



deeplearning.ai

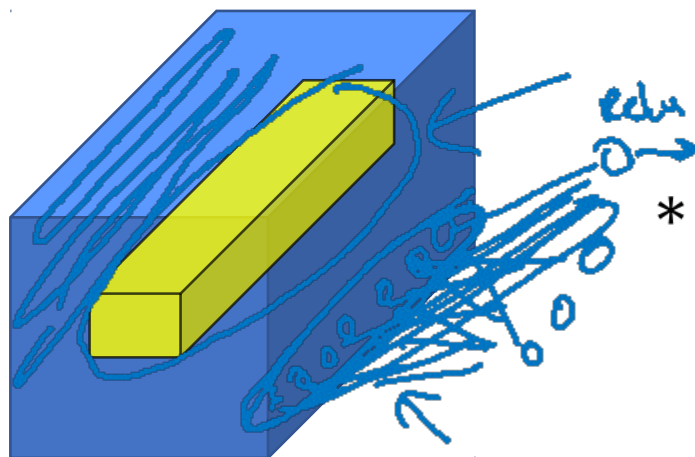
Case Studies

Network
Network
Network and 1x1 convolutions
convolutions

Why does a 1x1 convolution do?

1	2	3	6	5	8
3	5	5	1	3	4
2	1	3	4	9	3
4	7	8	5	7	9
1	5	3	7	4	8
5	4	9	8	3	5

$6 \times 6 \times 1$



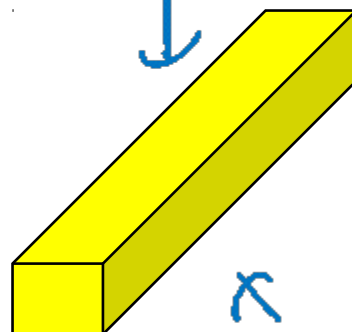
$6 \times 6 \times 32$

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2

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32 \rightarrow # filters.
 $n_c^{[L+1]}$

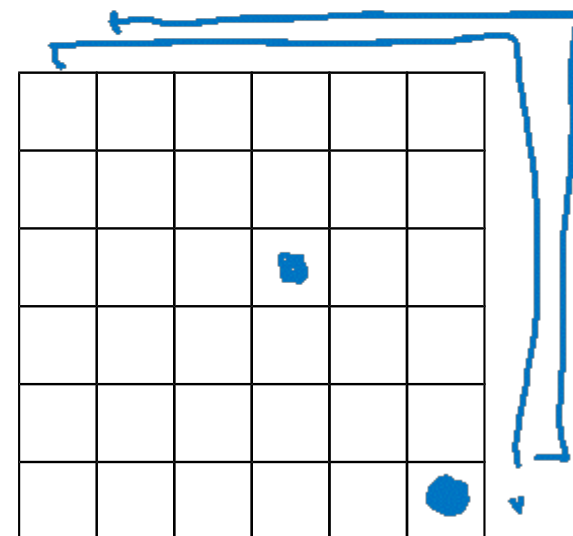


$1 \times 1 \times 32$

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ReLU
Network in
Network

2	4	6	...		



$6 \times 6 \times \text{## filters}$

Using 1x1 convolutions

