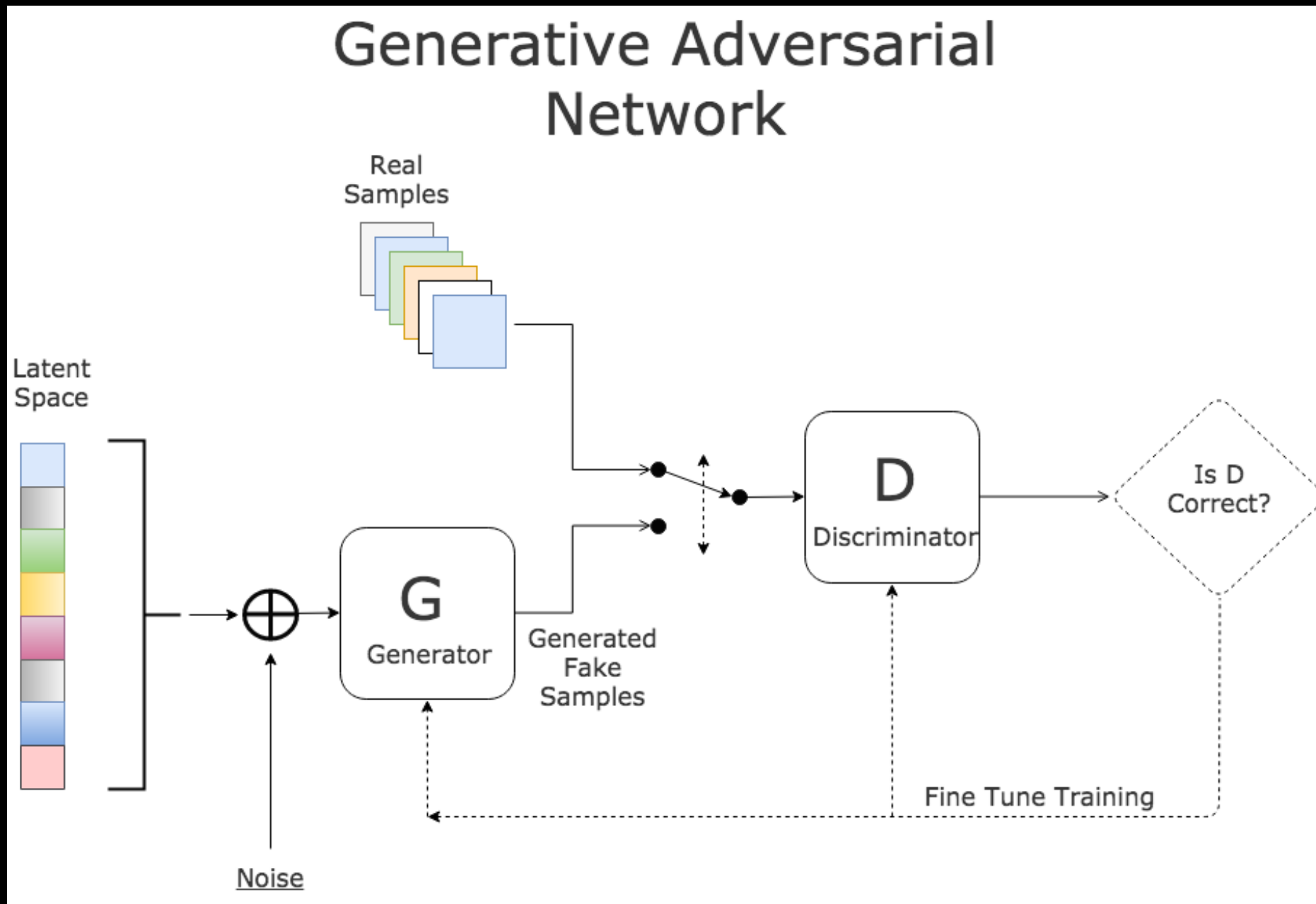


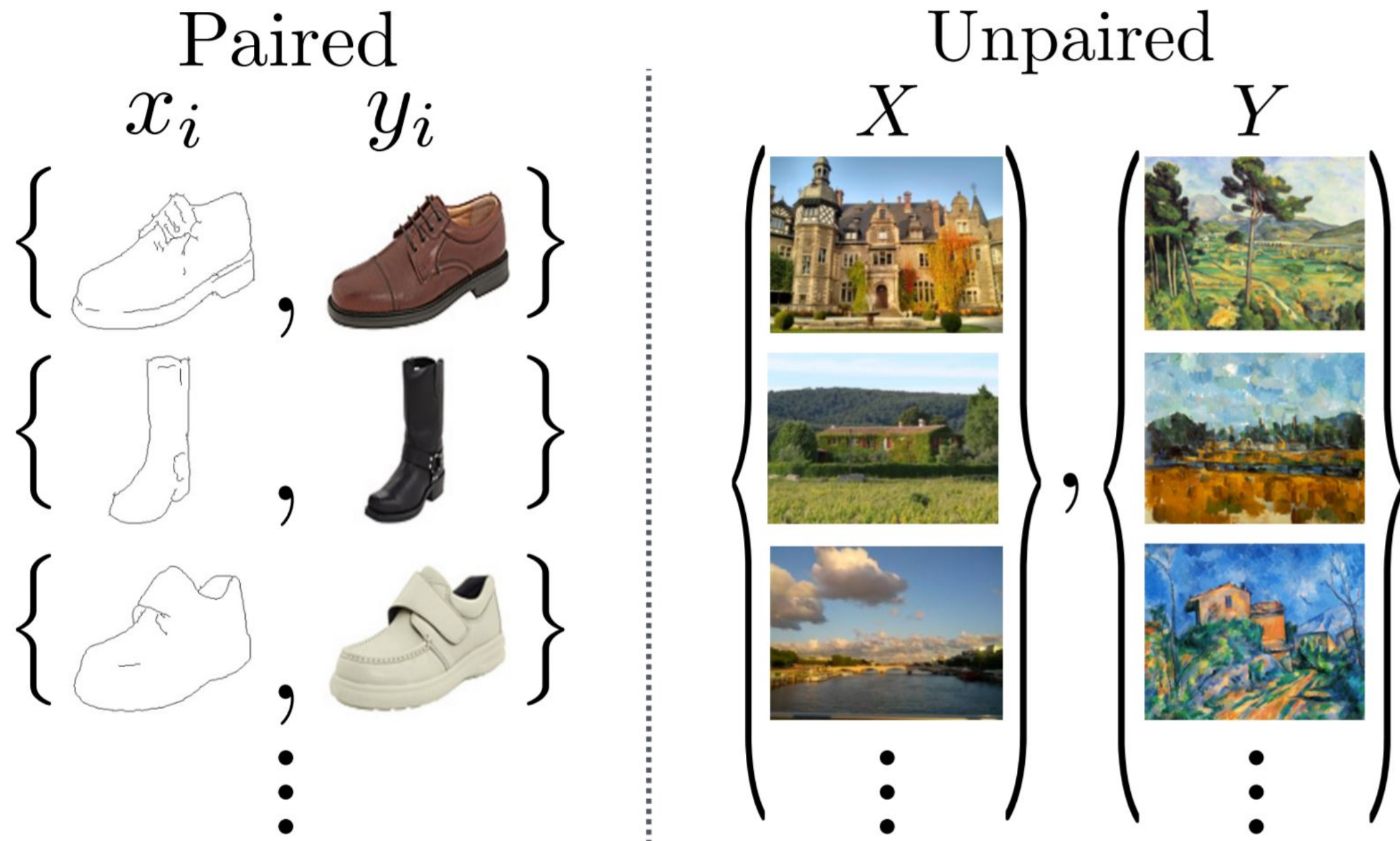
# GANs special edition

CGAN, pix2pix, cyclegan

# CGAN



# Pix2Pix

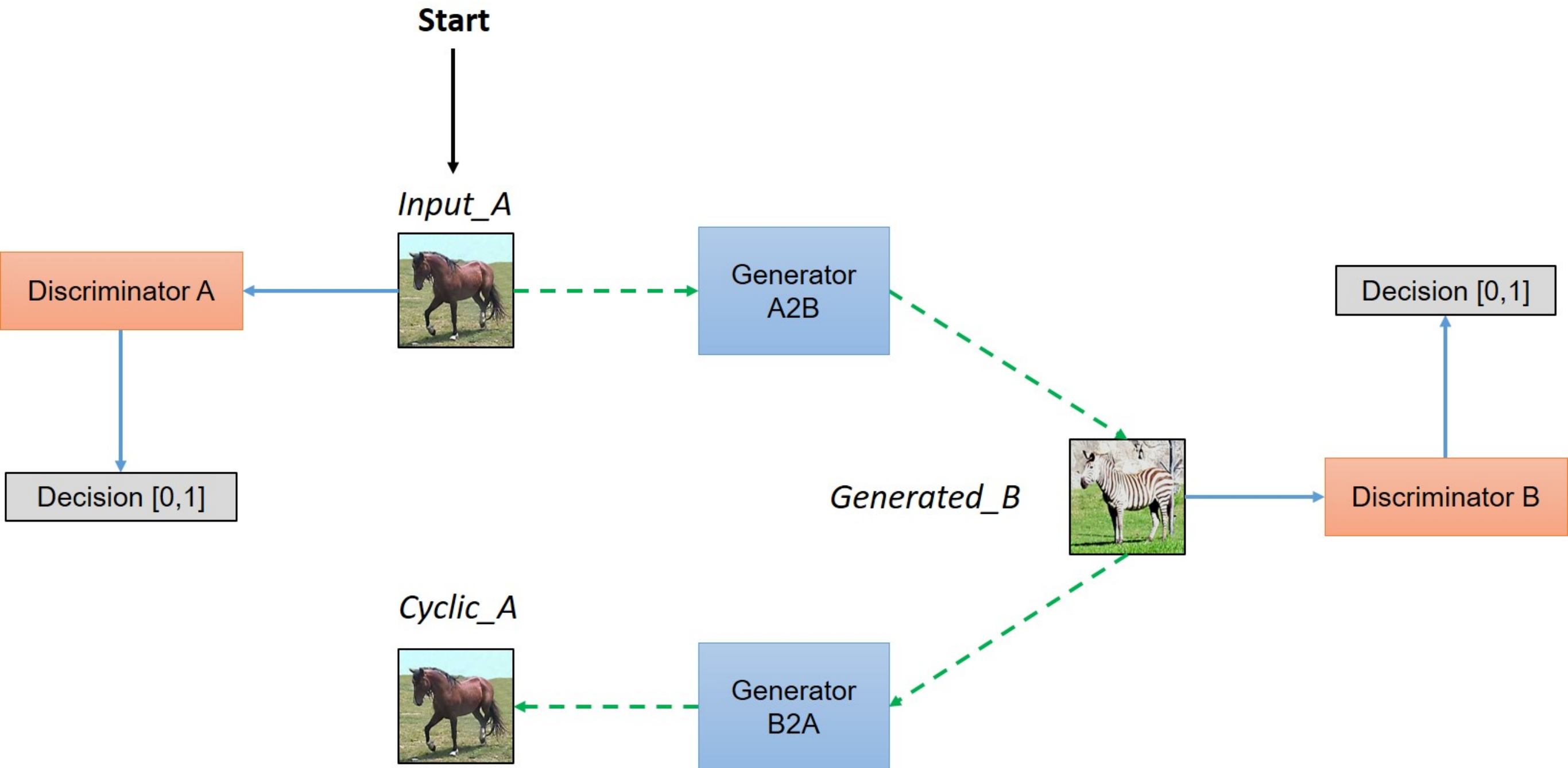


# Pix2Pix

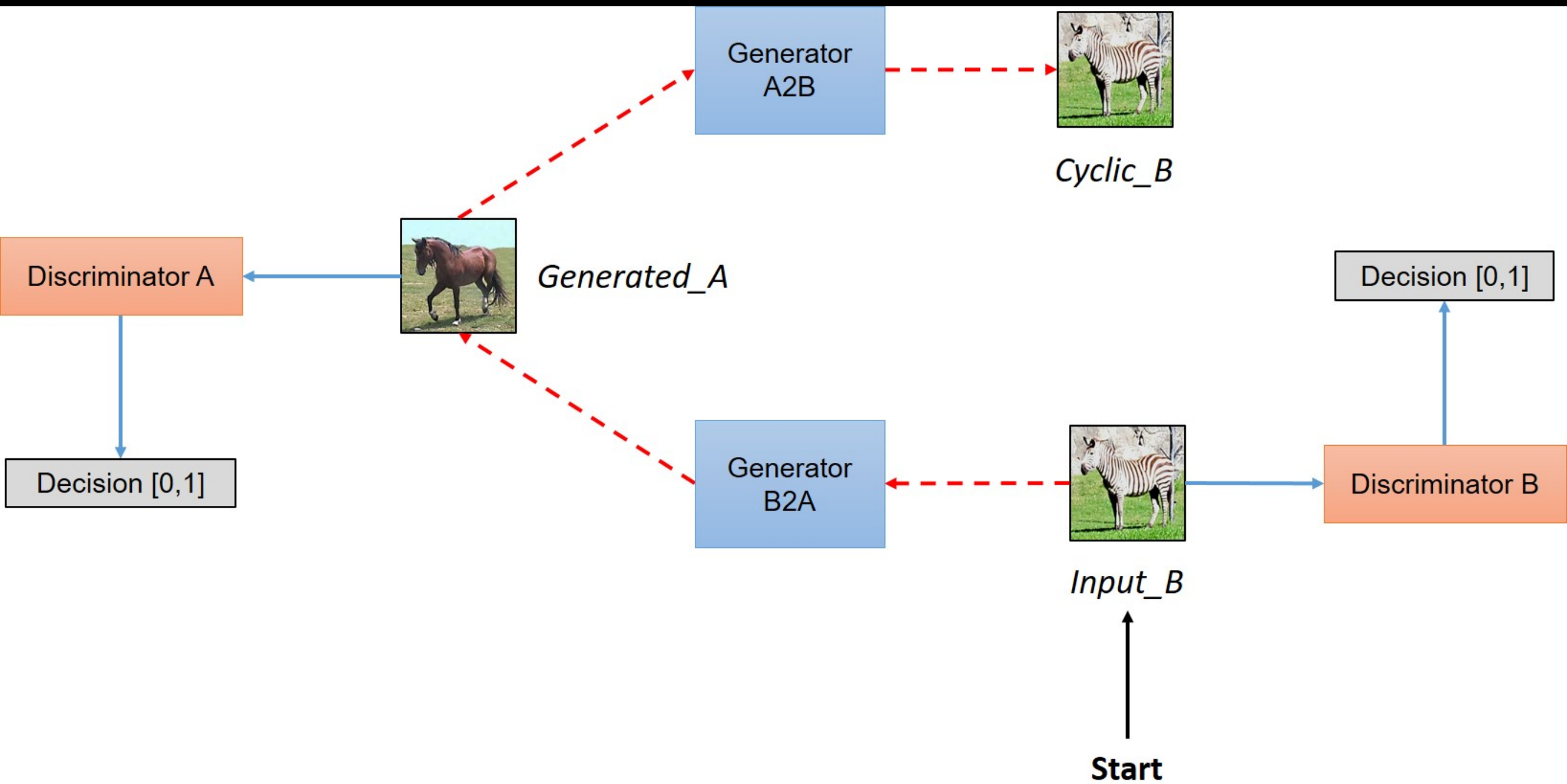
$$L_{GAN}(G, D) = E_y[\log D(y)] + E_{x,z}[\log(1 - D(G(x, z)))]$$

$$L_1(G) = E_{x,y,z}[||y - G(x, z)||_1]$$

# CycleGAN



# CycleGAN

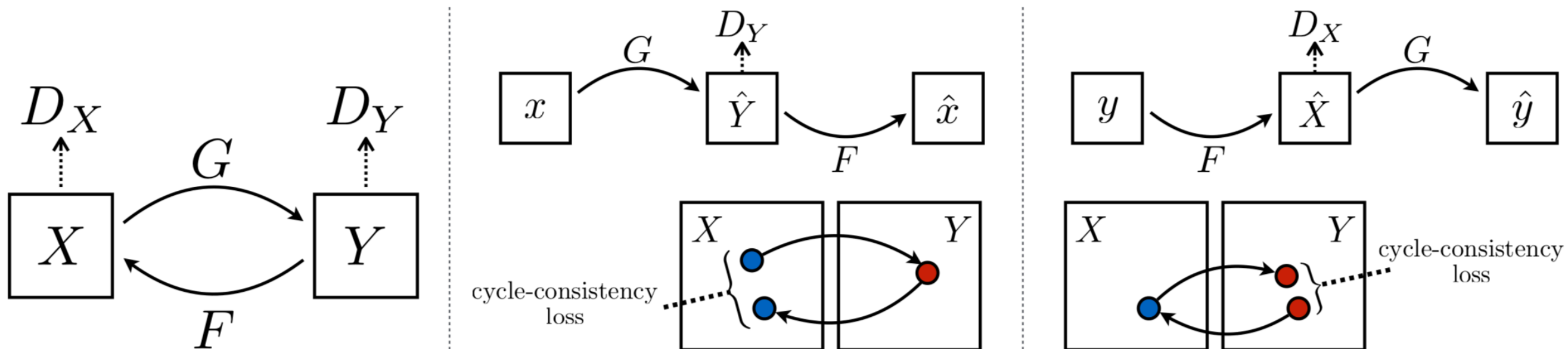


# CycleGAN

$$L_{GAN}(G, D_y, X, Y) = E_{y \sim p_{data}(y)}[\log D_y(y)] + E_{x \sim p_{data}(x)}[\log(1 - D_y(G(x)))]$$

$$L_{cyc}(G, F) = E_{y \sim p_{data}(y)}[||G(F(y)) - y||_1] + E_{x \sim p_{data}(x)}[||F(G(x)) - x||_1]$$

# CycleGAN





# CycleGAN

