



N-DIMENSIONAL DISTANCE

Why

Can we generalize space distance beyond three dimensions?

Definition

Sure. Here's how. For $x, y \in \mathbf{R}^n$, define the distance between x and y to be

$$\sqrt{(x_1 - y_1)^2 + (x_2 - y_2)^2 + \cdots + (x_n - y_n)^2}$$

