

# NonSquare Matrices Transformations between Dimensions

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3x2 Matrix

$$\left\{ \begin{bmatrix} 2 & 0 \\ -1 & 1 \\ -2 & 1 \end{bmatrix} \right. \begin{array}{l} \text{landing} \\ \text{spots} \end{array} \quad \begin{array}{l} \text{input space} \end{array}$$

Spans of columns

↔

"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.