



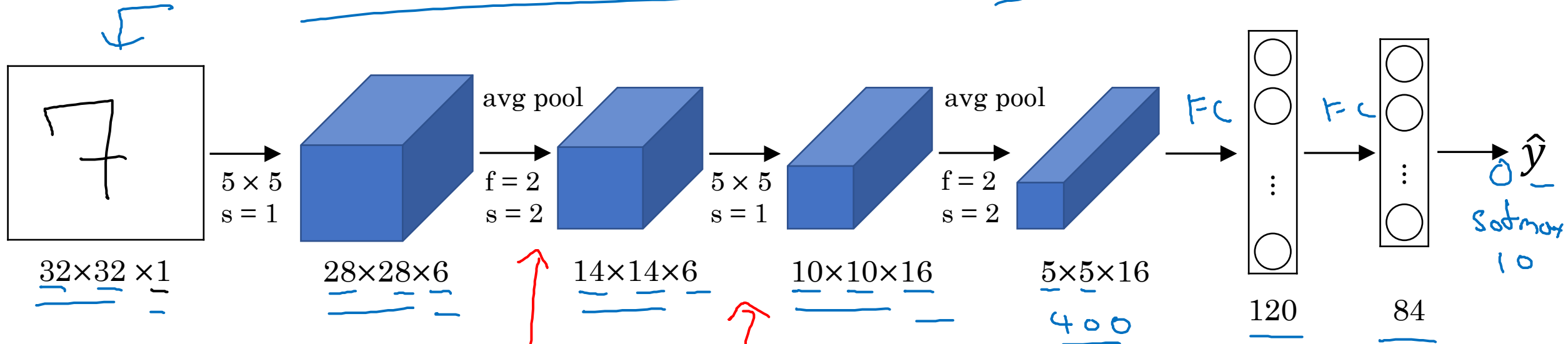
deeplearning.ai

# Case Studies

---

## Classic networks

# LeNet - 5



60K parameters.

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

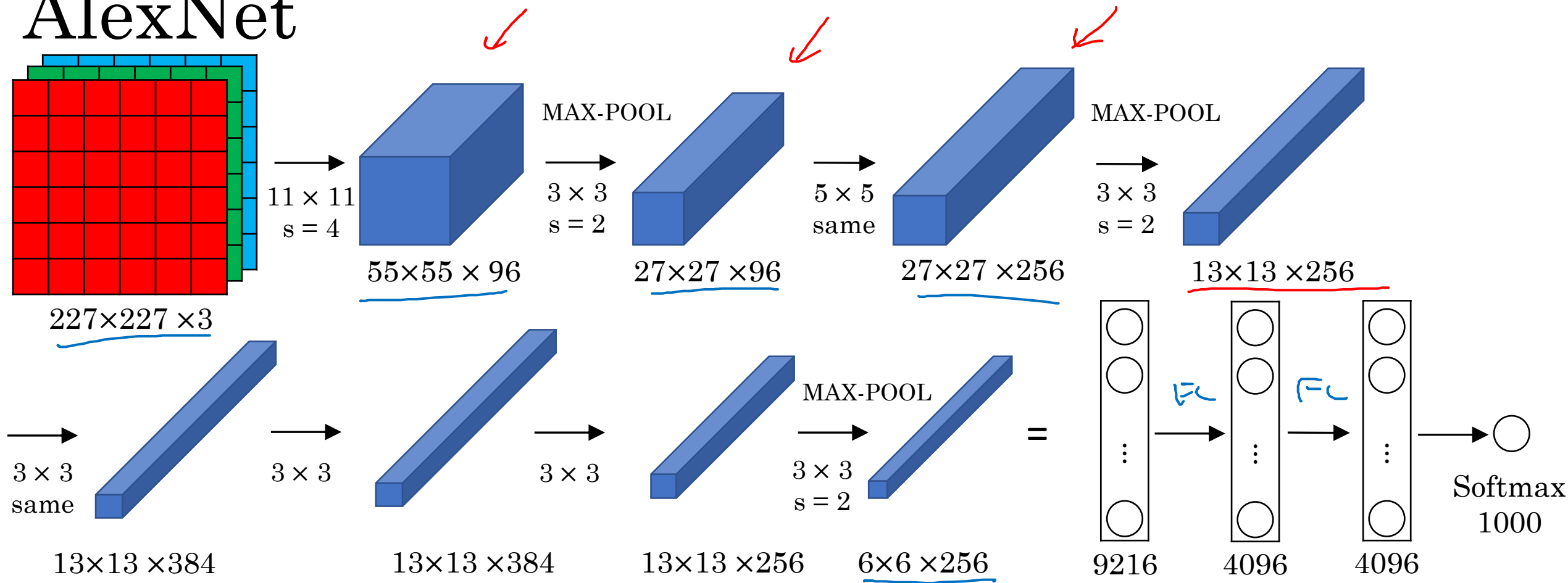
conv pool conv pool fc fc output

Advanced: sigmoid/tanh ReLU

II, III.

↓

# AlexNet

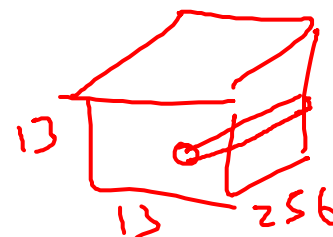


- Similar to LeNet, but much bigger.

- ReLU

- Multiple GPUs.

- Local Response Normalization (LRN)

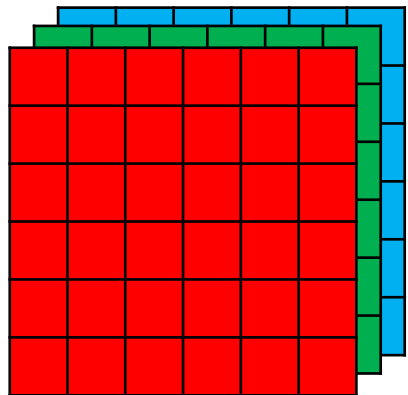


~60M parameters

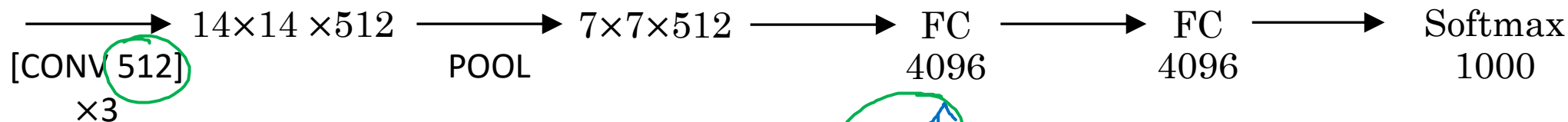
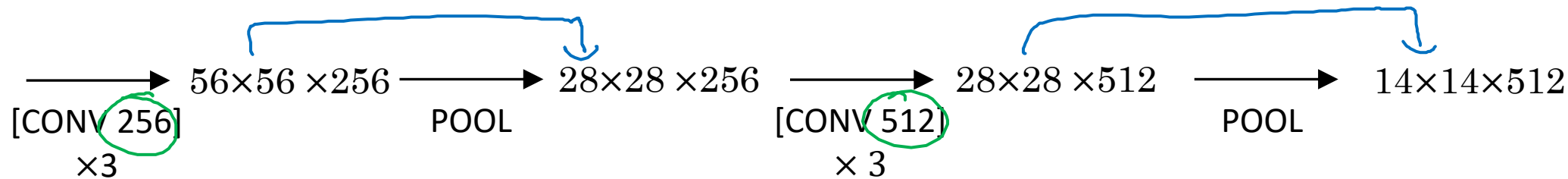
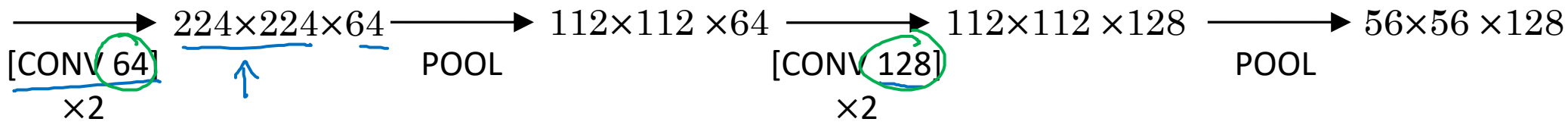
# VGG - 16

CONV = 3x3 filter, s = 1, same

MAX-POOL = 2x2, s = 2



224x224x3



$n_h, n_w \downarrow$

$n_c \uparrow$

$\sim 138M$

