

Consider a convolution layer with 16 filters. Each filter has a size of $11 \times 11 \times 3$, a stride of 2×2 . Given an input image of size $22 \times 22 \times 3$, if we don't allow a filter to fall outside of the input, what is the output size?

- $11 \times 11 \times 16$
- $6 \times 6 \times 16$
- $7 \times 7 \times 16$
- $5 \times 5 \times 16$

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$$\lfloor (n_h - k_h + p_h + s_h) / s_h \rfloor \times \lfloor (n_w - k_w + p_w + s_w) / s_w \rfloor$$

Which of the following are true about AlexNet? Select all that apply.

- A. AlexNet contains 8 layers. The first five are convolutional layers.
- B. The last three layers are fully connected layers.
- C. some of the fully-connected layers are followed by **max-pooling** (layers).
- D. AlexNet achieved excellent performance in the 2012 ImageNet challenge.

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All options are true!

Which of the following statement is True for the success of deep models?

- Better design of the neural networks
- Large scale training dataset
- Available computing power
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