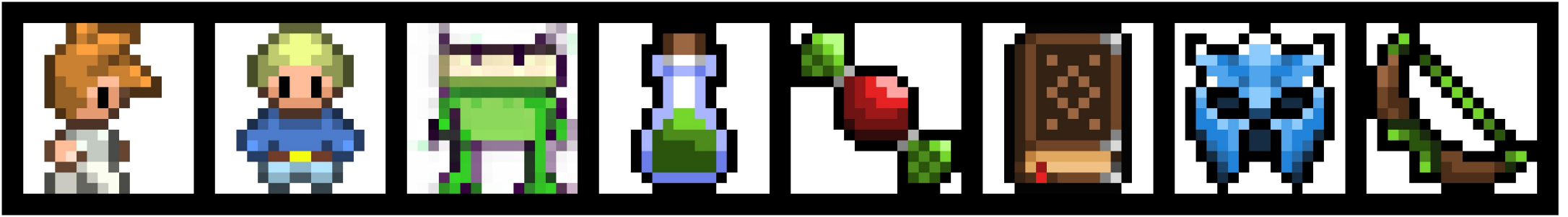




Diffusion models

Goal

- Build a diffusion model from scratch on sprites



- Explore the hyperparameters space using Elucidating Diffusion Model

Elucidating the Design Space of Diffusion-Based Generative Models

Tero Karras
NVIDIA

Miika Aittala
NVIDIA

Timo Aila
NVIDIA

Samuli Laine
NVIDIA

Suggested reading

- Understanding Diffusion Models: A Unified Perspective – Luo (2022)
- Generative Modelling by Estimating Gradients of the Data Distribution – Song et al (2019)
- Denoising Diffusion Probabilistic Model - Ho et al (2020)
- Understanding Deep Learning, Chapter 18 – Prince (2023)