

Why look at case studies?

#### Outline

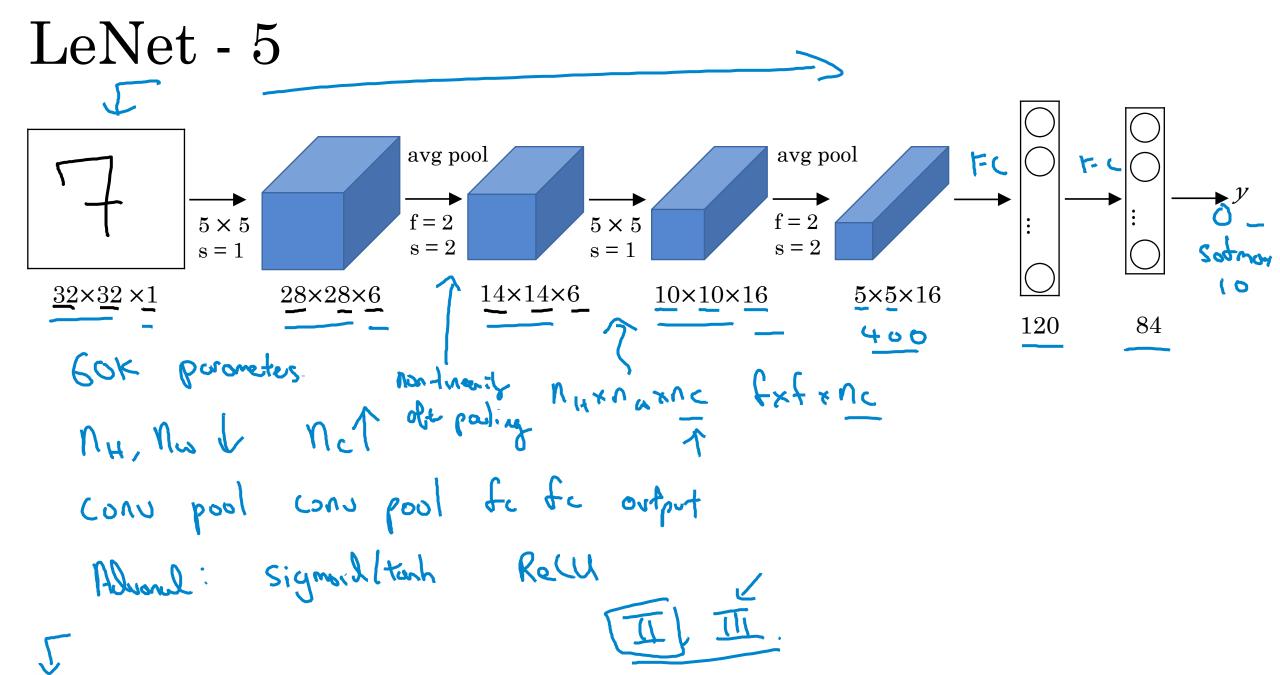
#### Classic networks:

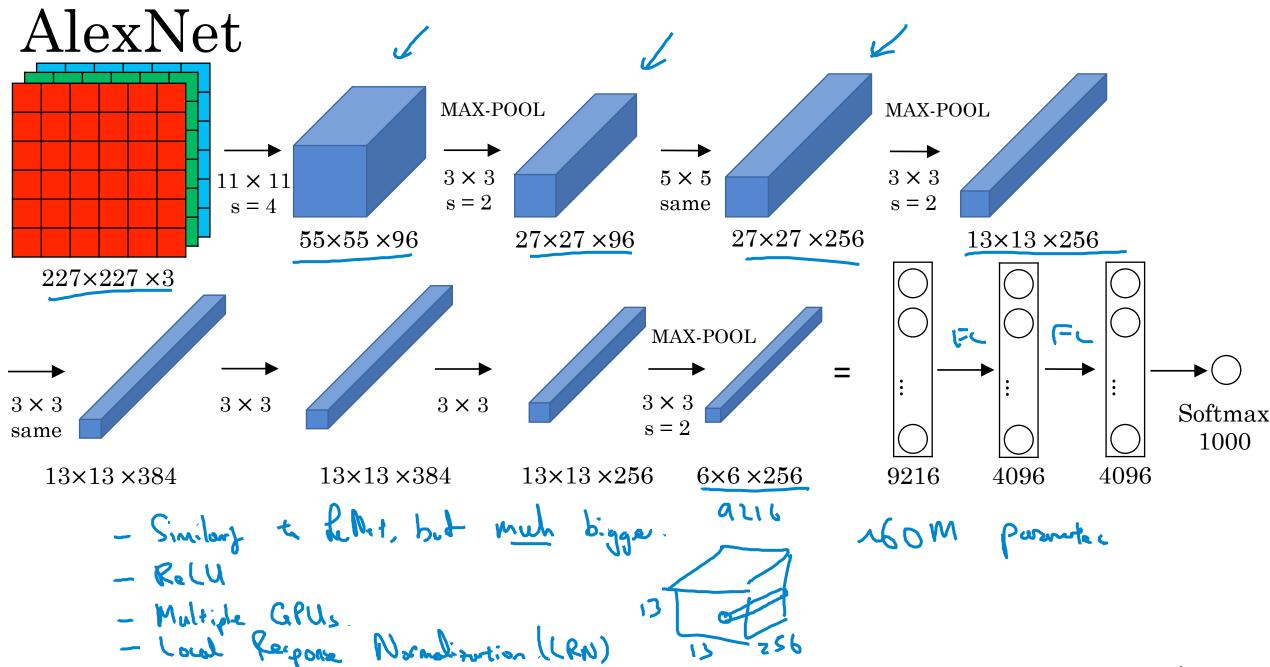
- LeNet-5 <
- AlexNet <
- VGG <

Inception



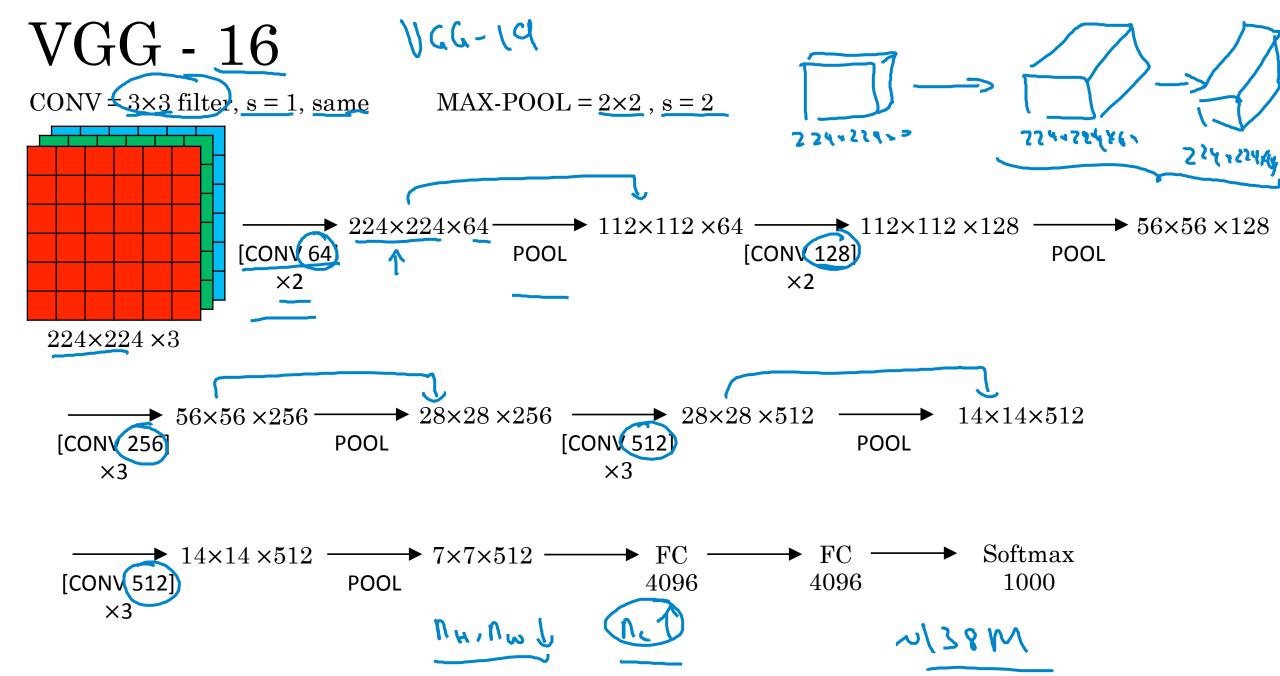
Classic networks





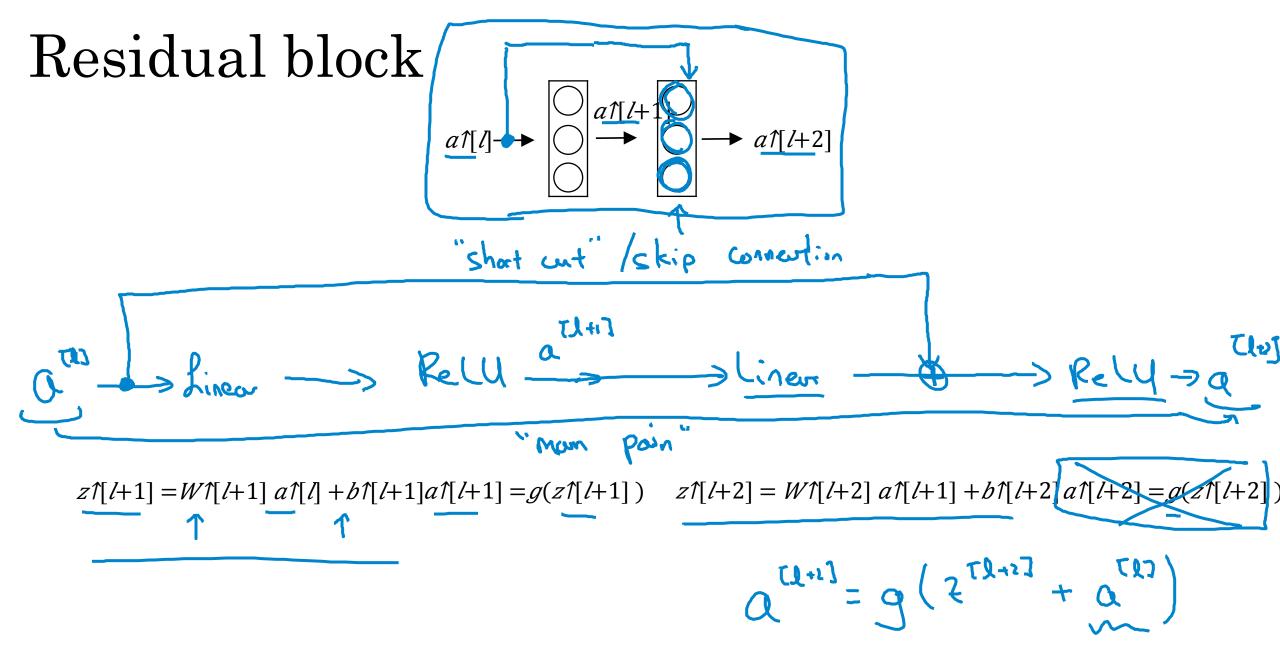
[Krizhevsky et al., 2012. ImageNet classification with deep convolutional neural networks]

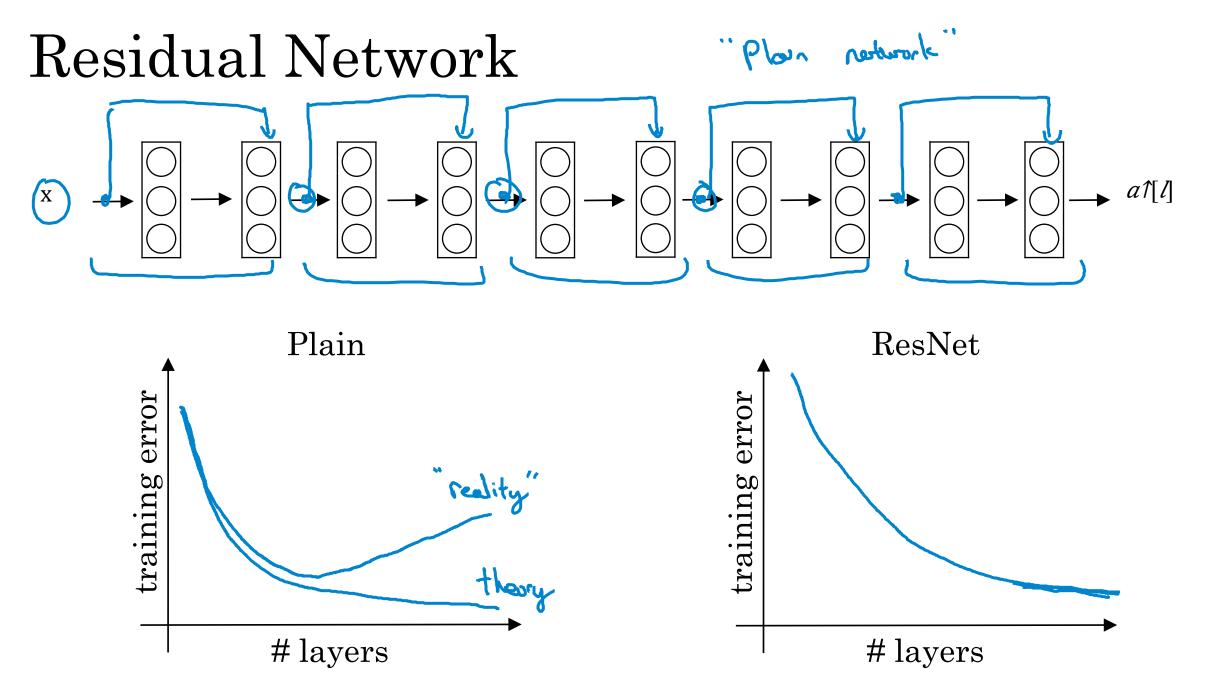
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# Residual Networks (ResNets)

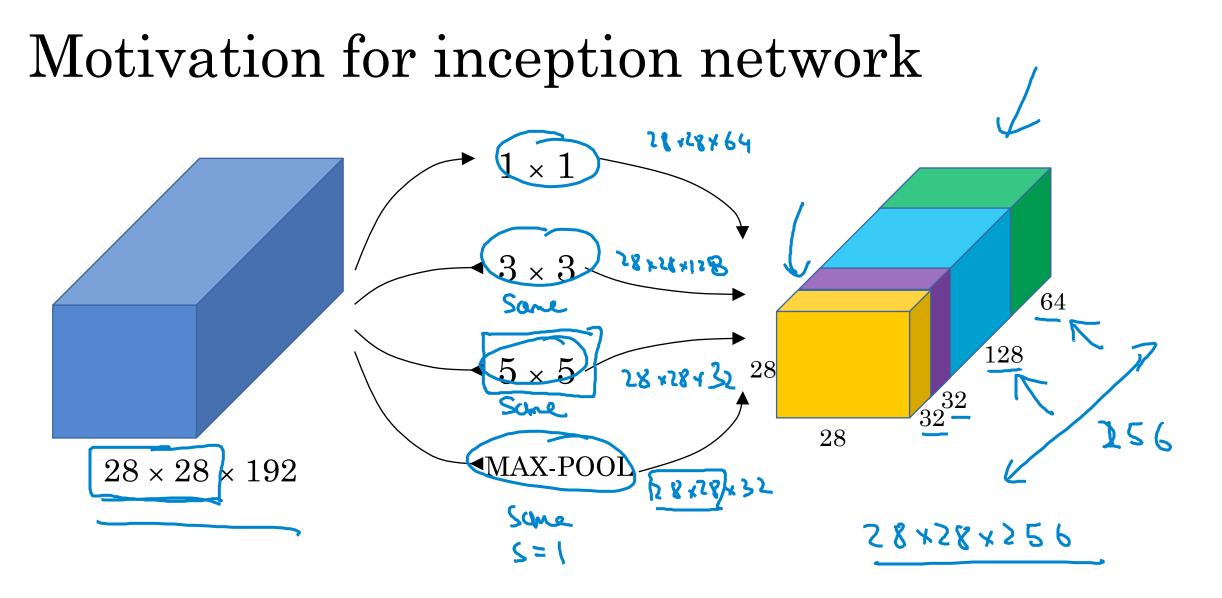




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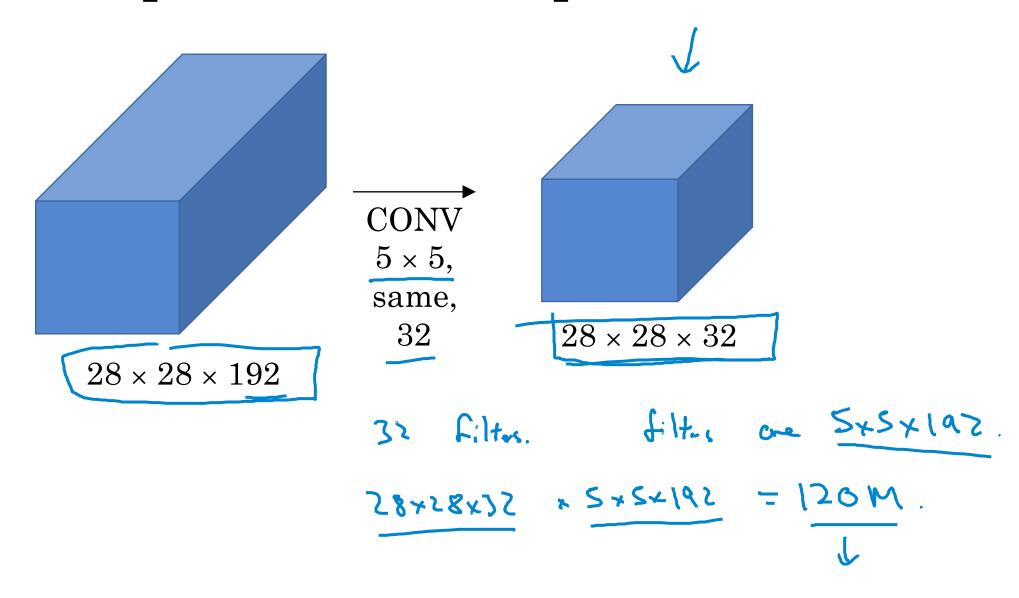


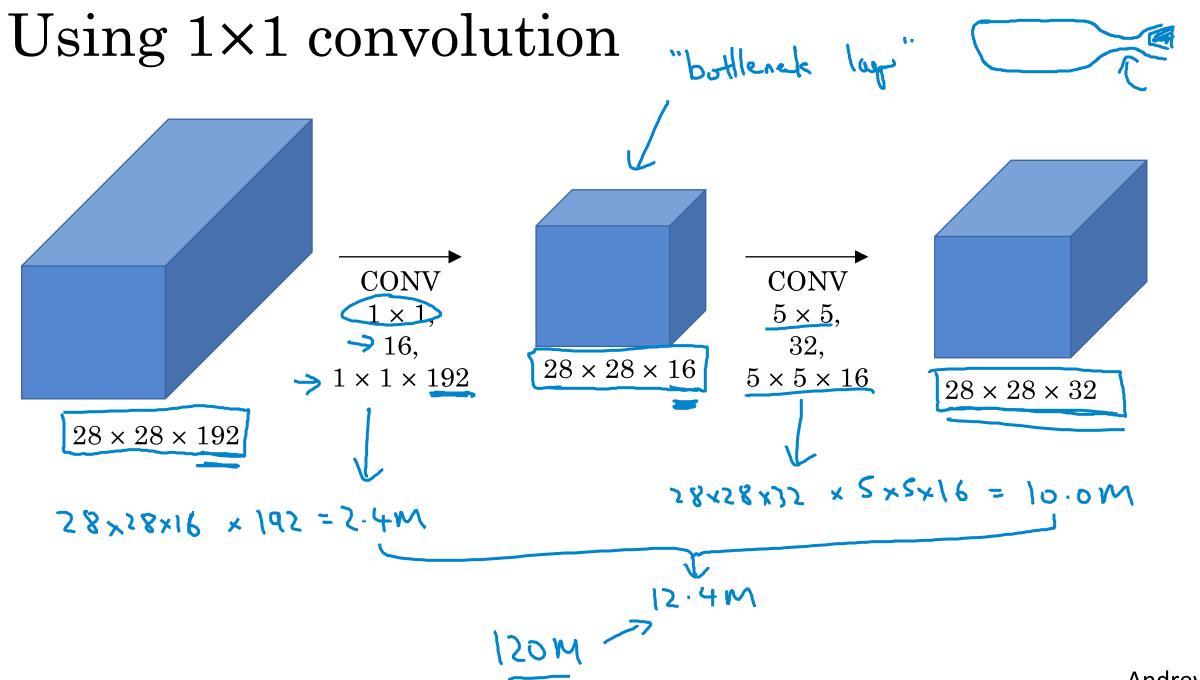
Inception network motivation





#### The problem of computational cost







Inception network

