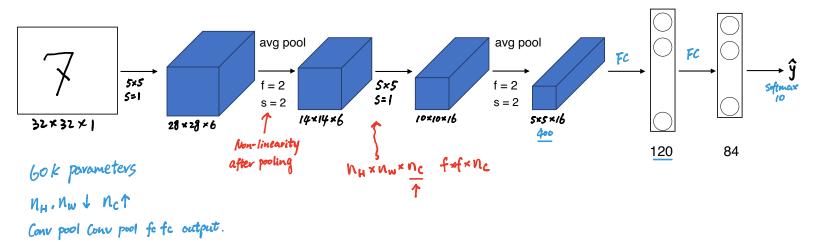


## Case Studies

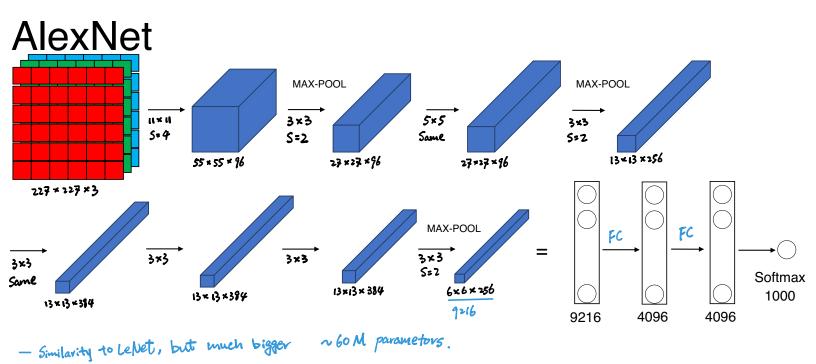
## Classic networks

## LeNet - 5



-Advanced: Sigmoid/tanh Relu

[LeCun et al., 1998. Gradient-based learning applied to document recognition]

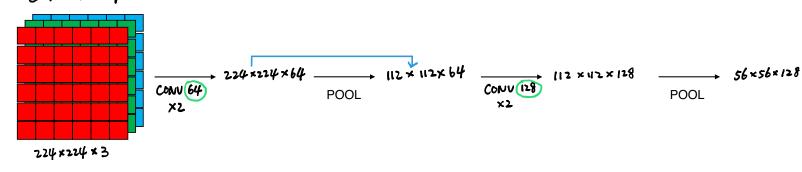


- Relu
- Multiple GPUs
- Local Response Normalization.



VGG - 16 — 16 layers with weight. VGG - 19 Even bigger.

CONV=3×3 fitter, S=1, Same MAX-POOL=2x2, S=2



~ 138 M

[Simonyan & Zisserman 2015. Very deep convolutional networks for large-scale image recognition]

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