

## 7. 图像生成模型

笔记本： 【课】原理-李宏毅 deep learning

创建时间： 2023/4/25 13:54

更新时间： 2023/4/25 15:32

作者： 1256876216@qq.com

URL: [https://www.baidu.com/s?ie=utf-8&f=3&rsv\\_bp=1&tn=baidu&wd=nomal...](https://www.baidu.com/s?ie=utf-8&f=3&rsv_bp=1&tn=baidu&wd=nomal...)

# 一、常见图像生成模型

Variational Auto-encoder (VAE)

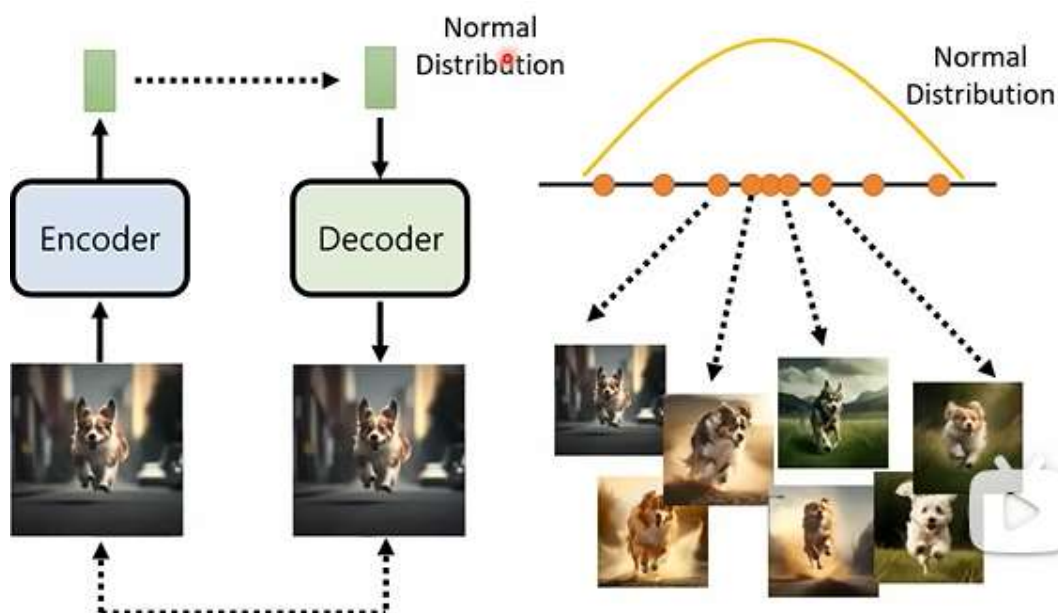
Flow-based Generative Model

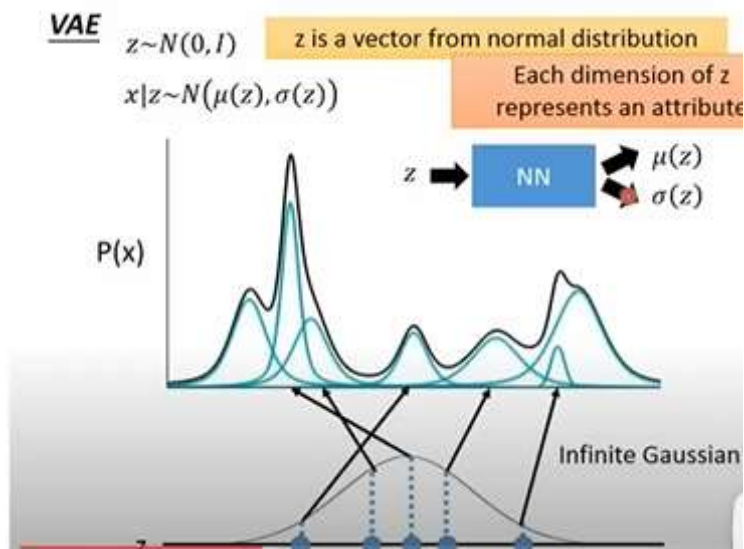
Diffusion Model

Generative Adversarial Network (GAN)

## 1. vae

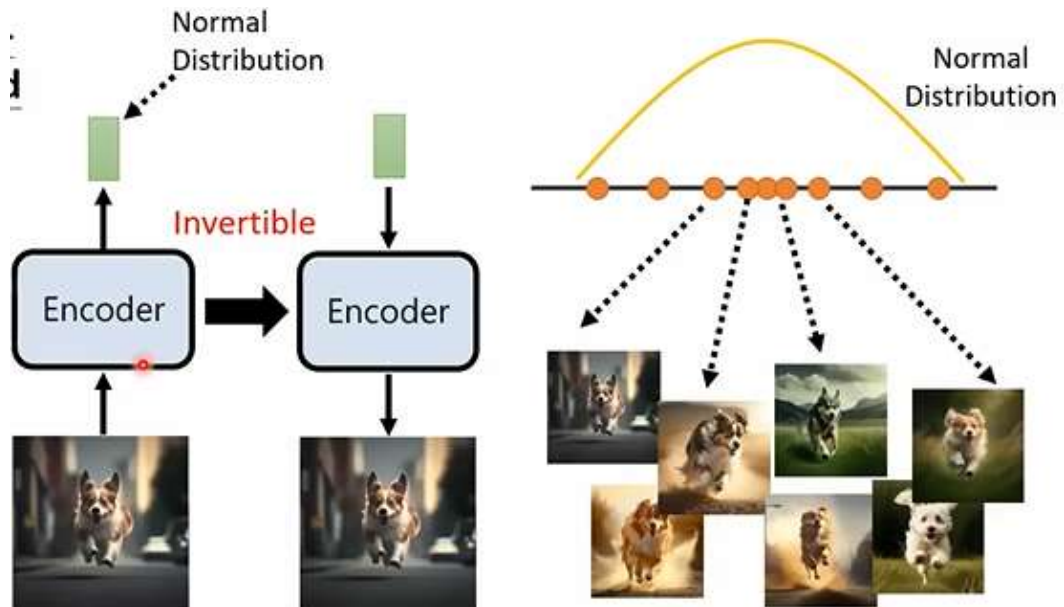
normal distribution: 正态分布



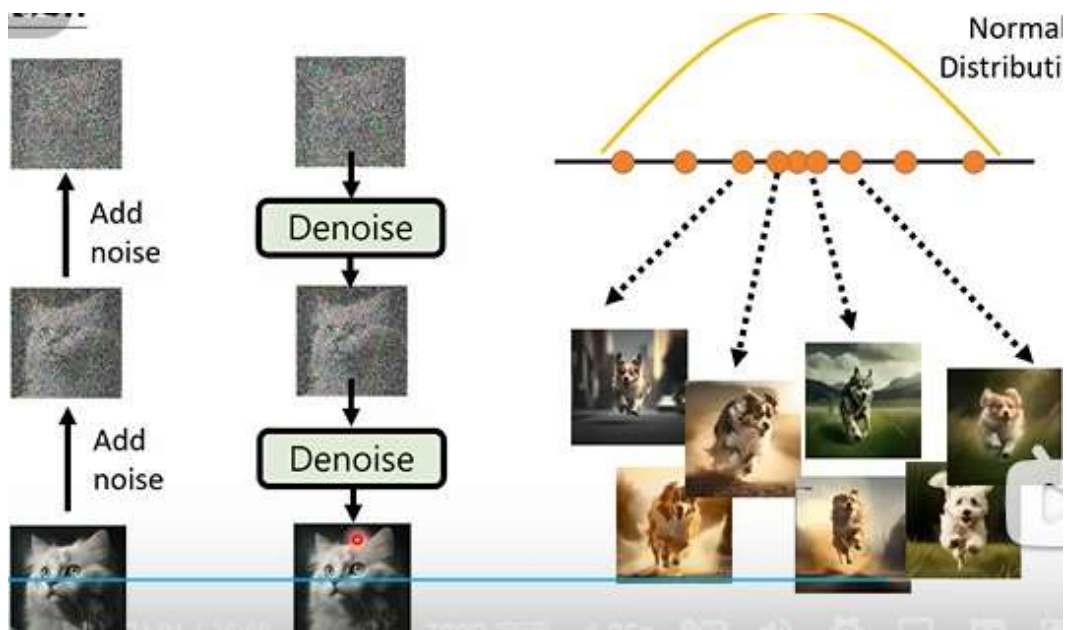


## 2. Flow-based

invertible: 可逆的



## 3. Diffusion Model

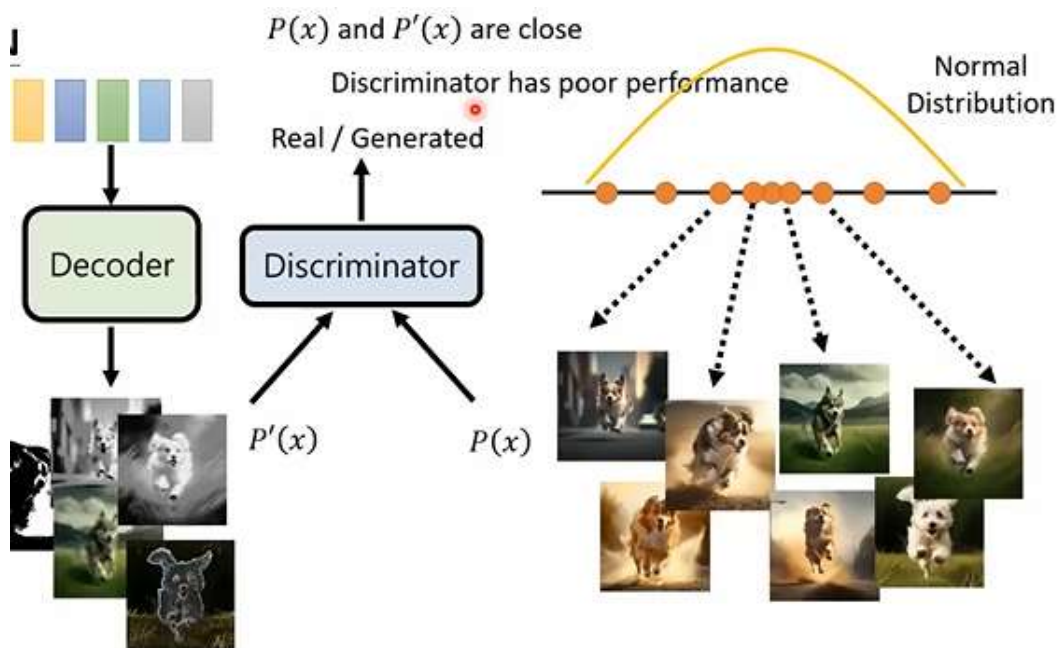


## 4. GAN

generative Adversarial Network

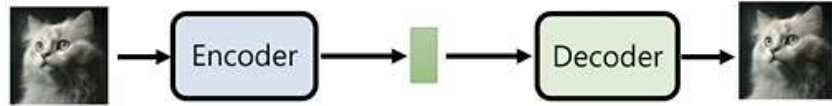
discriminator: 鉴别器

调整decoder参数想办法让discrimination难分辨出来【生成的图片】与真实图片

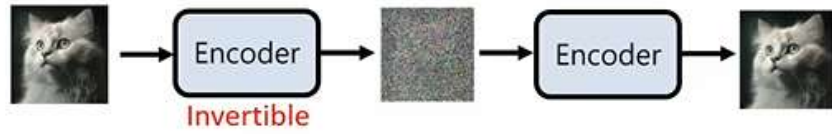


## 5. 对比与组合

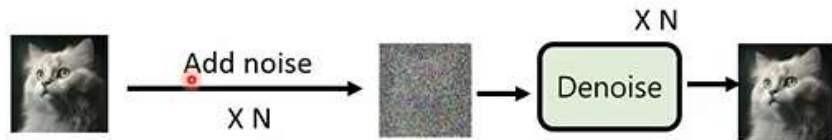
VAE



Flow-based



Diffusion



GAN可以与前三个模型组合，加到现有的模型上