

Conventional
Data
Matrix

$$P_{p \times p}^v$$

Correlation
Covariance
⋮

$$P_{n \times n}^s$$

Euclidean Distance
Manhattan Distance
⋮

$$\begin{matrix} X_{11}, X_{12}, \dots, X_{1p} \\ X_{21}, X_{22}, \dots, X_{2p} \\ \vdots \\ X_{n1}, X_{n2}, \dots, X_{np} \end{matrix} \begin{matrix} O_1 \\ O_2 \\ O_3 \\ \vdots \\ O_n \end{matrix}$$

$$X_{n \times p}$$

Summarize

K-means

Hierarchical

User-defined

Variables aggregation

Univariate

Histogram

Index plot

$$\begin{matrix} C_1 \\ C_2 \\ \vdots \\ C_k \end{matrix} \begin{matrix} [a_{11}, b_{11}], \dots, [a_{1p}, b_{1p}] \\ [a_{21}, b_{21}], \dots, [a_{2p}, b_{2p}] \\ \vdots \\ [a_{k1}, b_{k1}], \dots, [a_{kp}, b_{kp}] \end{matrix} \begin{matrix} I_{k \times p} \end{matrix}$$

Raw data
Statistics

ResultSets
other obj.

3D - scatter plot

General radar

Multivariate

ggESDA

Scatter plot

2D - histogram

Bivariate Plot