

# R Notebook

## Distance function

The native `dist` function in the `stats` package computes and returns the distance matrix computed by using the specified distance measure to compute the distances between the rows of a data matrix.

The available distances are:

- euclidean:

$$d(x, y) = \sqrt{\sum (x_i - y_i)^2}$$

- maximum:
- manhattan:
- canberra:

$$\sum \frac{(x_i - y_i)}{x_i + y_i}$$

- binary:

The distance is the proportion of bits in which only one is on amongst those in which at least one is on.

- minkowski:

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