

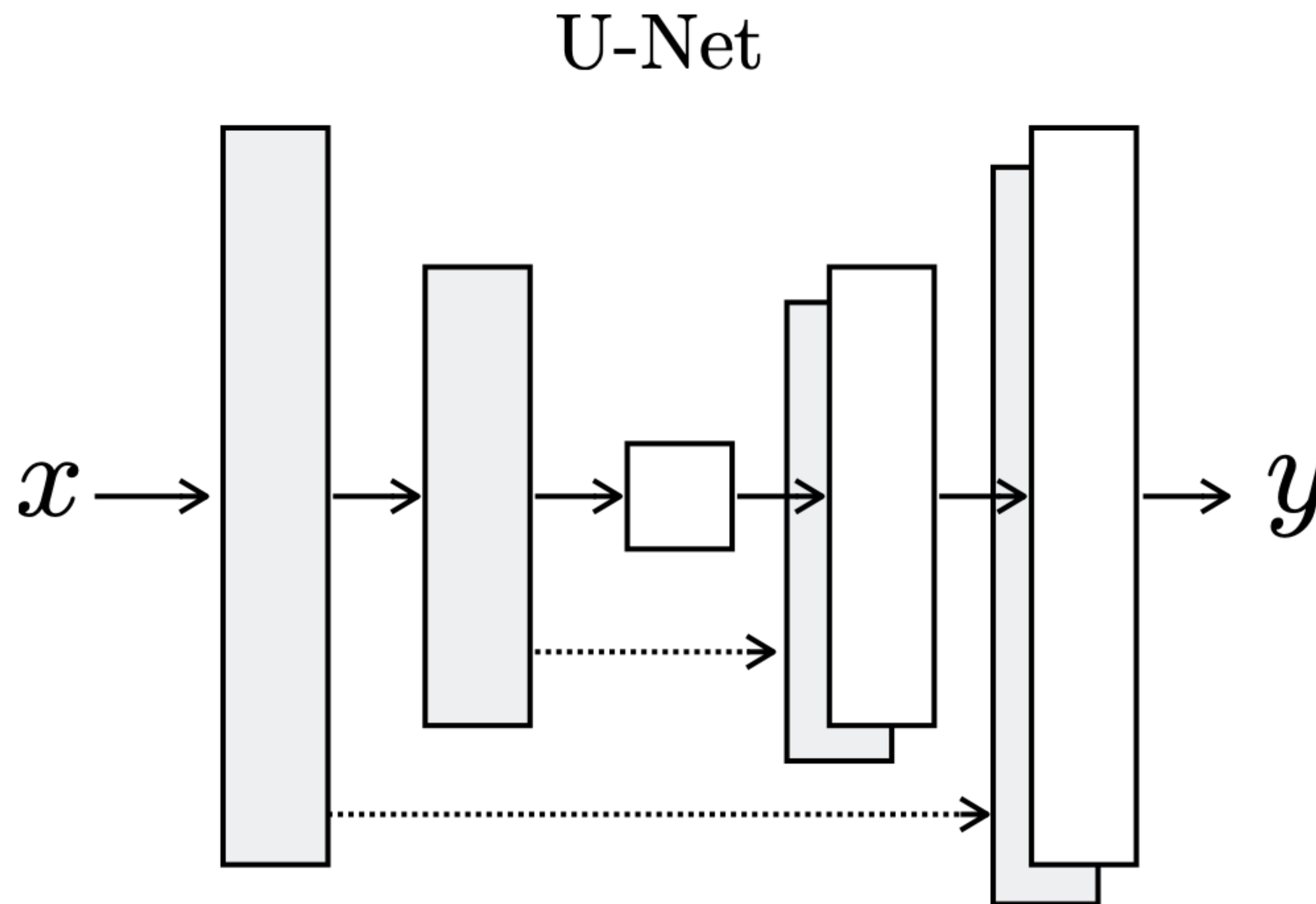
Pix2Pix Generator

Image-to-Image Translation with Conditional Adversarial Nets

Week 2

Pix2Pix Generator

Overall Architecture



Pix2Pix Generator

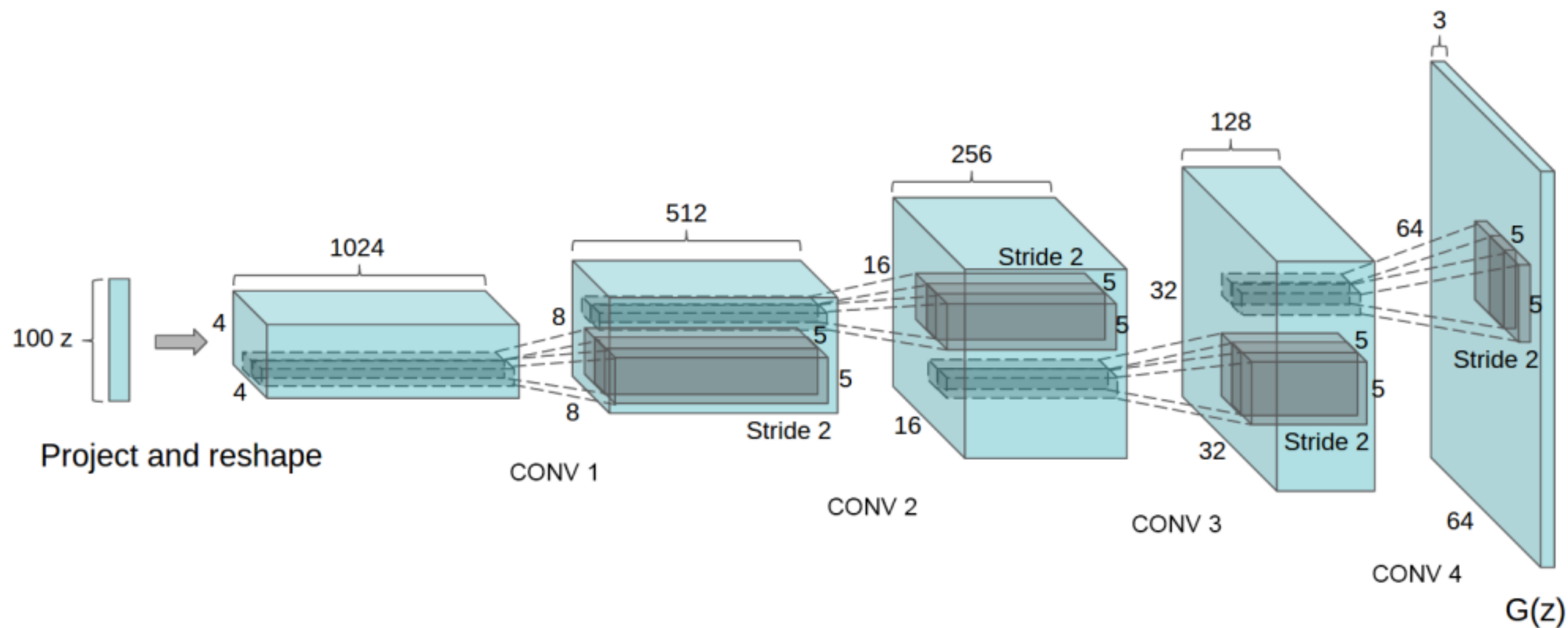
Overall Architecture

3.2. Network architectures

We adapt our generator and discriminator architectures from those in [44]. Both generator and discriminator use modules of the form convolution-BatchNorm-ReLu [29]. Details of the architecture are provided in the supplemental materials online, with key features discussed below.

Pix2Pix Generator

DCGAN



Pix2Pix Generator

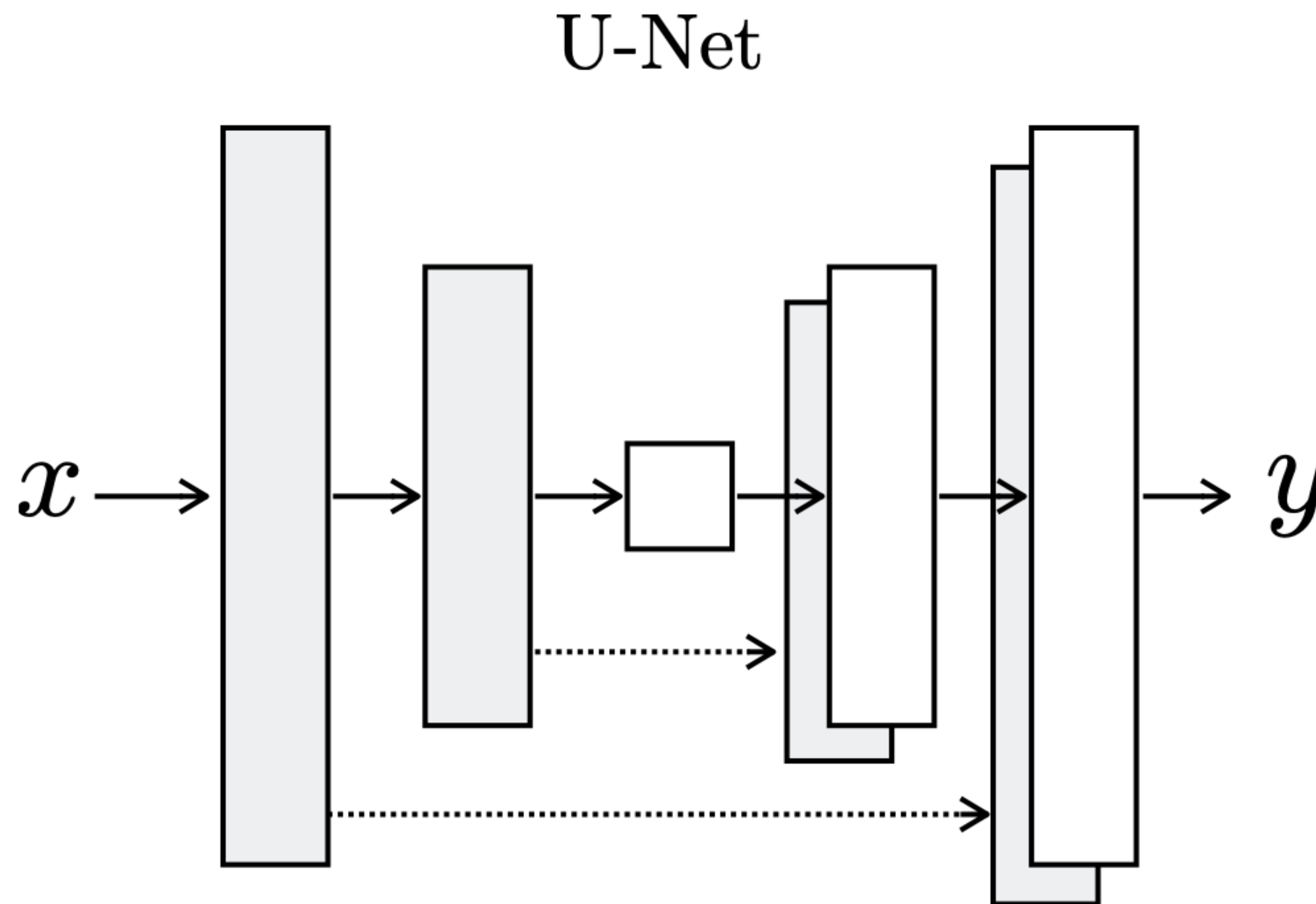
DCGAN

Architecture guidelines for stable Deep Convolutional GANs

- Replace any pooling layers with strided convolutions (discriminator) and fractional-strided convolutions (generator).
- Use batchnorm in both the generator and the discriminator.
- Remove fully connected hidden layers for deeper architectures.
- Use ReLU activation in generator for all layers except for the output, which uses Tanh.
- Use LeakyReLU activation in the discriminator for all layers.

Pix2Pix Generator

Overall Architecture



Pix2Pix Generator

Skip Connection



Model Practice

SRCNN

