

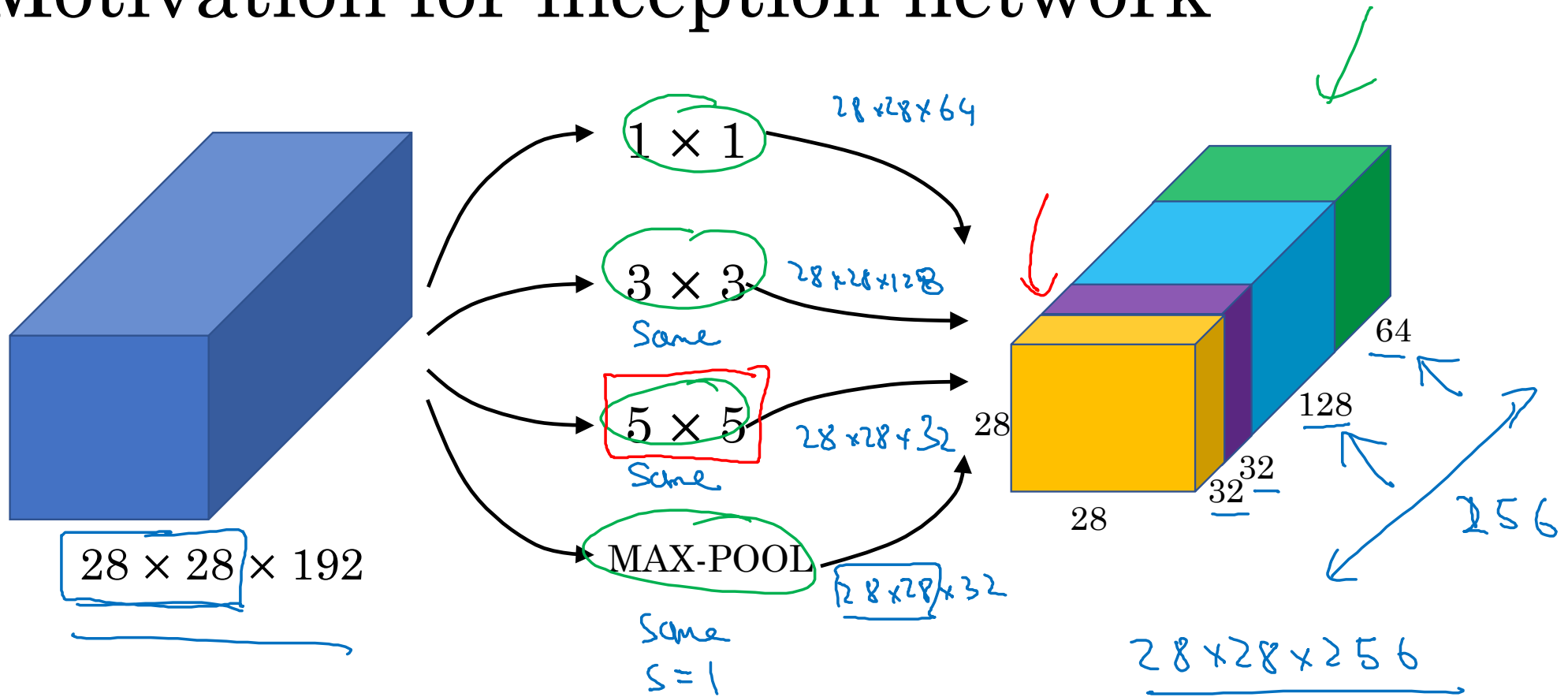


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Case Studies

Inception network motivation

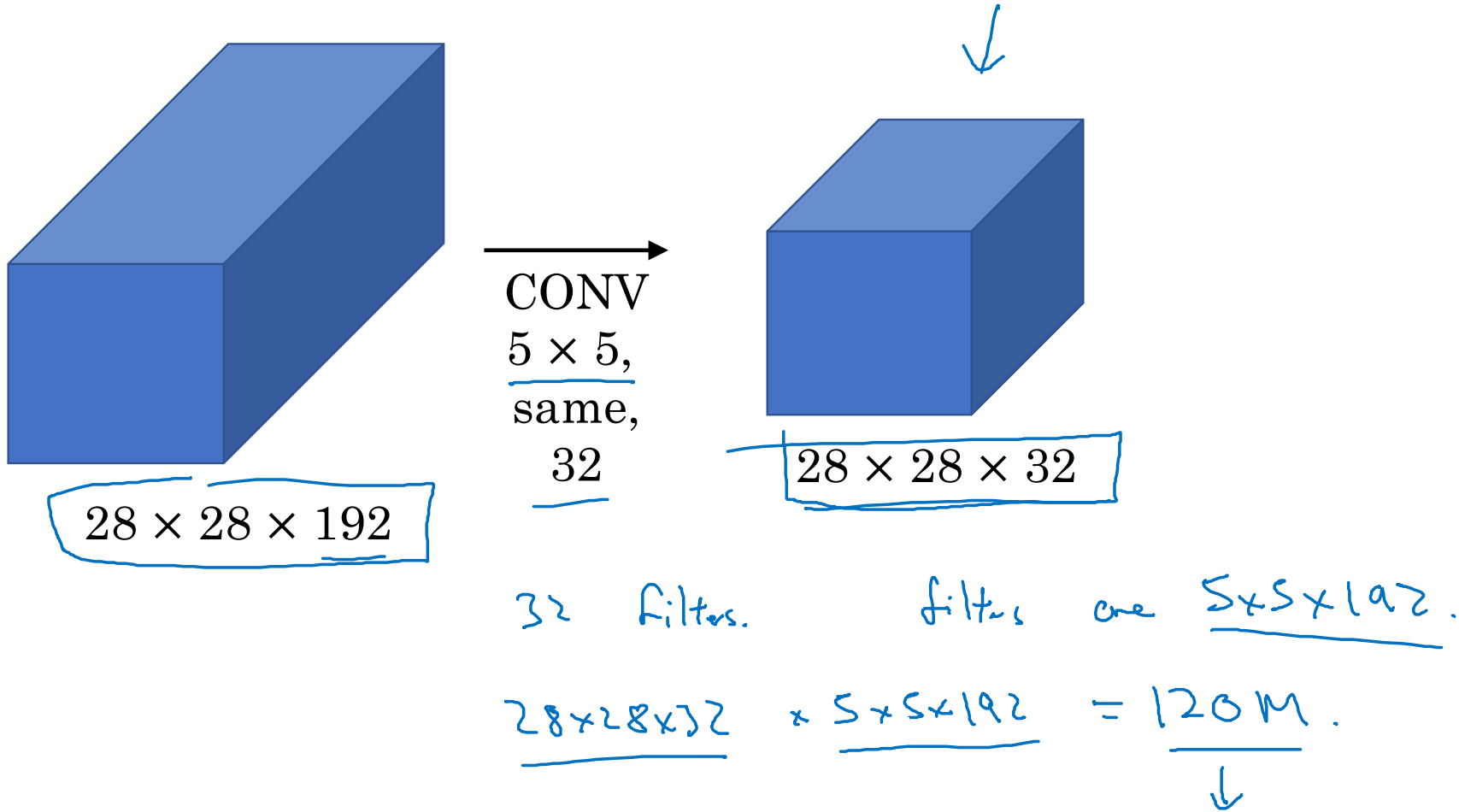
Motivation for inception network



[Szegedy et al. 2014. Going deeper with convolutions]

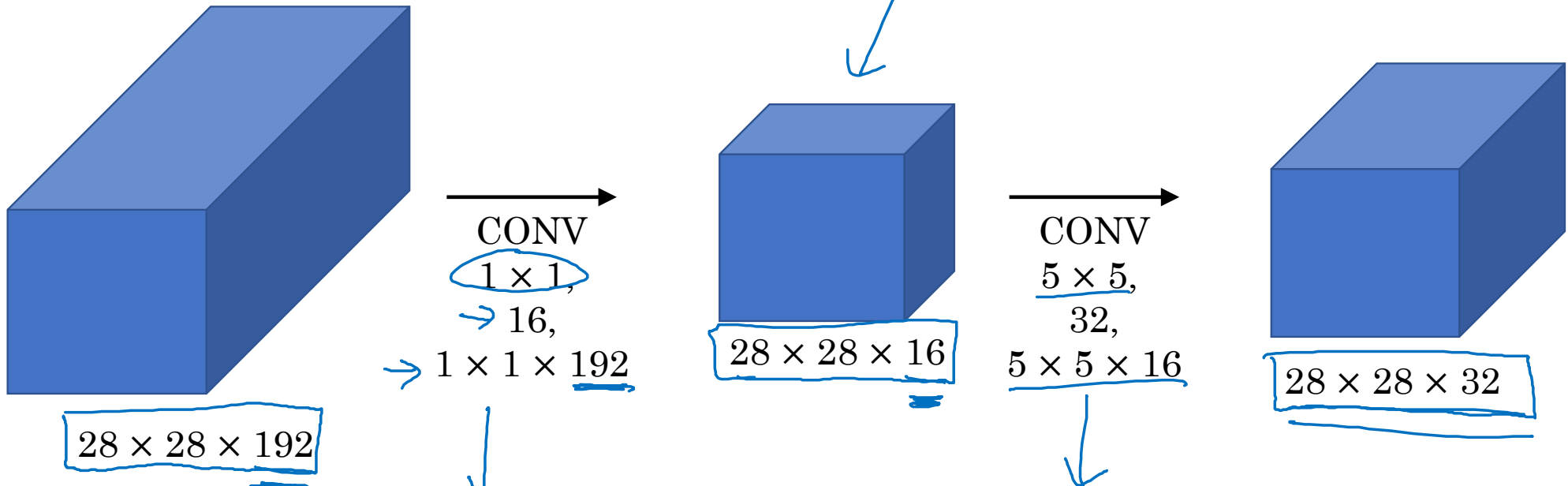
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The problem of computational cost



Using 1x1 convolution

"bottleneck layer"



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

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

$$12.4M$$

120M

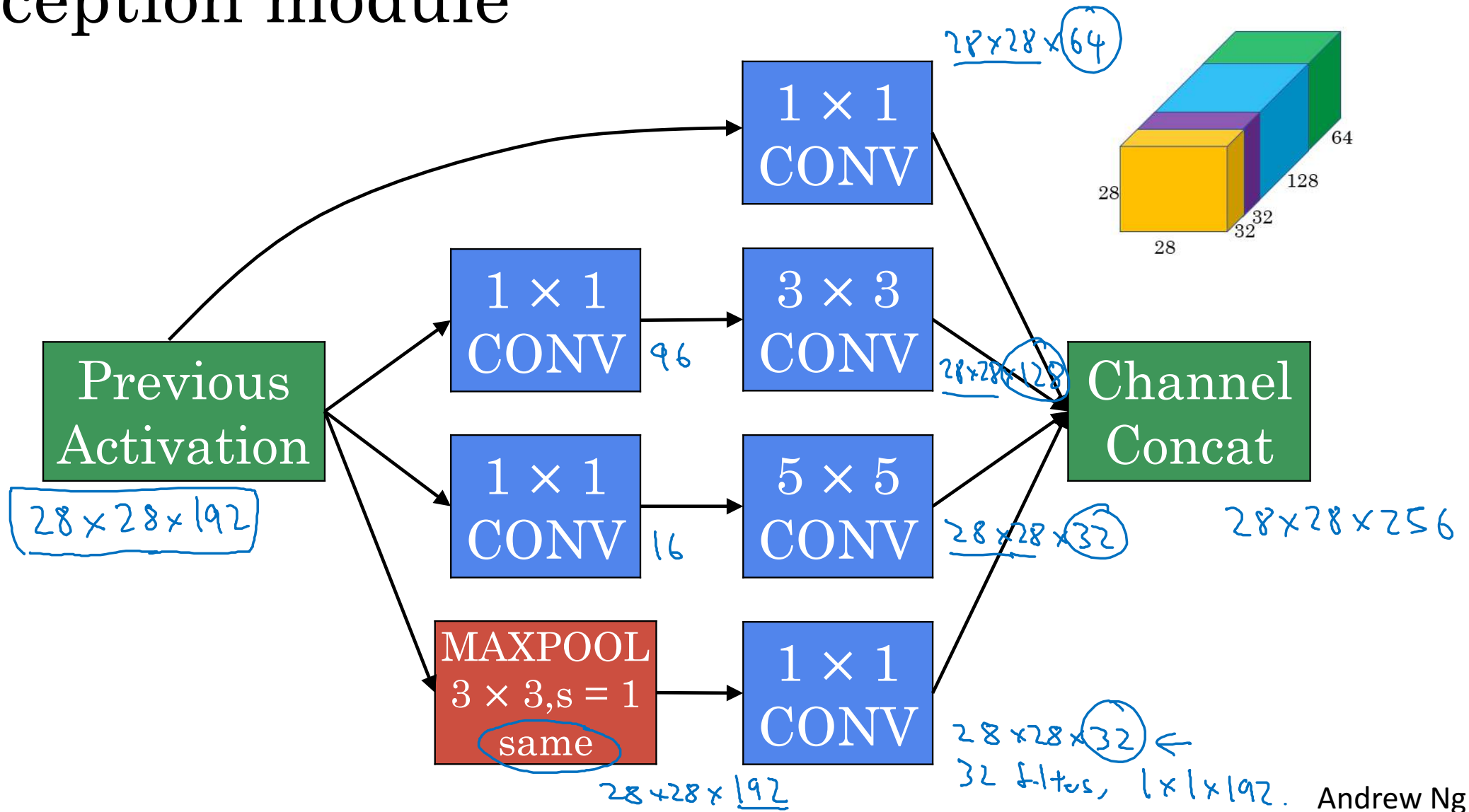


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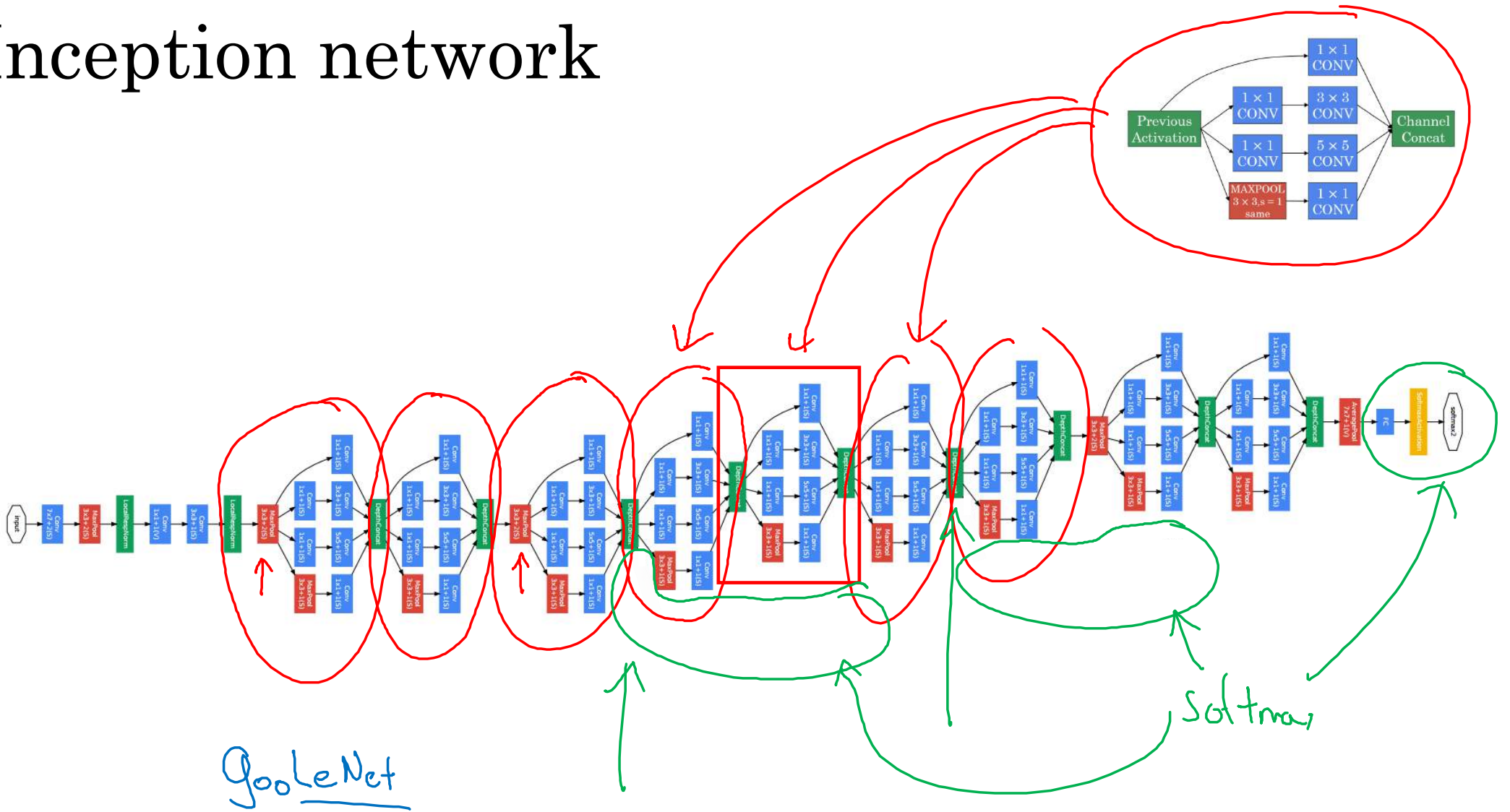
Case Studies

Inception network

Inception module



Inception network



[Szegedy et al., 2014, Going Deeper with Convolutions]

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