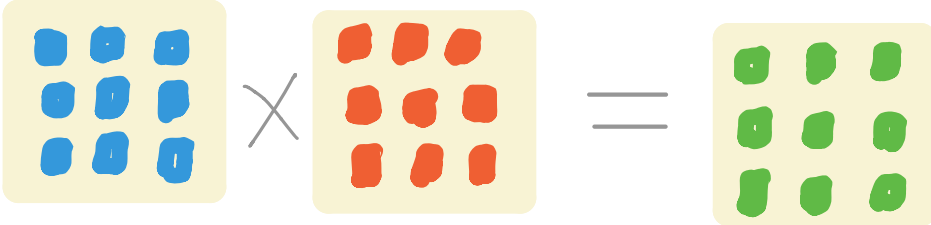
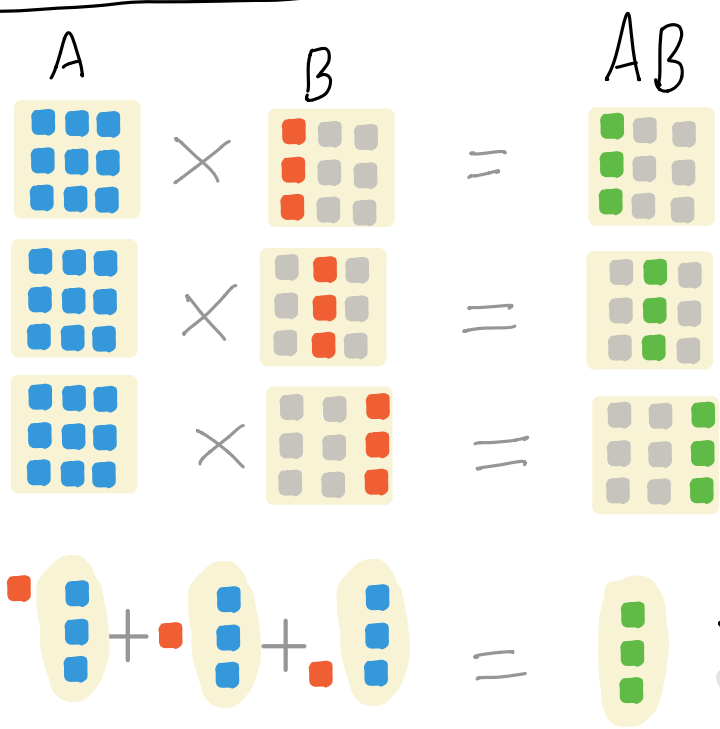


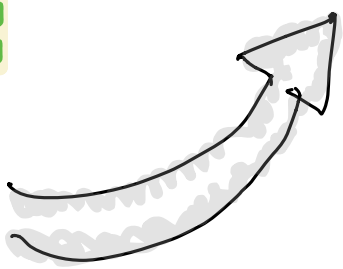
Rows And Columns Of AB



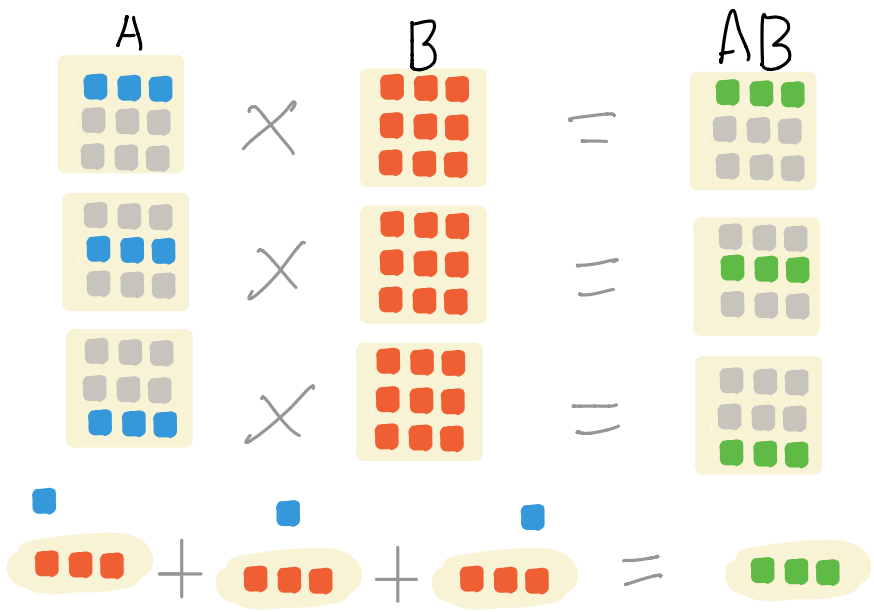
COLUMN PICTURE



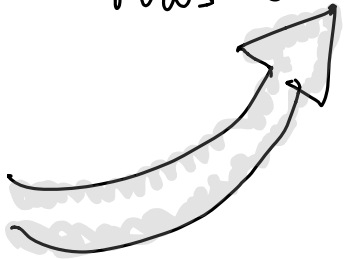
“Each column of AB is a combination of columns of A”



ROW PICTURE



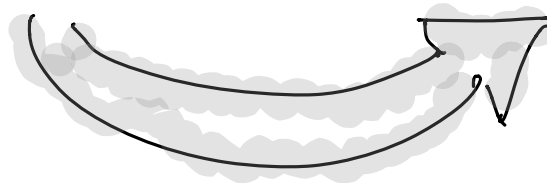
“Each row of AB is a combination of rows of B”



Row - Column Picture (Dot Products)

$$\begin{matrix} \text{Row 1 of } A & \times & \text{Col 1 of } B & = & \text{Element (1,1) of } AB \\ \text{Row 2 of } A & \times & \text{Col 2 of } B & = & \text{Element (2,2) of } AB \\ \text{Row 3 of } A & \times & \text{Col 3 of } B & = & \text{Element (3,3) of } AB \end{matrix}$$

“Each element in AB is a result of a row of A multiplied with a column of B ”



Column - Row Picture

$$\begin{matrix} \text{Col 1 of } A & \times & \text{Row 1 of } B & = & \text{Element (1,1) of } AB \\ \text{Col 2 of } A & \times & \text{Row 2 of } B & = & \text{Element (2,2) of } AB \end{matrix}$$

Column times row is a full matrix

$$\begin{matrix} \text{Col 1 of } A & \times & \text{Row 1 of } B & = & \text{Element (1,1) of } AB \\ \text{Col 2 of } A & \times & \text{Row 2 of } B & = & \text{Element (2,2) of } AB \end{matrix}$$