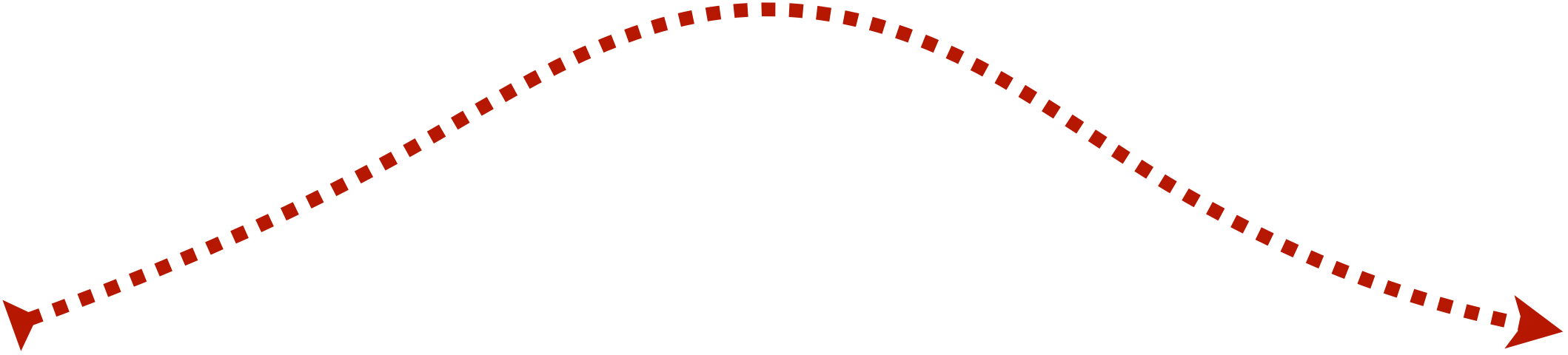
The landscape of deep generative models

Generative adversarial networks

[Karsten Kreis; CVPR 2022 Tutorial]

Autoregressive models

Energy-based models



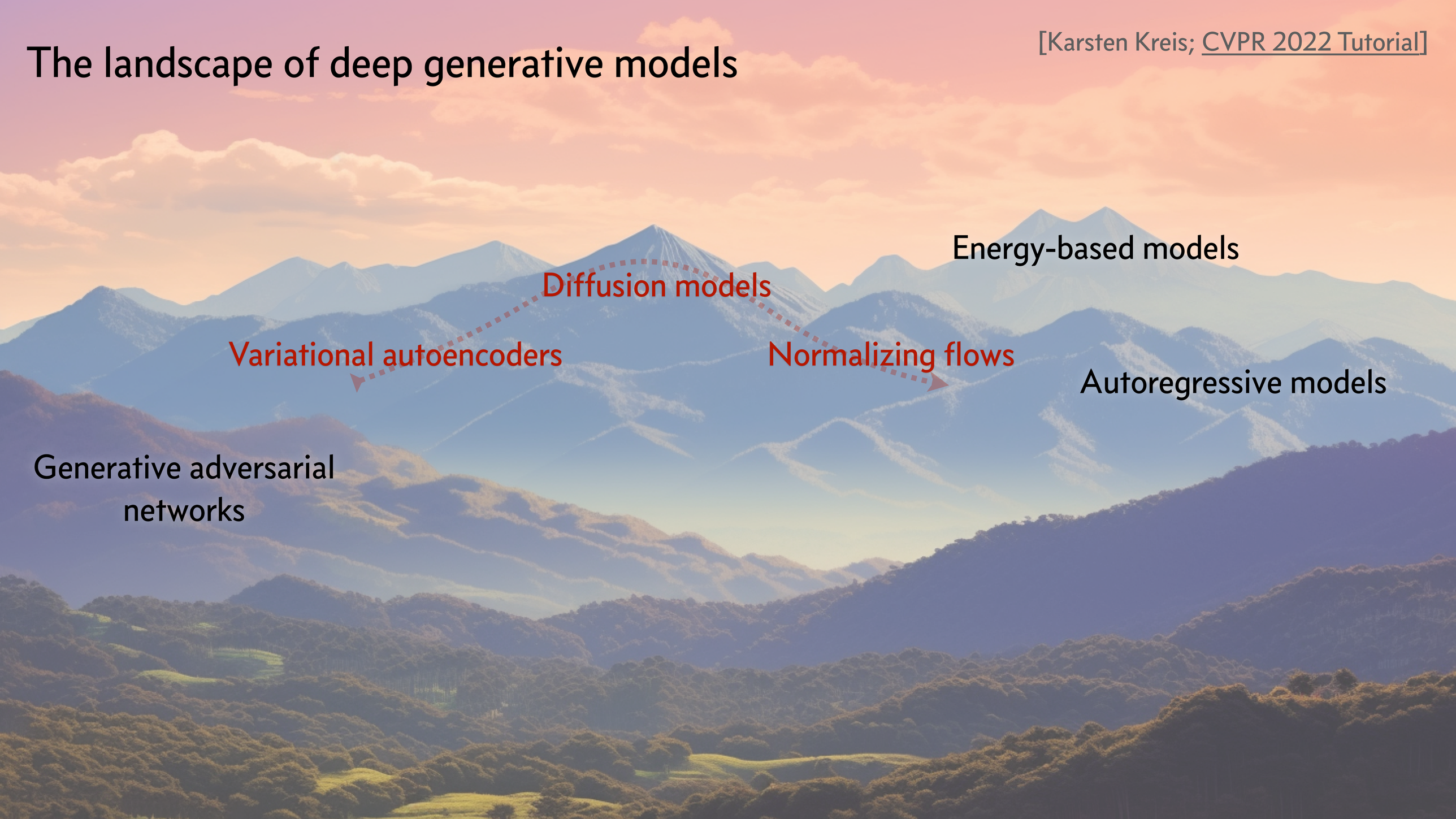
Variational autoencoders

Diffusion models

Normalizing flows

The landscape of deep generative models

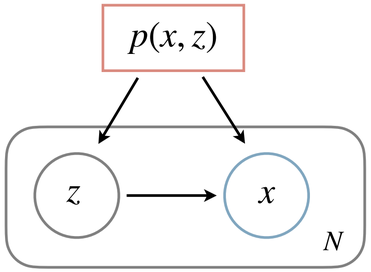
[Karsten Kreis; CVPR 2022 Tutorial]



Outline

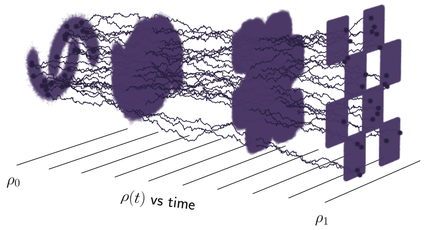
Why (deep) generative modeling?

What is it, and what can it do for you?



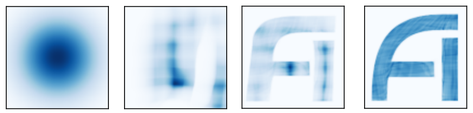
Variational auto encoders

Latent-variable modeling, and compression is all you need



Diffusion models

Models based on iterative refinement



Normalizing flows

Invertible transformations