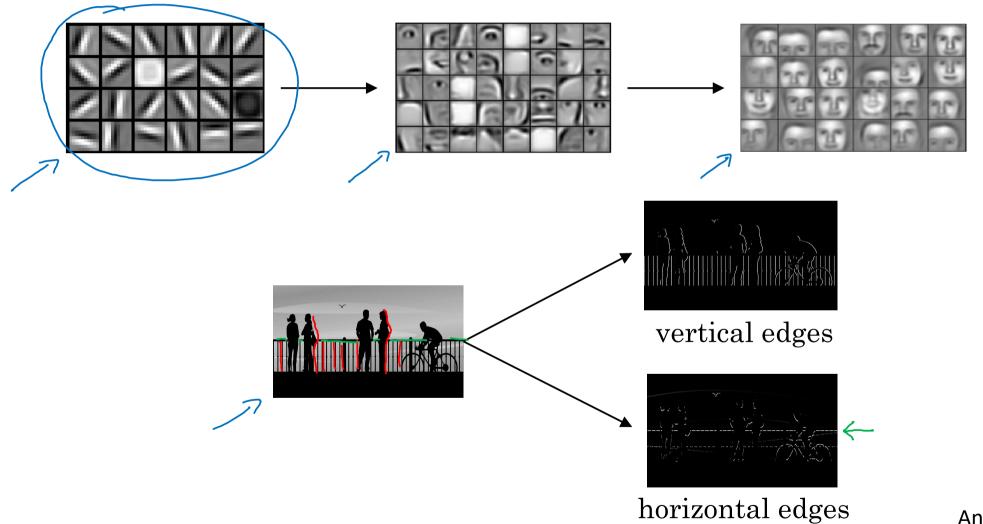


## Convolutional Neural Networks

# Edge detection example

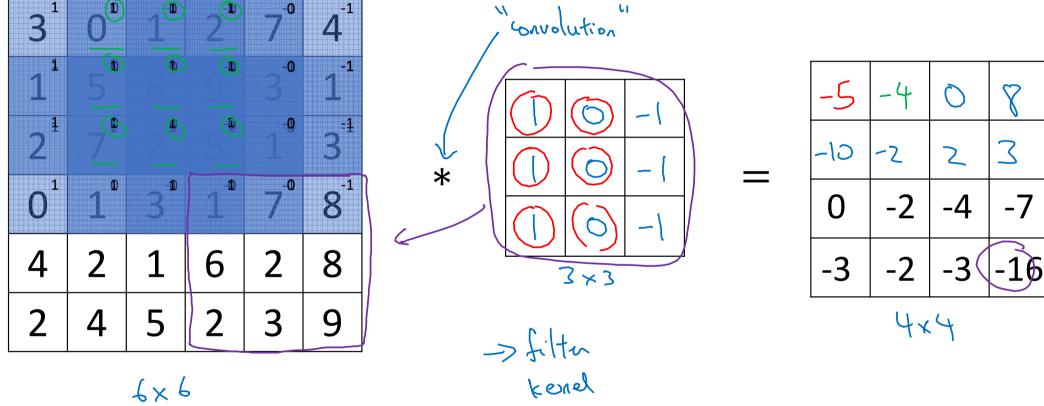
### Computer Vision Problem



Andrew Ng

#### Vertical edge detection

103x1 + 1x1 +2+1 + 0x0 + 5x0 +7x0+1x+ +8x-1+2x-1=-5



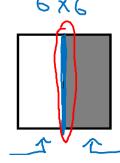
-5	-4	0	8	
-10	-2	2	3	
0	-2	-4	-7	
-3	-2	-3(	-16	
4x4				

### Vertical edge detection

_ 1		4			
10	10	10	0	O	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
6 x (					

	J	
1	0	<b>[-1]</b>
1	0	-1
1	0	-1
	3×3	

<u> </u>				
0	30	30	0	
0	30	30	0	
0	30	30	0	
0	30	30	0	
14x4				





\*

