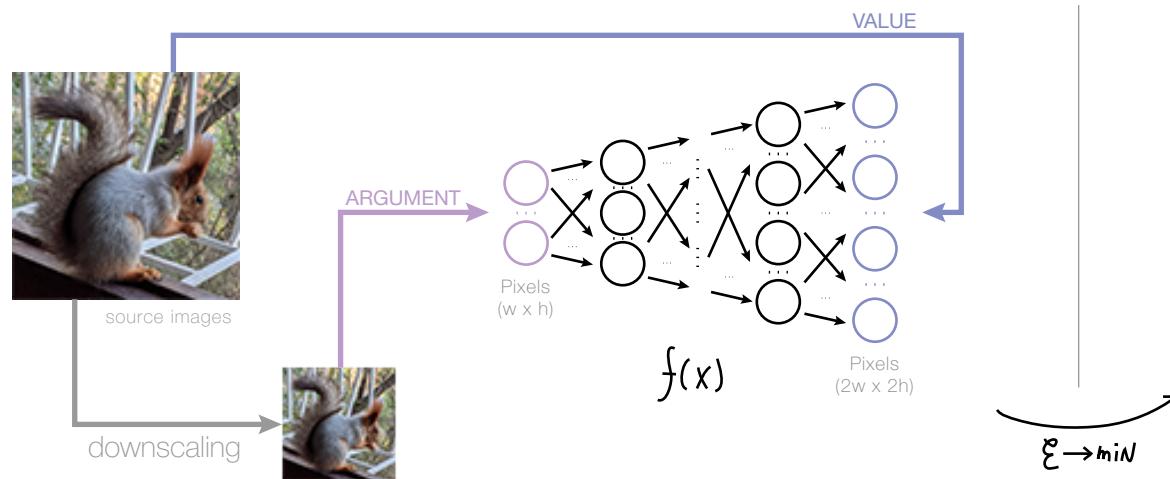
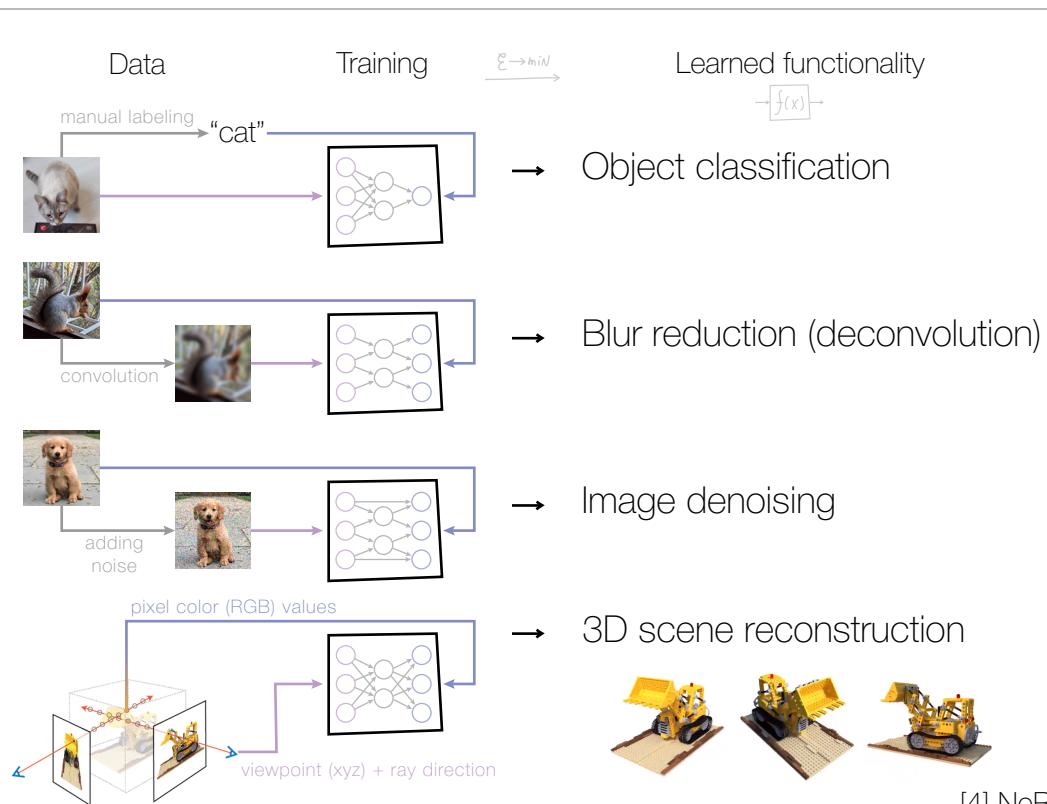
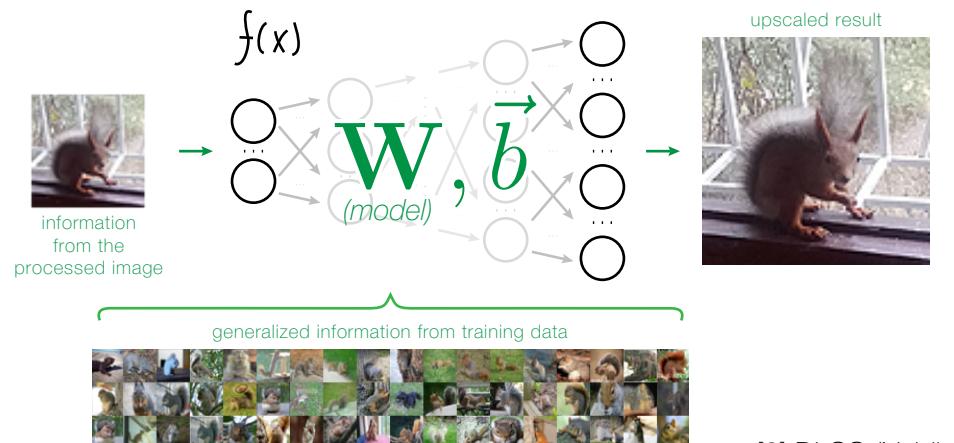


Training data sources

Training



Inference



Text generation

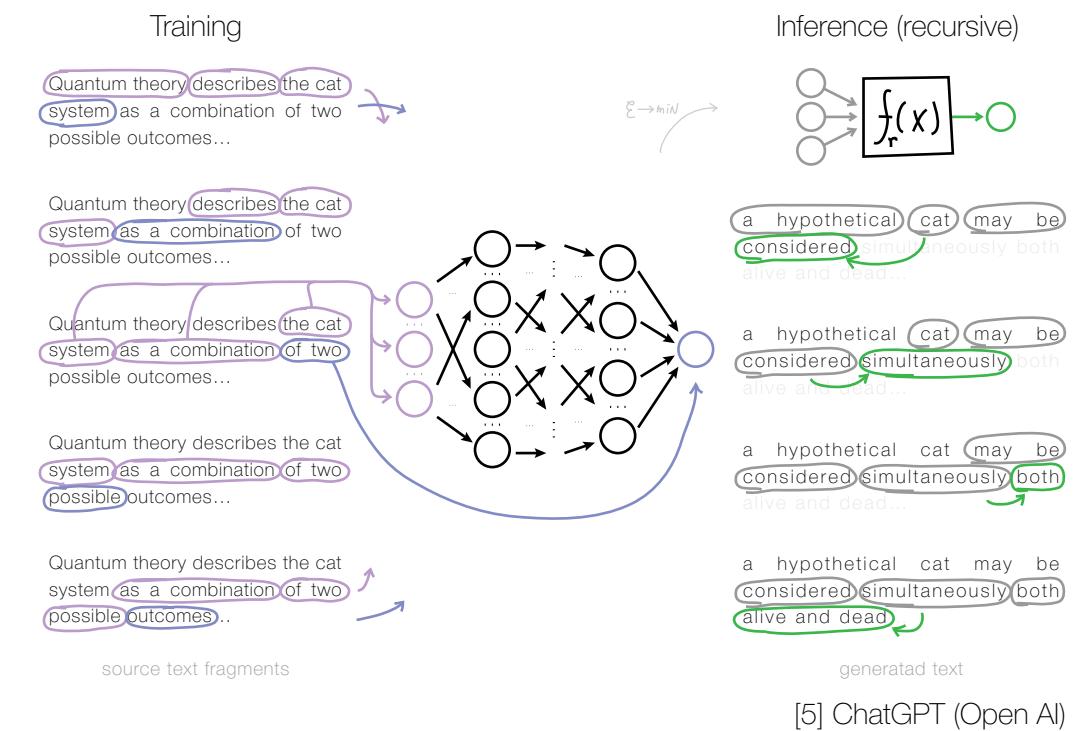
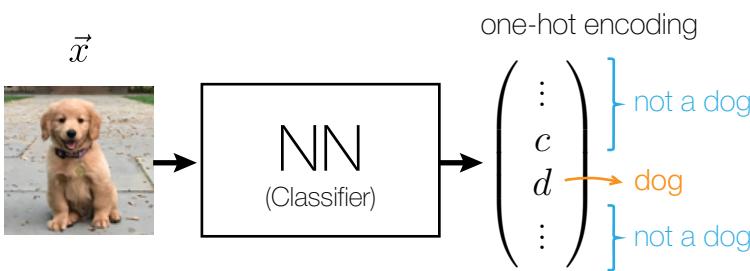


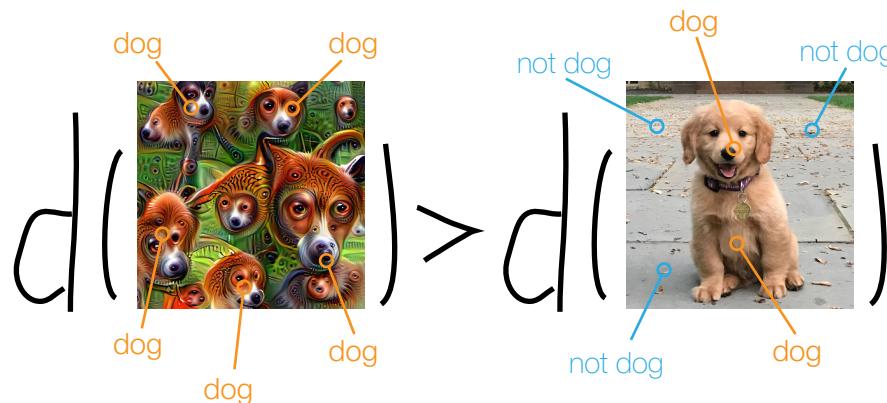
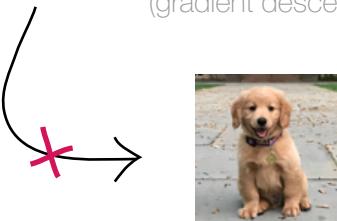
Image generation



Inverted classifier
(image generation)

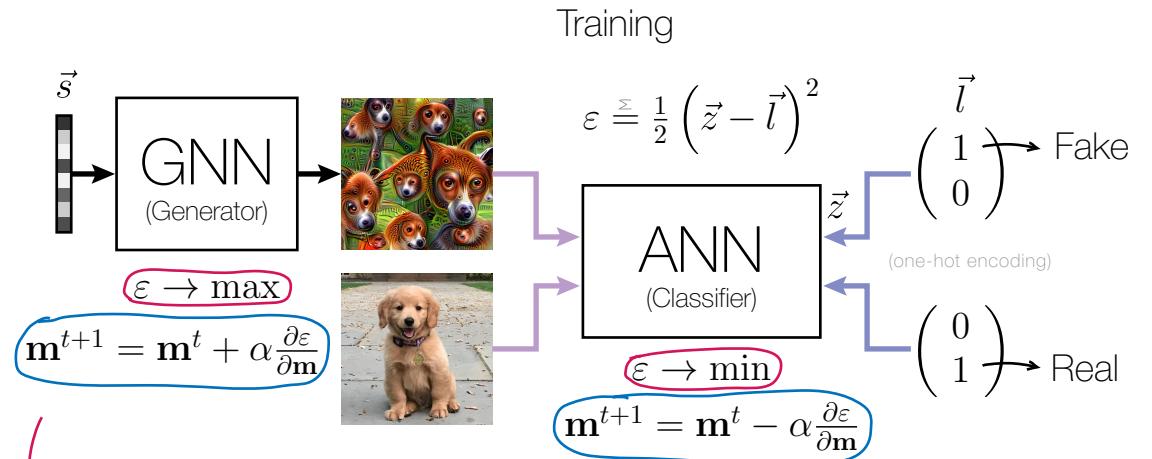
$$\vec{x} : d(\vec{x}) \rightarrow \max$$

(gradient descent in x-space)

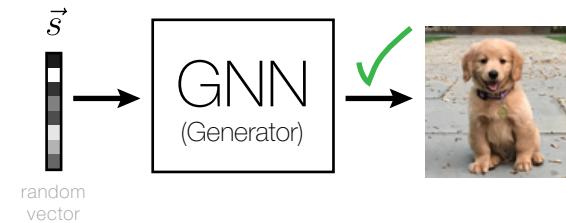


[6] Deep Dream (Google)

Generative Adversarial Network (GAN)

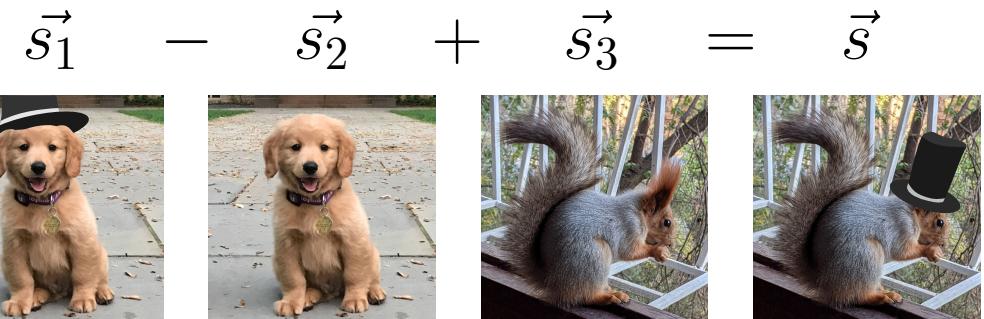


Inference



[7] This Person Does Not Exist

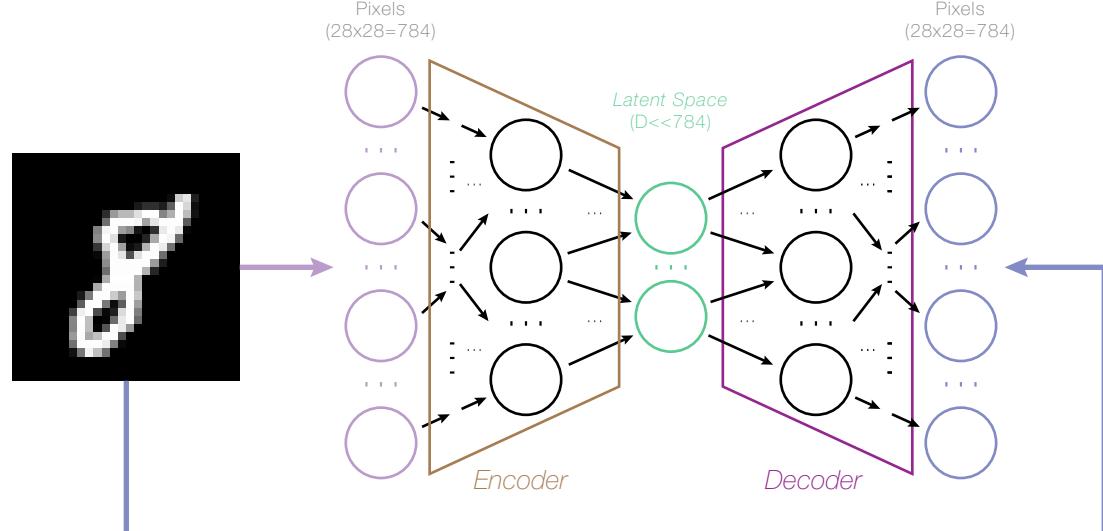
Arithmetic of Embeddings



~ [8] Word2Vec

AutoEncoder

Training



$$8 \rightarrow f(\bar{x}) = \bar{x} \rightarrow 8$$

Latent encoding (~classification)

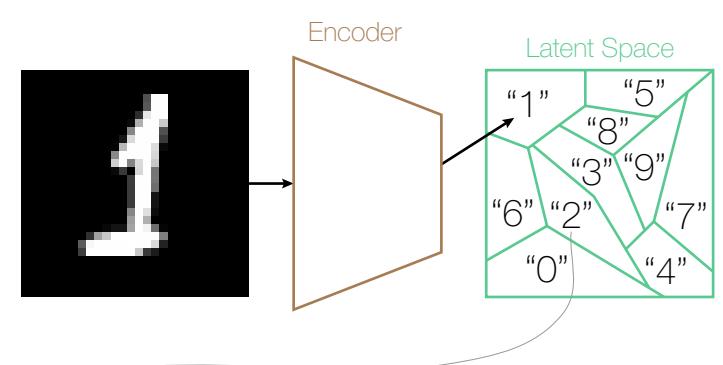
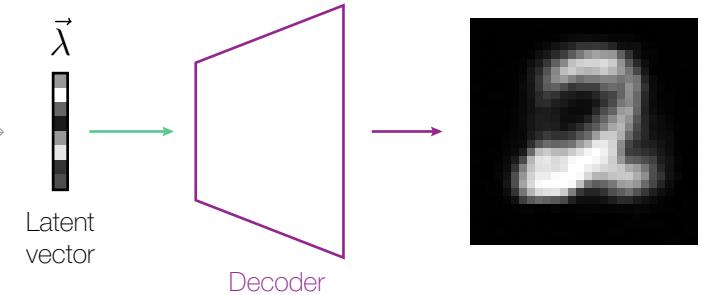
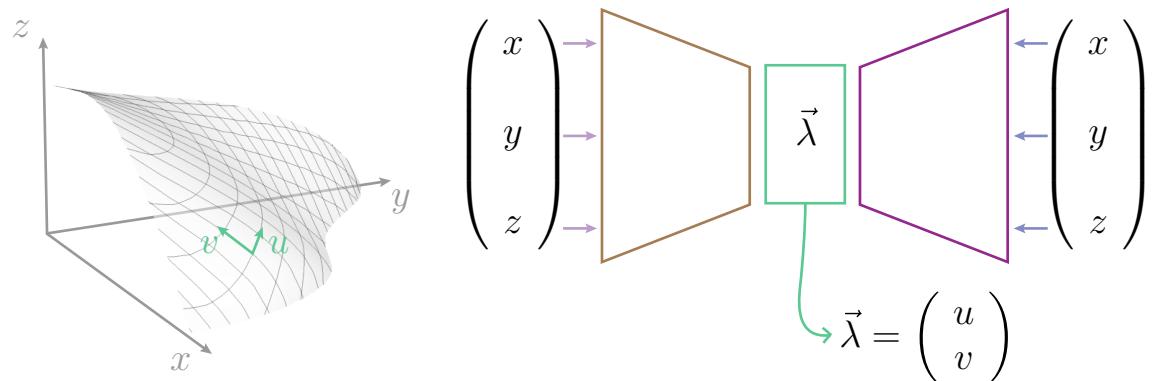


Image generation



Generalized coordinates



Variational AutoEncoder (VAE)

