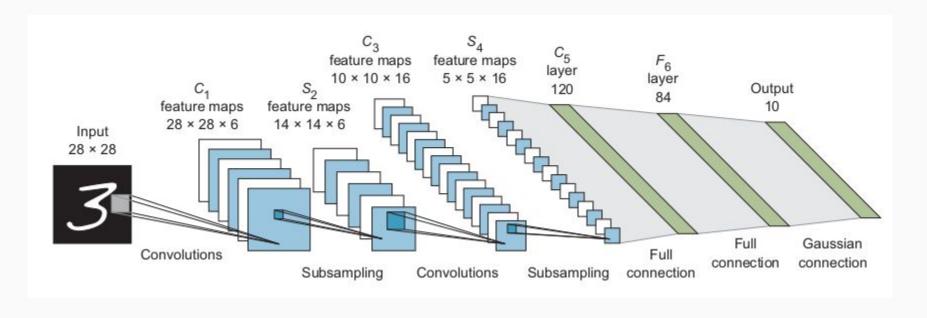
Network Architectures

LeNet architecture



Tanh as the activation function!



14,197,122 images, 21841 synsets indexed

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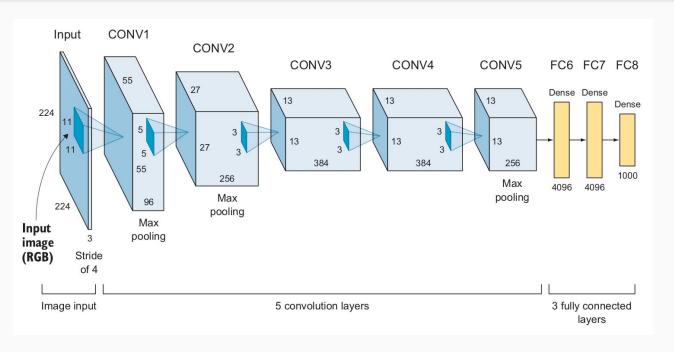
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ImageNet is an image database organized according to the **WordNet** hierarchy (currently only the nouns), in which each node of the hierarchy is depicted by hundreds and thousands of images. The project has been **instrumental** in advancing computer vision and deep learning research. The data is available for free to researchers for non-commercial use.

Mar 11 2021. ImageNet website update.

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AlexNet: The Tipping Point

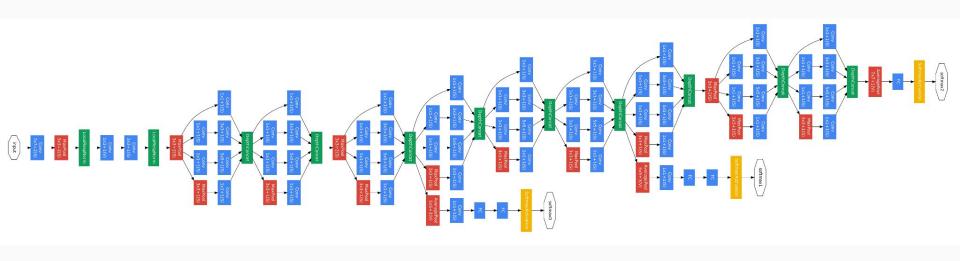


- Convolutional layers with the following kernel sizes: 11 × 11, 5 × 5, and 3 × 3
- Max pooling layers for images downsampling
- Dropout layers to avoid overfitting
- Unlike LeNet, ReLU activation functions in the hidden layers

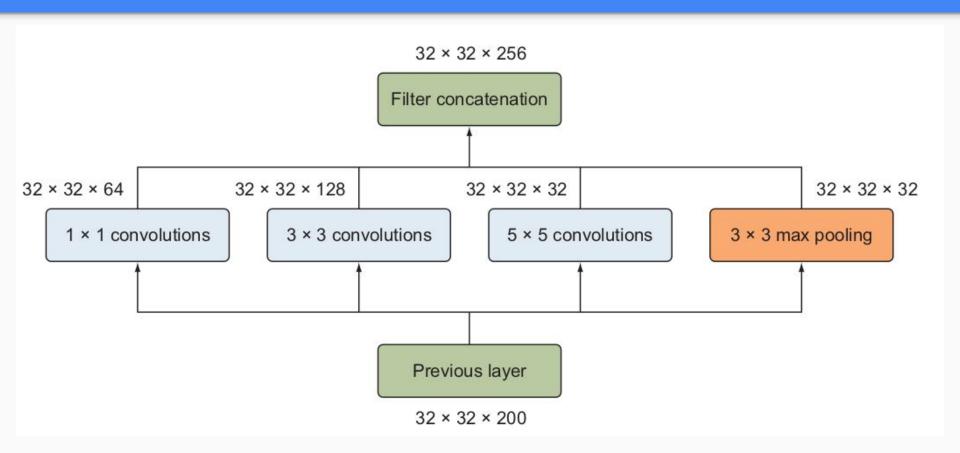




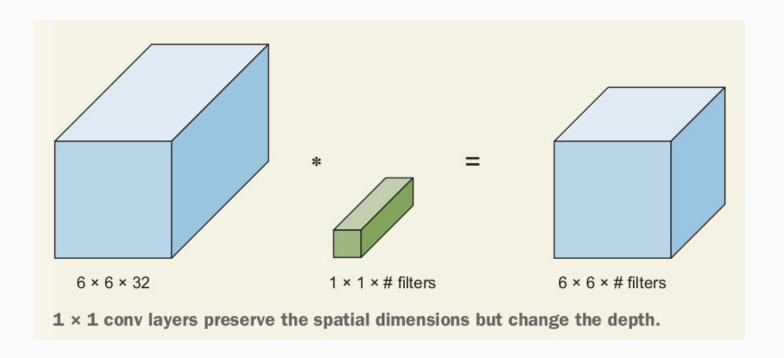
Inception and GoogLeNet



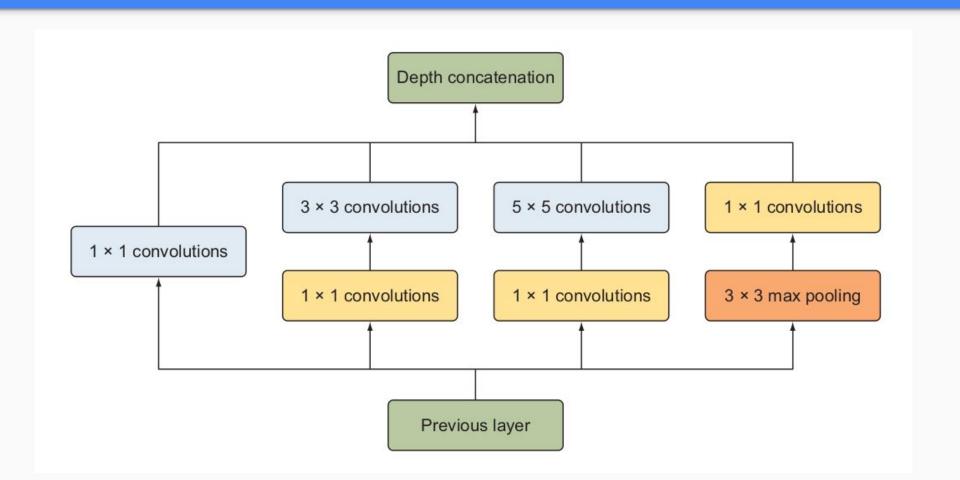
Inception Module: Naive Approach



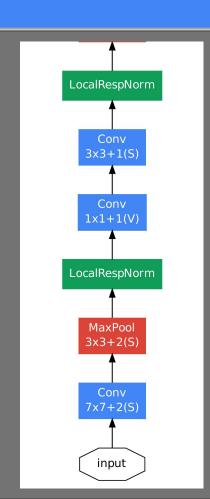
1 × 1 Convolutional (Bottleneck) Layers

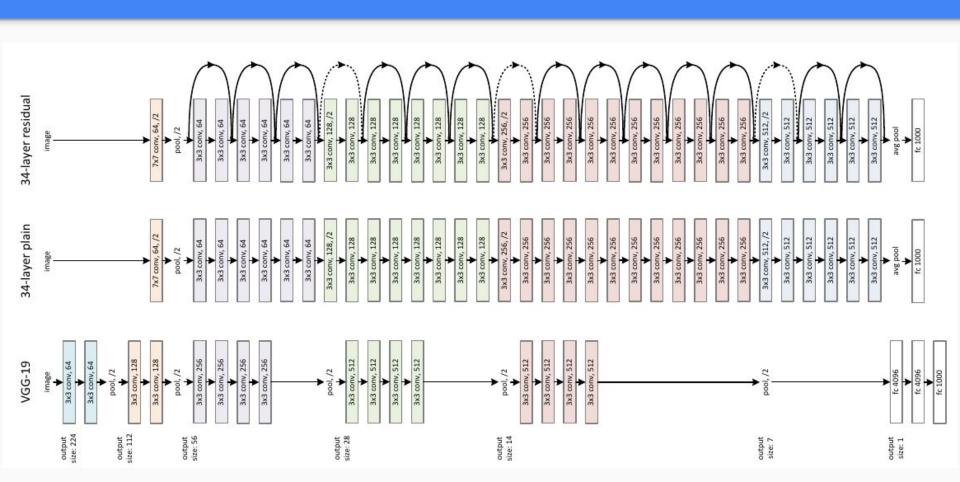


Inception Module

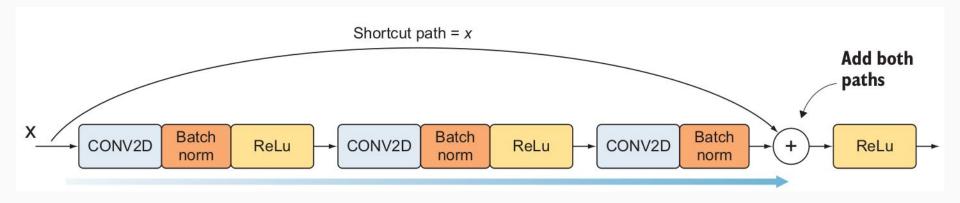


Inception and GoogLeNet





Residual Block: Same input and output



Residual Block

