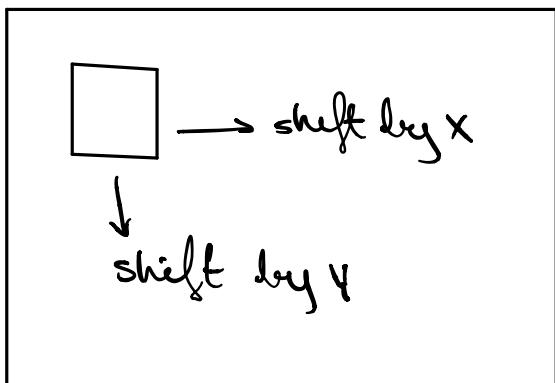


Dropout can be used to mitigate overfitting.

Strides can be used to make your model faster & reduce memory.

## Strides



Can stride through the dimensions visiting less of the indices.

This reduces the number of times you have to apply the convolutions.

Strides can help with running large models with many layers or number of convolutions per layer.

Alternative

- Max pooling
- (\*) Generative models benefit more from strides, overall strides & max pooling performance.
- (\*) Strides conceptually simpler.

## Dropout

Ignore randomly chosen nodes/convolutions for small periods of training, then cycle those nodes.

↳ Ensures that the model isn't defined by a singular node — by removing all nodes randomly ensures that the complete set of nodes have opportunity to weigh-in on the predict.

→ Goal is to prevent overfitting.

→ Before dropout, models were limited by capacity, lower the number of layers and/or the number of convolutions.