

# NonSquare Matrices Transformations between Dimensions

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16:43

3x2 Matrix

Landing spots {  $\begin{bmatrix} 2 & 0 \\ -1 & 1 \\ -2 & 1 \end{bmatrix}$

input space

Spans of columns

$\Updownarrow$

"Column Space"

This example is mapping  $\mathbb{R}^2$  on to a plane in  $\mathbb{R}^3$ .

This is full rank because the column space is equal to the number of dimensions in the input space.