

Matrix-Vector Multiplication

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

$$egin{bmatrix} a & b \ c & d \ e & f \end{bmatrix} * egin{bmatrix} x \ y \end{bmatrix} = egin{bmatrix} a*x+b*y \ c*x+d*y \ e*x+f*y \end{bmatrix}$$

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.

✓ Terminer

Aller à l'élément suivant







