

# MANHATTAN DISTANCE

$$\sum_{i=1}^n |p_i - q_i|$$

Diagram illustrating the Manhattan Distance formula. The summation symbol  $\sum$  is shown with a superscript  $n$  and a subscript  $i=1$ . The expression inside the absolute value is  $p_i - q_i$ . A blue arrow points from the text "Element of a vector" to  $p_i$ , and a red arrow points from the text "Element of a vector" to  $q_i$ .

Imagine you are in Manhattan and can only travel North, South, East, and West.

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