



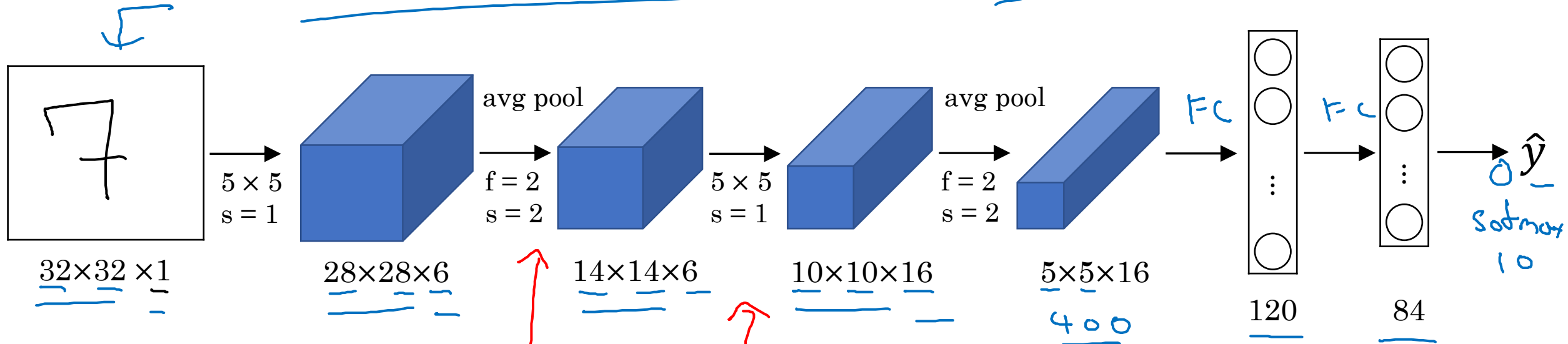
deeplearning.ai

# Case Studies

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## Classic networks

# LeNet - 5



60K parameters.

$n_H, n_W \downarrow$   $n_C \uparrow$

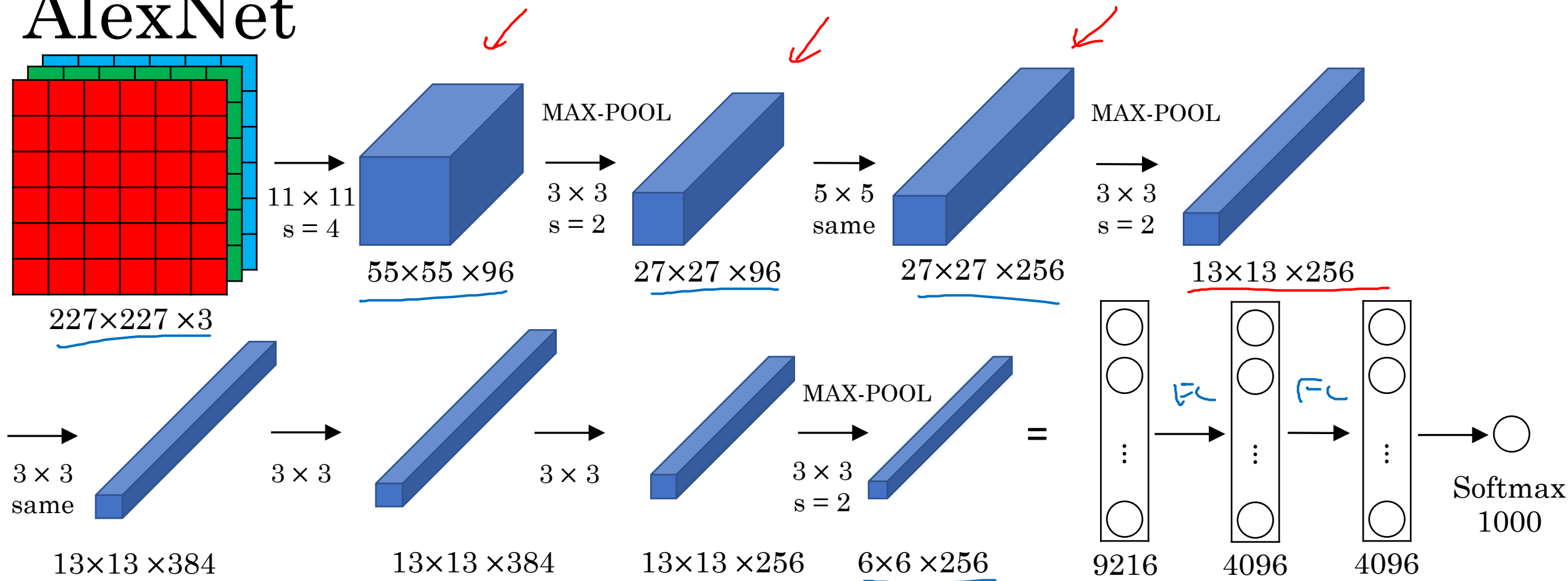
conv pool conv pool fc fc output

Advanced: sigmoid/tanh ReLU

II, III.



# AlexNet

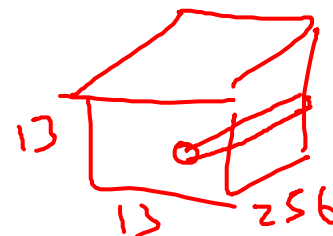


- Similar to LeNet, but much bigger.

- ReLU

- Multiple GPUs.

- Local Response Normalization (LRN)

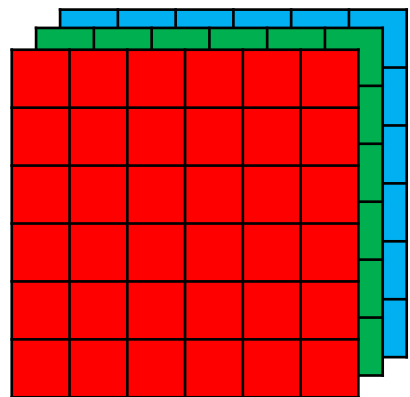


~60M parameters

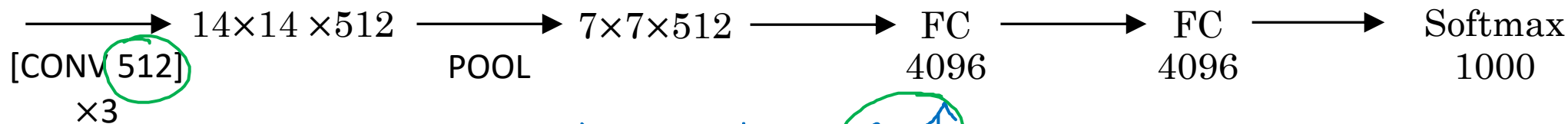
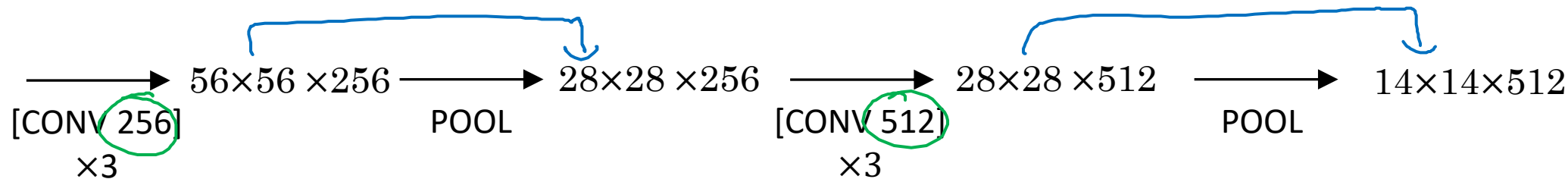
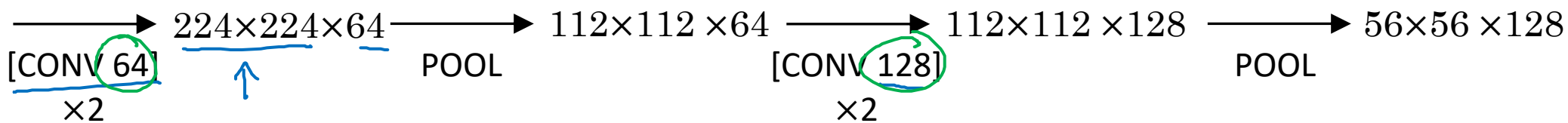
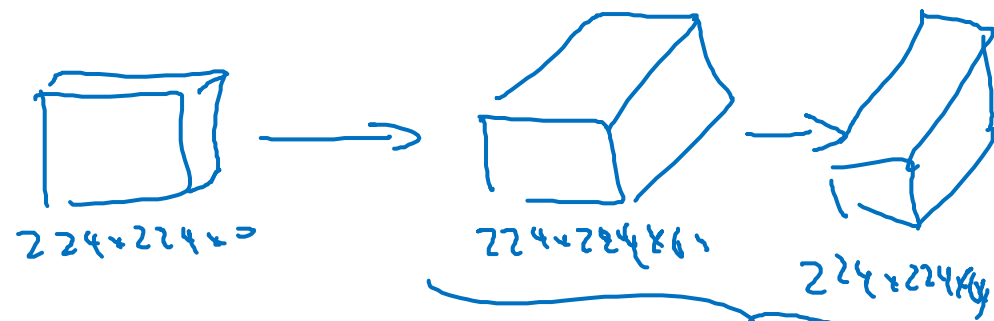
# VGG - 16

CONV = 3x3 filter, s = 1, same

MAX-POOL = 2x2, s = 2



VGG-19



$n_h, n_w \downarrow$

$n_c \uparrow$

~138M