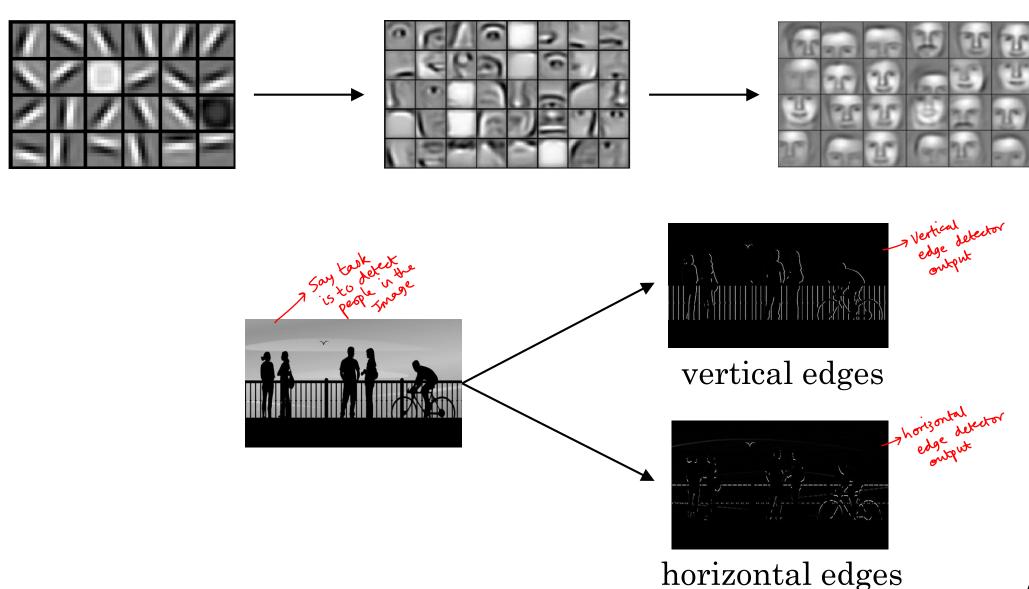


Convolutional Neural Networks

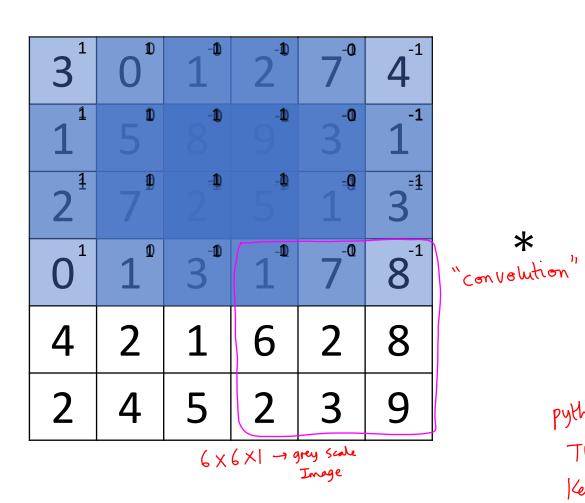
Edge detection example

Computer Vision Problem



Andrew Ng

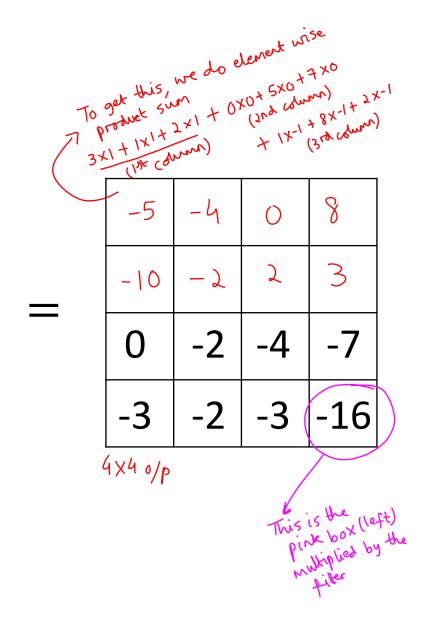
Vertical edge detection



	3×3	(Filler)	aka Ke	rnel
	1	0	-1	
1	١	0	-	
•		0	-	

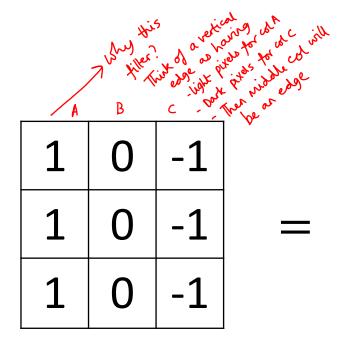
python: conv-forward
TF: tf.nn.conv2d

Keras: conv2D



Vertical edge detection

10	10	10	0	0	0
10	10	10	0	0	0
10	10	10	0	0	0
10	10	10	0	0	0
10	10	10	0	0	0
10	10	10	0	0	0



*

0	30	30	0			
0	30	30	0			
0	30	30	0			
0	30	30	0			
We is at						

