

Diagram illustrating matrix multiplication $A \times B = C$.

Matrix A (3x5) and Matrix B (5x5) are shown. The first two columns of A are highlighted with a blue box, and the first two columns of B are highlighted with a red box.

The resulting matrix C (3x5) is shown. The element $C_{1,2}$ (highlighted with a red box) is explicitly labeled as δ_{12} , indicating it is the result of the dot product of the first row of A and the second column of B .

Matrix A (3x5):

*	*	*	*	*
*	*	*	*	*
*	*	1	1	*
*	*	1	1	*
*	*	*	*	*

Matrix B (5x5):

*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*

Matrix C (3x5):

*	*	*	*	*
*	*	0	0	*
*	1	1	0	*
*	1	1	*	*
*	*	*	*	*