## Visualizing Fisher's Iris Data

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## Explanation on Target Data

• The data set consists of 50 samples of three types (Iris setosa, Iris virginica and Iris versicolor). From each sample, the length and width of the scale, and the length and width of the petals are measured in centimeters.

## II. Visualization Results

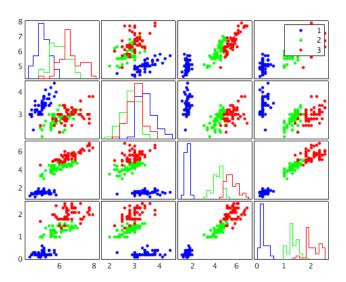


Fig. 1: Scatterplot matrix

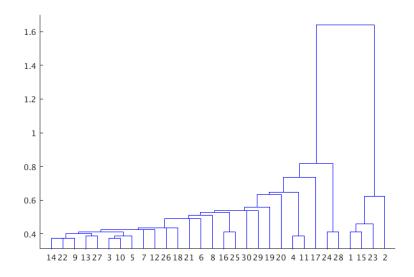
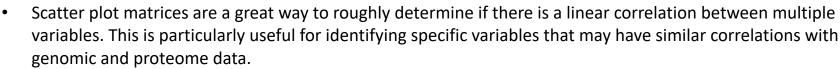


Fig. 3: Hierarchical clustering III. Methods and Discussion





- Parallel coordinate plots is that A more compact representation for multivariate data samples is wanted. Parallel coordinate plots are ideal for comparing many variables and verifying the relationships between them.
- In data mining and statistics, hierarchical clustering is a method of cluster analysis that seeks to build a hierarchy of clusters.
- A proximity graph is a simply a graph in which two vertices are connected by an edge if and only if the vertices satisfy particular geometric requirements.

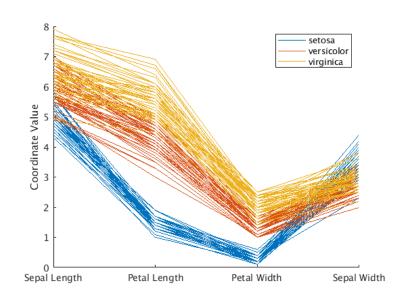


Fig. 2: Parallel coordinate plots

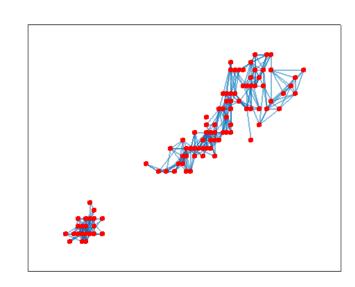


Fig. 4: Proximity graph