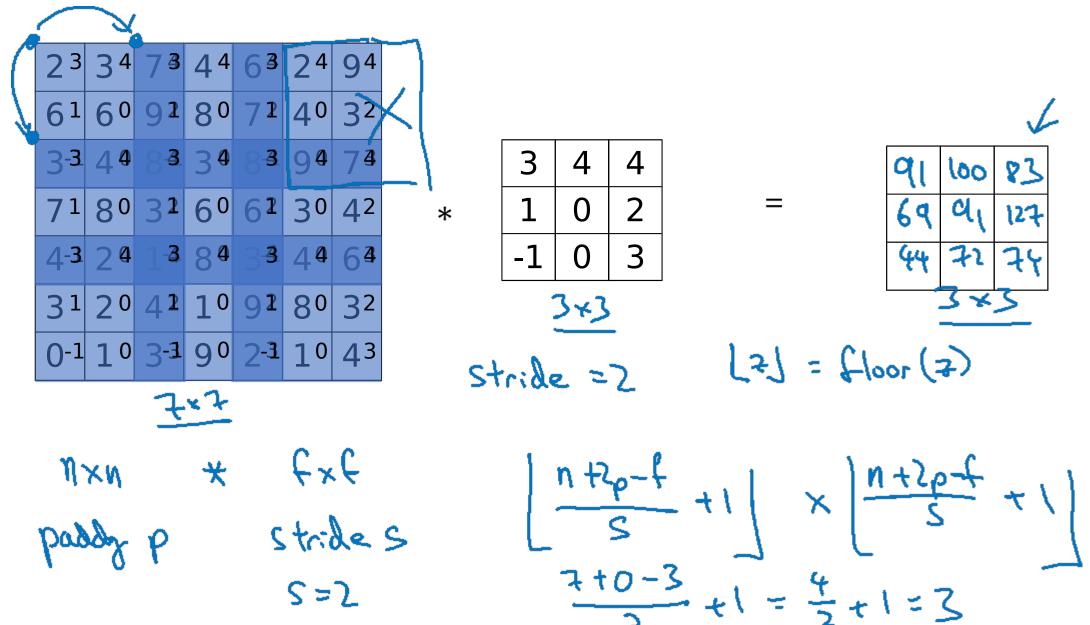


# Convolutional Neural Networks

## Strided convolutions

#### Strided convolution



Andrew Ng

#### Summary of convolutions

$$n \times ininge$$
ge  $f \times filfilter$ 

$$padding p \qquad stride s$$

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

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

Convolution in math textbook:

	(7 \ 7				
27	3	7 <sup>5</sup>	4	6	2
6	6°	94	8	7	4
3	4	83	3	8	9
7	8	3	6	6	3
4	2	1	8	3	4
3	2	4	1	9	8

