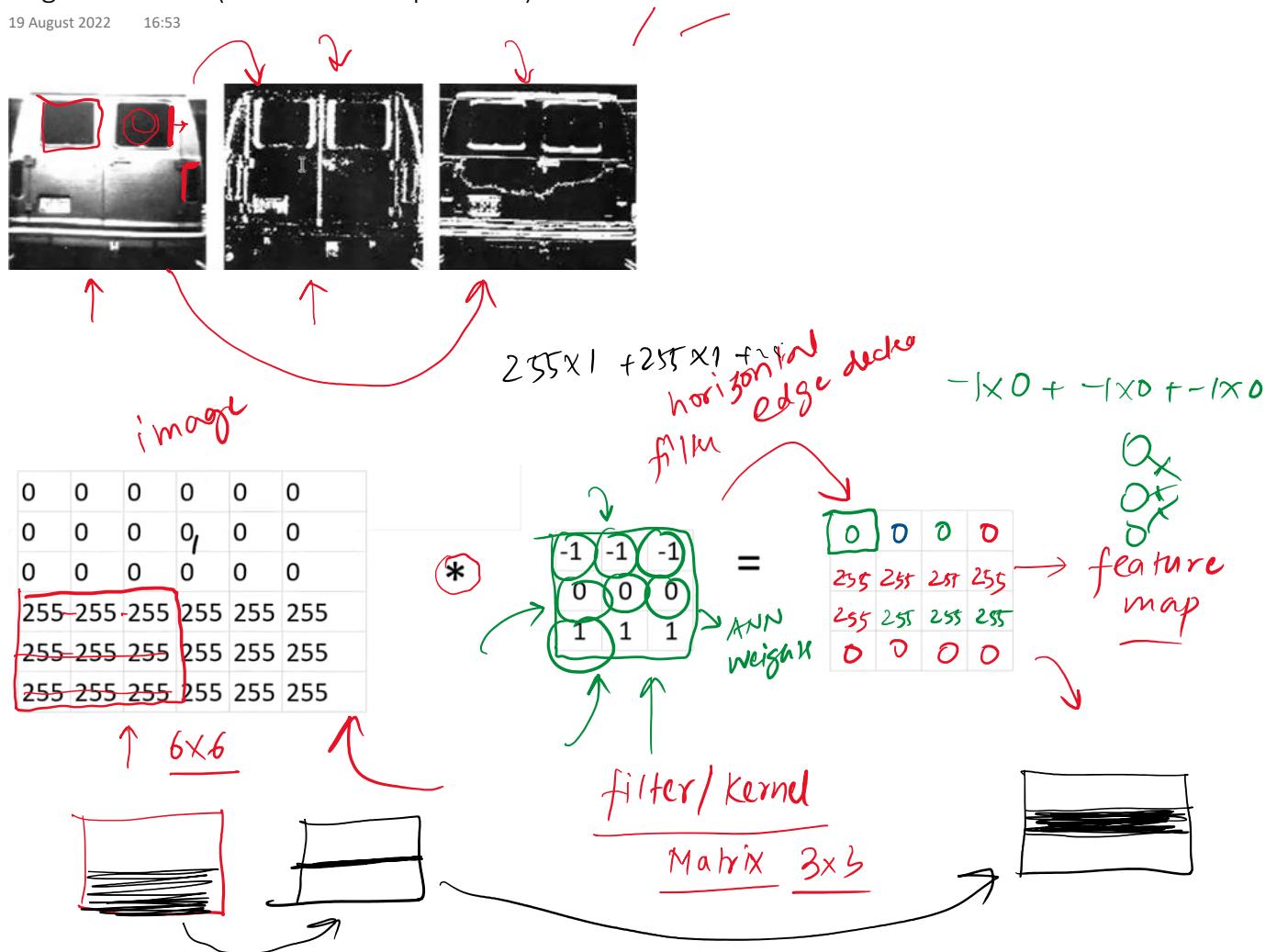


Edge Detection (Convolution Operation)

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0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
255	255	255	255	255	255
255	255	255	255	255	255
255	255	255	255	255	255

(6x6)

*

-1	-1	-1
0	0	0
1	1	1

(3x3)

=

(4x4)

(28x28) → (26x26)

n × n

(3x3)

m × m

→ ? (26x26)

→ (n - m + 1) × (n - m + 1)

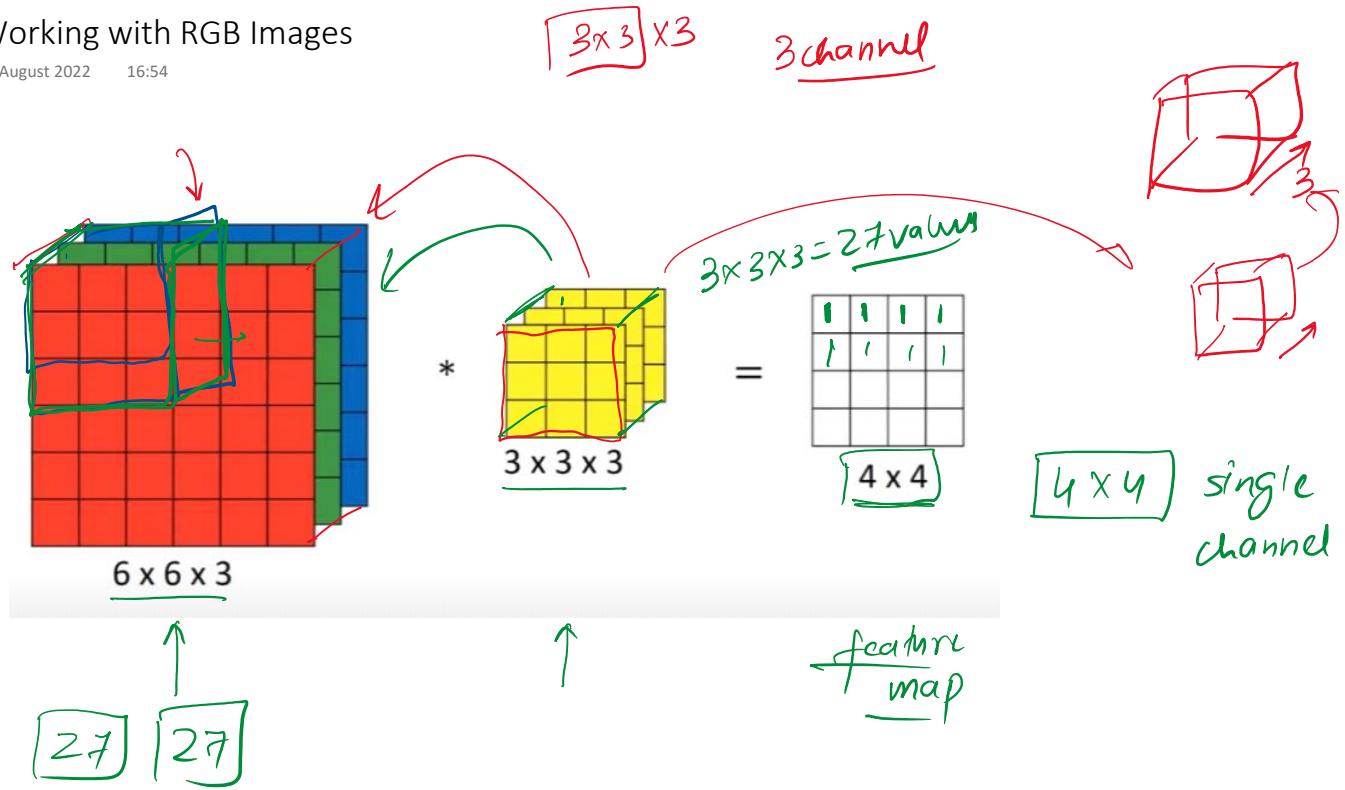
(64x64) (3x3) → (62x62)

Demo

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Working with RGB Images

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$$[m \times m \times c] \quad [n \times n \times c] \rightarrow \frac{(m - n + 1) \times (m - n + 1)}{\text{single channel}}$$

Multiple Filters

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