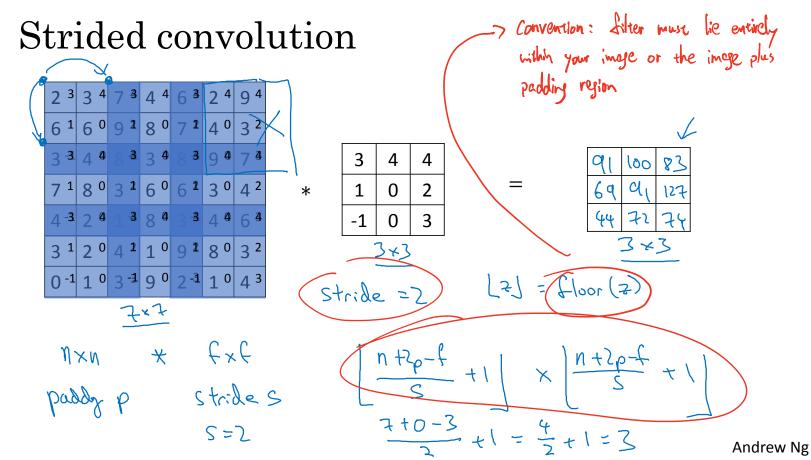


Convolutional Neural Networks

Strided convolutions



Summary of convolutions

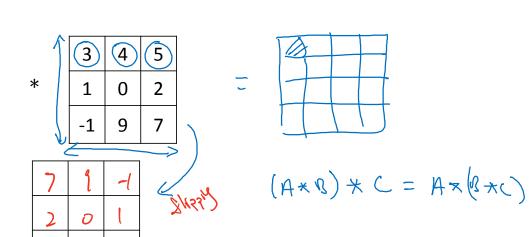
$$n \times n$$
 image $f \times f$ filter padding p stride s

$$\left[\frac{n+2p-f}{s}+1\right] \times \left[\frac{n+2p-f}{s}+1\right]$$

Technical note on <u>cross-correlation</u> vs. convolution

Convolution in math textbook:

	27	3 ²	7 ⁵	4	6	2
	6	60	94	8	7	4
	T M	4	8	3	8	9
	7	8	ന	6	6	3
	4	2	1	8	3	4
	3	2	4	1	9	8



Andrew Ng