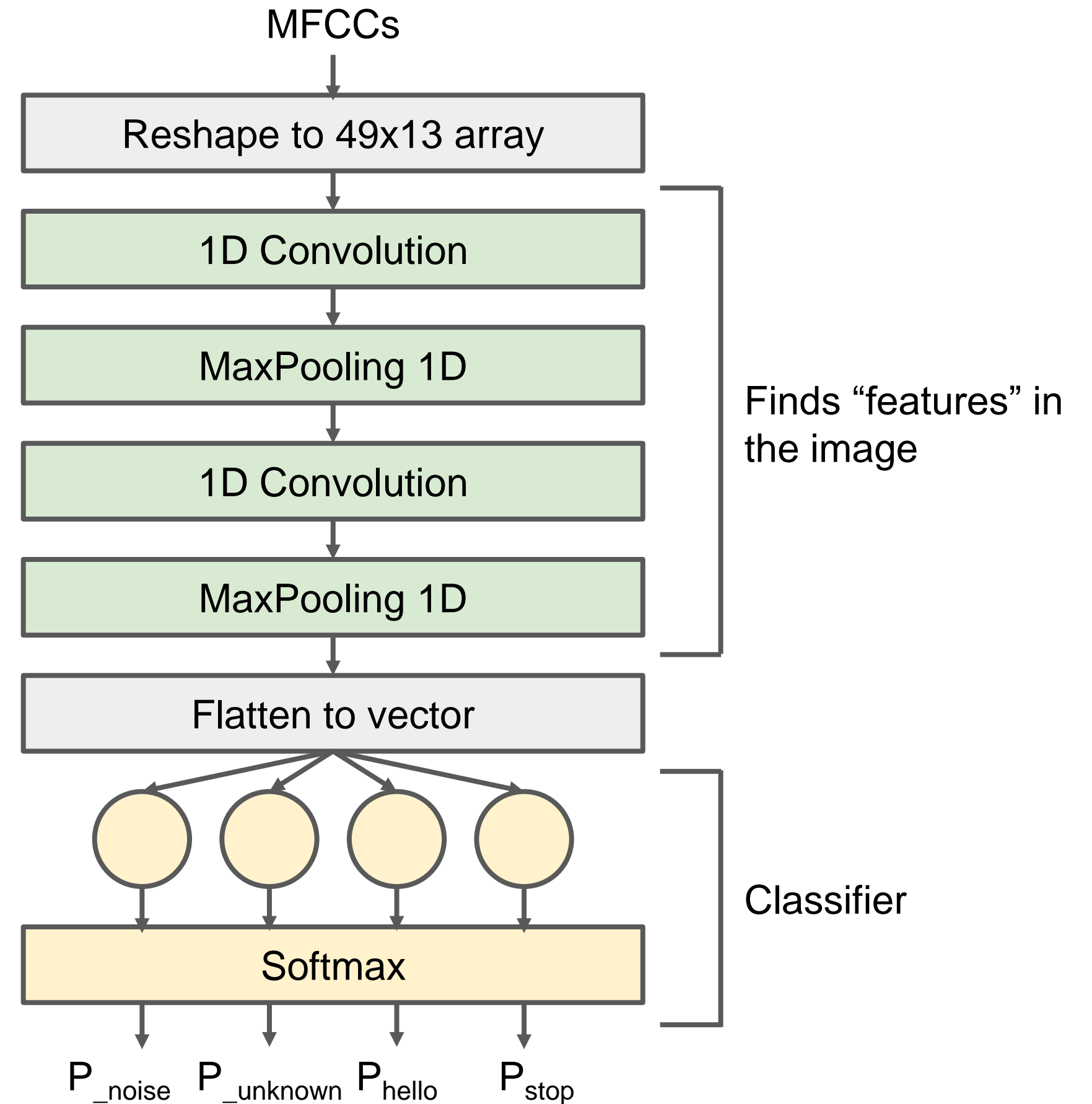
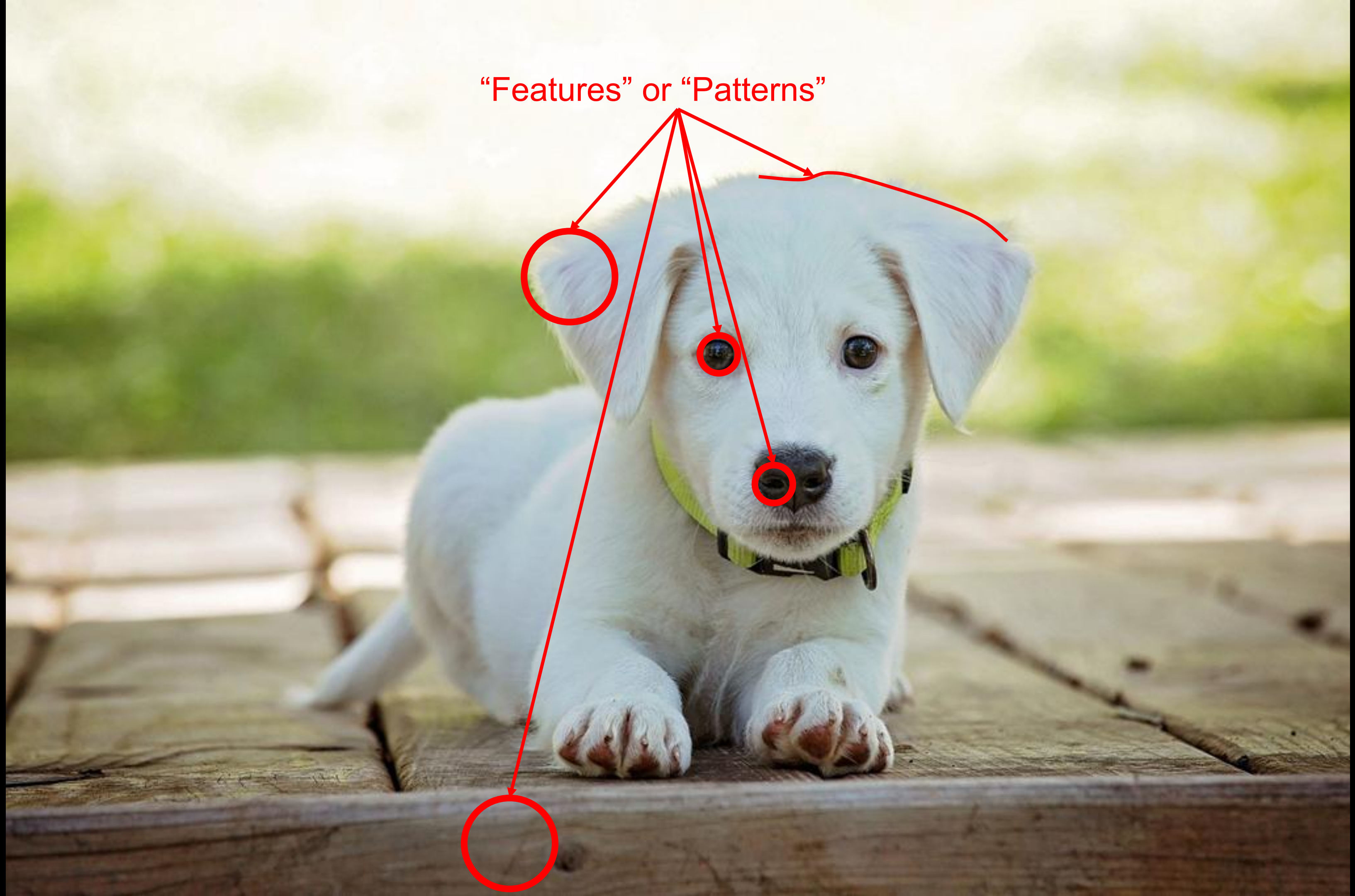


# Convolutional Neural Network (CNN or ConvNet)

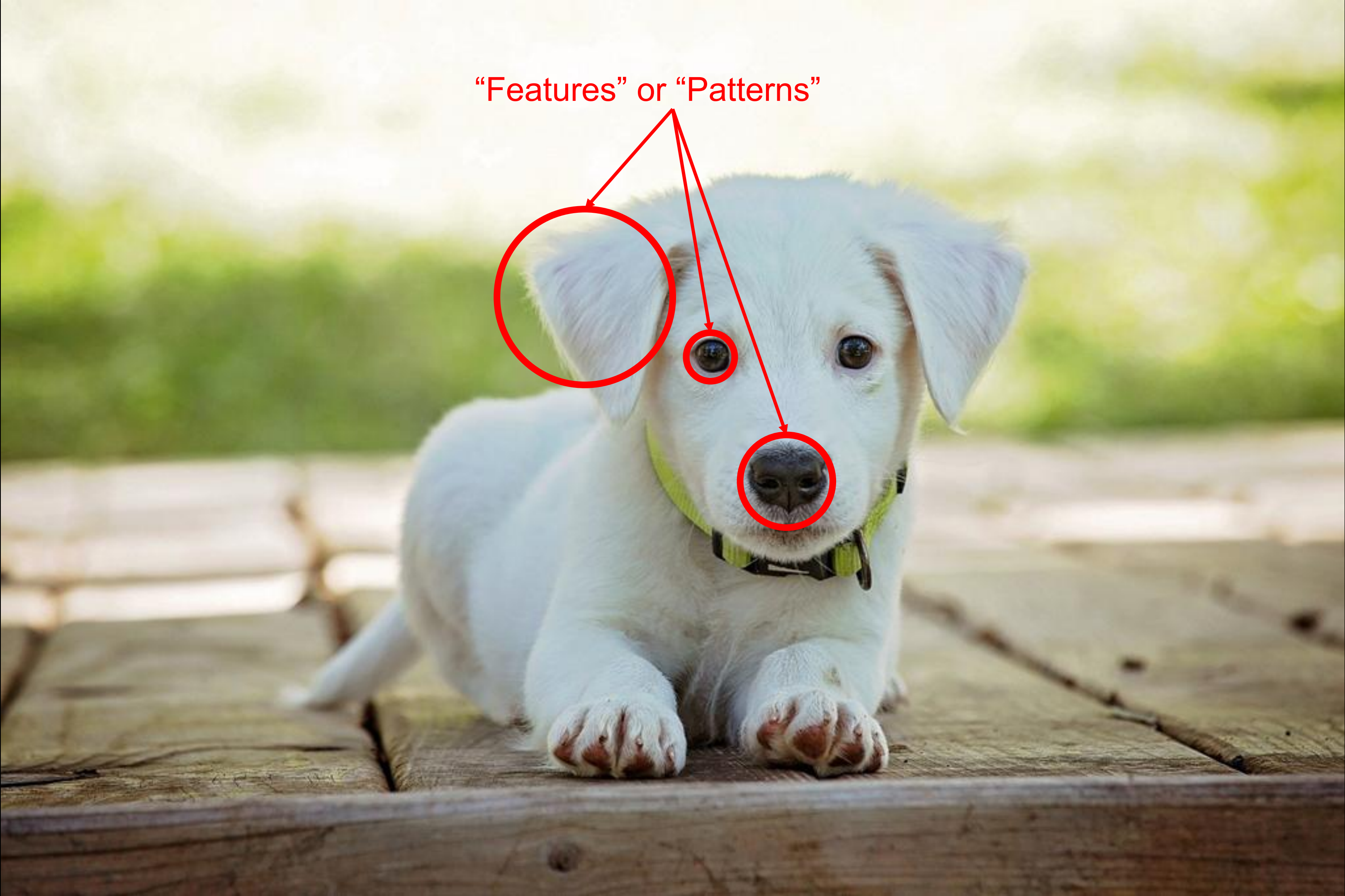


“Features” or “Patterns”

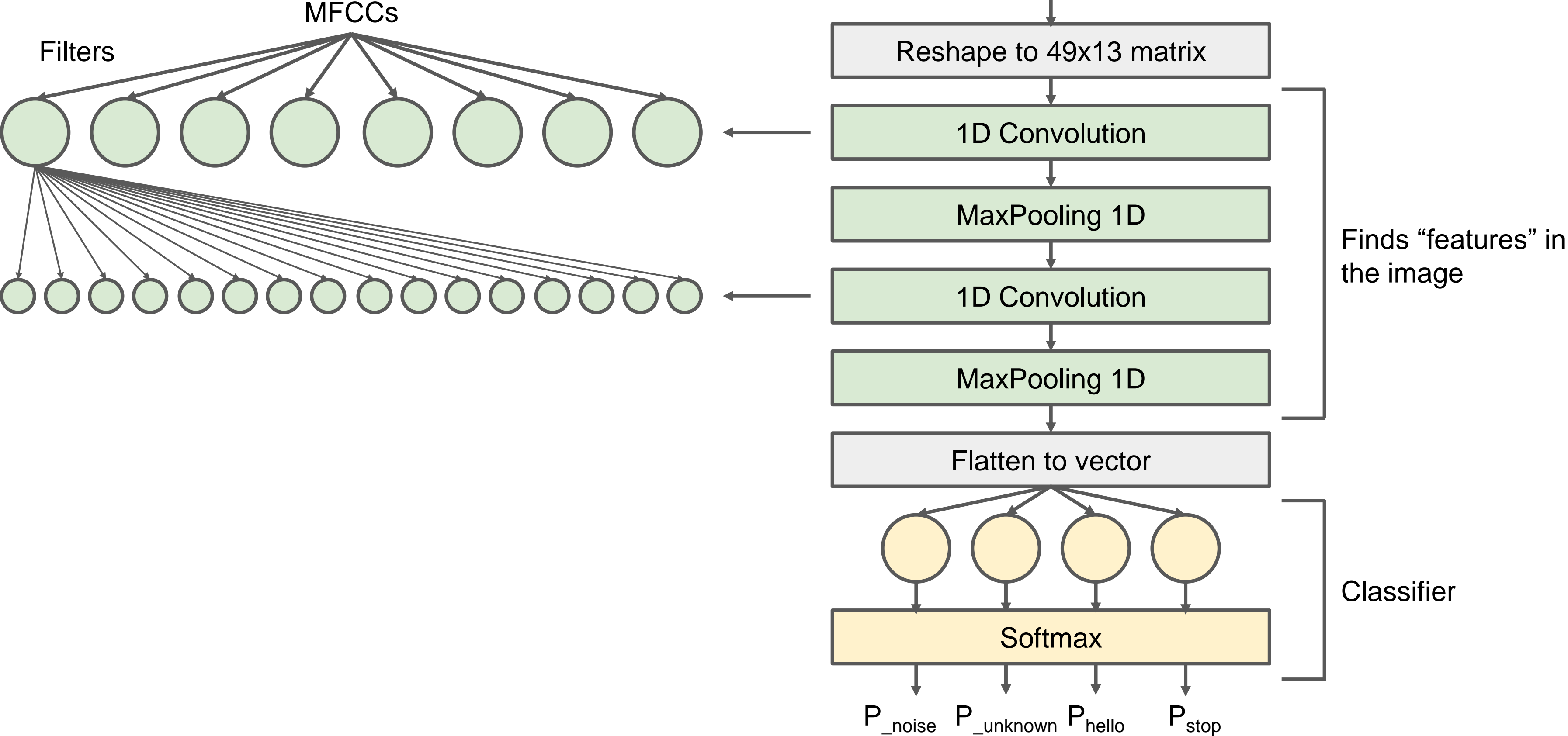




“Features” or “Patterns”



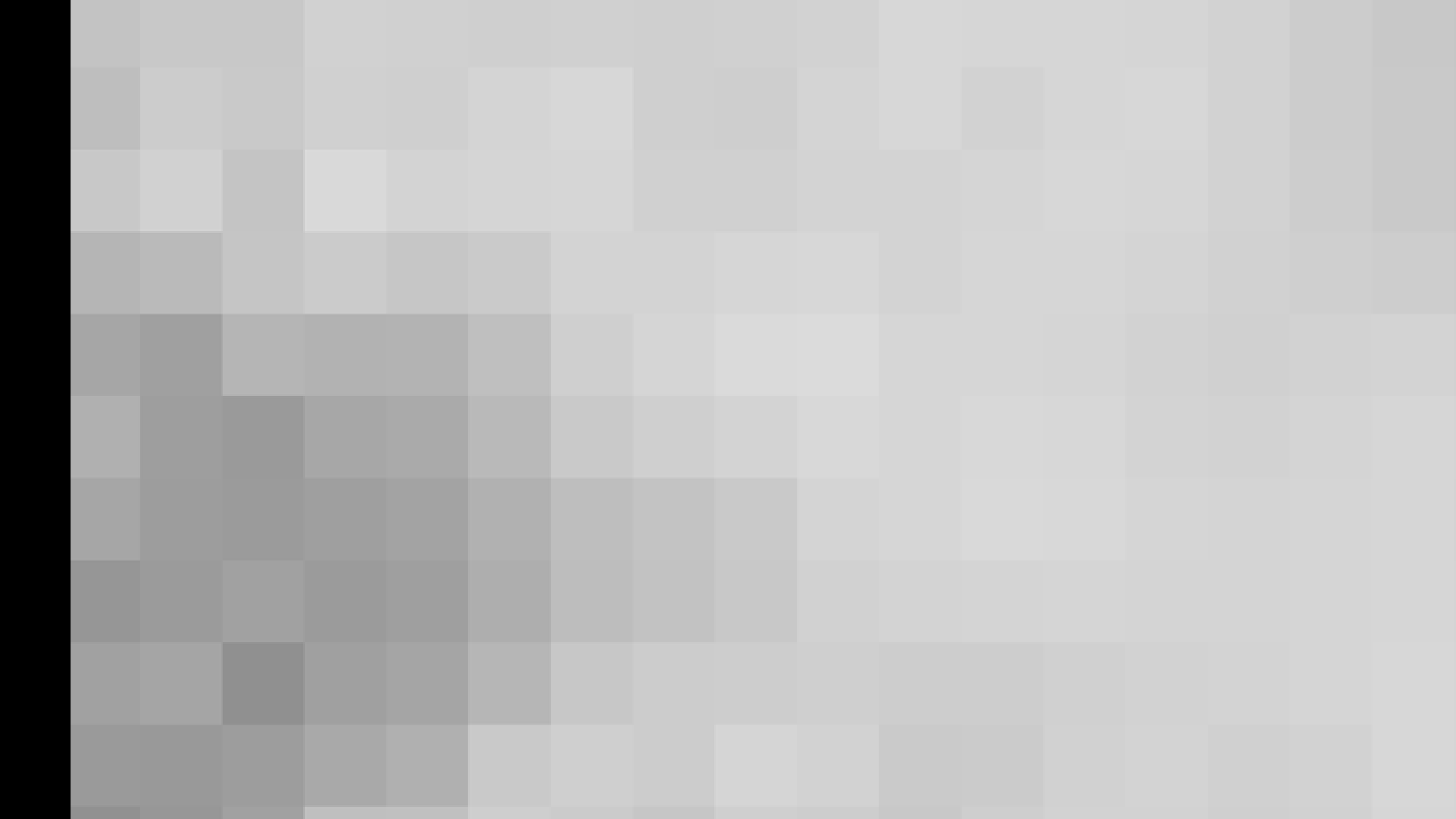
# Convolutional Neural Network (CNN or ConvNet)





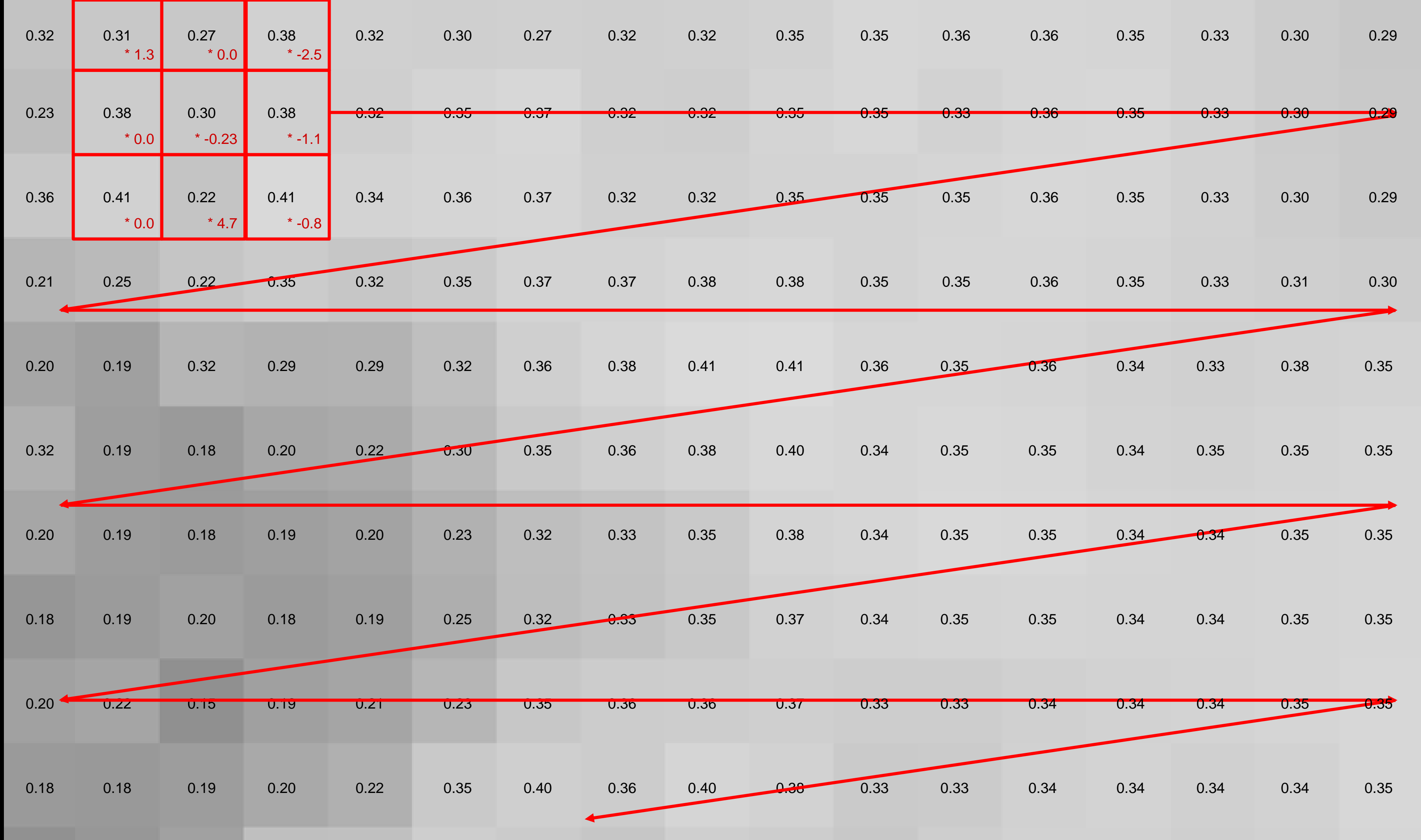


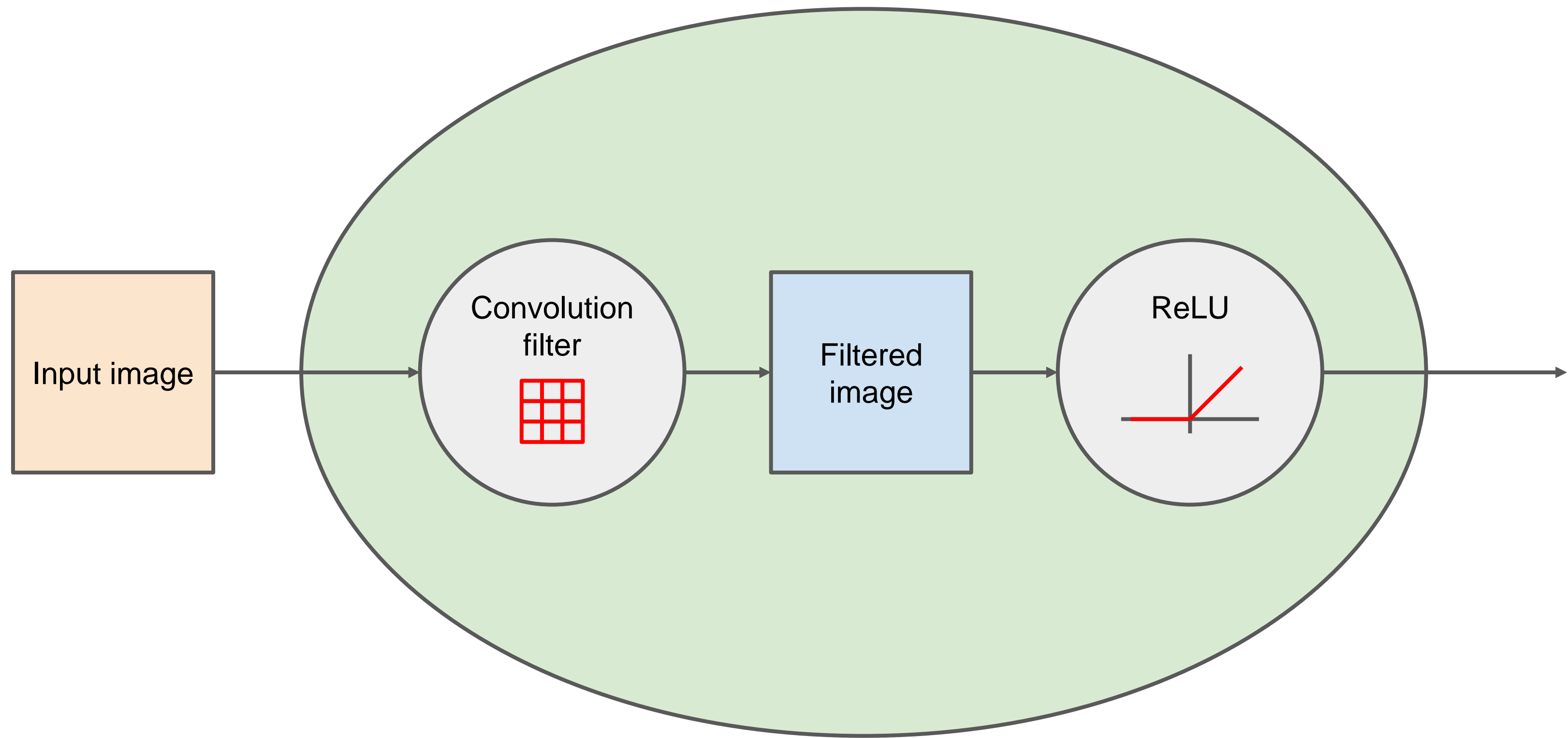




[illegible]



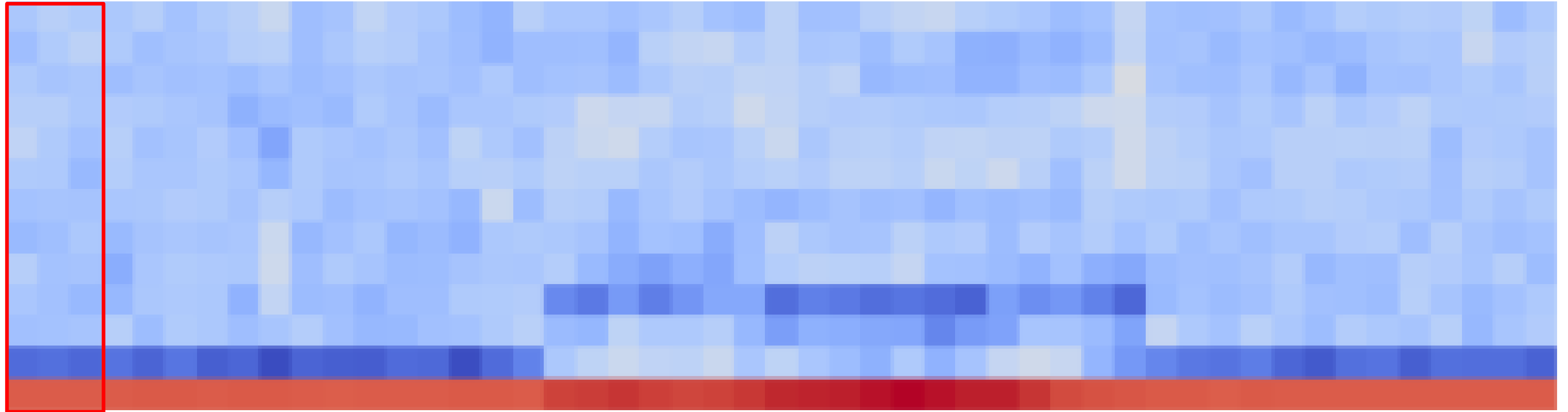




Single node in convolution layer

# 1D Convolution

“hello”



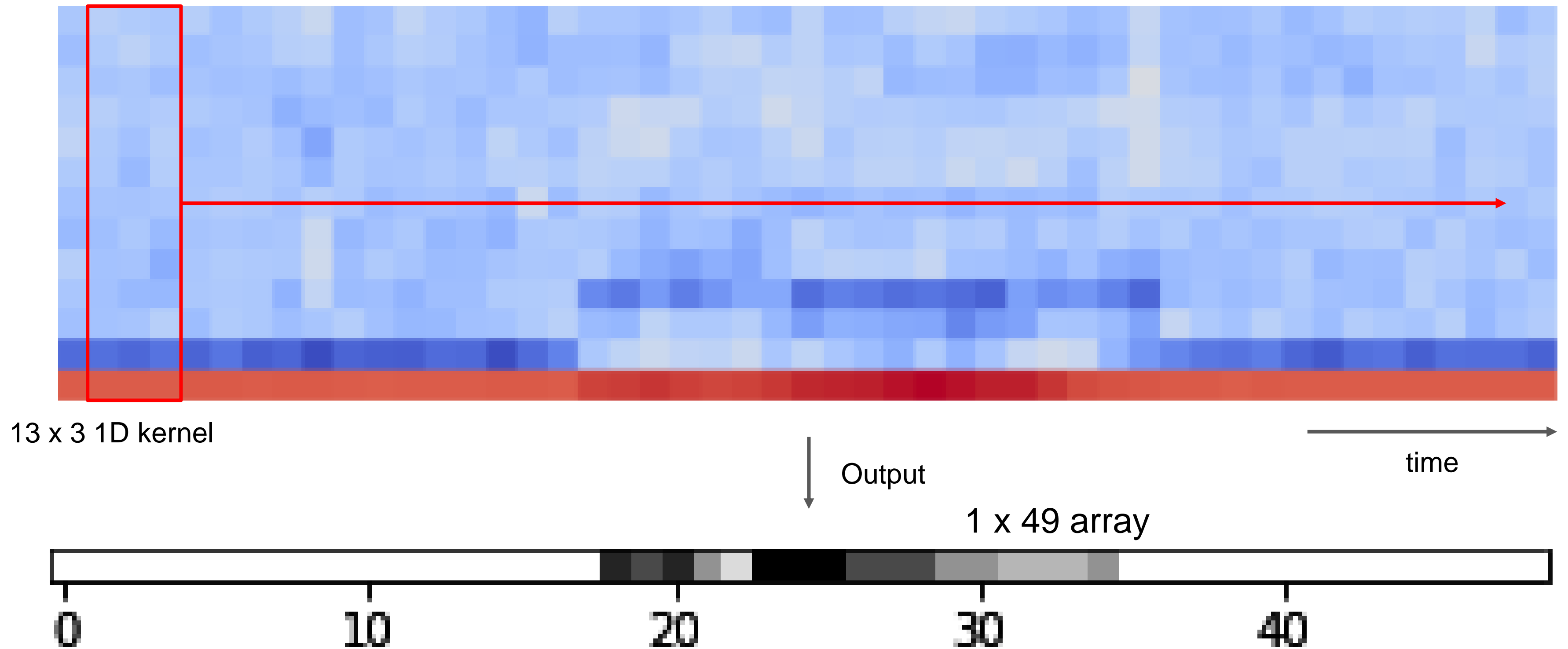
3 x 13 1D kernel

time

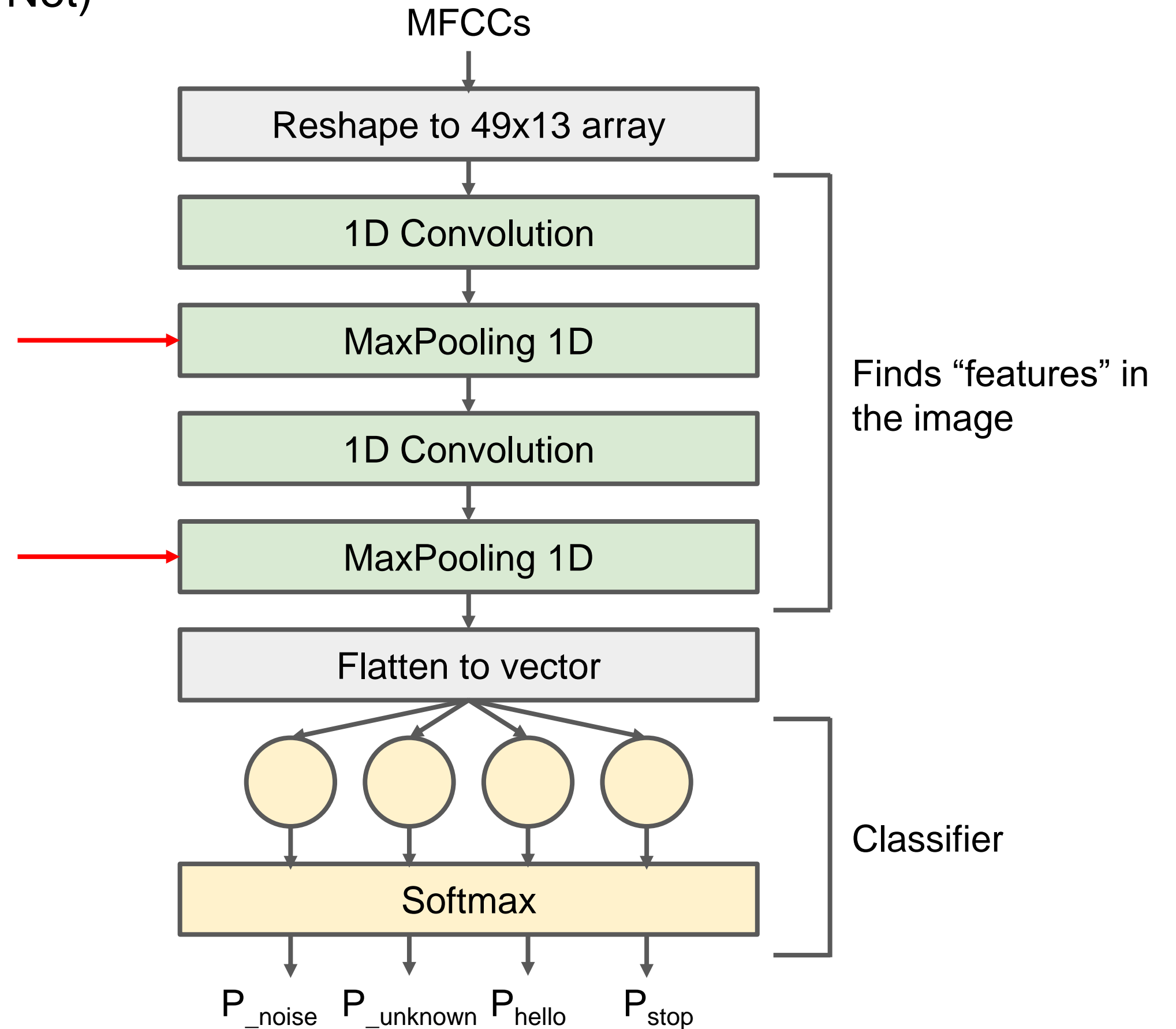


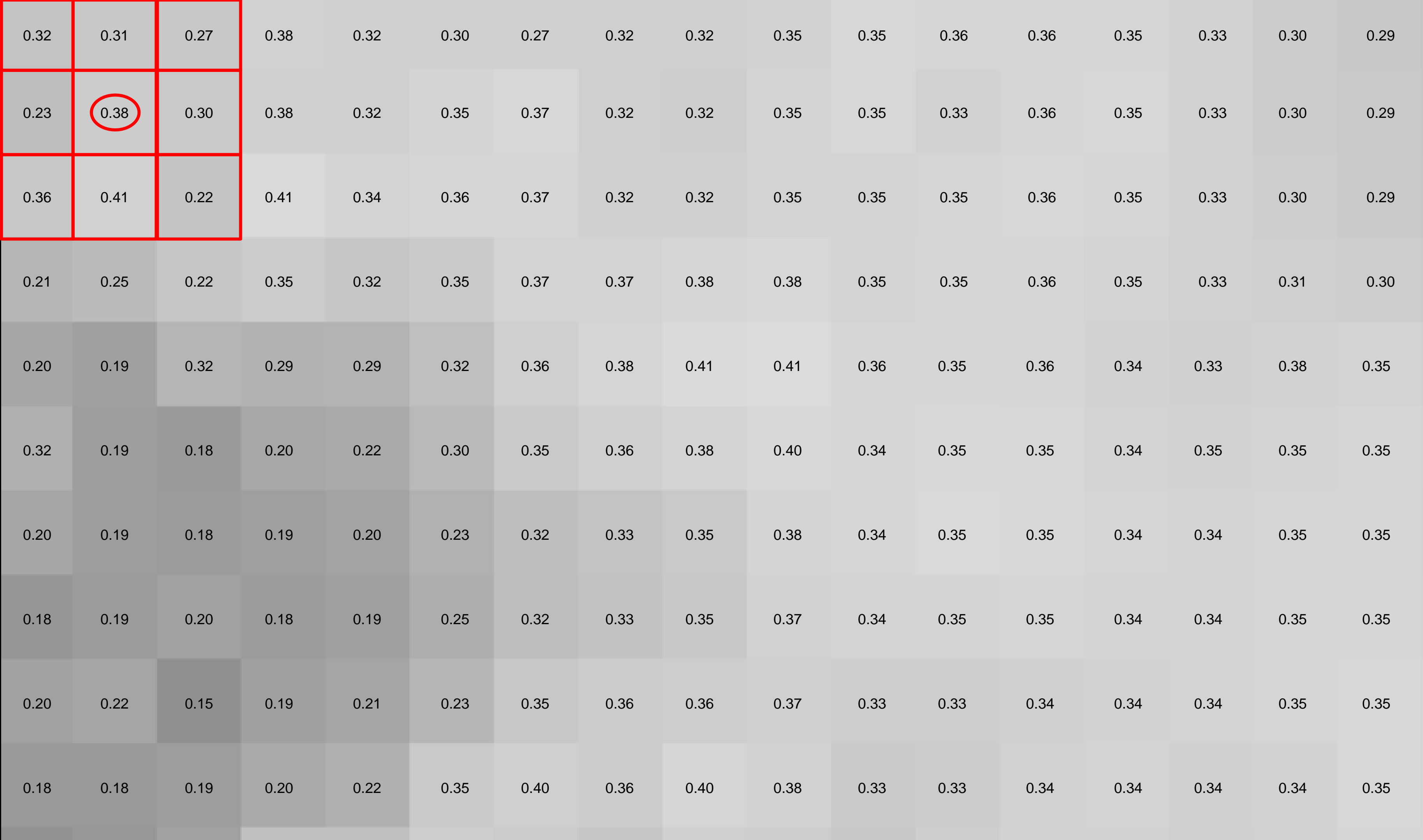
# 1D Convolution

“Hello” (13 x 49 MFCCs)

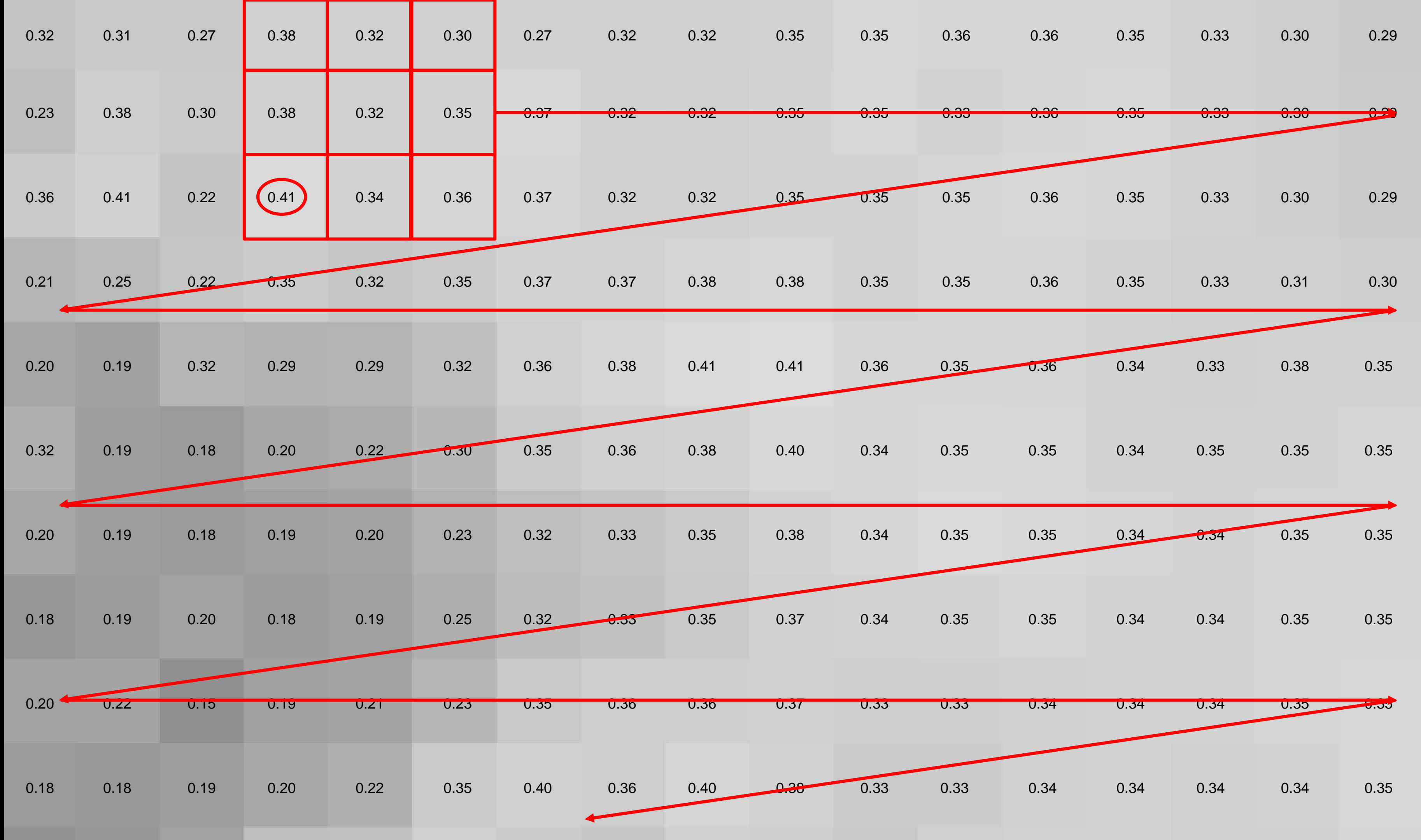


# Convolutional Neural Network (CNN or ConvNet)

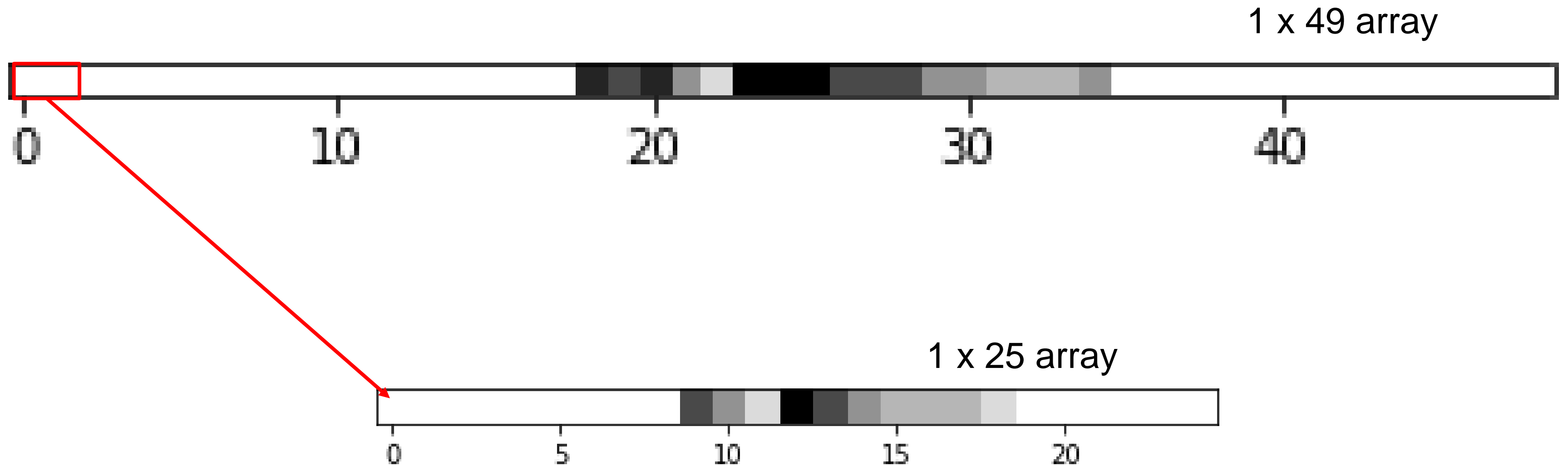




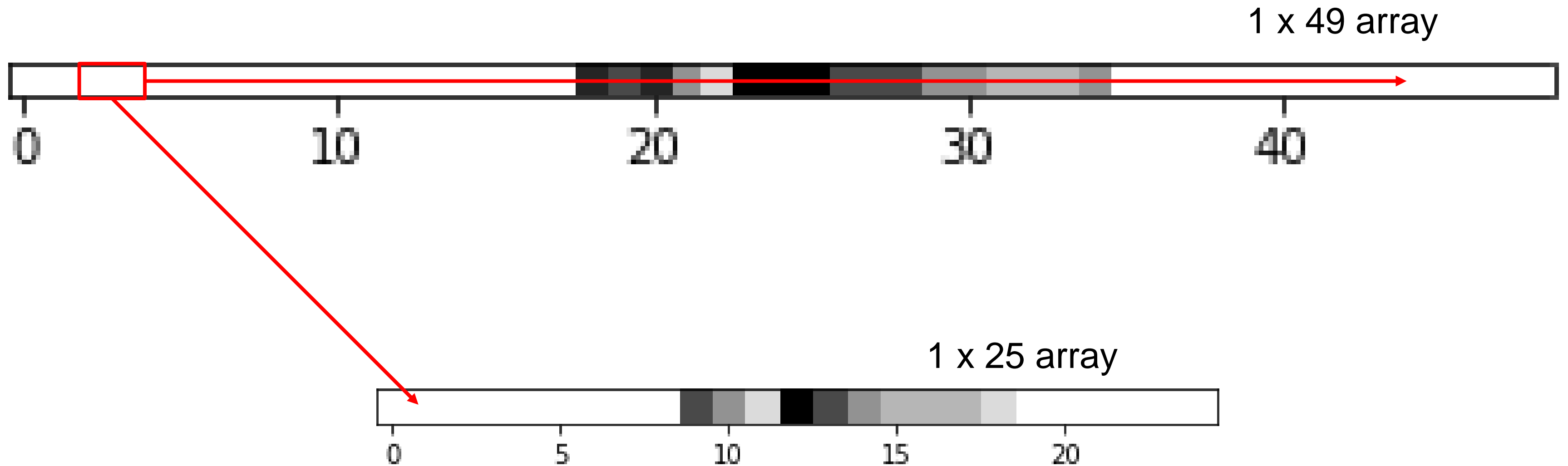




# 1D MaxPooling

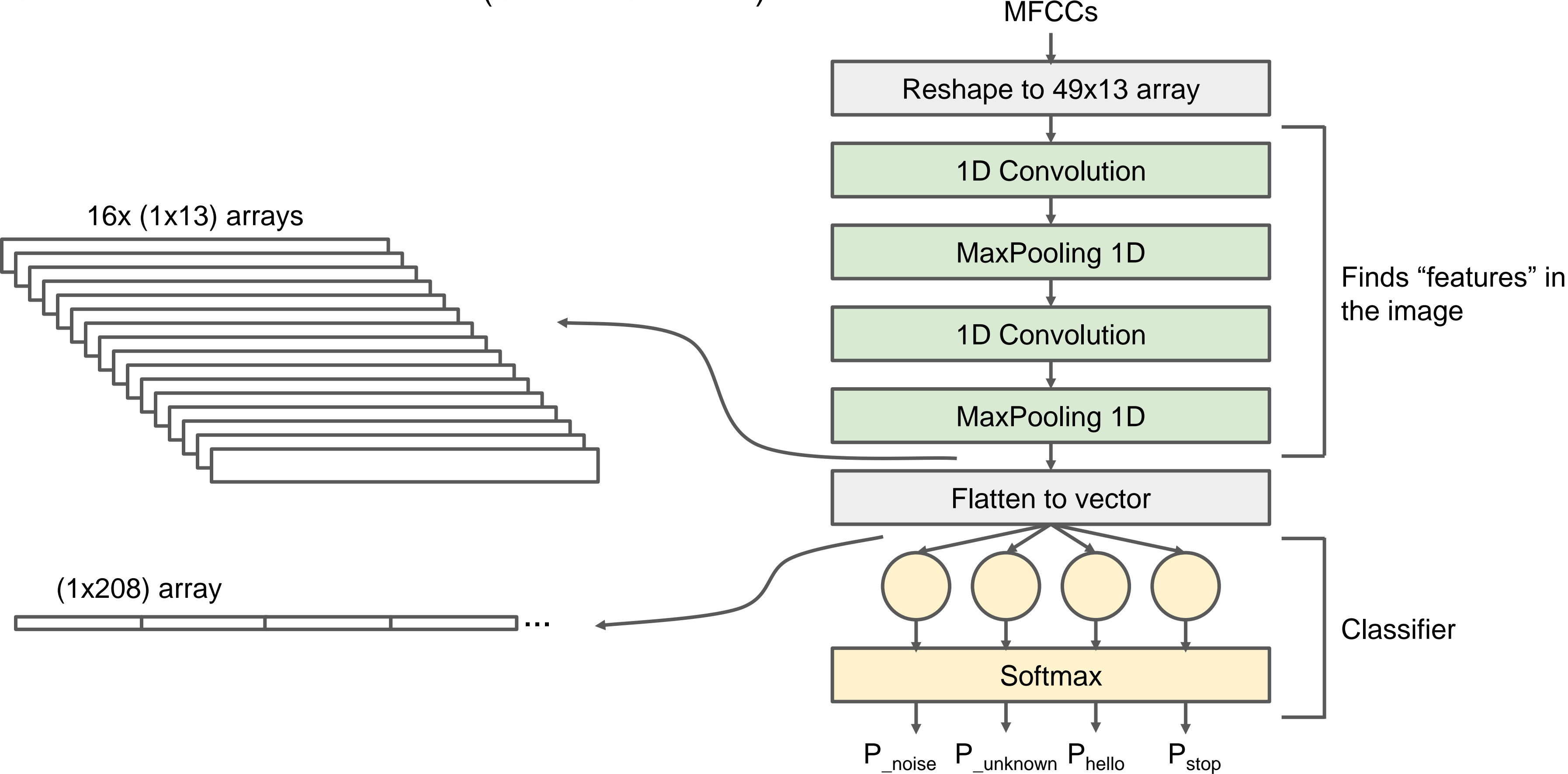


# 1D MaxPooling

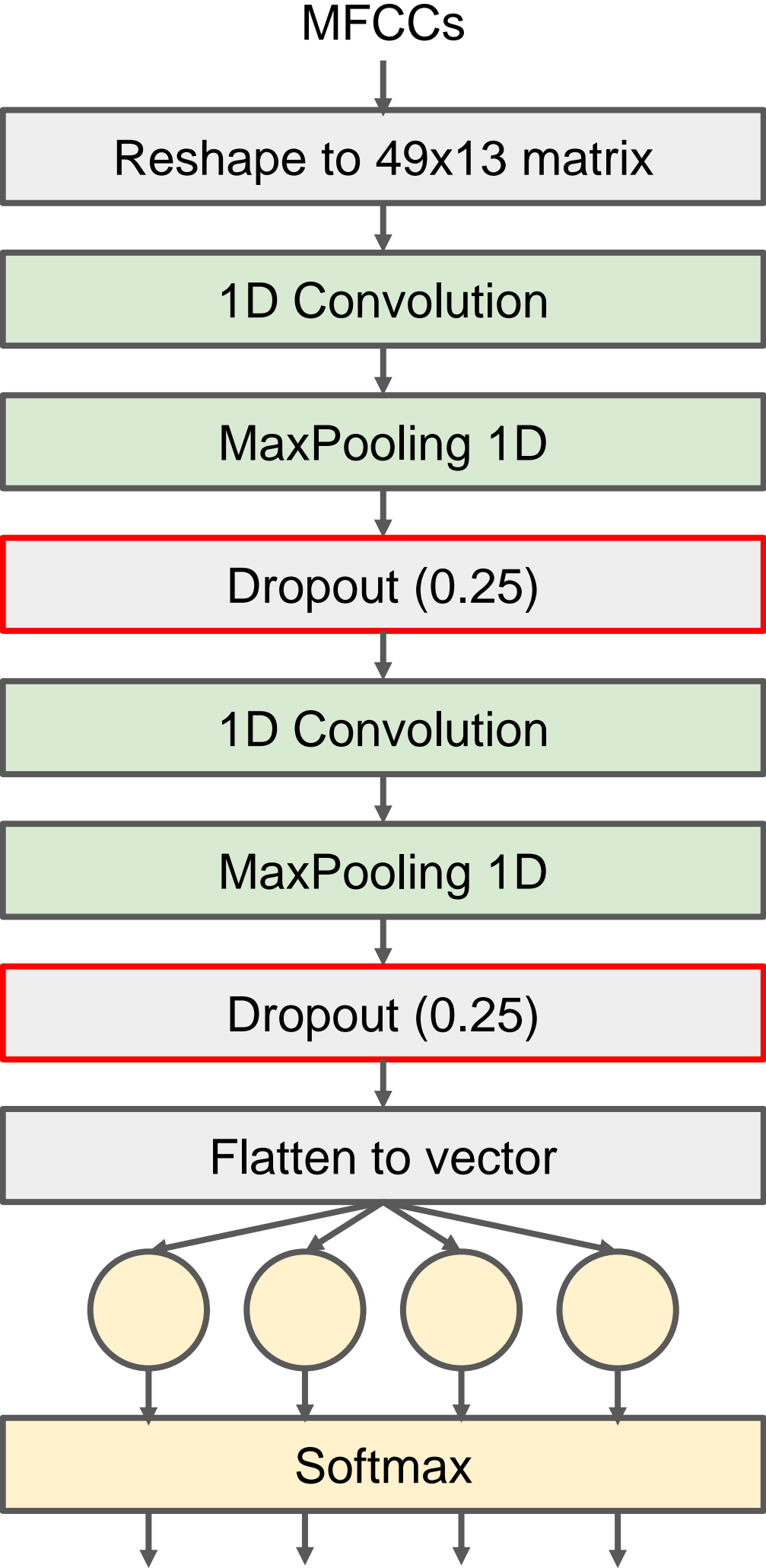
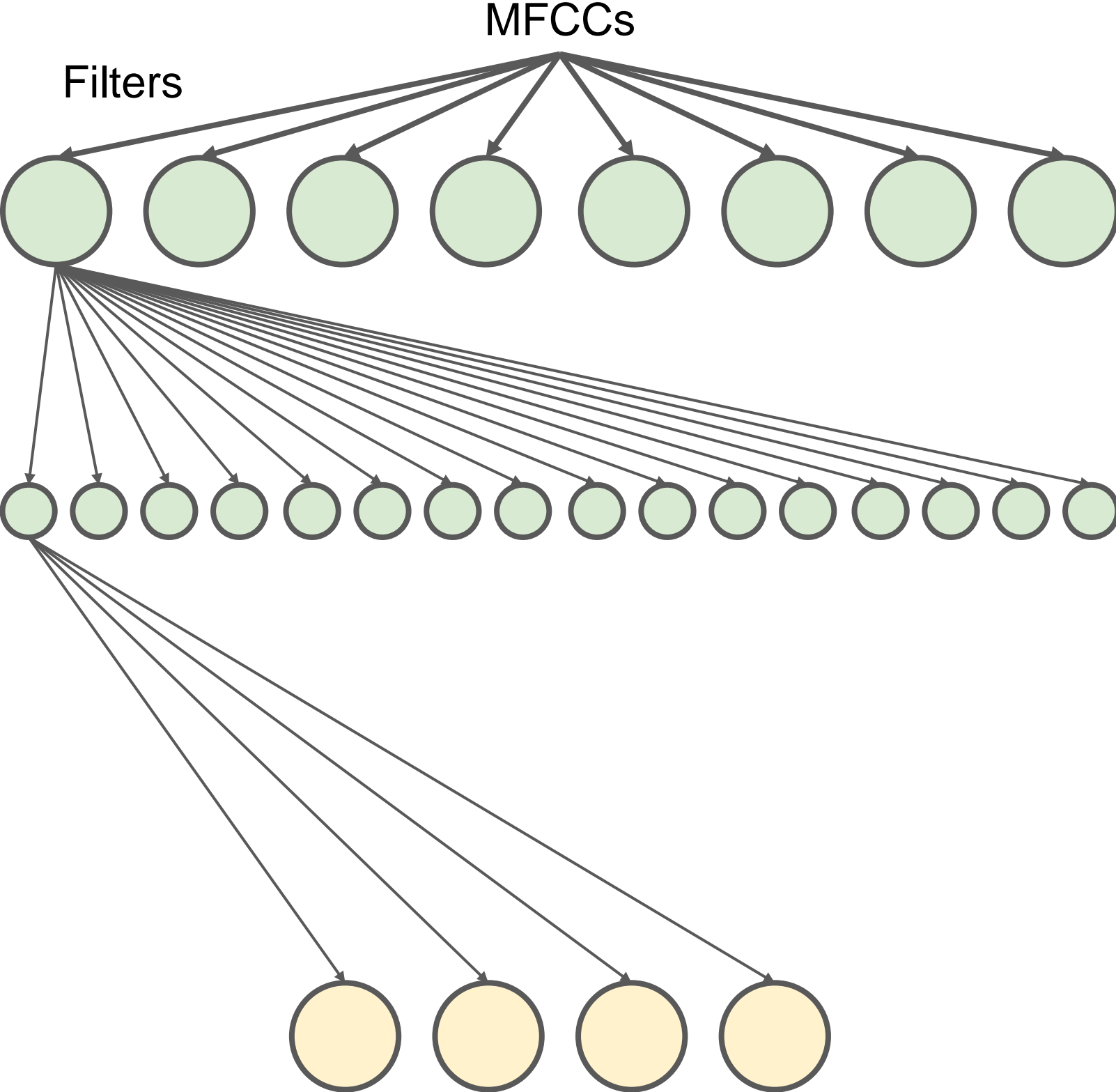




# Convolutional Neural Network (CNN or ConvNet)



Convolutional Neural Network (CNN or ConvNet)



Finds “features” in the image

Classifier