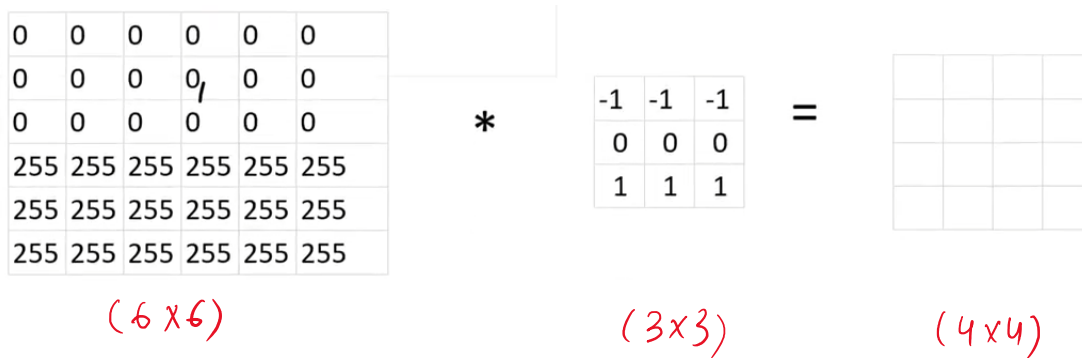
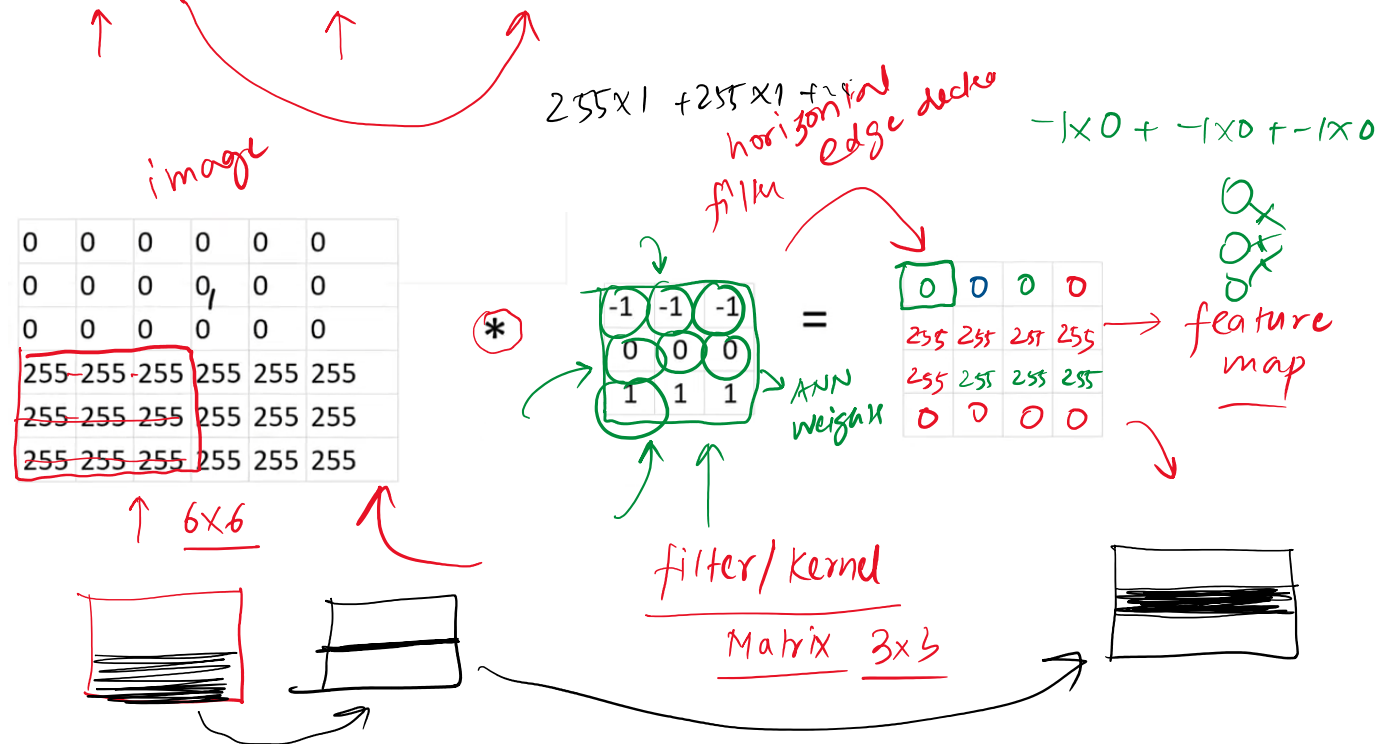


Edge Detection (Convolution Operation)

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$$(28 \times 28) \rightarrow (26 \times 26) \quad (3 \times 3) \rightarrow ? \quad (26 \times 26)$$

$n \times n \quad m \times m \quad \rightarrow \quad (n - m + 1) \times (n - m + 1)$

$$(64 \times 64) \quad (3 \times 3) \rightarrow (62 \times 62)$$

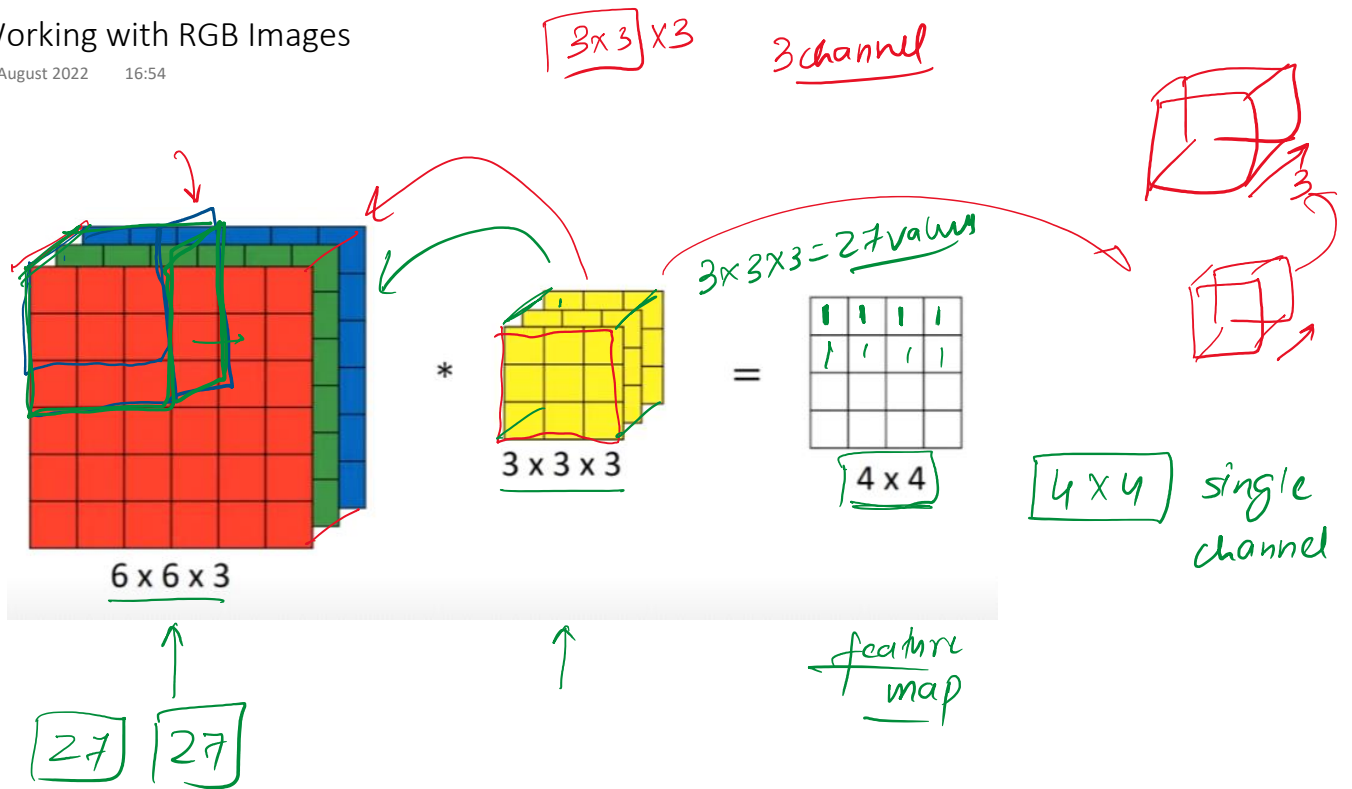
Demo

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Working with RGB Images

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

Multiple Filters

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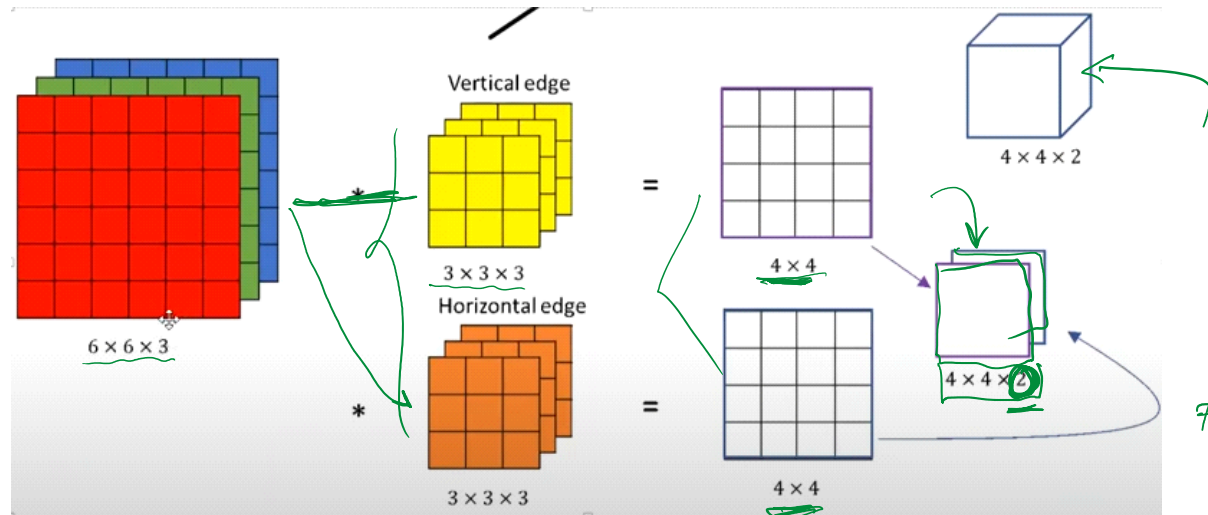


Image taken from Andrew NG's lecture

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$4 \times 4 \times 10$

filters used