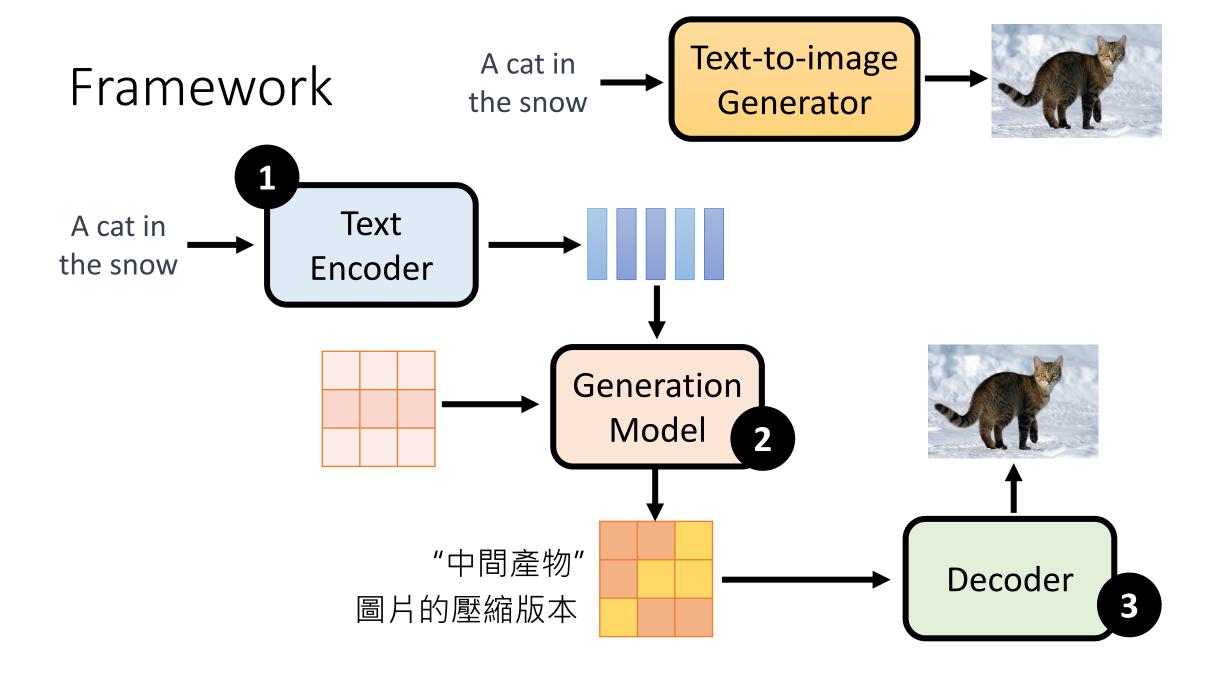
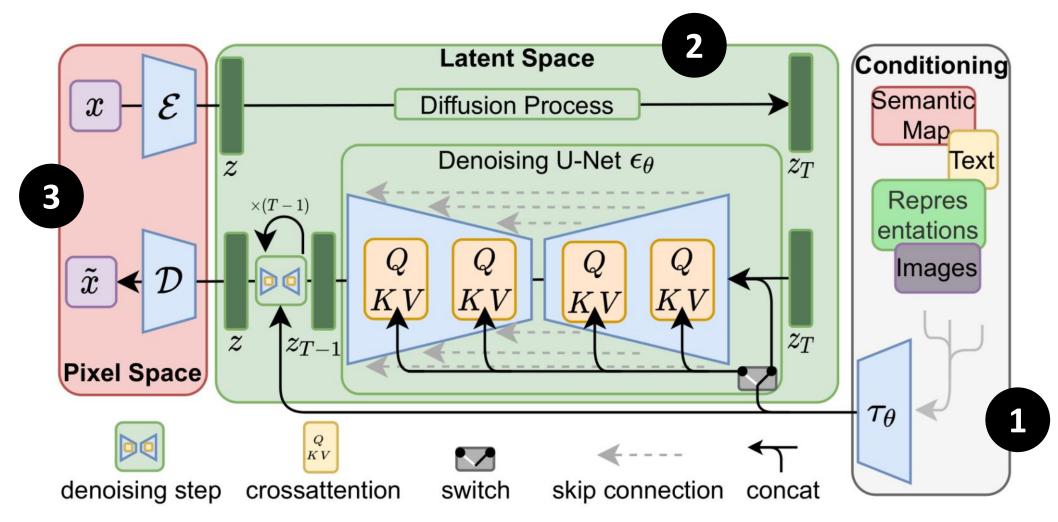
Stable Diffusion





Stable Diffusion

https://arxiv.org/abs/2112.10752



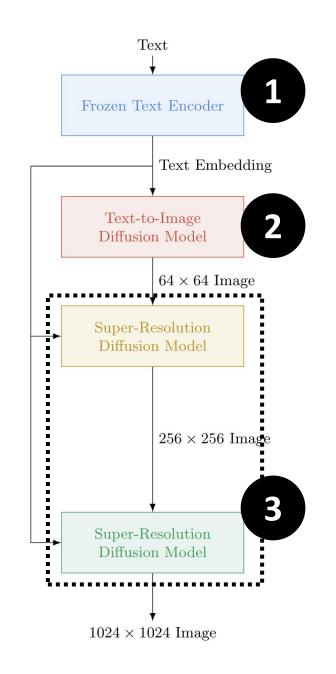
DALL-E series

https://arxiv.org/abs/2204.06125 https://arxiv.org/abs/2102.12092 CLIP objective img encoder "a corgi playing a flame text encoder throwing trumpet" Autoregressive Diffusion decoder prior

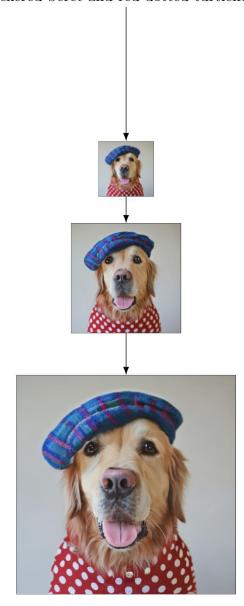
Imagen

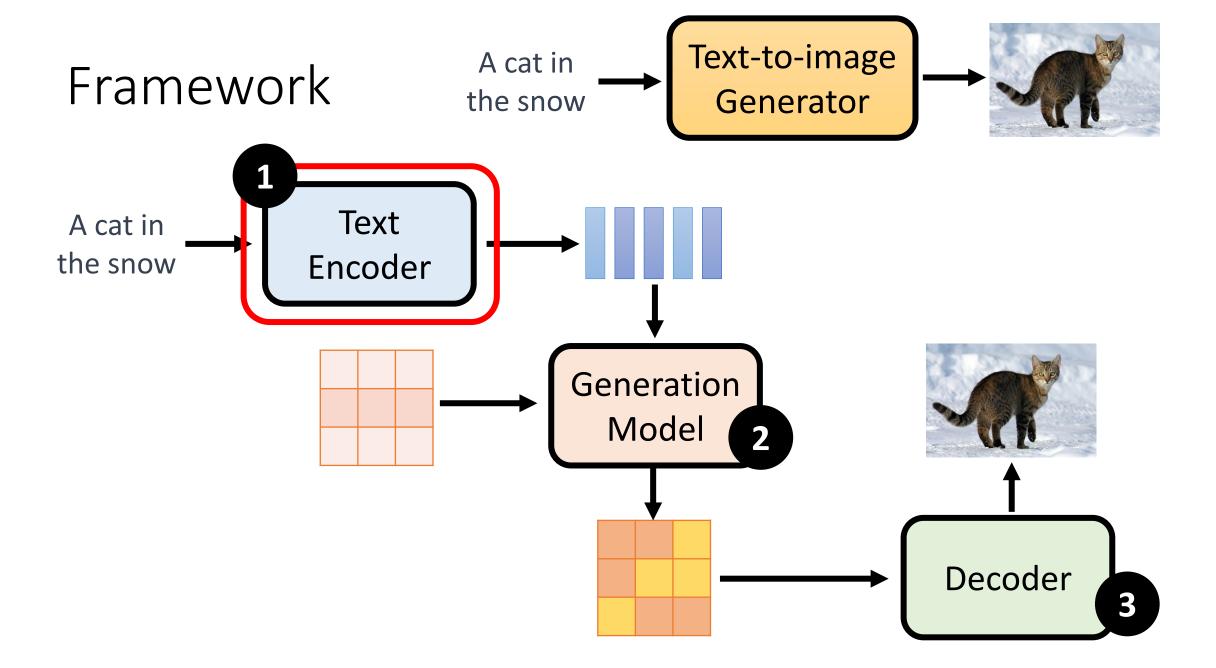
https://imagen.research.google/

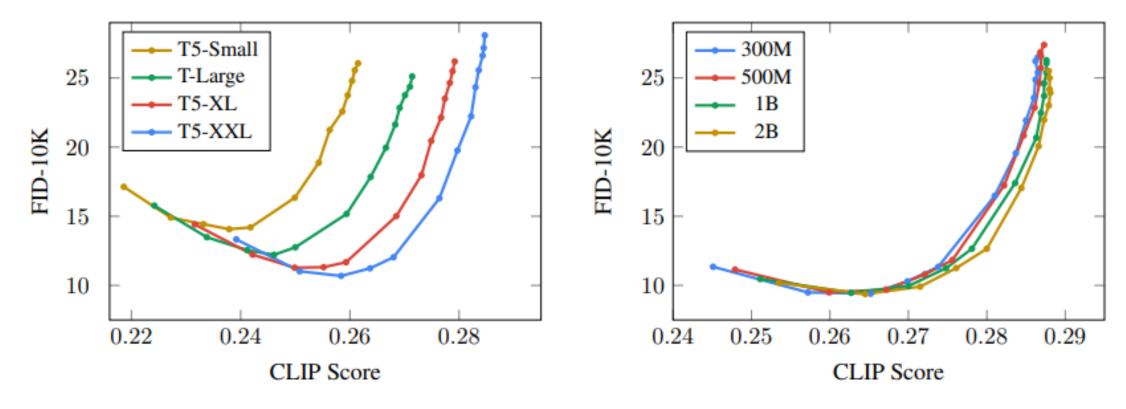
https://arxiv.org/abs/2205.11487



"A Golden Retriever dog wearing a blue checkered beret and red dotted turtleneck."







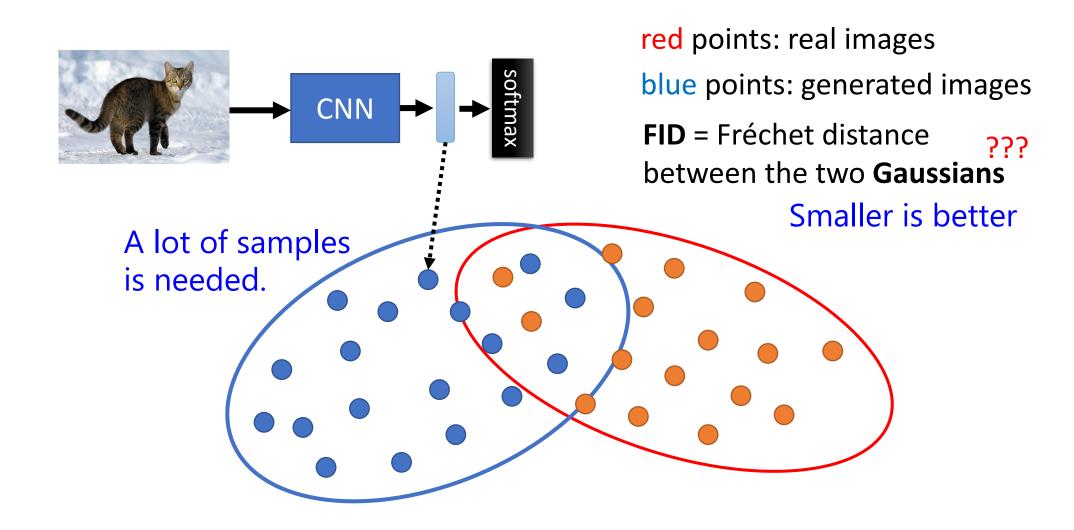
(a) Impact of encoder size.

(b) Impact of U-Net size.

https://arxiv.org/abs/2205.11487

Fréchet Inception Distance (FID)

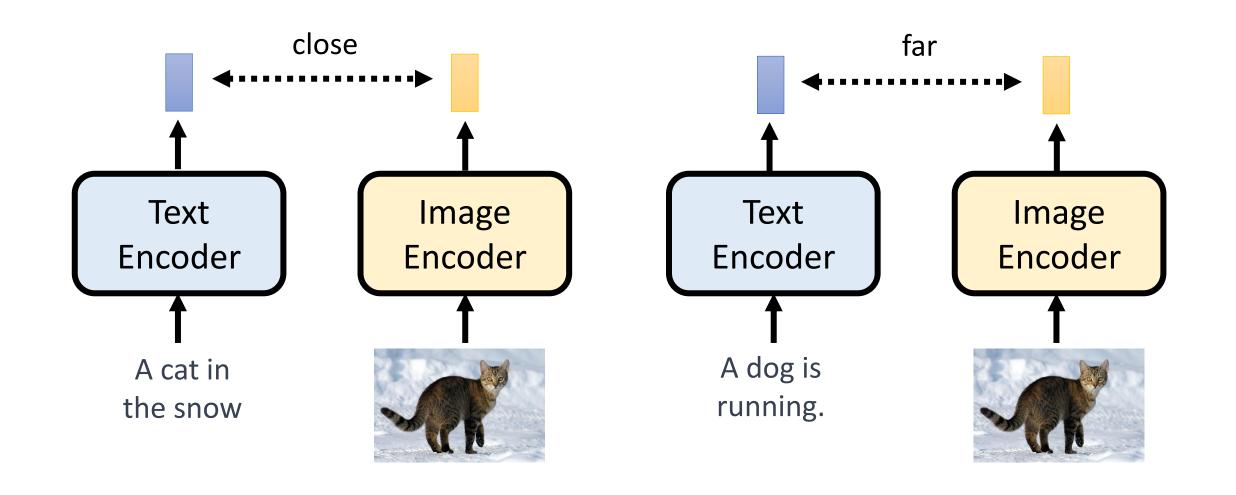
https://arxiv.org/abs/1706.08500

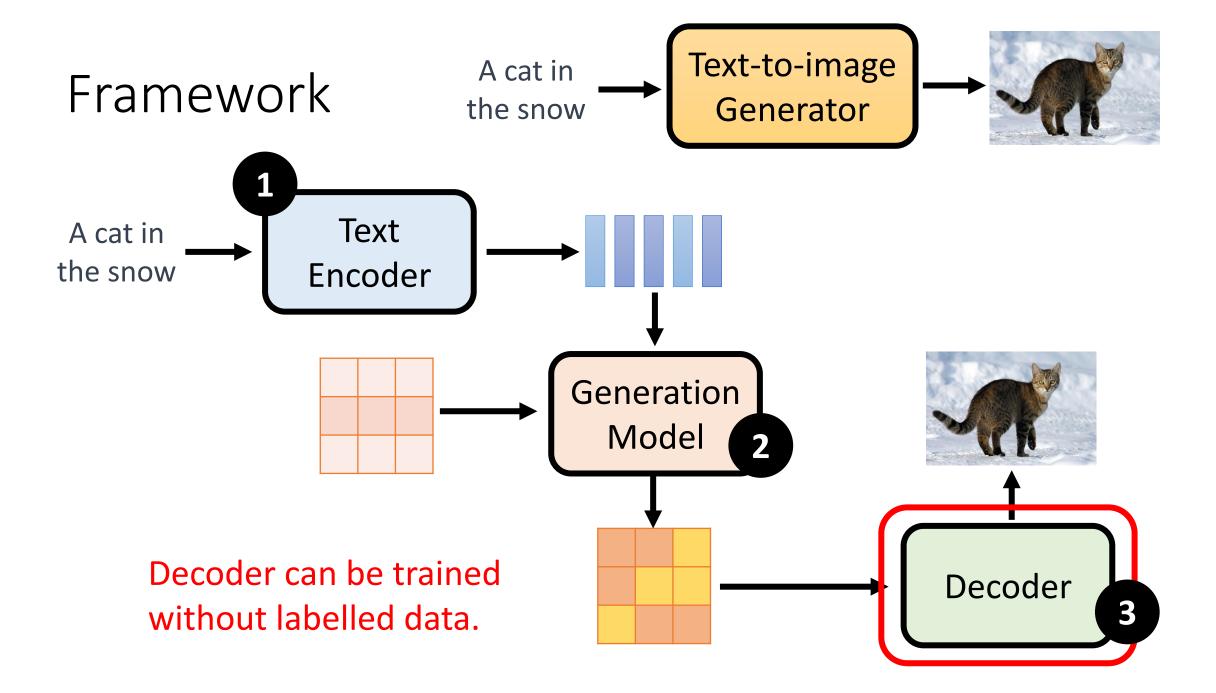


Contrastive Language-Image Pre-Training

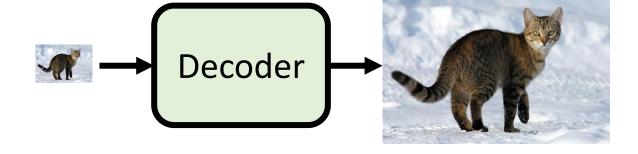
(CLP) https://arxiv.org/abs/2103.00020

400 million image-text pairs

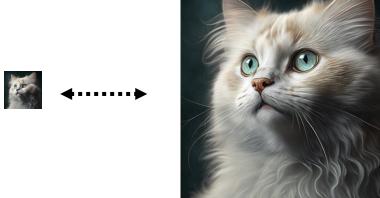




「中間產物」為小圖 — Decoder







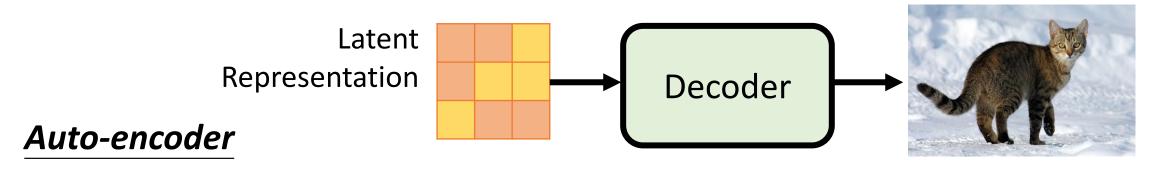


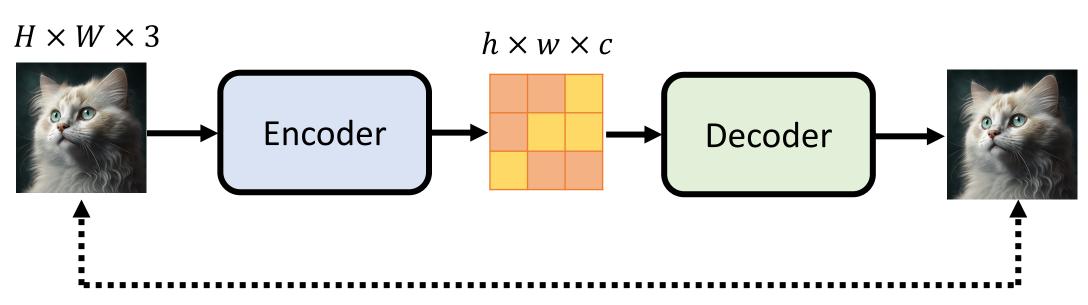


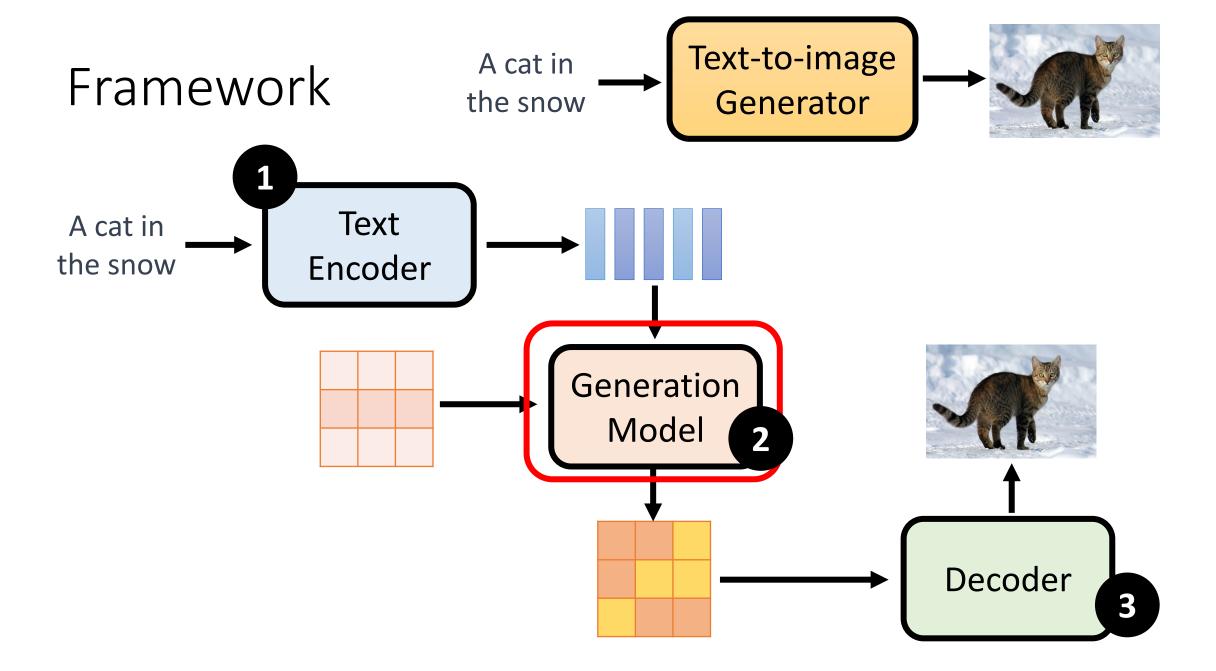


(Images are generated by Midjourney)

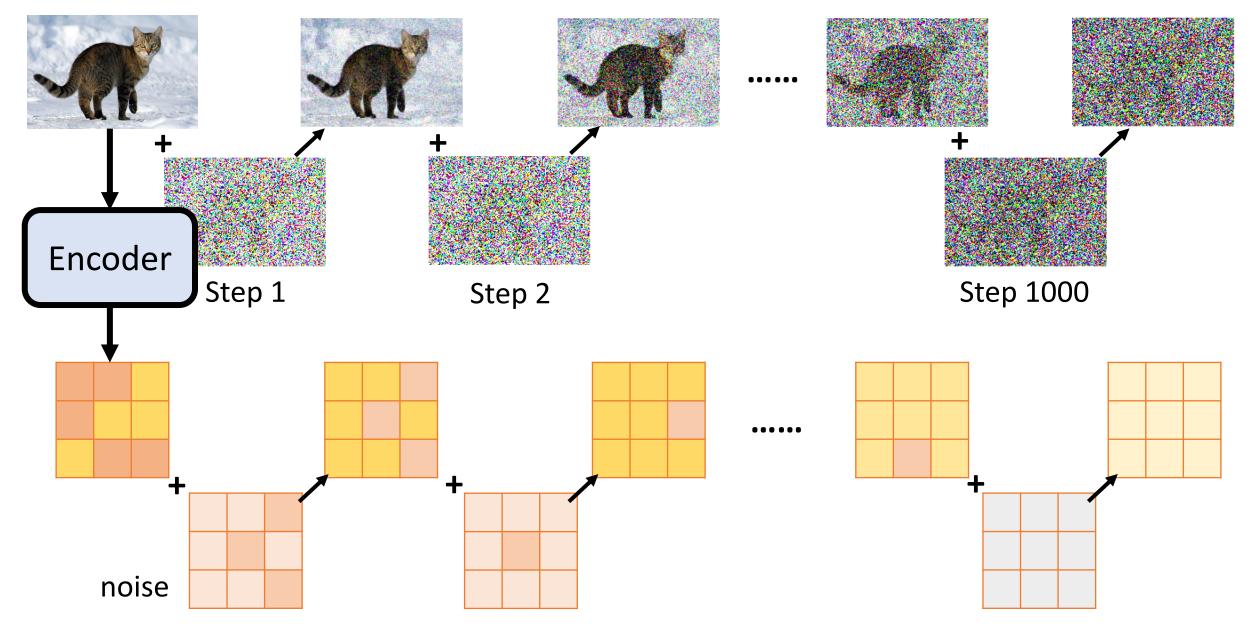
「中間產物」為「Latent Representation」

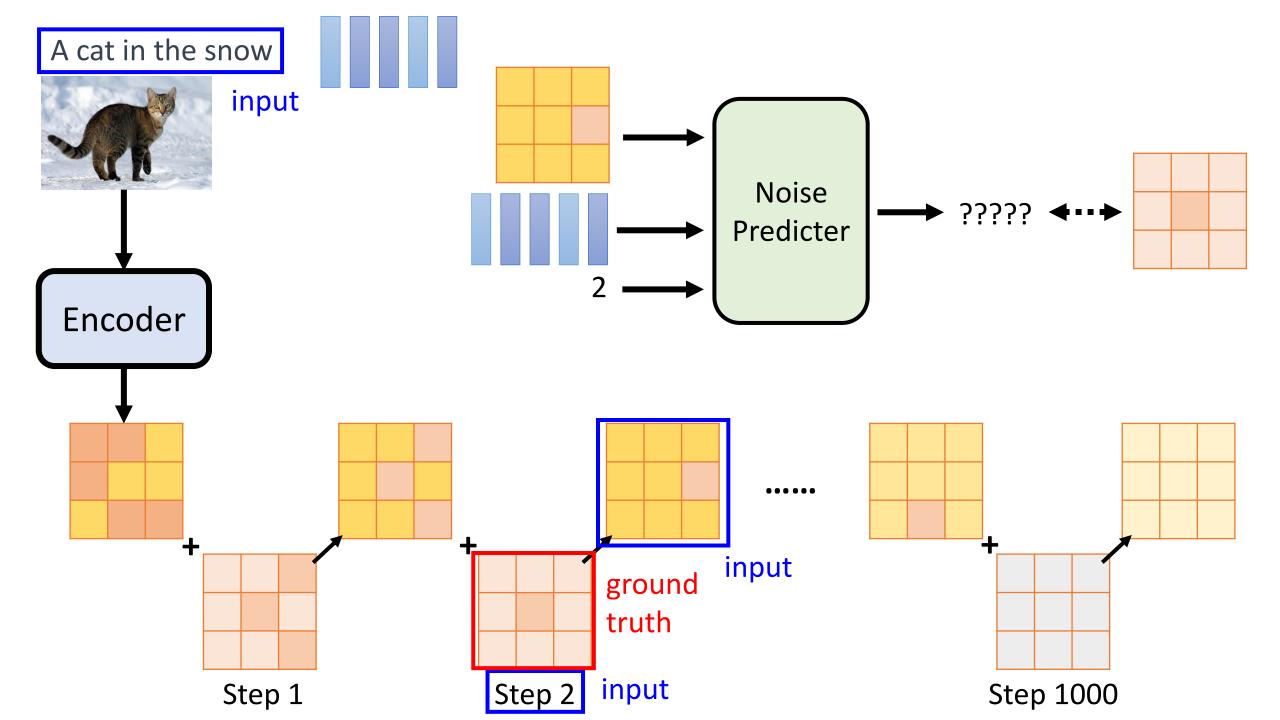


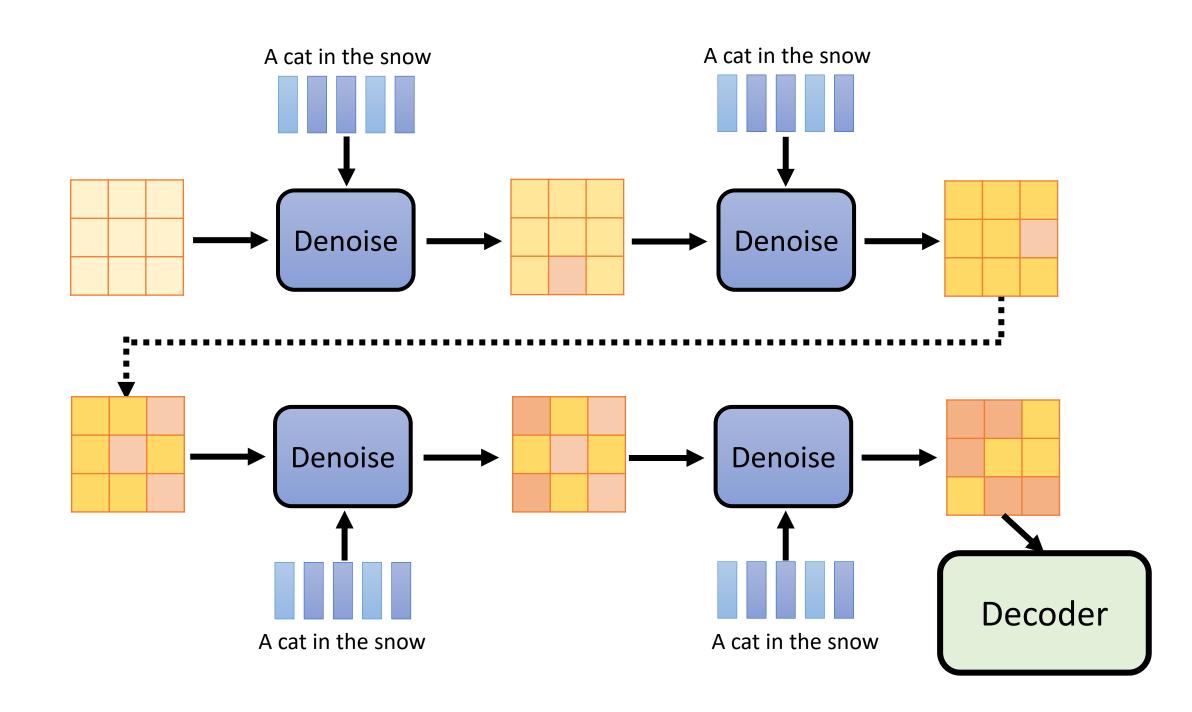




A cat in the snow







Stable Diffusion

https://arxiv.org/abs/2112.10752

