Interactive Glyph Analysis with R

GAUGUIN (Grouping And Using Glyphs Uncovering Individual Nuances) is a project for the interactive visual exploration of multivariate data sets, developed for use on all major platforms (Windows, Linux, Mac). It supports a variety of methods for displaying flat-form data and hierarchically clustered data.
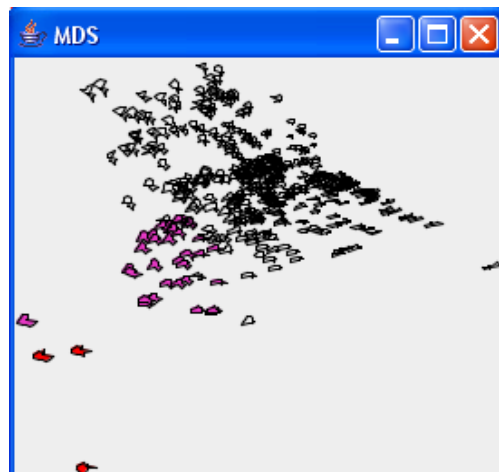
Glyphs are geometric shapes scaled by the values of dataset variables. They may be drawn for individual cases or for averages of groups or clusters of cases. GAUGUIN offers four different glyph shapes (but more could be added).

The number of data elements which can be displayed simultaneously is limited, because each glyph requirees a minimum amount of screen space to be viewed, but hierarchical glyphs can be drawn for groups of cases. Hierarchical glyphs are composed of a highlighted case representing the group and a band around it showing the variability of all the members of the cluster.
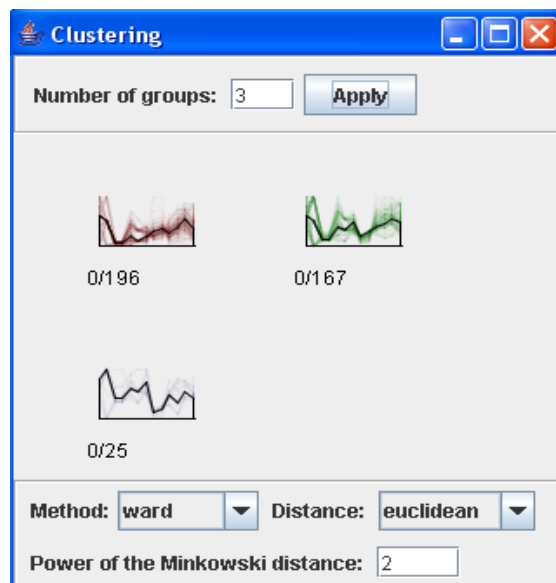
GAUGUIN also provides scatterplots and tableplots, and via Rserve is able to use R to calculate MDS views and clusters for the data. All GAUGUIN displays are linked interactively and can be directly queried.

Some plots:

MDS (Multidimensional scaling):

CLUSTERING:

TABLEPLOT: