

A diagram illustrating the addition of two 3x3 matrices. The first matrix is enclosed in large square brackets. Each element a_{ij} is placed within a colored, elongated hexagonal band. The bands are color-coded by row: the first row bands are pink, the second row bands are orange, and the third row bands are green. The second matrix is shown to the right of the first, with its elements a_{ij} also within similar colored bands. Below the first matrix, three plus signs (+) are aligned under the columns, indicating the addition operation. The overlapping of the bands between the two matrices visually represents the element-wise addition.

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} + \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \\ a_{31} & a_{32} \end{bmatrix}$$