Info@Lèze

Présente

Comfy Week !

“A comfortable week with ComfyUI.”

“Une semaine confortable avec ComfyUI.”


Z3 523

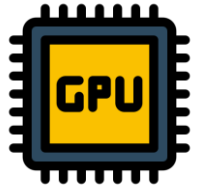
What is stable diffusion?

- Stable Diffusion is a text-to-image deep learning model

An astronaut riding a horse

- Code and model weights have been released publicly

- Can run on a GPU with 4 GB VRAM (<500$ hardware)



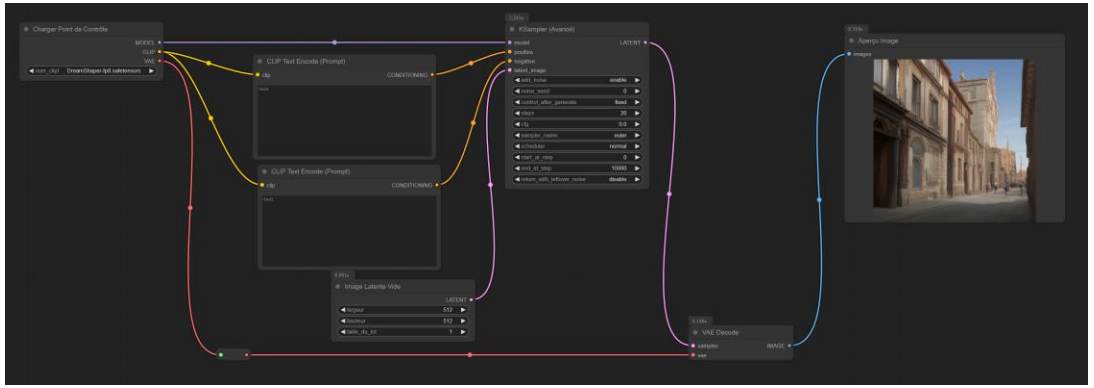
Stable diffusion-based projects

- Fine-tuning *(e.g.: Dream Shaper, Epic Realism, Realistic Vision, …)*
- Control Nets *(with open pose, canny, depth maps, …)*
- IP Adapter *(Image Prompt Adapter)*
- LoRA modifiers *(Low-Rank Adaptation)*
- Face ID
- PullD

- **ComfyUI**

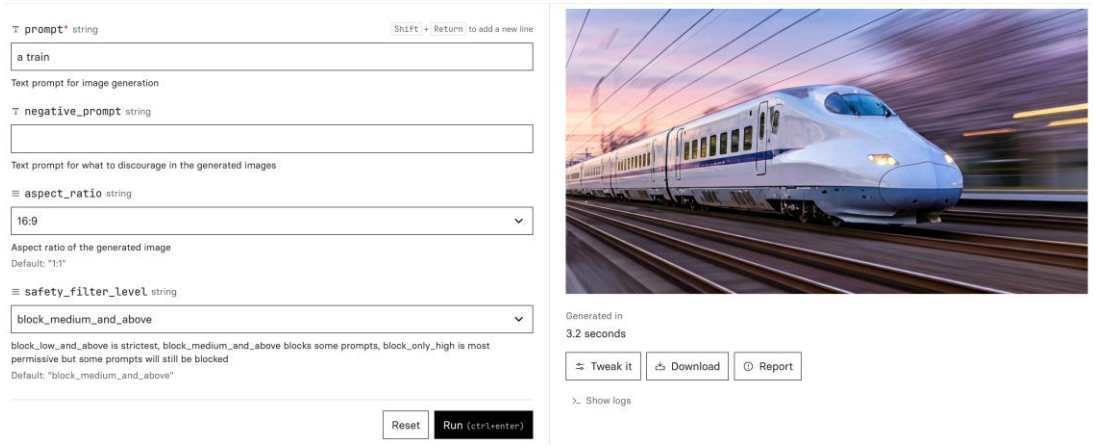
What is ComfyUI?

ComfyUI



Hard-but-powerful nodal interface

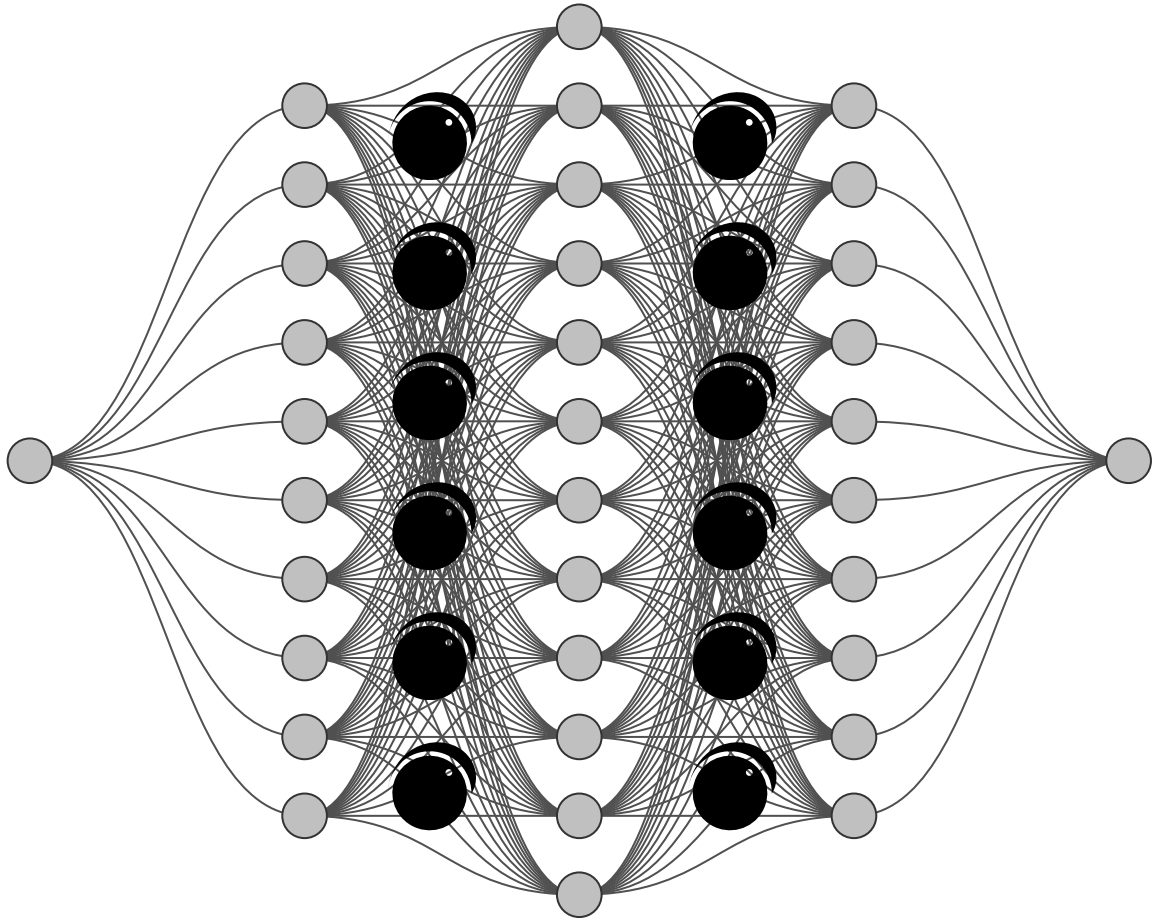
Others (Automatic1111, etc...)



Easy-to-use "click-buttons" web interface

What is a deep learning model?

“Un chat”

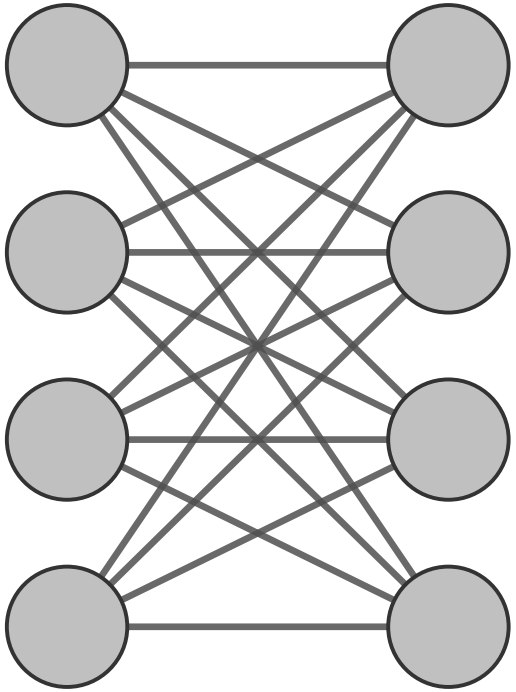


Generation step by step

Prompt: **“a cat”**

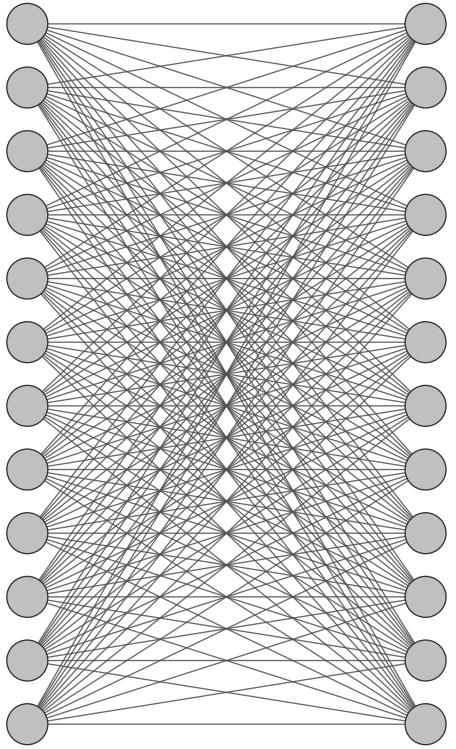
Size of deep learning models

Small network



+ Low *compute cost*
- Low *“intelligence”*

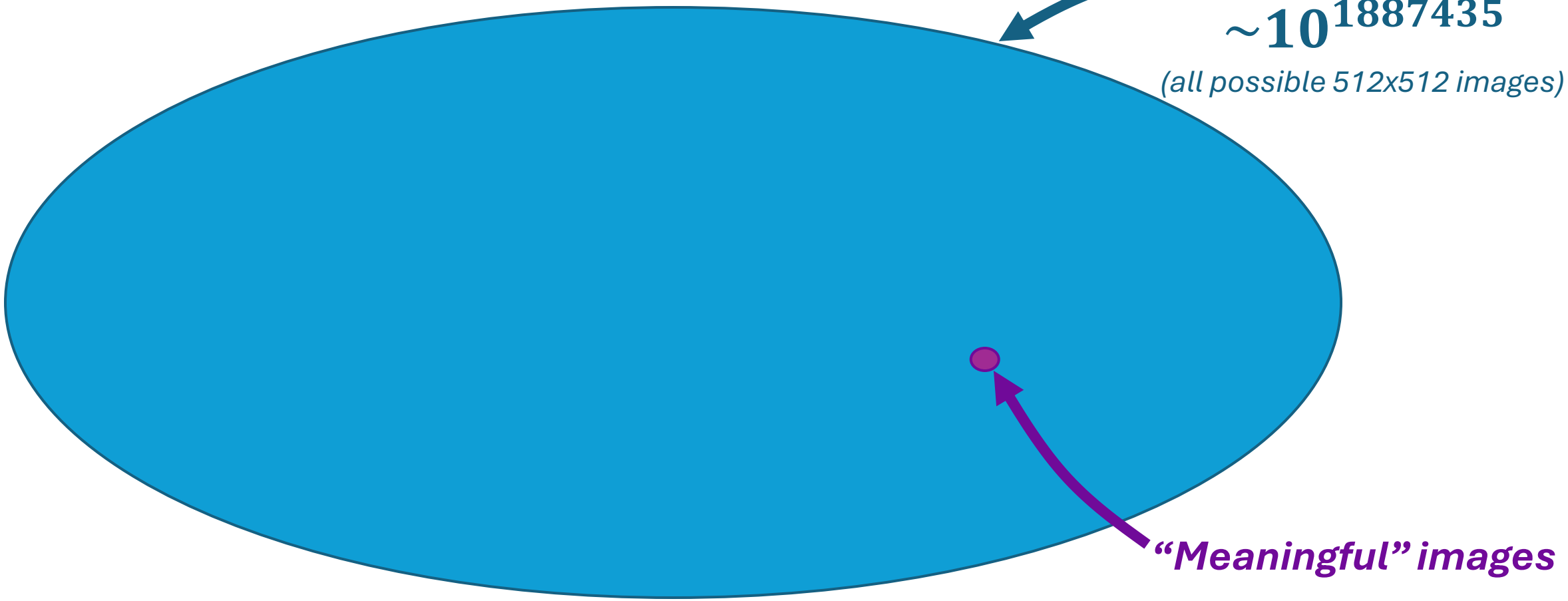
Big network



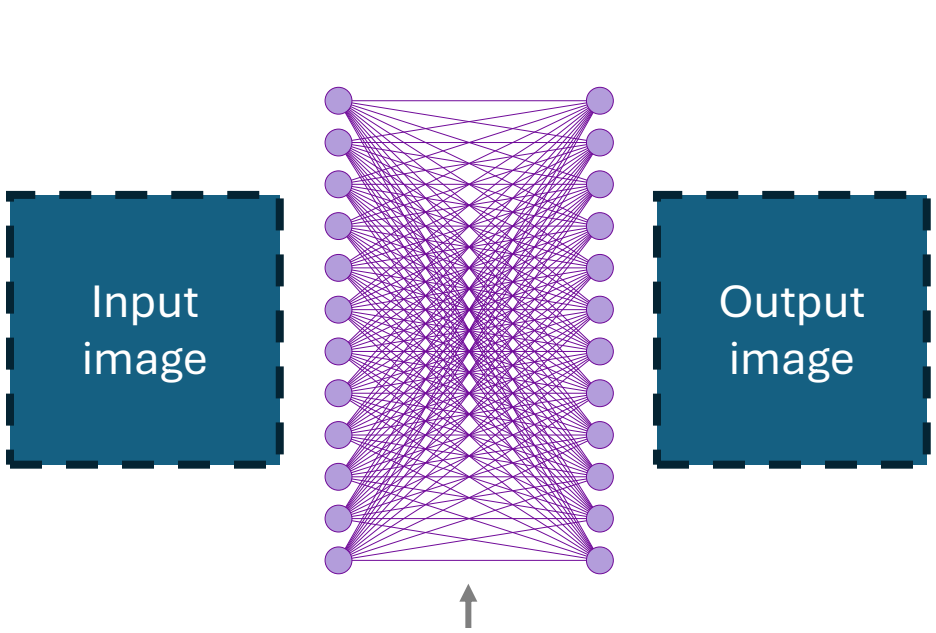
+ High *“intelligence”*
- High *compute cost*

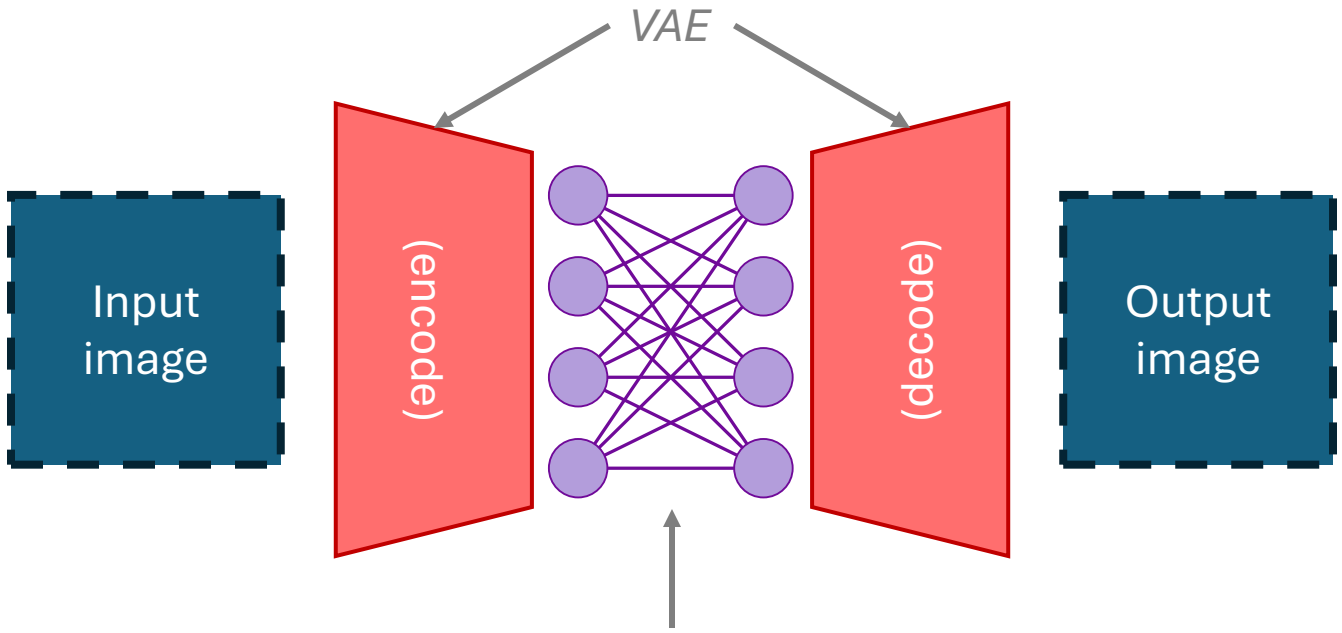
Random images vs Meaningful images

Space of images

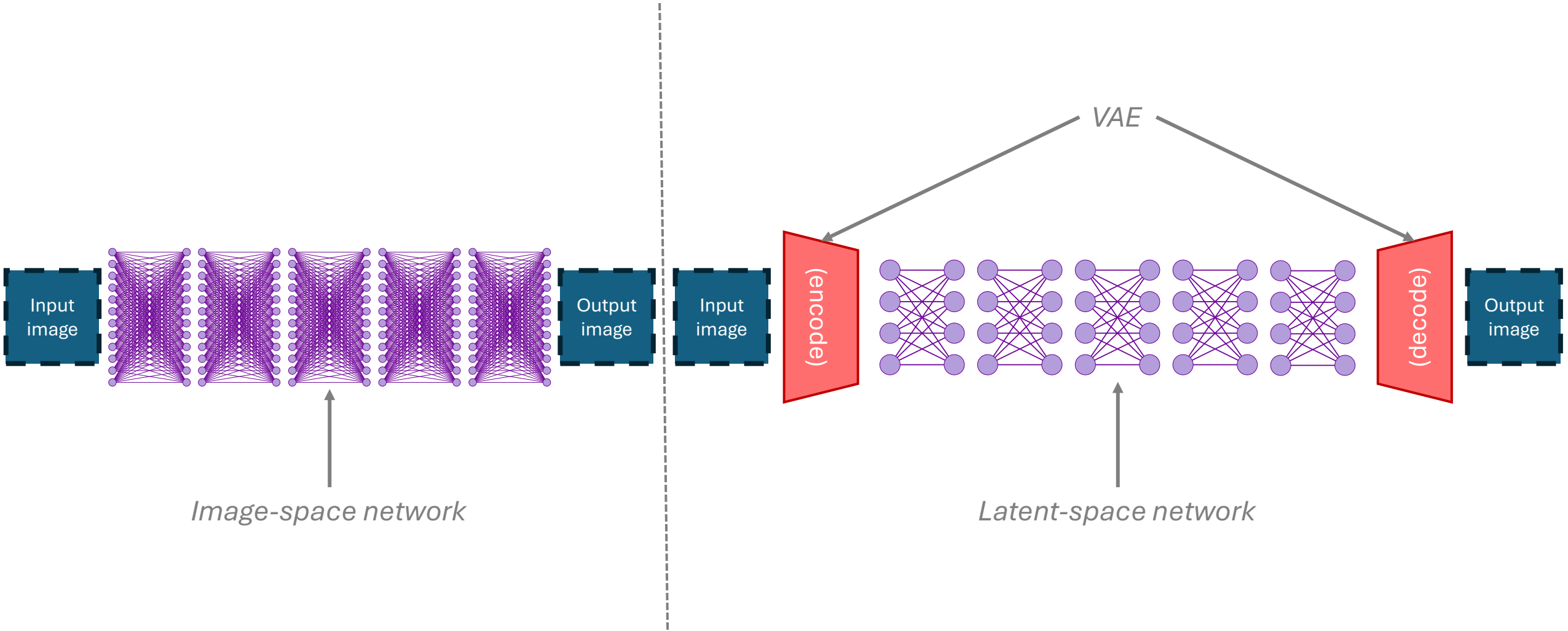


Variational **A**uto **E**ncoder

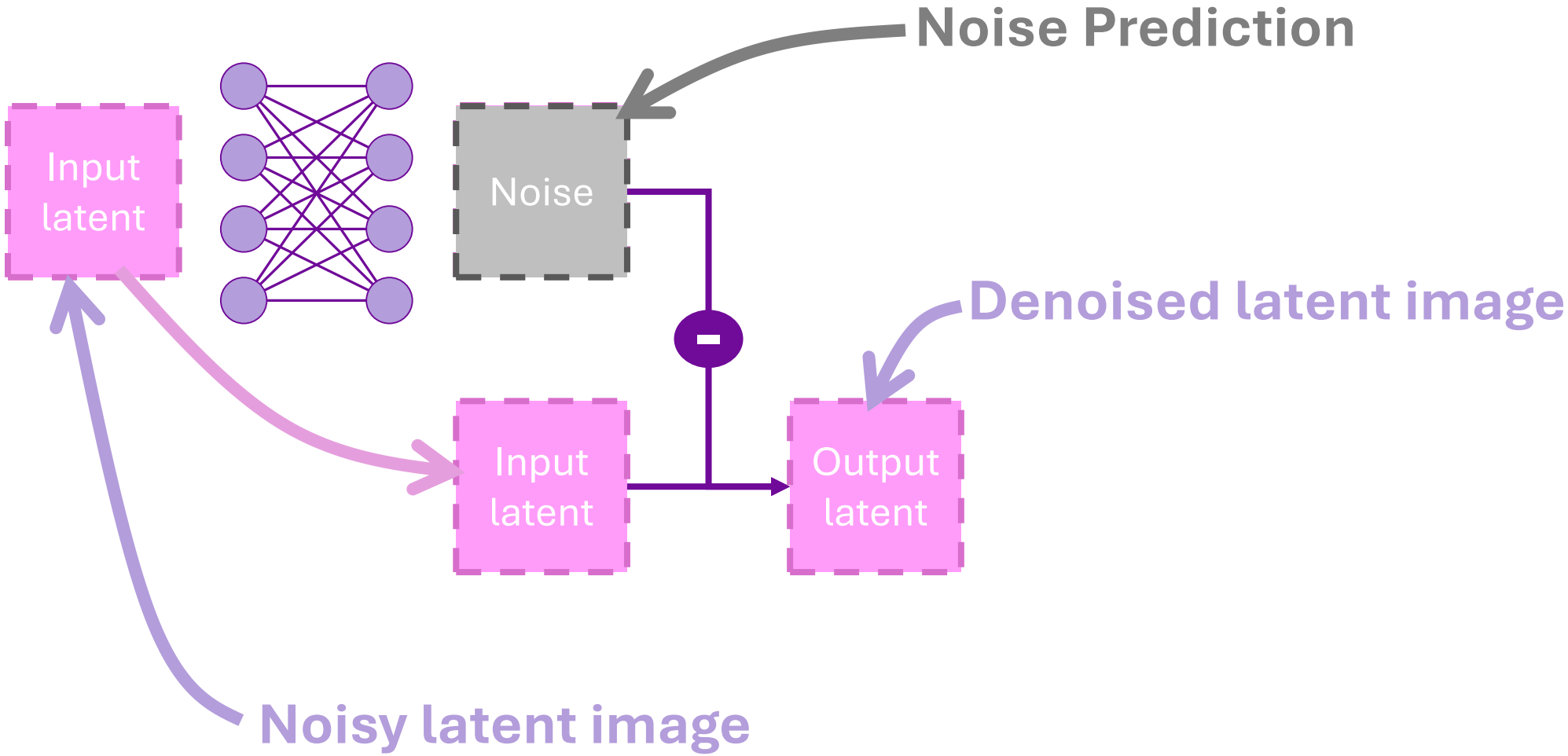




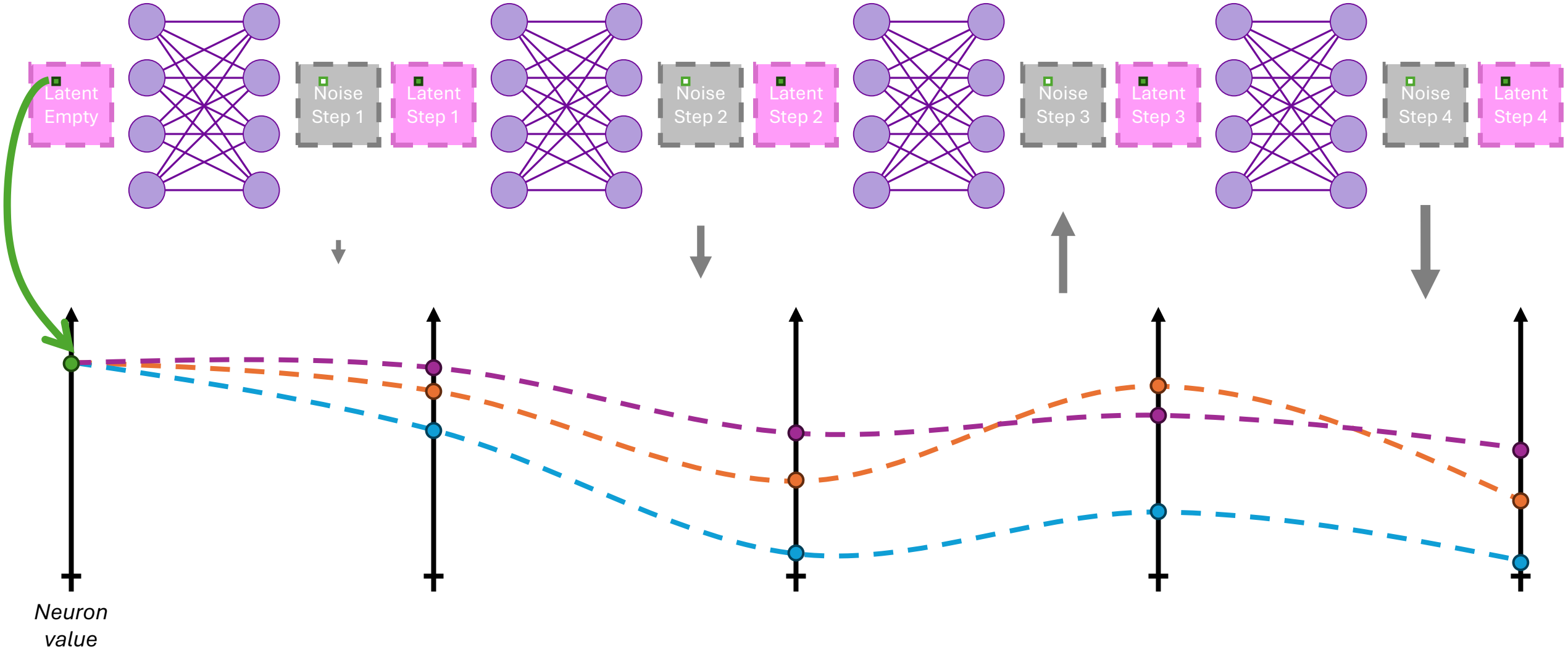
Variational **A**uto **E**ncoder *(multi-steps)*



Noise prediction



Denoising sampler



Sampler

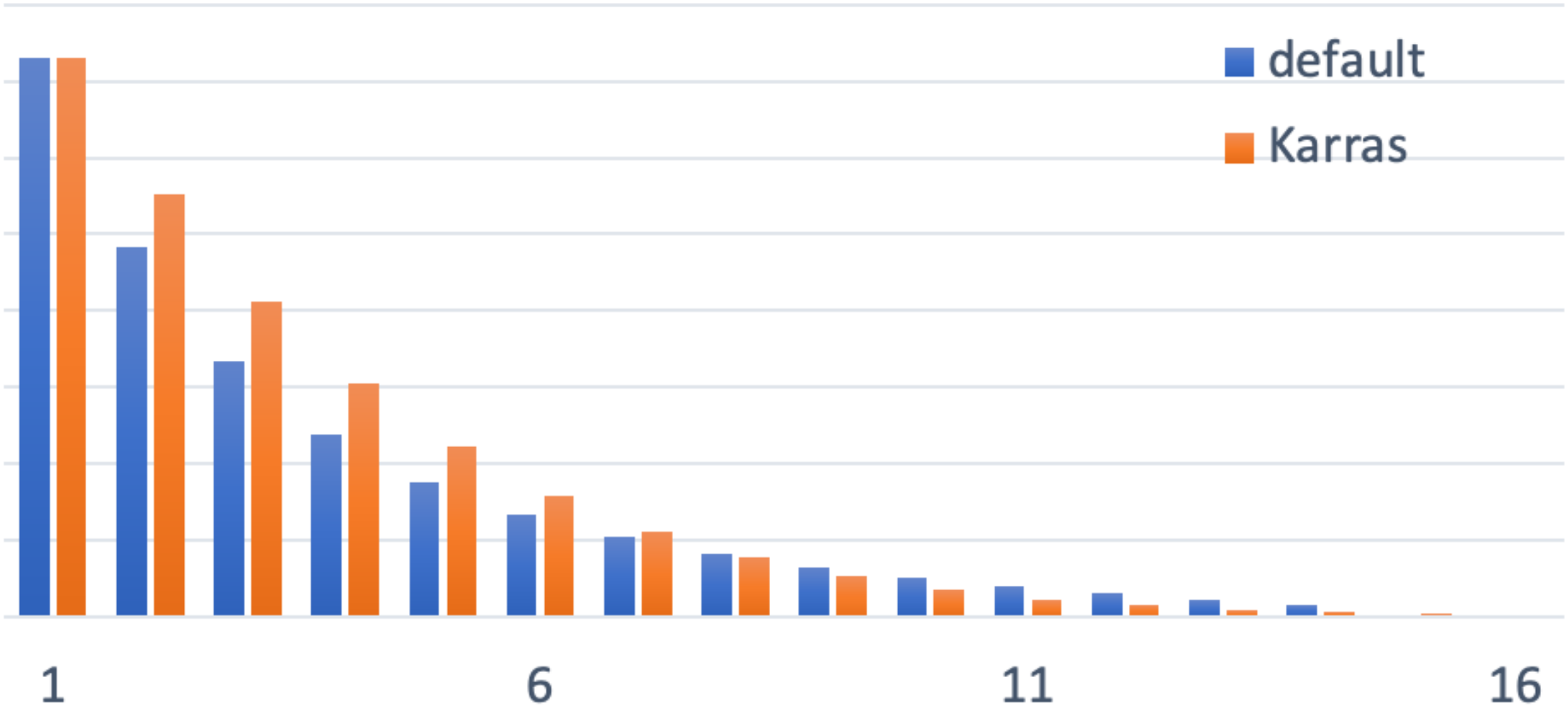
Prompt: **“a cat”**

Euler

DPM++2M

LCM

Noise Schedule



Noise scheduler

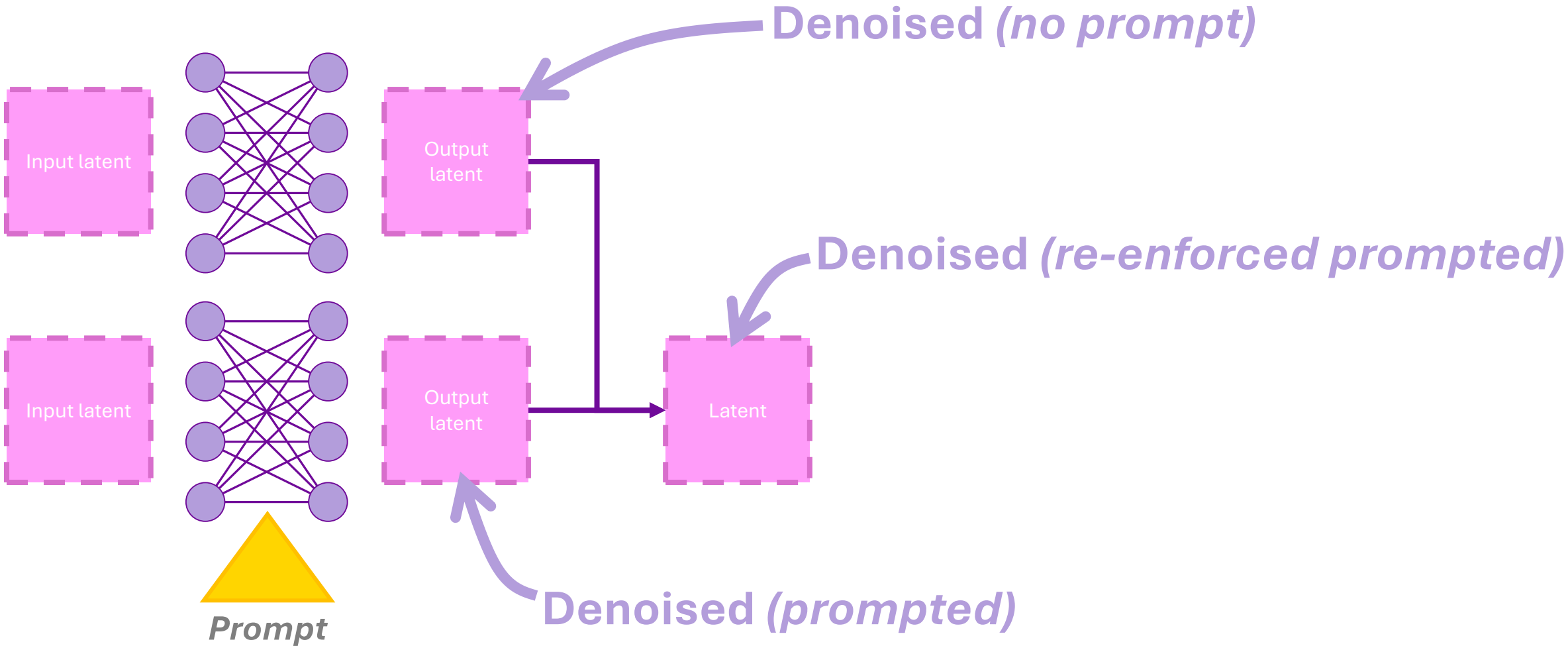
Prompt: **“a cat”**

Normal

Karras

Exponential

Prompting the model



Prompting effect *(“cfg”)*

Prompt: **“a cat”**

Noise seed

Prompt: **“a cat”**

Basic ComfyUI Workflow