

change of basis

Let V be a subspace of \mathbb{R}^n with
 $B = (\vec{v}_1, \dots, \vec{v}_k)$ a basis for V . If $\vec{x} = \begin{bmatrix} x_1 \\ \vdots \\ x_n \end{bmatrix} \in V$,
The B coordinates for \vec{x} are

$$[\vec{x}]_B = \begin{bmatrix} c_1 \\ \vdots \\ c_k \end{bmatrix}$$

↖
basis for \vec{x}

where $c_1 \vec{v}_1 + \dots + c_k \vec{v}_k = \vec{x}$

EX $\vec{x} = \begin{bmatrix} 2 \\ 3 \\ 2 \end{bmatrix}$ $B = \left[\begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}, \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} \right]$ $\vec{x} = 2 \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix} + 3 \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$

↕
subspace

$$[\vec{x}]_B = \begin{bmatrix} 2 \\ 3 \end{bmatrix}$$

$[\vec{x}]_B$ is the coefficient of basis to
make \vec{x}
- need basis and \vec{x}

* special case: $V = \mathbb{R}^n$ $B = (\vec{v}_1, \dots, \vec{v}_n)$

$$S = \begin{bmatrix} \vec{v}_1 & \dots & \vec{v}_n \\ | & & | \\ 1 & & 1 \end{bmatrix}$$

↖
V is all of \mathbb{R}^n

$$\text{then } [\vec{x}]_B = S^{-1} \vec{x}$$

Why: $S [\vec{x}]_B = \begin{bmatrix} \vec{v}_1 & \dots & \vec{v}_n \\ | & & | \\ 1 & & 1 \end{bmatrix} \begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix} = c_1 \vec{v}_1 + \dots + c_n \vec{v}_n = \vec{x}$
 $\Rightarrow [\vec{x}]_B = S^{-1} \vec{x}$ ✓ can go back & forth with this

Linear Algebra Concepts And Methods

SJ Ball



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