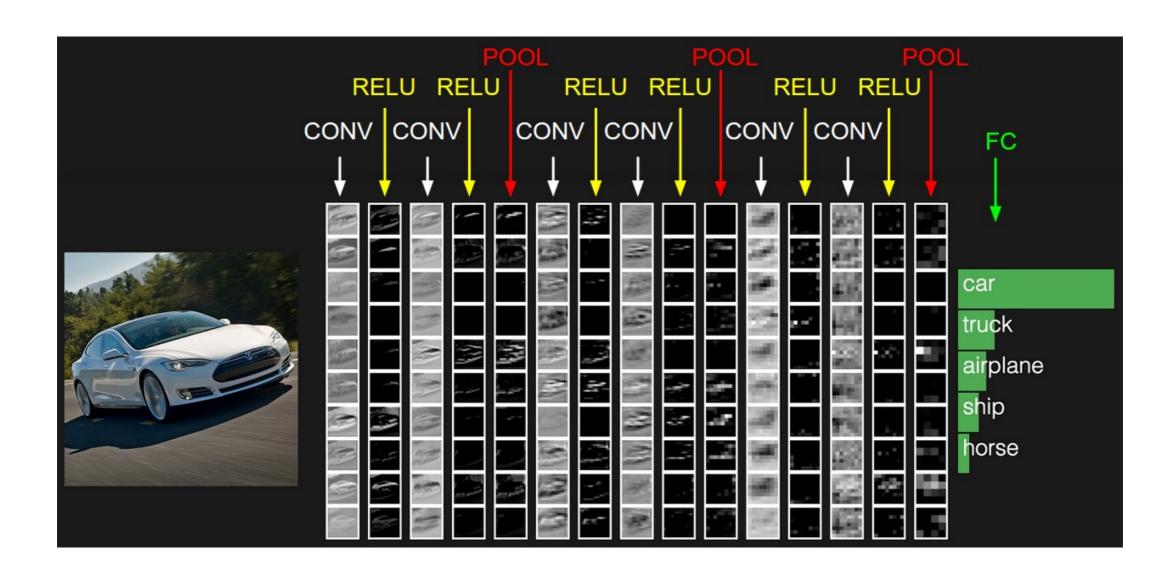
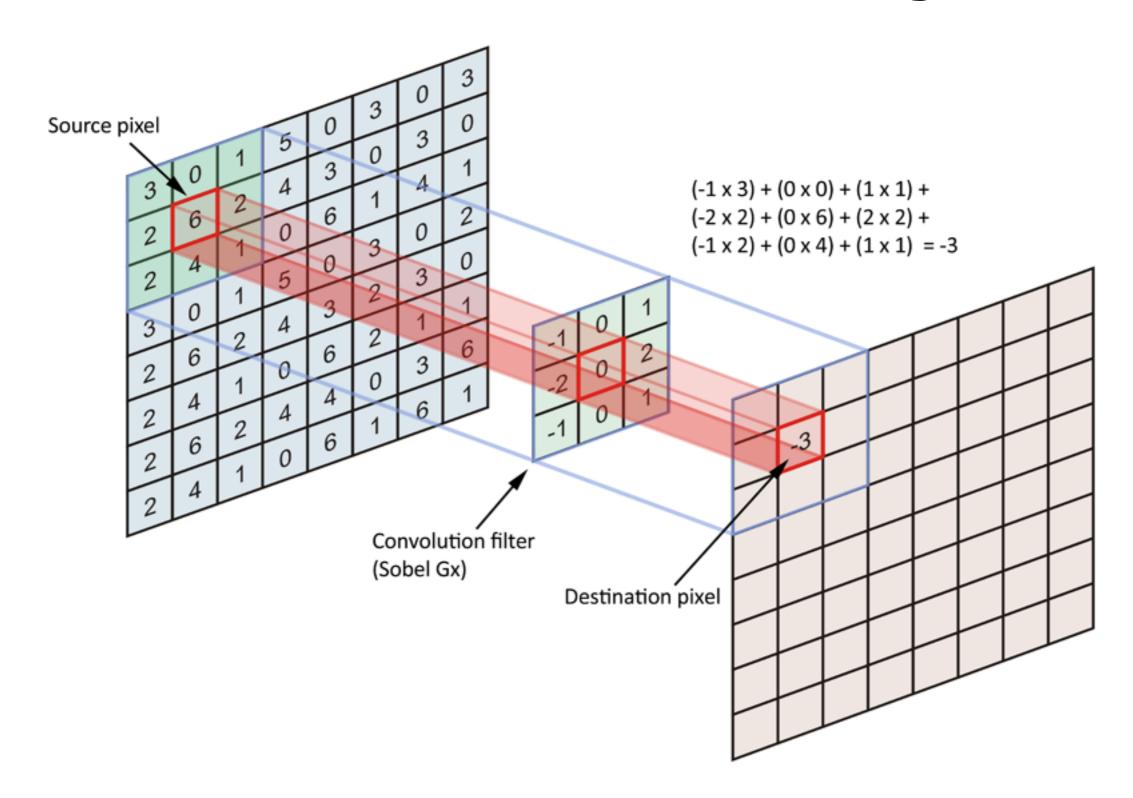
Convolutional Neural Networks

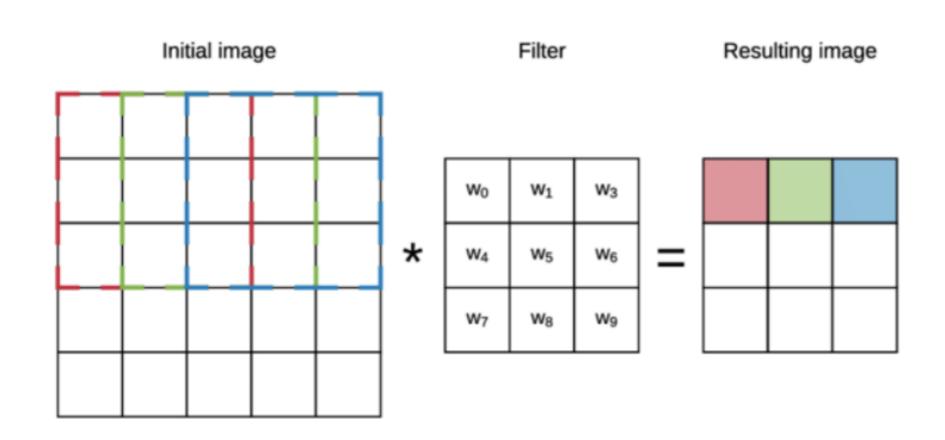
CNN



Convolutional Layer



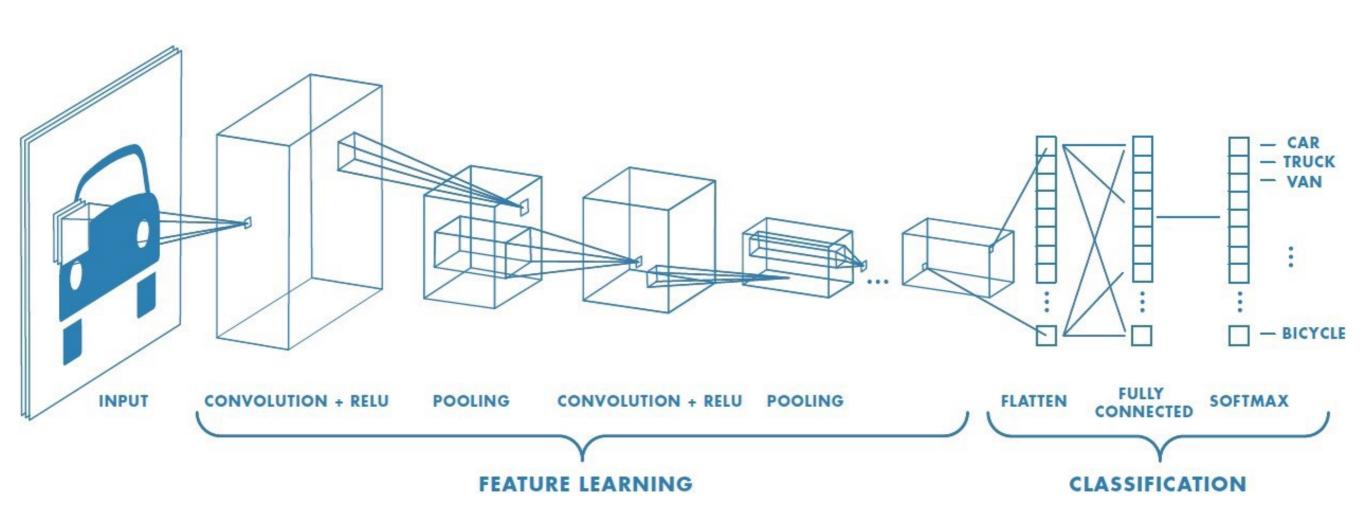
Convolutional Layer



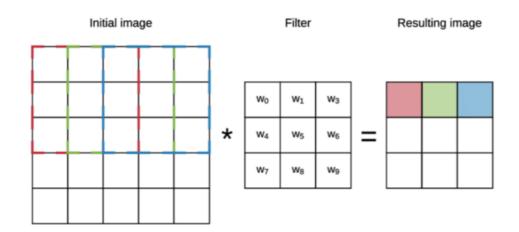
Max Pooling

12	20	30	0			
8	12	2	0	2×2 Max-Pool	20	30
34	70	37	4		112	37
112	100	25	12			

CNN



Convolutional Layer



$$(W-F + 2P)/S + 1$$

example: 5x5 input, 3x3 filter, padding=0, stride=1

$$(5-3+0)/1+1=$$
 $2/1+1=3$
 $-> 3x3$