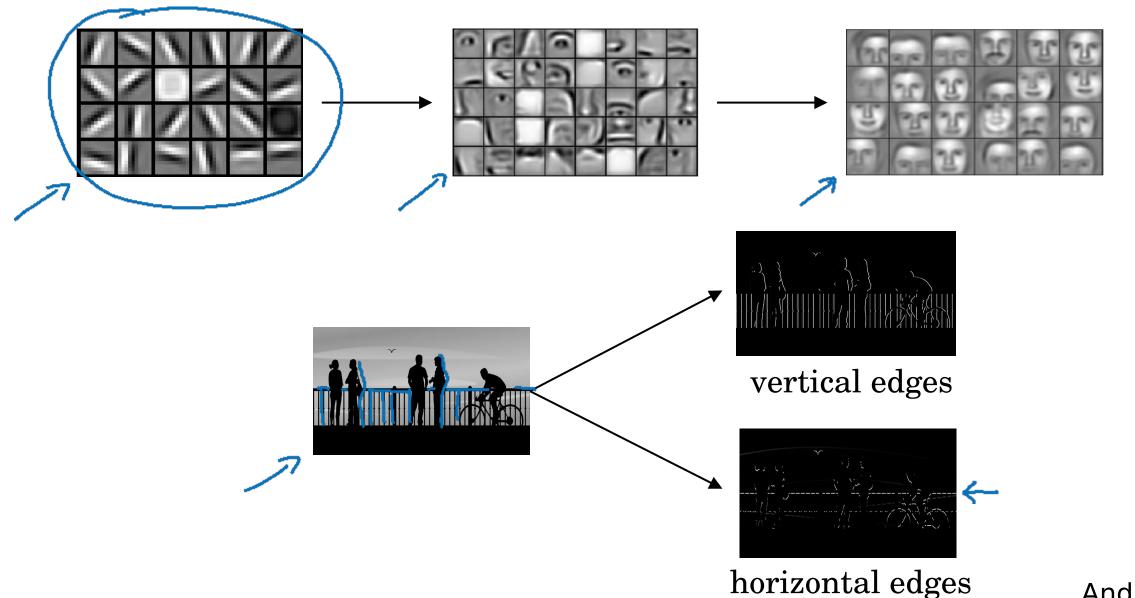


Convolutional Neural Networks

Edge detection example

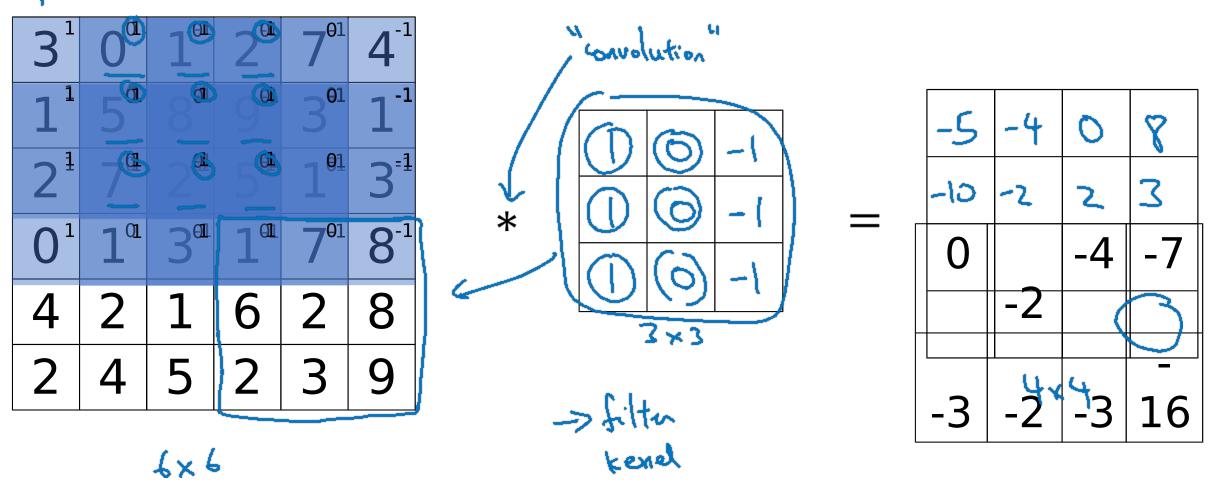
Computer Vision Problem



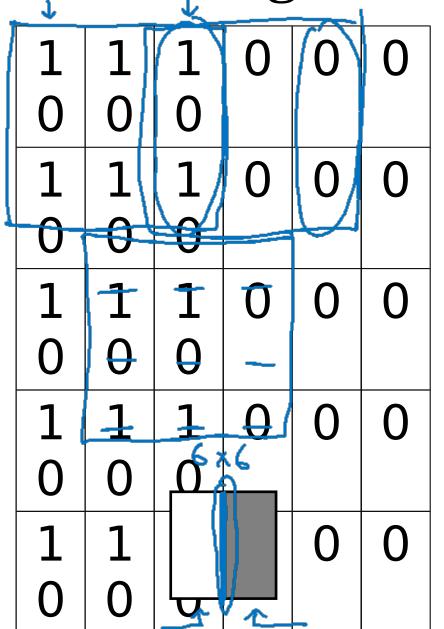
Andrew Ng

Vertical edge detection

1-33x1 + 1x1 +2+1 + 0x0 + 5x0 +2x0+1x+ +8x-1+2+-1=-5



Vertical edge detection



| | | J | | |
|---|----|-----|-----|---|
| (| 1 | 0 | -1 | |
| * | 1 | 0 | -1 | = |
| | 1/ | 0 | -1/ | |
| | | 3×3 | | |
| | | | | |

*

