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Matrix Vector Multiplication

Matrix-Vector Multiplication

We map the column of the vector onto each row of the matrix, multiplying each element and summing the result.

$$egin{bmatrix} a & bc & de & f\end{bmatrix}*ig[xyig] = ig[a*x+b*yc*x+d*ye*x+f*yig]$$

The result is a **vector**. The number of **columns** of the matrix must equal the number of **rows** of the vector.

An **m** x **n** matrix multiplied by an **n** x 1 vector results in an **m** x 1 vector.

Below is an example of a matrix-vector multiplication. Make sure you understand how the multiplication works. Feel free to try different matrix-vector multiplications.

