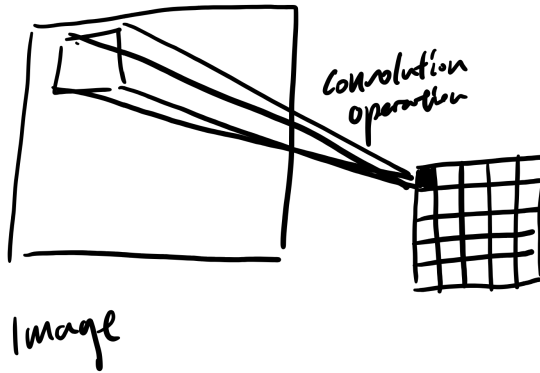
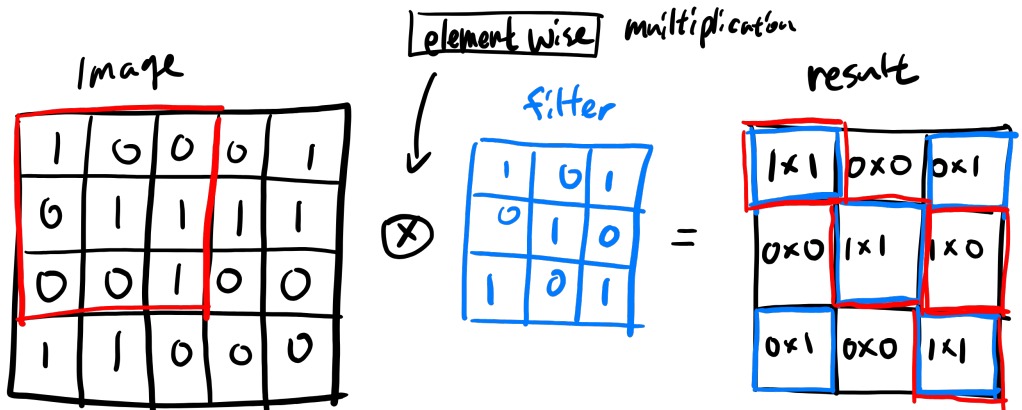


# What does convolution do?



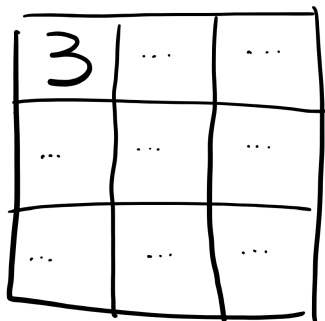
- preserves SPACIAL INFO
- break big images down
- find key informations

## Example



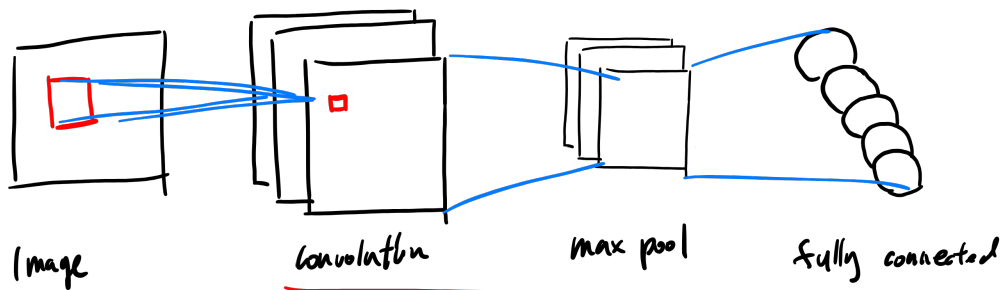


feature map



# Convolutional Neural Networks

classifications



Non-linearity: ReLU

These steps often repeat  
for multiple times