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Column Major Matrix
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$$\begin{bmatrix} a_{00} & a_{01} & a_{02} \end{bmatrix}$$

$$\begin{vmatrix} a_{10} & a_{11} & a_{12} \end{vmatrix}$$

 $\begin{bmatrix} a_{20} & a_{21} & a_{22} \end{bmatrix}$

Memory Layout:

$$\begin{bmatrix} a_{00} & a_{01} & a_{02} & a_{10} & a_{11} & a_{12} & a_{20} & a_{21} & a_{22} \end{bmatrix}$$

Row Major Matrix

$$\begin{bmatrix} a_{00} & a_{01} & a_{02} \end{bmatrix}$$

$$\begin{vmatrix} a_{10} & a_{11} & a_{12} \end{vmatrix}$$

$$\begin{bmatrix} a_{20} & a_{21} & a_{22} \end{bmatrix}$$

Memory Layout:

$$\begin{bmatrix} a_{00} & a_{10} & a_{20} & a_{01} & a_{11} & a_{21} & a_{02} & a_{12} & a_{22} \end{bmatrix}$$