## Why Convolutions? \*CORRECTION\*

Starting around 2:15 minute, the number of parameters should have been:

$$(5*5*3+1)*6 = 456$$

This is based on the equation:

$$(f^{[l]} \times f^{[l]} \times n_c^{[l-1]} + 1) \times n_c^{[l]}$$
.

 $f^{[l]}$  is the filter height (and width).

 $n_c^{[l-1]}$  is the number of channels in the previous layer.

 $n_c^{[l]}$  is the number of channels in the current layer.

The "1" is the bias term.

(It was (5\*5+1)\*6=156 in the video.)