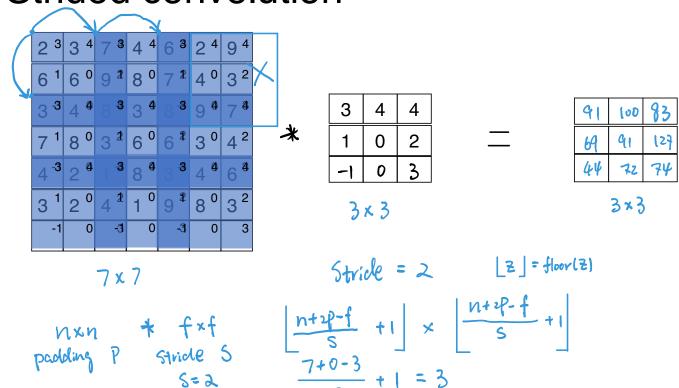


Convolutional Neural Networks

Strided convolutions

Strided convolution



Andrew Ng

Summary of convolutions

$$n \times n$$
 image $f \times f$ filter

padding p stride s

$$\left\lfloor \frac{n+2p-f}{5} + \right\rfloor \times \left\lfloor \frac{n+2p-f}{5} + \right\rfloor$$

Technical note on cross-correlation vs. convolution

Convolution in math textbook:

27	3	75	4	6	2
6 ¹	6	9	8	7	4
3	4	8	3	8	9
7	8	3	6	6	3
4	2	1	8	3	4
3	2	4	1	9	8

