Deep Convolutional GAN (DCGAN)

We use Conv nets.

Discriminator

input → D → 0/1

(input)

Conv → Conv → Conv → flatten → FC

Batch Norm, Leaky ReLU

(no max-poding, stride = 2)

no hidden fc

leaky ReLU

sigmoid
**Batch Normalization**

- during training, normalize each layer’s input by using the mean and variance of values in current batch. (subtract by mean, div by batch std dev)
- it helps because when the distribution of inputs to each layer is similar, training a model becomes more efficient. each iteration becomes slower but in converges faster overall.
- can be used with higher lrs.