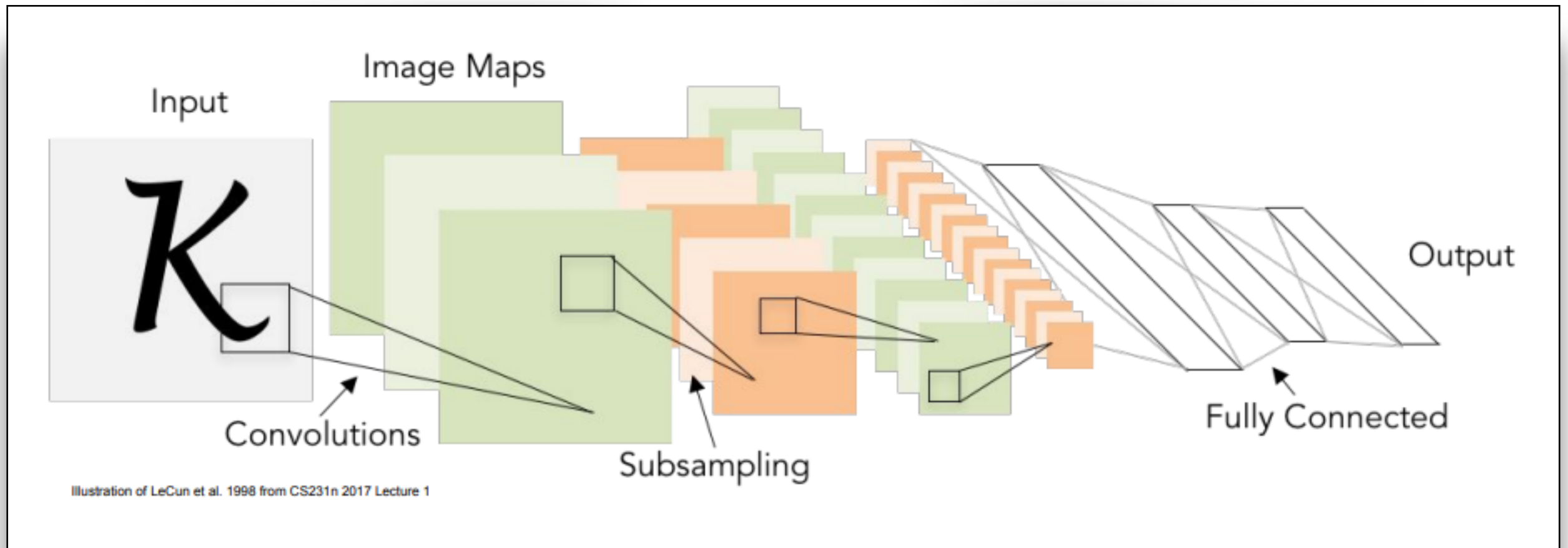


4. Convolutional Neural Networks (CNN)

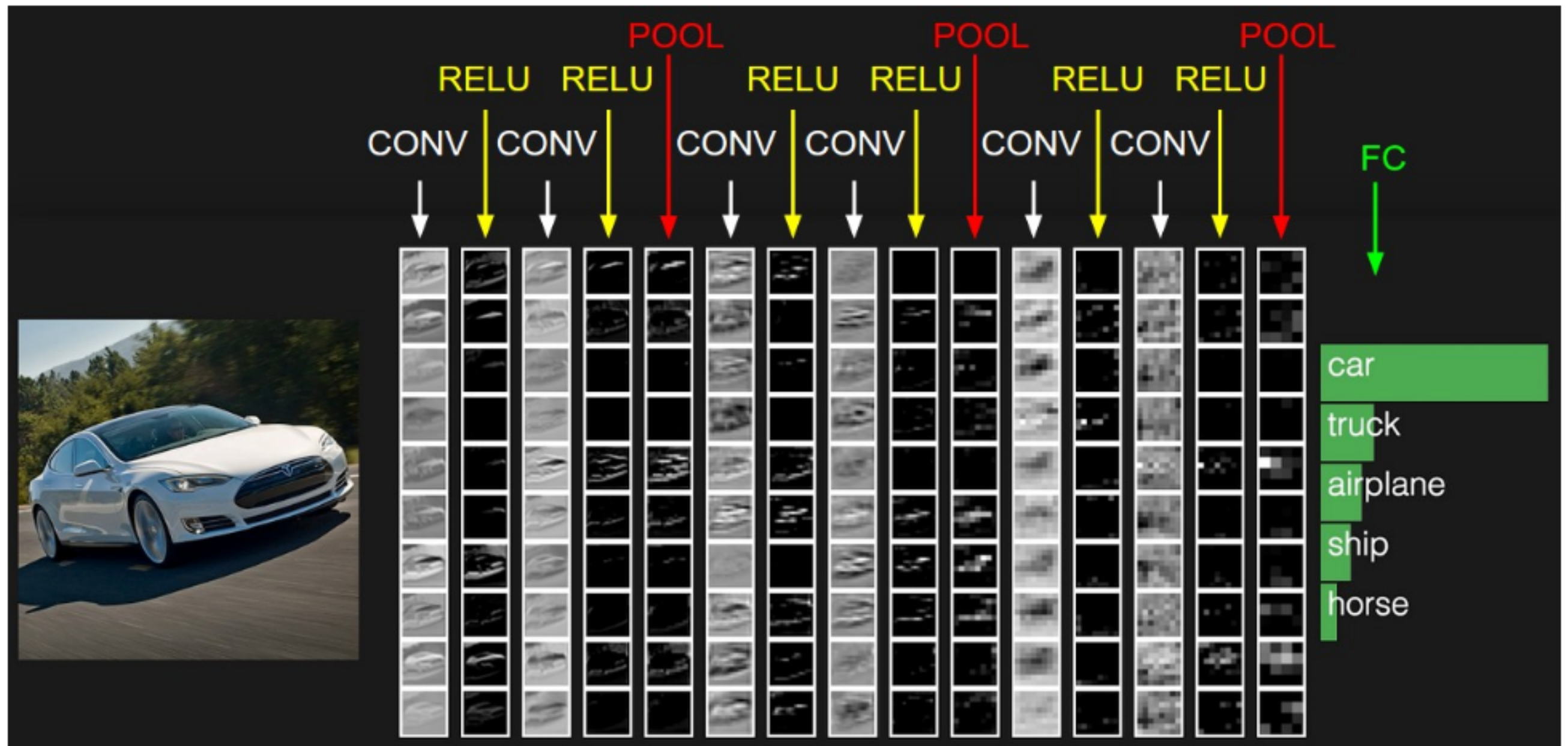
ConvNets (CNN)



李飛飛教授：Convolutional Neural Networks (教學投影片)
(http://cs231n.stanford.edu/slides/2017/cs231n_2017_lecture5.pdf)

ConvNets (CNN)

(cont'd)



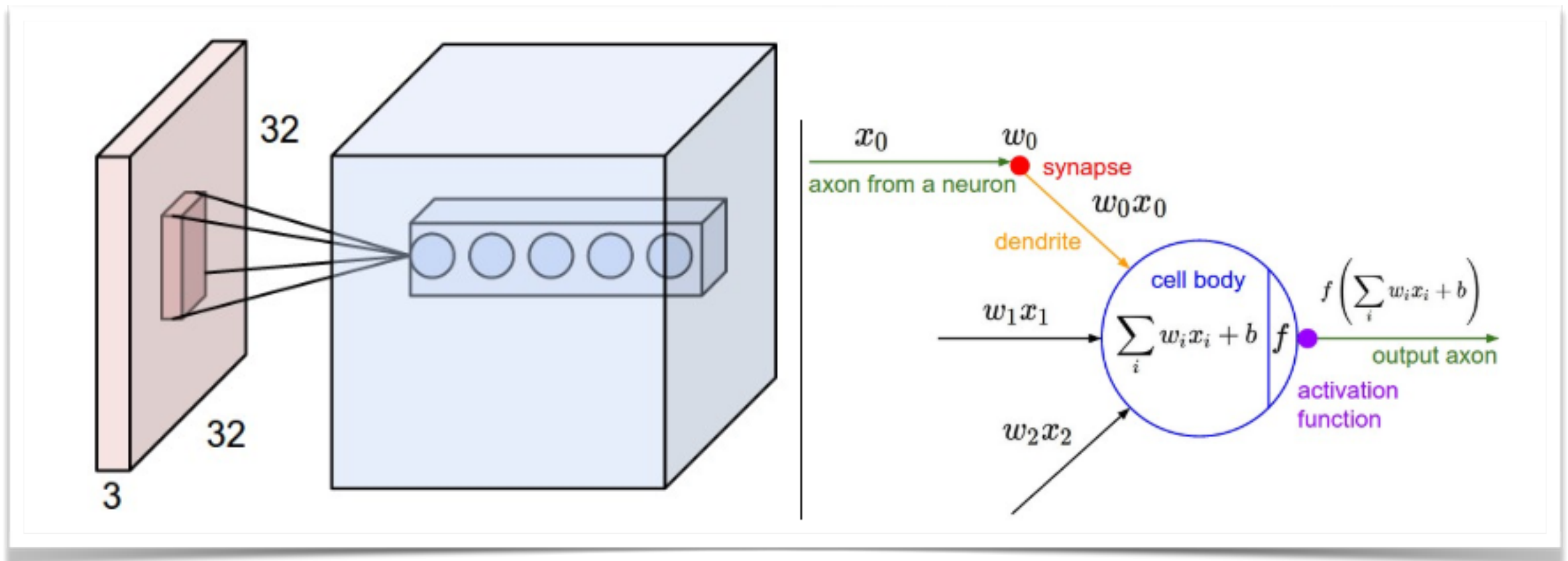
李飛飛教授：Convolutional Neural Networks (CNNs / ConvNets)
(<https://cs231n.github.io/convolutional-networks/>)

ConvNets (CNN)

(cont'd)

Convolution Layer

2D Convolution — with filters \Rightarrow Local Patterns

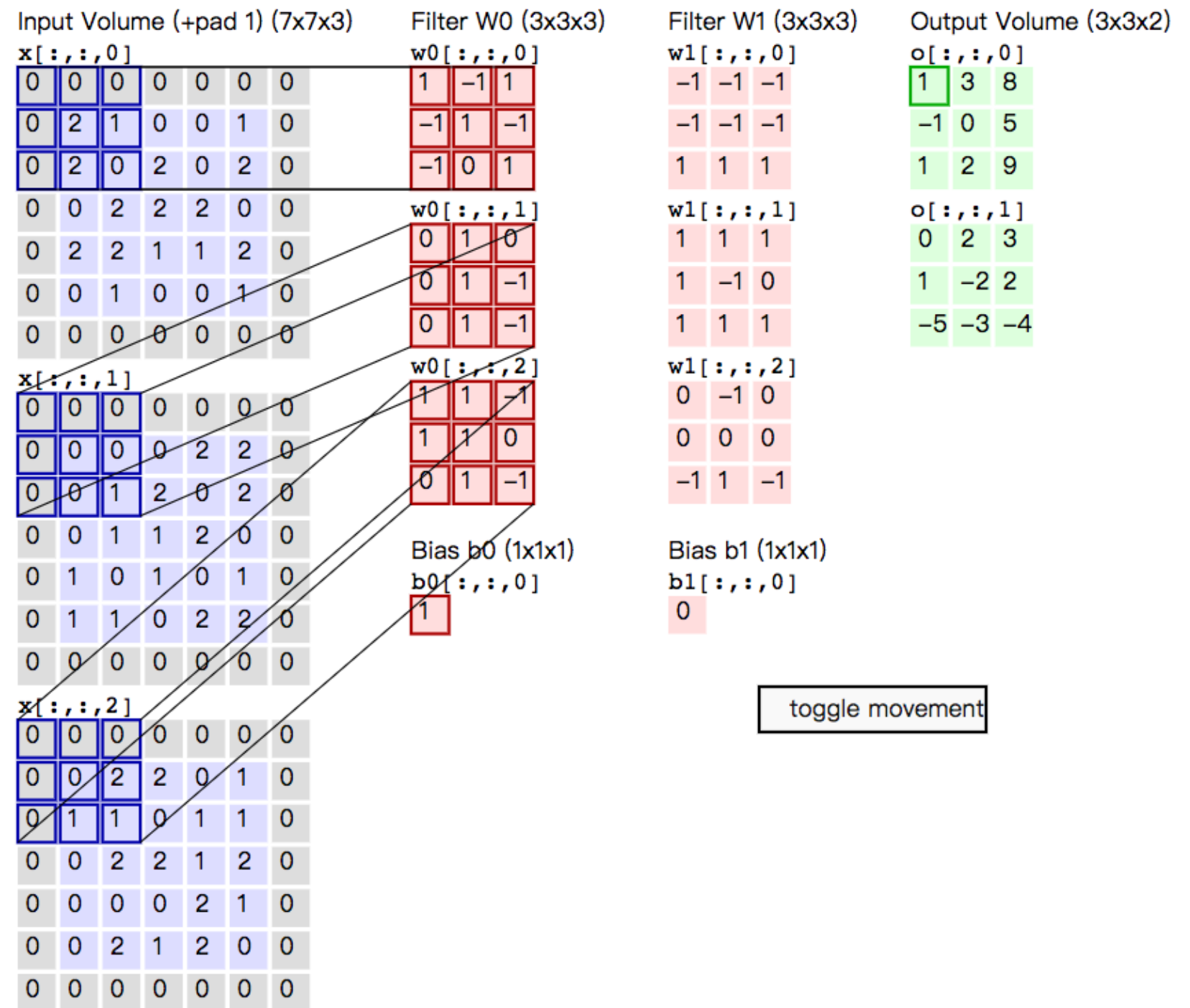


李飛飛教授：Convolutional Neural Networks (CNNs / ConvNets)
(<https://cs231n.github.io/convolutional-networks/>)

ConvNets (CNN)

(cont'd)

Convolution



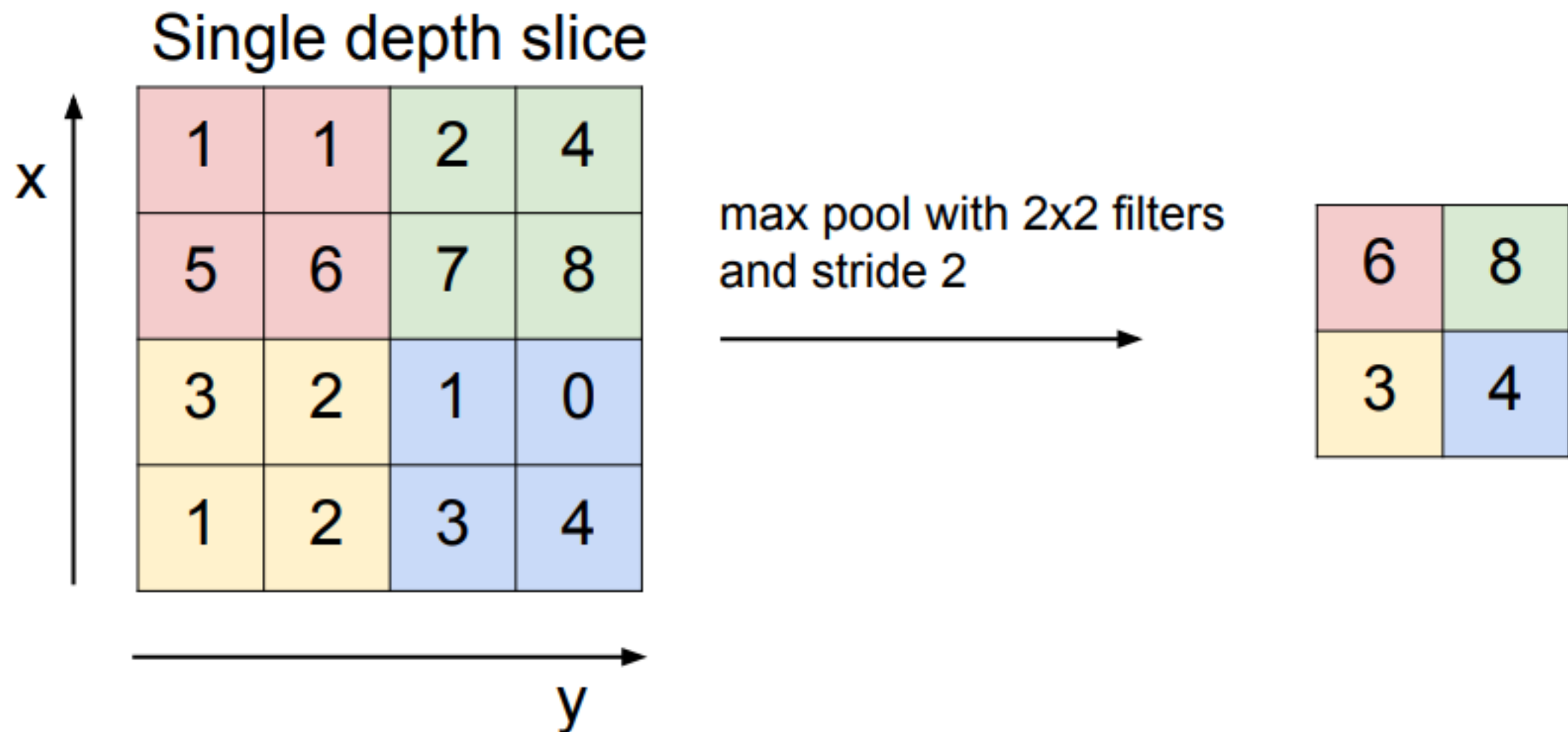
李飛飛教授：Convolutional Neural Networks (CNNs / ConvNets)
(<https://cs231n.github.io/convolutional-networks/>)

ConvNets (CNN)

(cont'd)

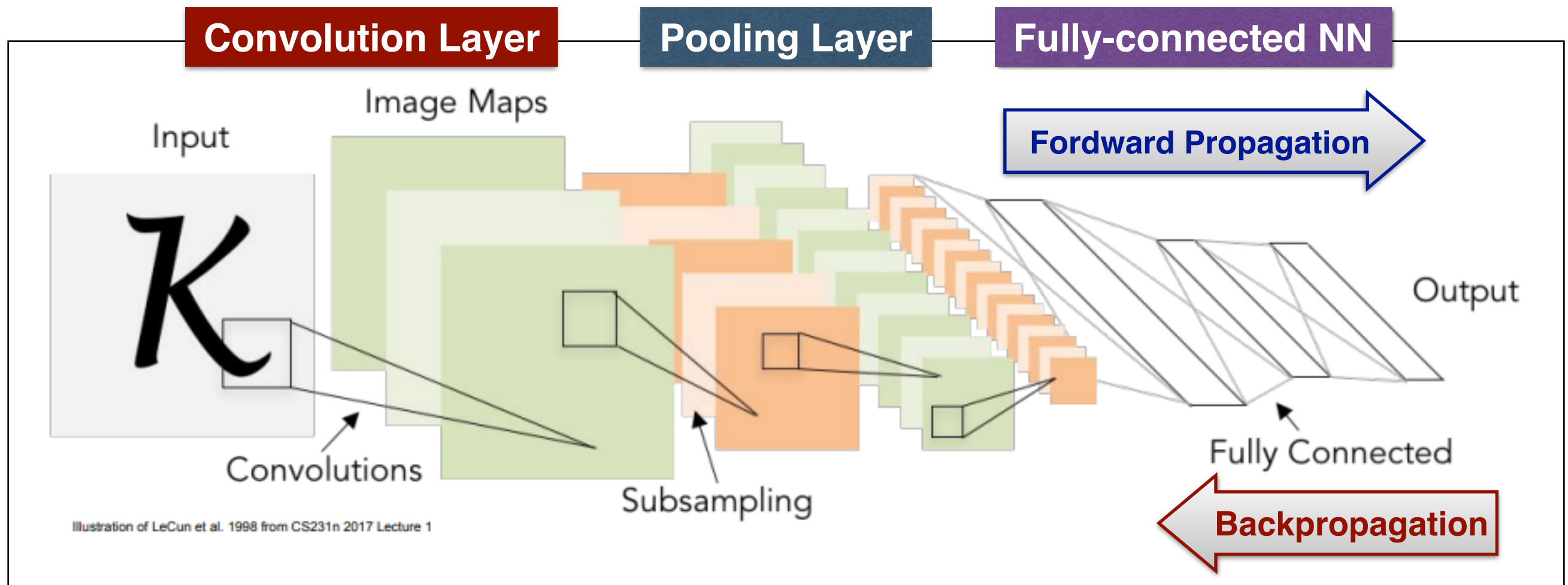
Pooling Layer

Max_Pooling



李飛飛教授：Convolutional Neural Networks (教學投影片)
(http://cs231n.stanford.edu/slides/2017/cs231n_2017_lecture5.pdf)

ConvNets (CNN)



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(http://cs231n.stanford.edu/slides/2017/cs231n_2017_lecture5.pdf)

Advanced Topics of ConvNets (CNN)

- LeNet
- AlexNet
- ZF Net
- GoogLeNet
- VGGNet
- ResNet