



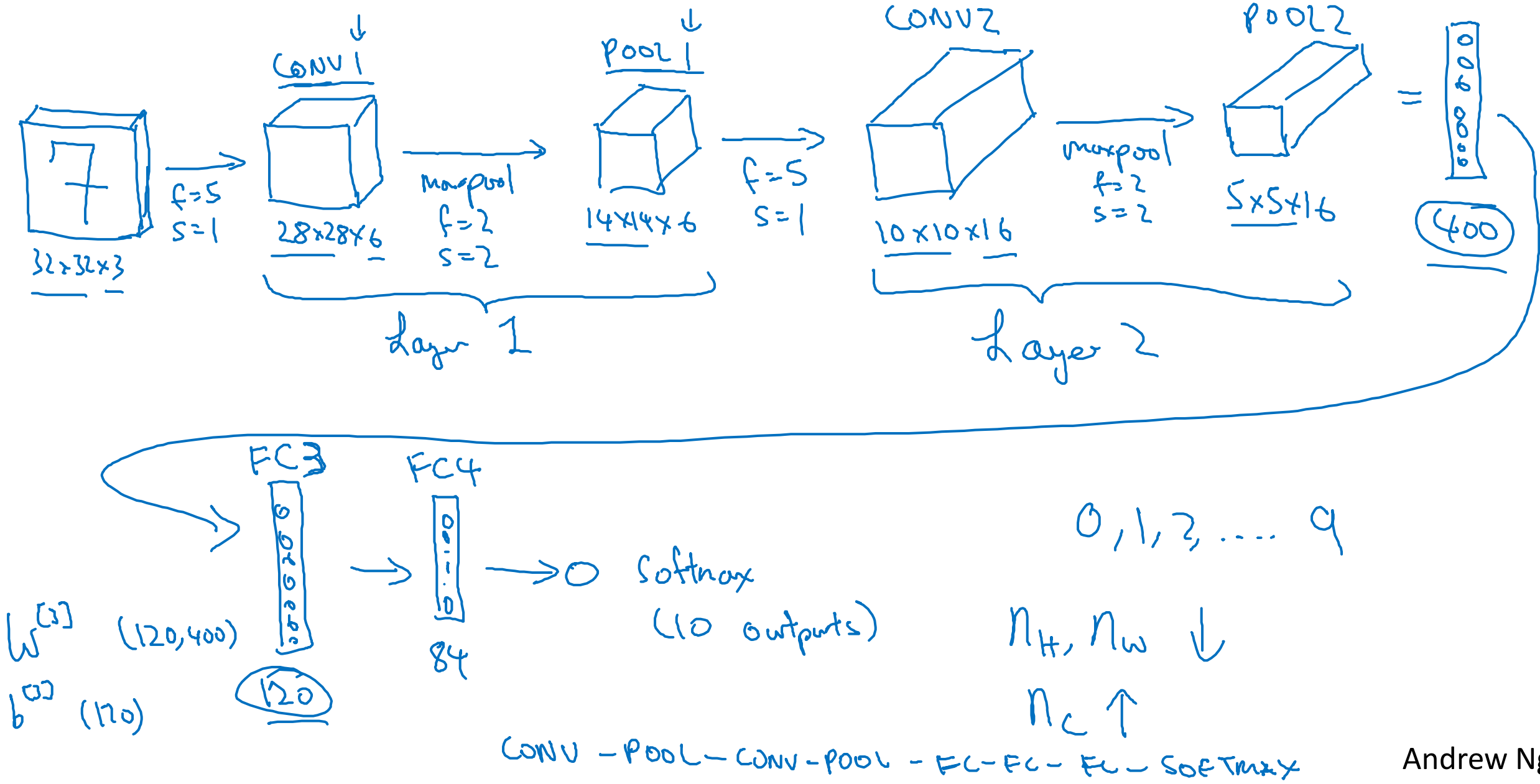
deeplearning.ai

# Convolutional Neural Networks

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## Convolutional neural network example


# Neural network example (LeNet-5)



# Neural network example

	Activation shape	Activation Size	# parameters
Input:	(32,32,3)	3,072 $a^{[0]}$	0
			←
			←
			←
			←
			}

# Neural network example

	Activation shape	Activation Size	# parameters
Input:	(32,32,3)	3,072 $a^{(0)}$	0
CONV1 (f=5, s=1)	(28,28,8)	<u>6,272</u>	208 ←
POOL1	(14,14,8)	<u>1,568</u>	0 ←
CONV2 (f=5, s=1)	(10,10,16)	<u>1,600</u>	416 ←
POOL2	(5,5,16)	<u>400</u>	0 ←
FC3	(120,1)	<u>120</u>	48,001 } 
FC4	(84,1)	<u>84</u>	10,081 }
Softmax	(10,1)	<u>10</u>	841