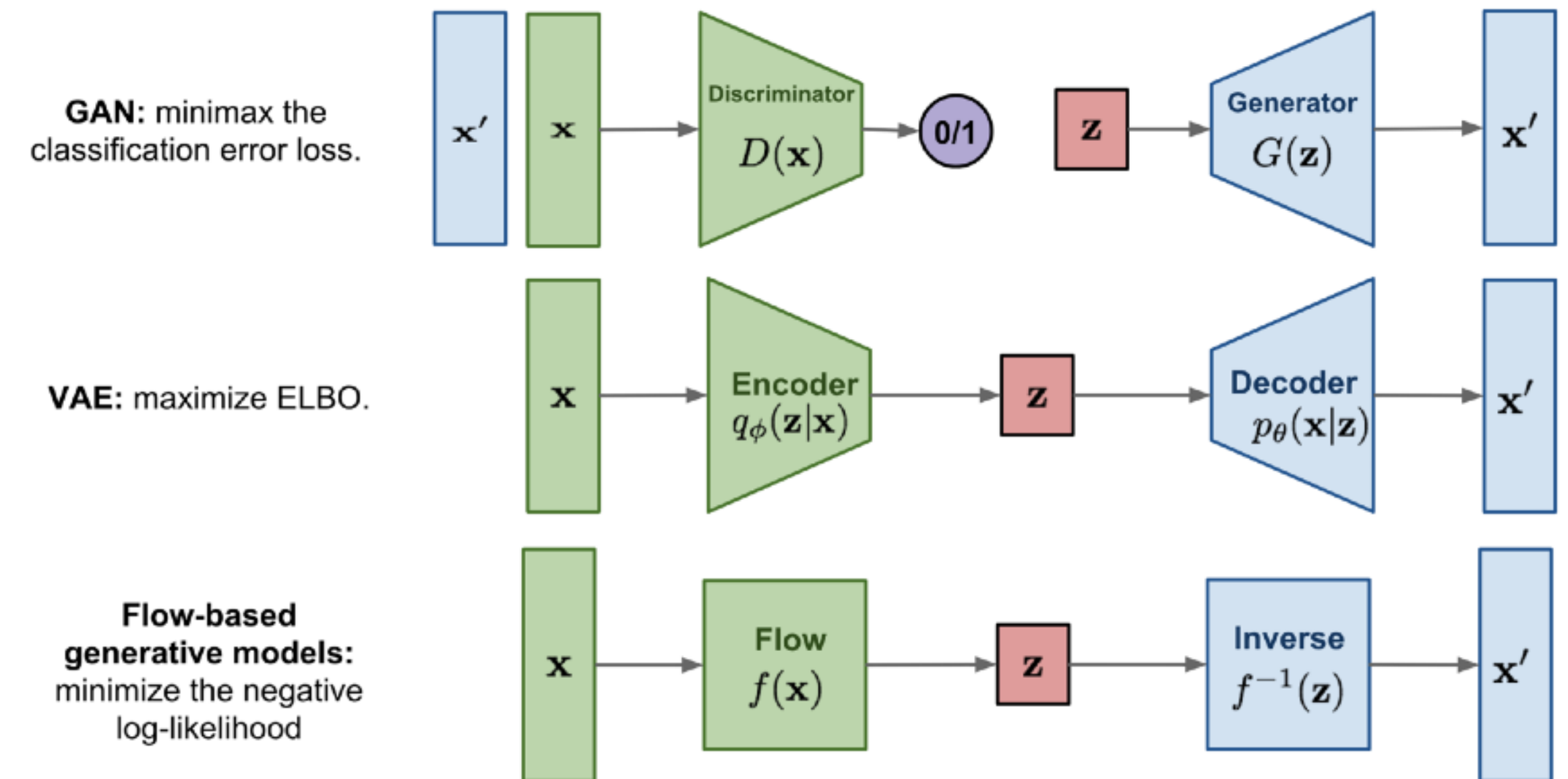


GAN / VAE / Flow~

다른 모델과 비교(GAN, VAE)

- GAN
= 생성자(generator) + 구분자(discriminator)
- VAE
AE의 Gaussian 버전정도로 이해
- Flow-based generative models



Background

(Linear Algebra, Jacobian Matrix)

- Linear Transformation / Affine Transformation
Affine \sim = Linear \sim + shifting(translation)

- change of variable

$$\frac{dz}{dt} = \frac{\partial z}{\partial x} \frac{dx}{dt} + \frac{\partial z}{\partial y} \frac{dy}{dt}$$



$$dz = \frac{\partial z}{\partial x} dx + \frac{\partial z}{\partial y} dy$$

- Jacobian matrix
비선형변환 => 선형변환