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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 sull space, <u>previously</u> 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 qualify review a concept that we first sew back when we were looking at matrix entitimetic.

Govern em 27 x 201 mastros:

$$\mathcal{A} = \begin{bmatrix} \boldsymbol{\sigma}_{11} & \boldsymbol{\sigma}_{12} & \cdots & \boldsymbol{\sigma}_{1m} \\ \boldsymbol{\sigma}_{21} & \boldsymbol{\sigma}_{22} & \cdots & \boldsymbol{\sigma}_{2m} \\ \vdots & \vdots & & \vdots \\ \boldsymbol{\sigma}_{n1} & \boldsymbol{\sigma}_{n2} & \cdots & \boldsymbol{\sigma}_{nm} \end{bmatrix}$$

The year vectors (we called them now matrices at the time) are the vectors in  $R^n$  formed out of the nows of A. The column vectors (again we called them column matrices at the time) are the vectors in  $\mathbb{R}^n$  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 now vectors are,

$$\mathbf{r}_i = [-1 \quad 5]$$

$$\mathbf{r}_2 = \begin{bmatrix} 0 & -4 \end{bmatrix}$$

$$r_i = [9 \ 2]$$

$$c_s = \begin{bmatrix} 3 & -7 \end{bmatrix}$$

The column vectors are

$$\mathbf{c}_z = \begin{bmatrix} -1 \\ 0 \\ 9 \\ 3 \end{bmatrix}$$
 $\mathbf{c}_z = \begin{bmatrix} .5 \\ -4 \\ 2 \\ -7 \end{bmatrix}$ 

# **Pauls Notes Linear Algebra**

**Karin Nielsen-Saines** 

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