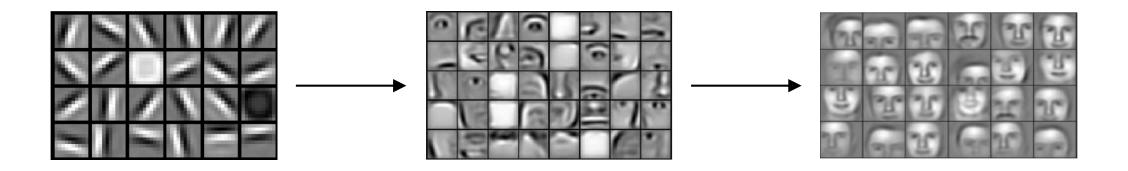
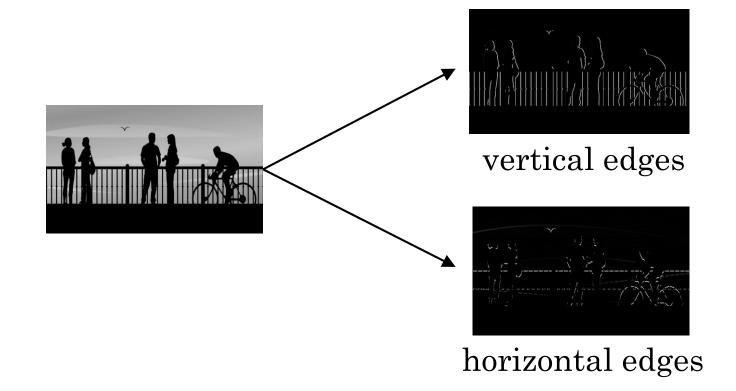


Convolutional Neural Networks

Edge detection example

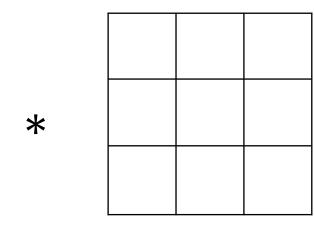
Computer Vision Problem

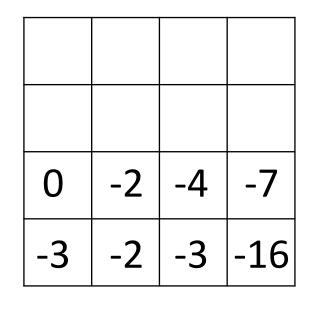




Vertical edge detection

3	0	1	2	7	4
1	5	8-10	9	3	1
2	7	2	5	1	3
0	1	3	1	7-0	8 ⁻¹
4	2	1	6	2	8
2	4	5	2	3	9



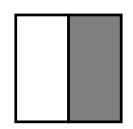


Vertical edge detection

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

1	0	-1
1	0	-1
1	0	-1

0	30	30	0
0	30	30	0
0	30	30	0
0	30	30	0





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