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Fundamental Subspaces

In this section we want to take a look at some important subspaces that are associated with matrices. In fact they are so important that they are often called the fundamental subspaces of a matrix. We've actually already seen one of the fundamental subspaces, the null space, [previously](#) although we will give its definition here again for the sake of completeness.

Before we give the formal definitions of the fundamental subspaces we need to quickly review a concept that we first saw back when we were looking at matrix arithmetic.

Given an $n \times m$ matrix

$$A = \begin{bmatrix} a_{1,1} & a_{1,2} & \cdots & a_{1,m} \\ a_{2,1} & a_{2,2} & \cdots & a_{2,m} \\ \vdots & \vdots & & \vdots \\ a_{n,1} & a_{n,2} & \cdots & a_{n,m} \end{bmatrix}$$

The row vectors (we called them row matrices at the time) are the vectors in \mathbb{R}^n formed out of the rows of A . The column vectors (again we called them column matrices at the time) are the vectors in \mathbb{R}^m that are formed out of the columns of A .

Example 1 Write down the row vectors and column vectors for

$$A = \begin{bmatrix} -1 & 5 \\ 0 & -4 \\ 9 & 2 \\ 3 & -7 \end{bmatrix}$$

Solution

The row vectors are,

$$r_1 = [-1 \quad 5]$$

$$r_2 = [0 \quad -4]$$

$$r_3 = [9 \quad 2]$$

$$r_4 = [3 \quad -7]$$

The column vectors are

$$c_1 = \begin{bmatrix} -1 \\ 0 \\ 9 \\ 3 \end{bmatrix}$$

$$c_2 = \begin{bmatrix} 5 \\ -4 \\ 2 \\ -7 \end{bmatrix}$$

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