

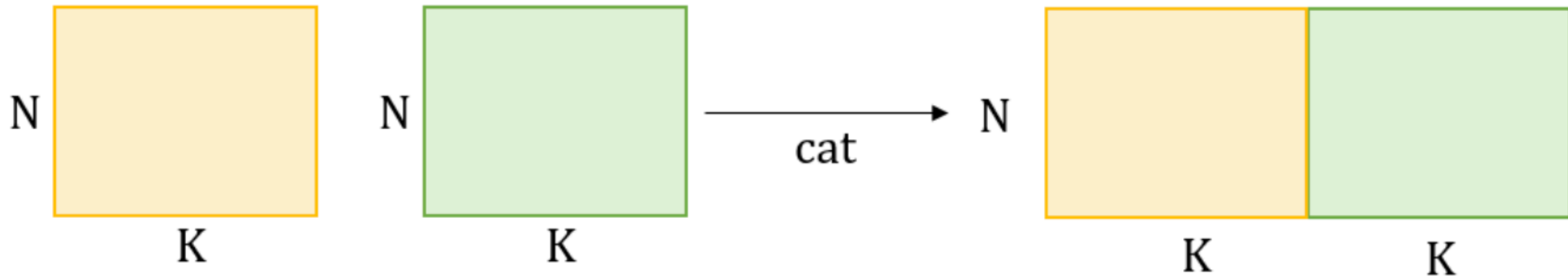
Pix2Pix Discriminator

Image-to-Image Translation with Conditional Adversarial Nets

Week 4

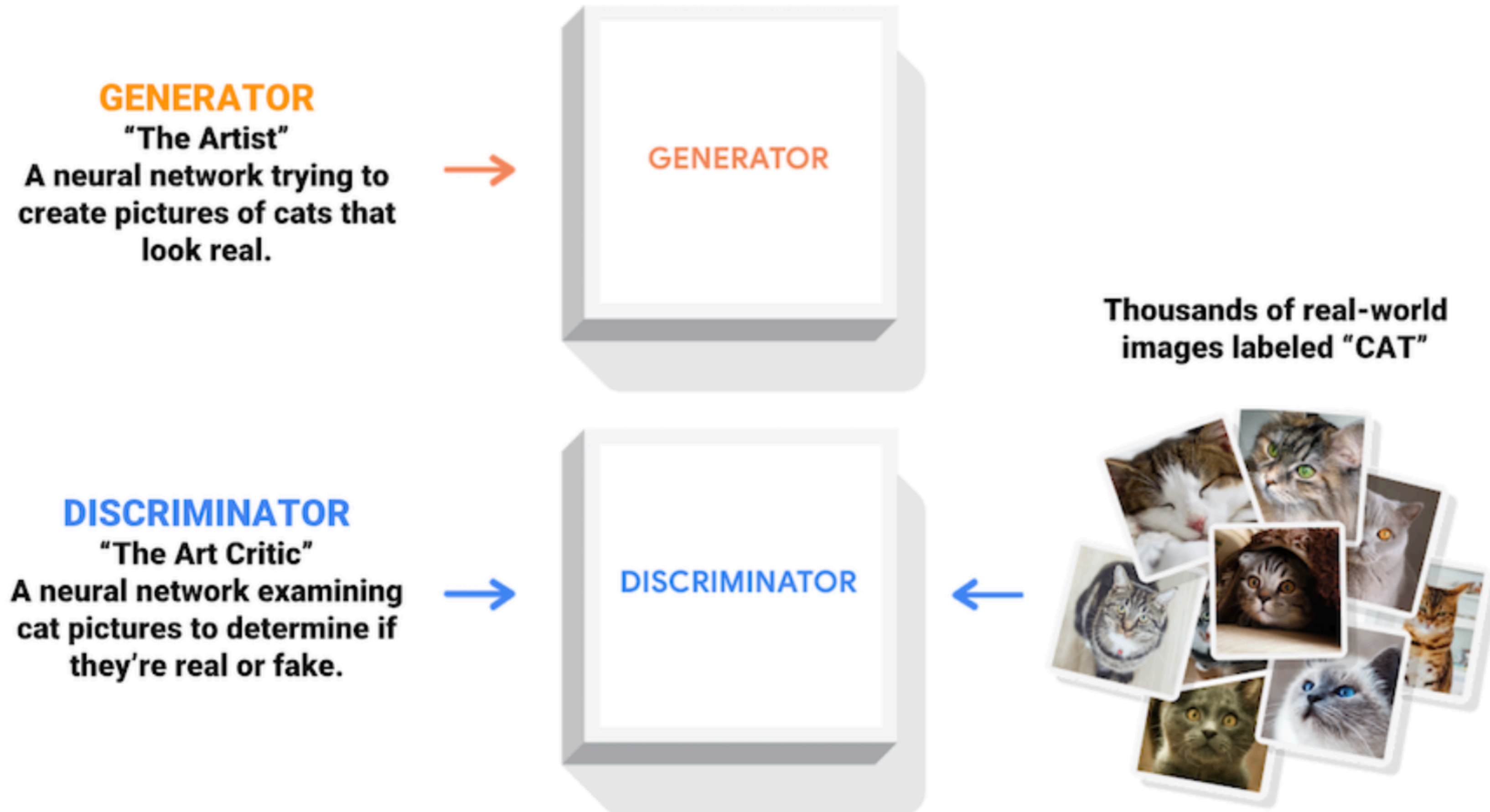
torch.cat

visualize



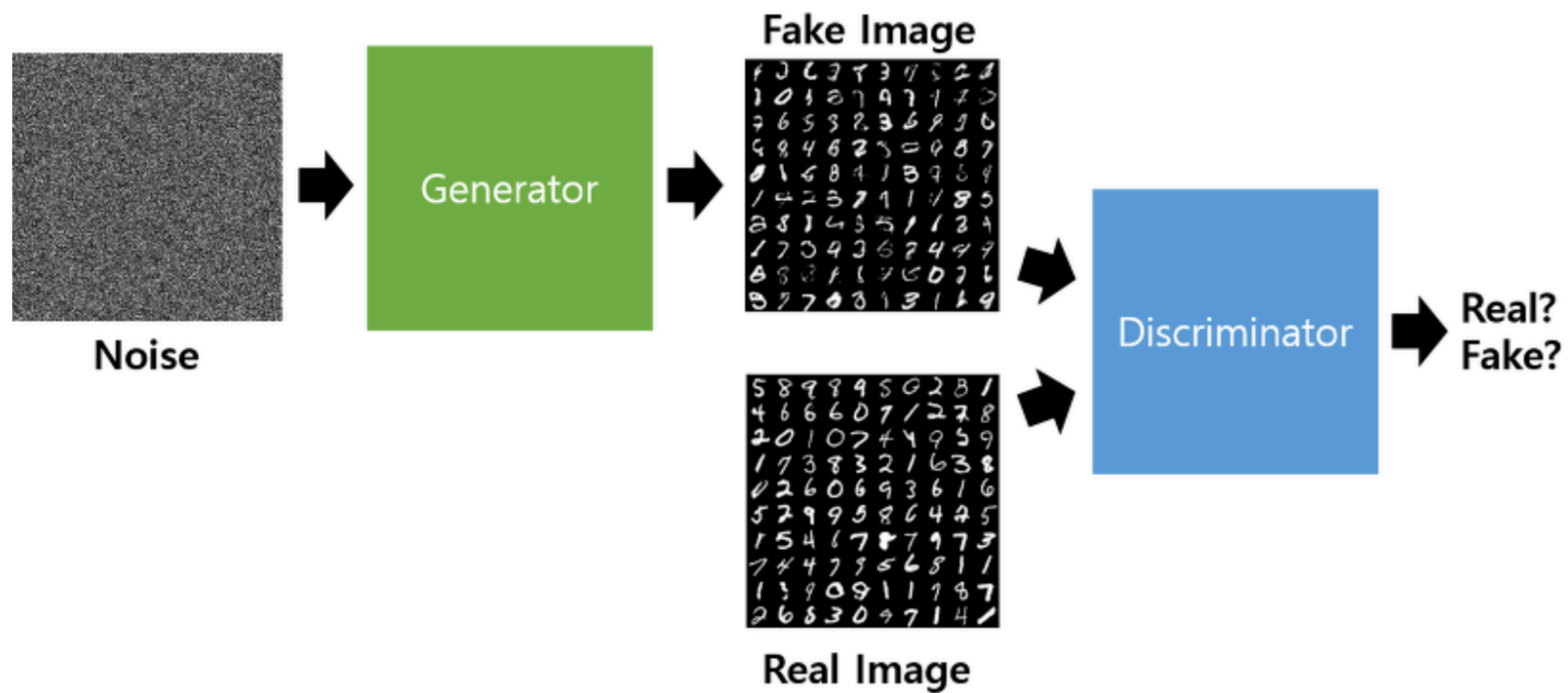
GAN Discriminator

GAN Overall...



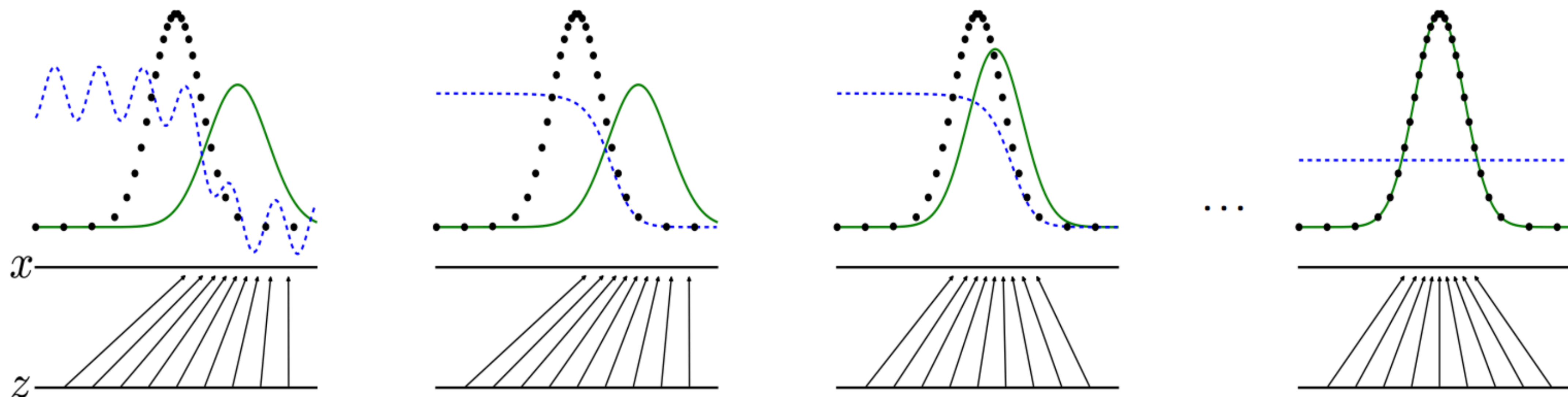
Basic GANs

architecture



GAN Discriminator

Distribution Learning



Pix2Pix Generator

Paper's Architecture

6.1.2 Discriminator architectures

The 70×70 **discriminator** architecture is:

C64–C128–C256–C512

After the last layer, a convolution is applied to map to a 1-dimensional output, followed by a Sigmoid function. As an exception to the above notation, BatchNorm is not applied to the first C64 layer. All ReLUs are leaky, with slope 0.2.

Pix2Pix Discriminator

PatchGAN

- Restrict only to the structure in local image patches
 - Only penalizes structure at the scale of patches
- Run the Discriminator “convolutionally” across the Image, averaging all responses to provide the ultimate output of the Discriminator