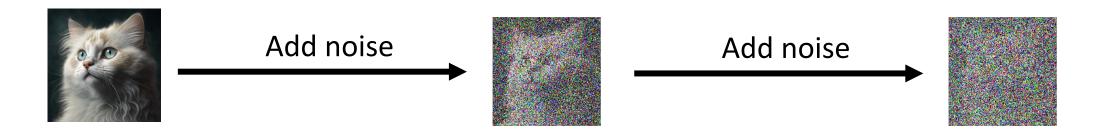
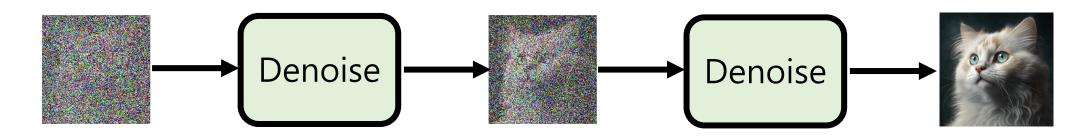


# 基本概念

#### **Forward Process**

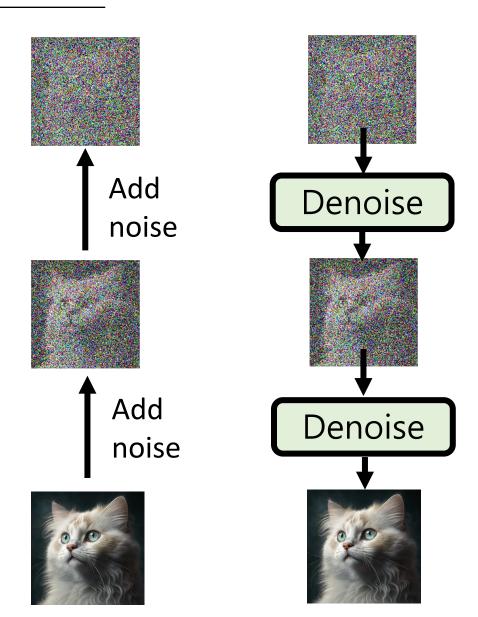


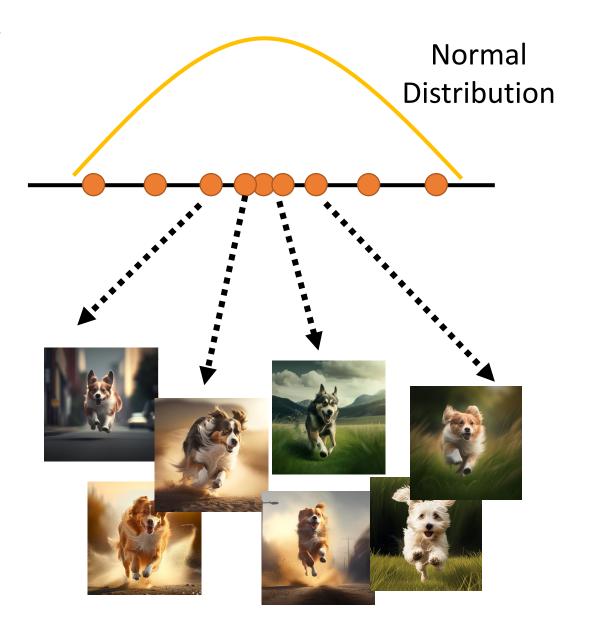
#### **Reverse Process**



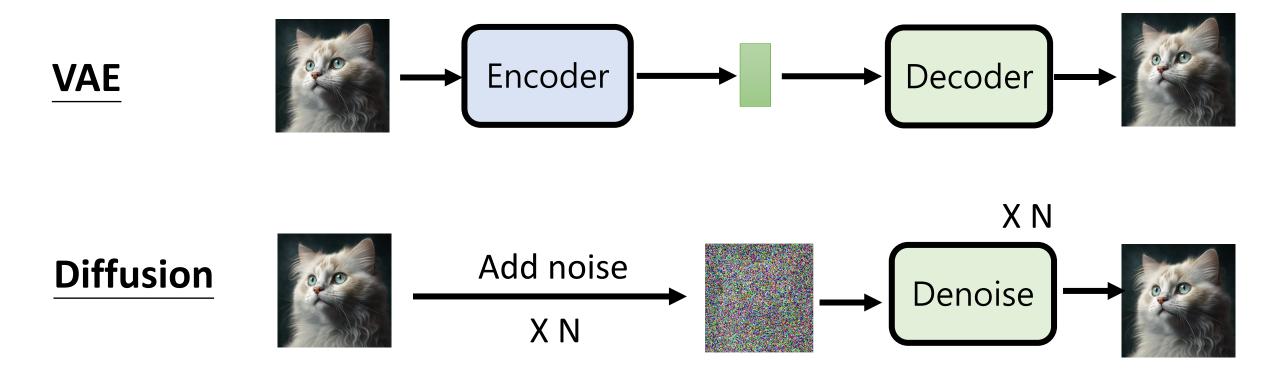
#### **Diffusion**

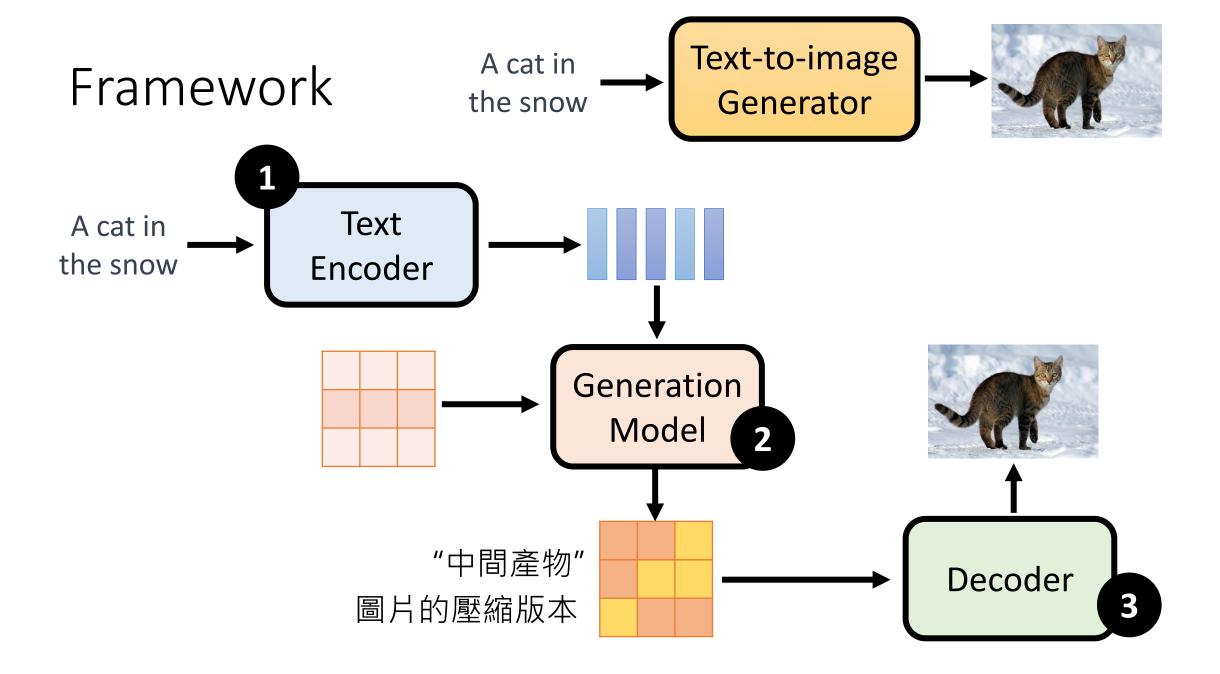
### 下一段課程會再細講





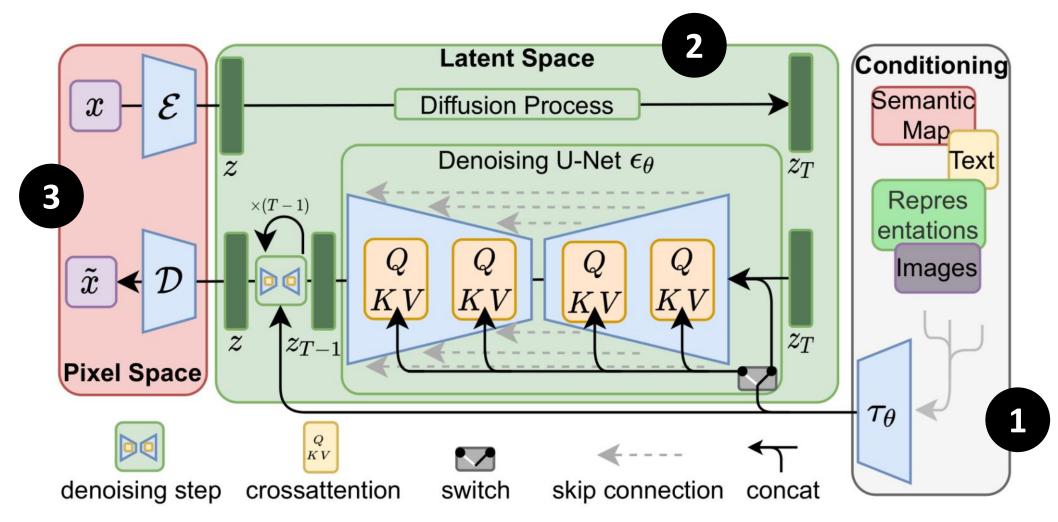
### VAE vs. Diffusion Model

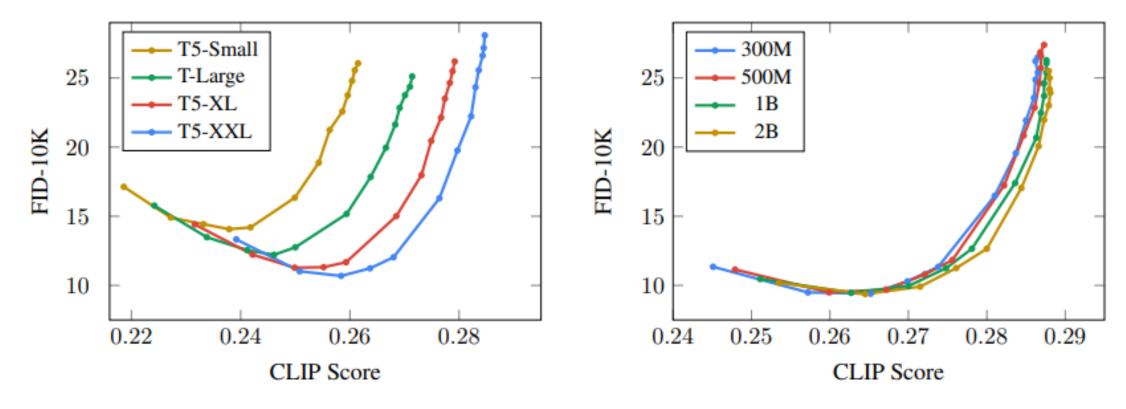




## Stable Diffusion

https://arxiv.org/abs/2112.10752





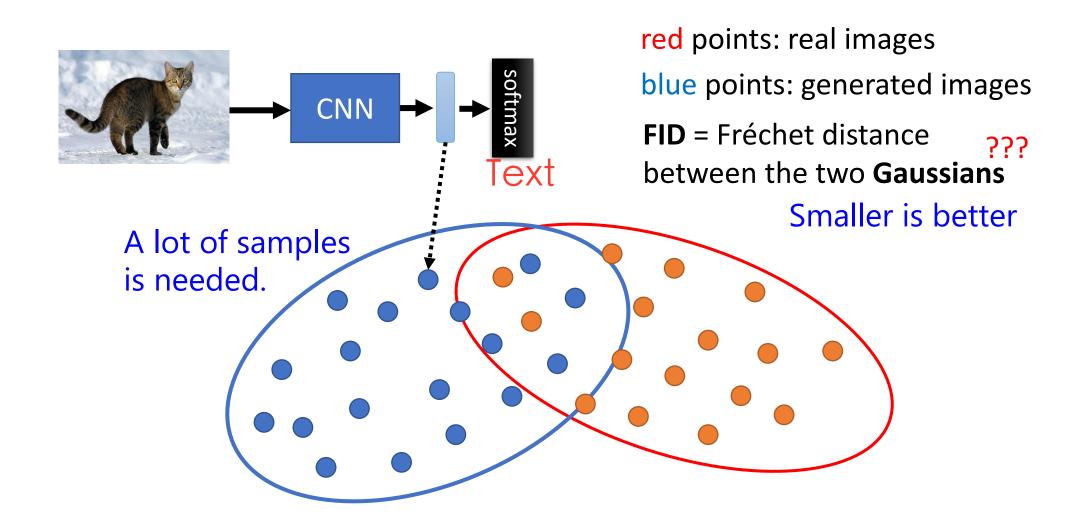
(a) Impact of encoder size.

(b) Impact of U-Net size.

https://arxiv.org/abs/2205.11487

## Fréchet Inception Distance (FID)

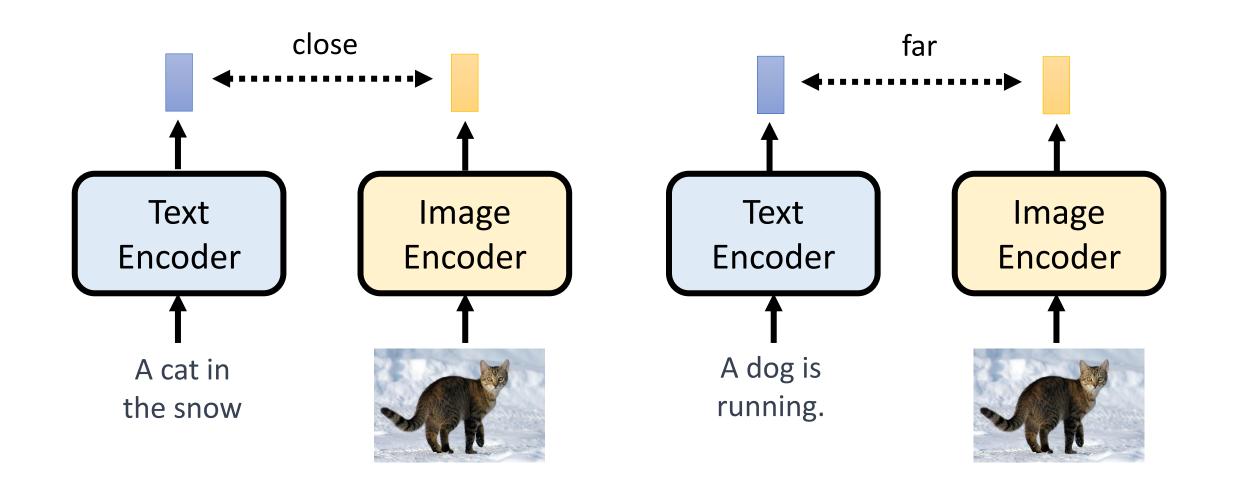
https://arxiv.org/abs/1706.08500

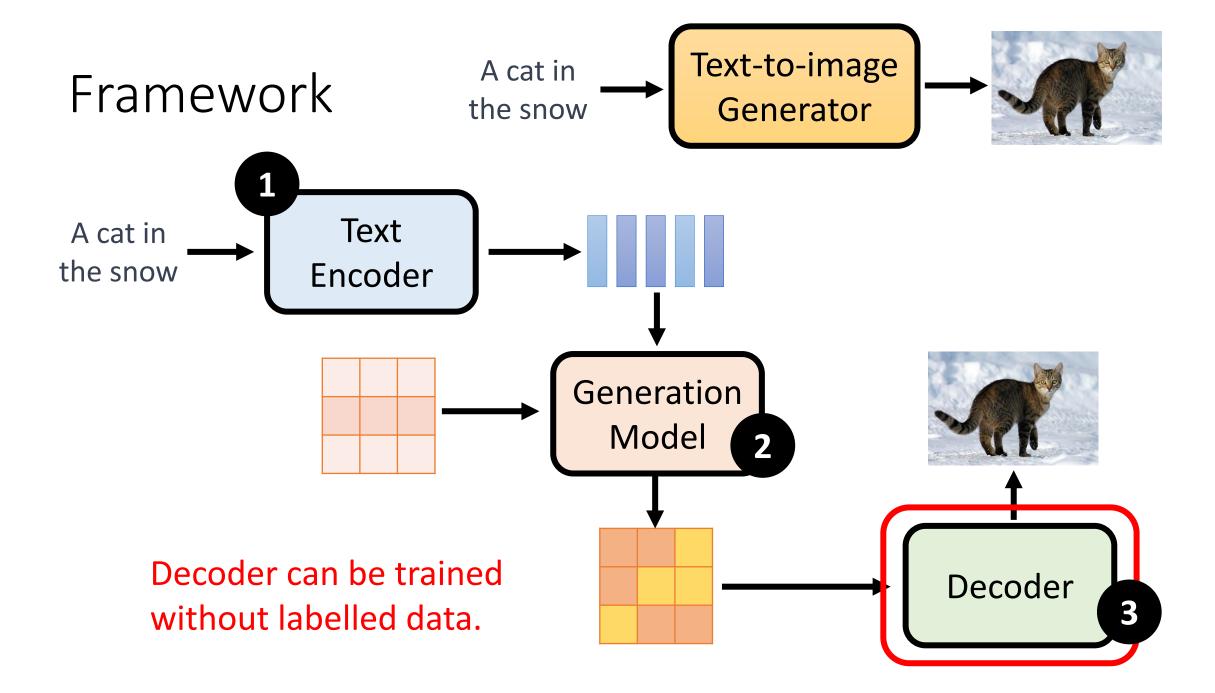


# Contrastive Language-Image Pre-Training

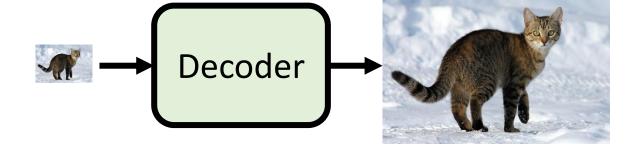
(CLP) https://arxiv.org/abs/2103.00020

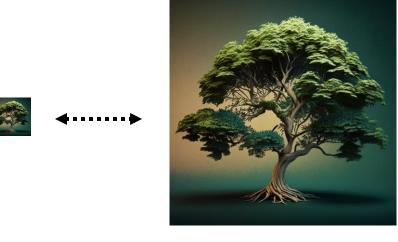
400 million image-text pairs

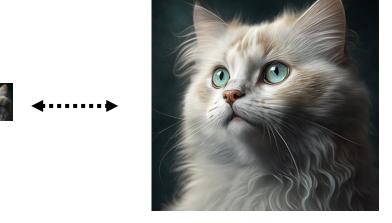




# 「中間產物」為小圖 → Decoder













(Images are generated by Midjourney)

# 「中間產物」為「Latent Representation」

