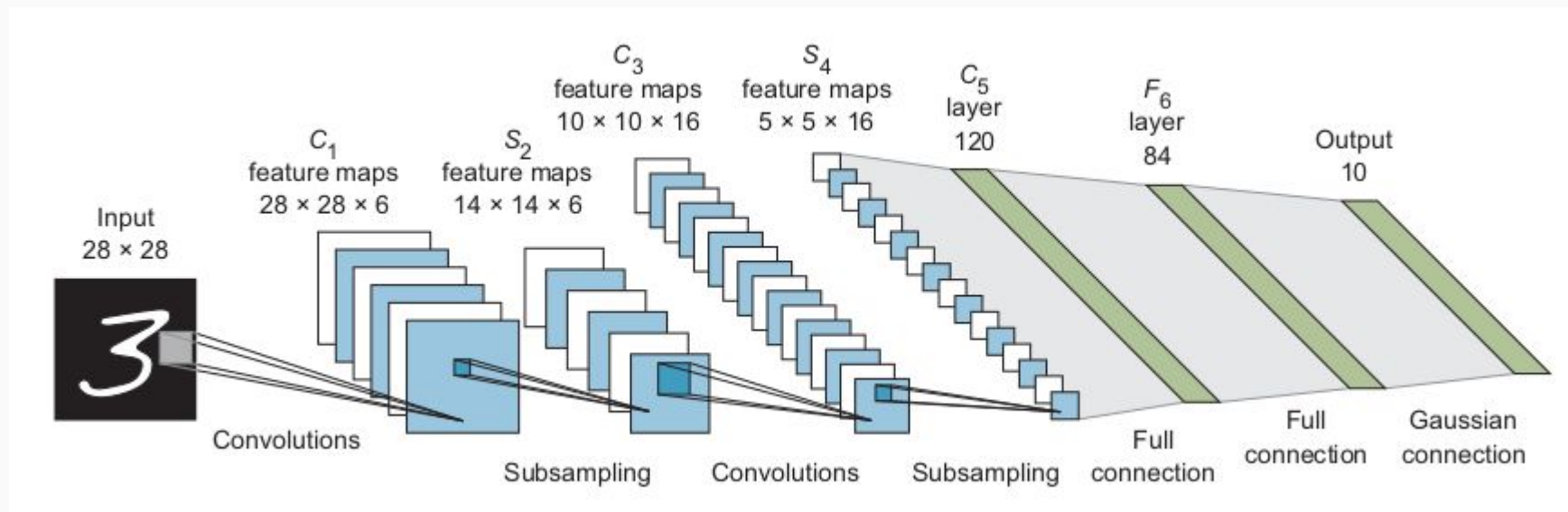


# Network Architectures

## LeNet architecture



Tanh as the activation function!



14,197,122 images, 21841 synsets indexed

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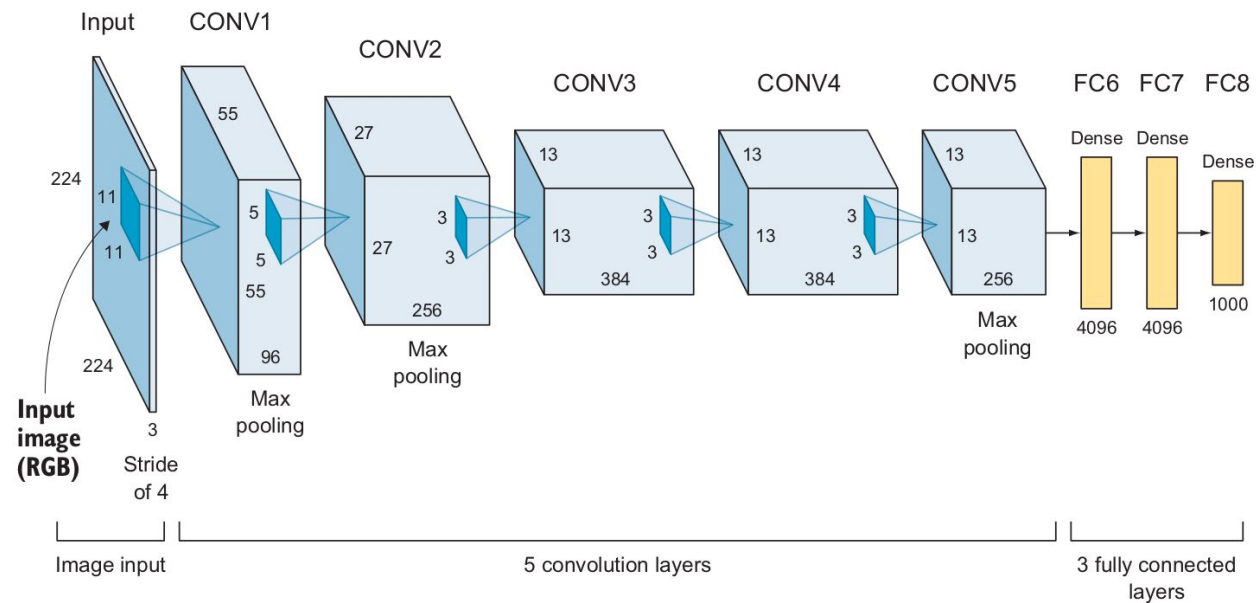
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**ImageNet** is an image database organized according to the **WordNet** hierarchy (currently only the nouns), in which each node of the hierarchy is depicted by hundreds and thousands of images. The project has been **instrumental** in advancing computer 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:  $11 \times 11$ ,  $5 \times 5$ , and  $3 \times 3$
- Max pooling layers for images downsampling
- Dropout layers to avoid overfitting
- Unlike LeNet, ReLU activation functions in the hidden layers