

# 1x1 convolutions and factorization

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# 1x1 convolutions and factorization

- Convolutions are linear operators
- Can we make them non-linear?

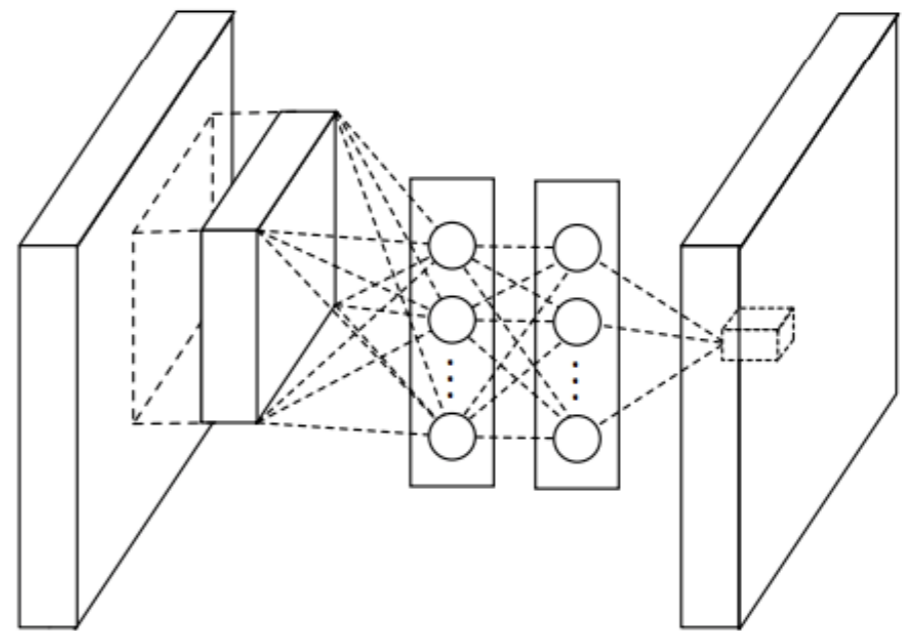
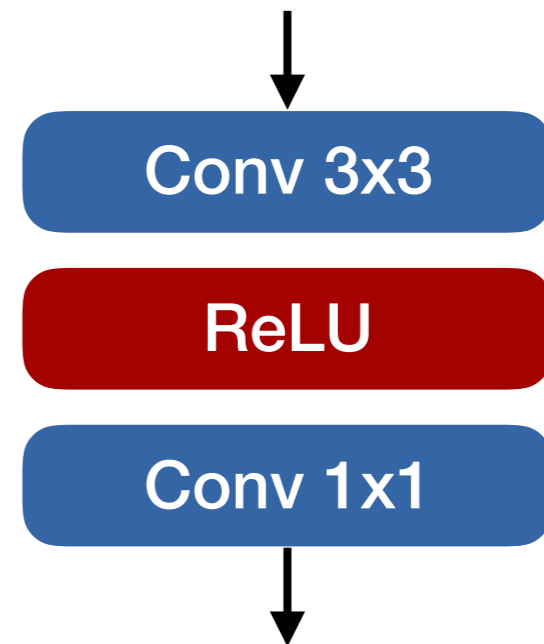


Figure source: "Network-in-Network",  
ICLR 2014 paper

# Factorized convolution

- Implements “non-linear” convolution



# Why factorized convolution?

- Less computation
- Fewer parameters

