

Number of parameters in one layer

If you have 10 filters that are 3 x 3 x 3 in one layer of a neural network, how many parameters does that layer have?

3+3+3

27 pararetes

+ bias

- 28 poonte.

280 parameter.

Andrew Ng

Summary of notation

If layer <u>l</u> is a convolution layer:

```
f[l] = \text{filter size} 
p^{[l]} = \text{padding} 
s^{[l]} = \text{stride} 
\boxed{n_c^{[l]}} = \text{number of filters} 
\Rightarrow \text{Each filter is: } f^{(1)} \times f
```

Andrew Ng