

Chapter 3

Linear Transformations

Linear transformations are linear maps and, as such, are subject to the same rules of composition as functions. The advantage, when you understand precisely the meaning of $T(u) = v^T$ (especially, as when you realize what actually does the operation $T(u) = v^T$), is that linear transformations are easy to understand. They are, in fact, functions of vectors. Moreover, their values will be vectors rather than scalars. The particular linear transformations that we study also satisfy a “linearity” condition that will be made precise later.

3.1 Definition and Examples

Below follows a brief introduction to the field of linear algebra. The first is not a linear transformation and the second is.

Example 1. Let T be \mathbb{R}^2 and let $\mathbb{R}^2 = \mathbb{R}$. Define $T: \mathbb{R}^2 \rightarrow \mathbb{R}$ by $T(x, y) = x + y$. Then, T is a linear transformation and a linear space of dimension 2, and maps to a one-dimensional space. The function is highly dependent (and is $T: \mathbb{R}^2 \rightarrow \mathbb{R}$), because that T does something like $T(x, y) = x + y$ is not a linear map. For example, $T(2, -1) = 1$, $T(1, 2) = 3$, but $T(2, 1) = 3$. We will see later that the transformations that satisfy the “linearity” condition will form a linear transformation.

Example 2. Let T be \mathbb{R}^2 and let $\mathbb{R}^2 = \mathbb{R}^2$. Define $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ by $T(x, y) = (x, y)$. Then, T is a linear transformation and a linear space of dimension 2, and maps to a vector in \mathbb{R}^2 . For example, $T(2, -1) = (2, -1)$ and $T(1, 2) = (1, 2)$. This particular function satisfies the “linearity” condition and will be called a linear transformation from \mathbb{R}^2 to \mathbb{R}^2 .

Definition 3.1. Let T and S be linear transformations, that is, linear transformations from \mathbb{R}^n to \mathbb{R}^m . T and S will be called a linear transformation if it satisfies the following two conditions:

$$T(u + v) = T(u) + T(v) \quad \text{and} \quad T(cu) = cT(u)$$

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Marco Casella



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