



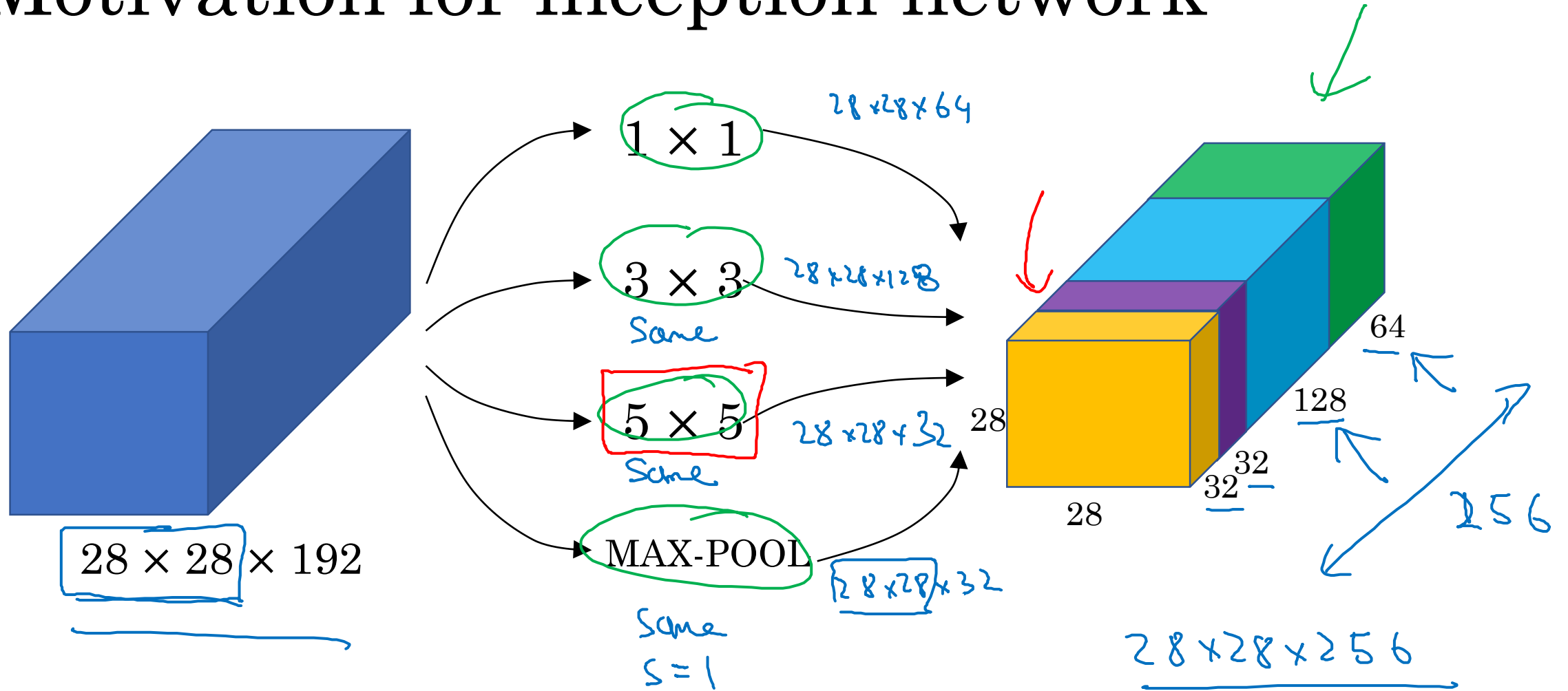
deeplearning.ai

# Case Studies

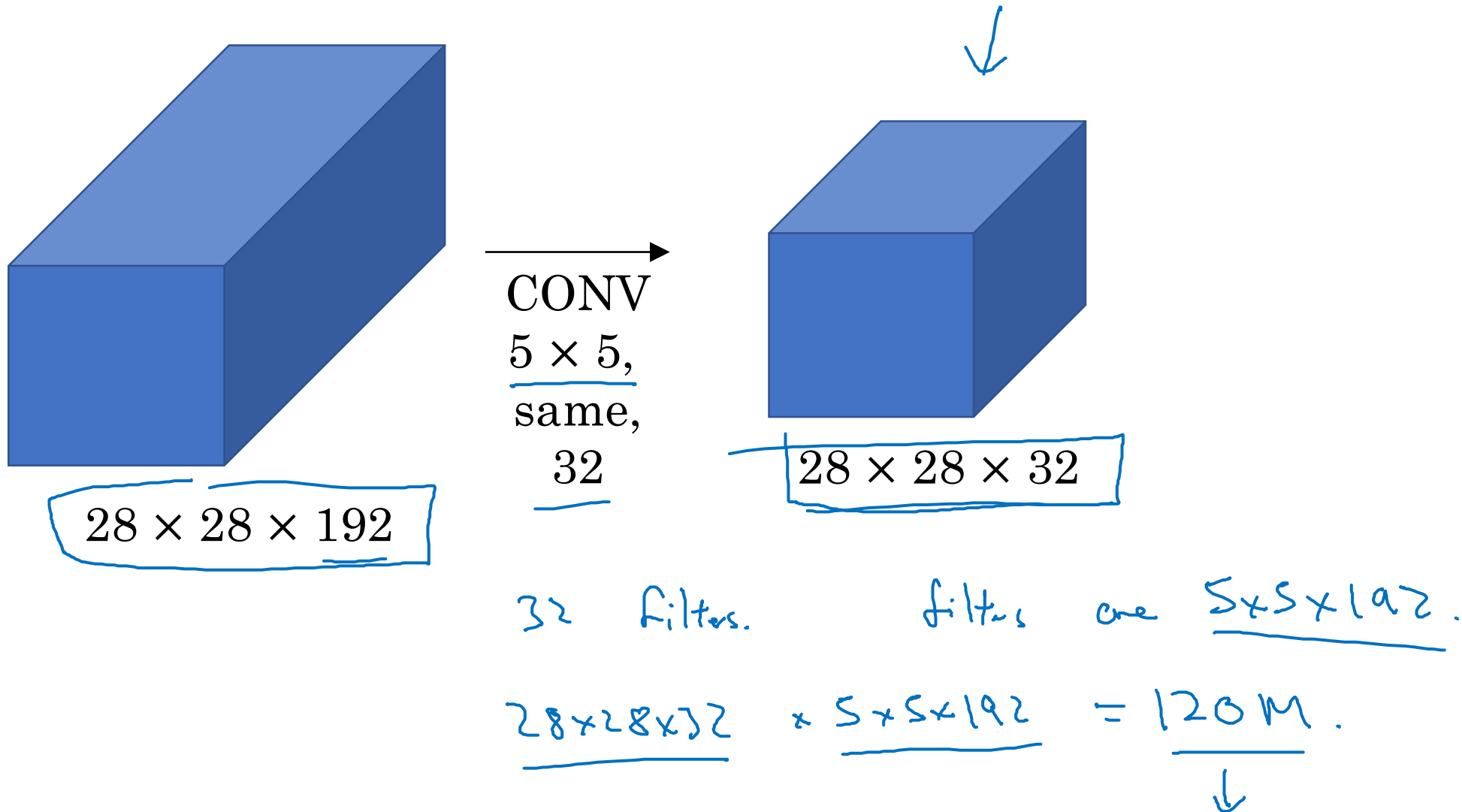
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## Inception network motivation

# Motivation for inception network

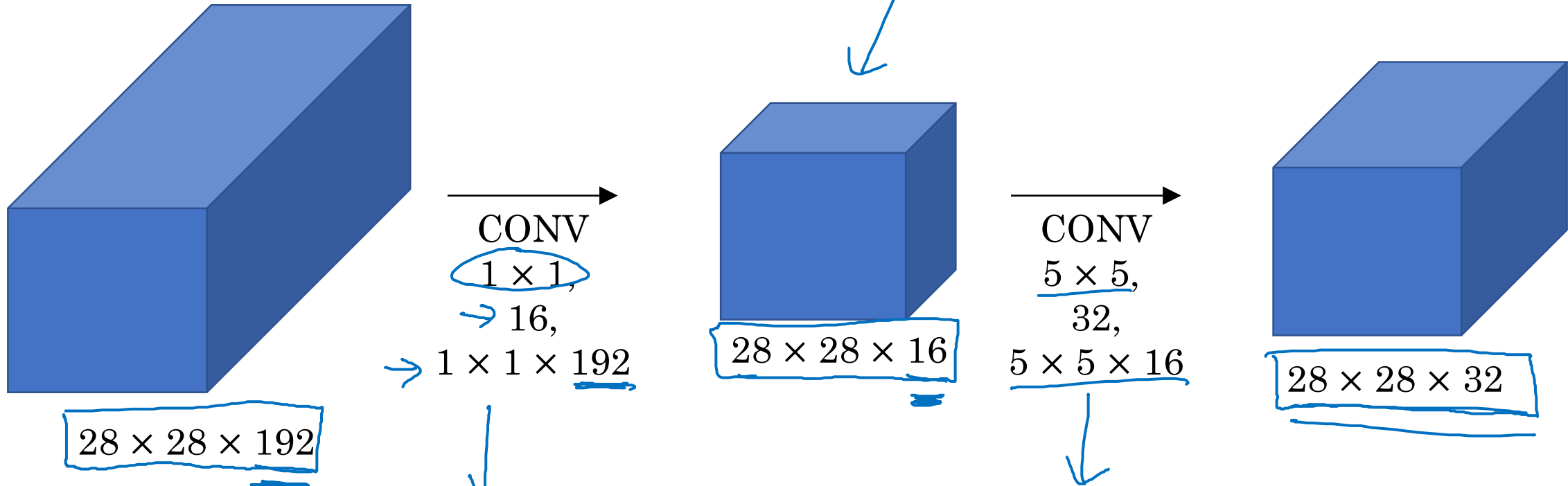
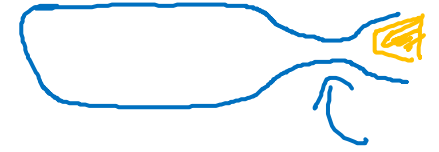


# The problem of computational cost



# Using $1 \times 1$ convolution

"bottleneck layers"



$$28 \times 28 \times 16 \times 192 = 2.4M$$

$$28 \times 28 \times 32 \times 5 \times 5 \times 16 = 10.0M$$

12.4M

120M