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CNN

1. <https://github.com/polic72/Lab3_CNN>
2. **Convolution Parameters: Stride and Pooling:**

If I apply pooling of 2 ((2, 2) window with a stride of 2) to a (6, 6) array, the resulting size would be a (3, 3) array.

1. **ConvNet Architectures, Layers:**

**Input = (100, 100), kernel size = (2, 2), stride of 1 and no pooling?**

**How many weights do I have if I have 24 such filters stacked (conv2\_24)?**

Assuming colored image.

Assuming black and white image.

**What is a better idea: To use one larger kernel (7, 7) or multiple stacked smaller ones, 3 × (3, 3)?**

Multiple stacked smaller kernels. A large kernel has weights while multiple stacked kernels only has weights where is the size of the previous layer times the current layer. That’s more efficient.

**Solve for the padding (P), in terms of I, F and S, if we want the input and output size to remain the same.**

where