## Matrix multiplication?

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}, B = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

$$AXB = \begin{bmatrix} 1X1 + 2X3 & 1X2 + 2X4 \\ 3X1 + 4X3 & 3X2 + 4X4 \end{bmatrix}$$

$$= \begin{bmatrix} 7 & 10 \\ 15 & 22 \end{bmatrix}$$

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