

**Mviz** is an extension to **MapInfo Professional** which provides functions for displaying multi-channel (multi-variate) data as:

- ◆ Tri-variate displays (varying by symbol colour, size and shape)
- ◆ Windmill/pie/ray plots for up to 16 channels
- ◆ RGB classification (one channel assigned to each of red, green and blue)
- ◆ Line profiles (for points arranged in lines)
- ◆ Univariate statistics, including box plots and normalizing

### Data Display with Mviz

Mviz, the multi-variate symbolizer, provides a platform of tools for thematic displays of multiple columns for point data. Whilst MapInfo provides easy to use thematic map display types for point data, Mviz adds powerful tools geared towards the display of multi-channel data (especially of geochemistry).

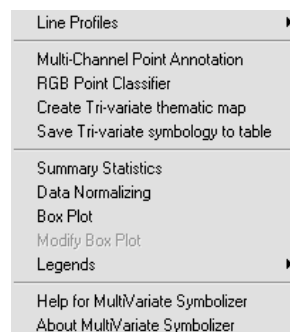
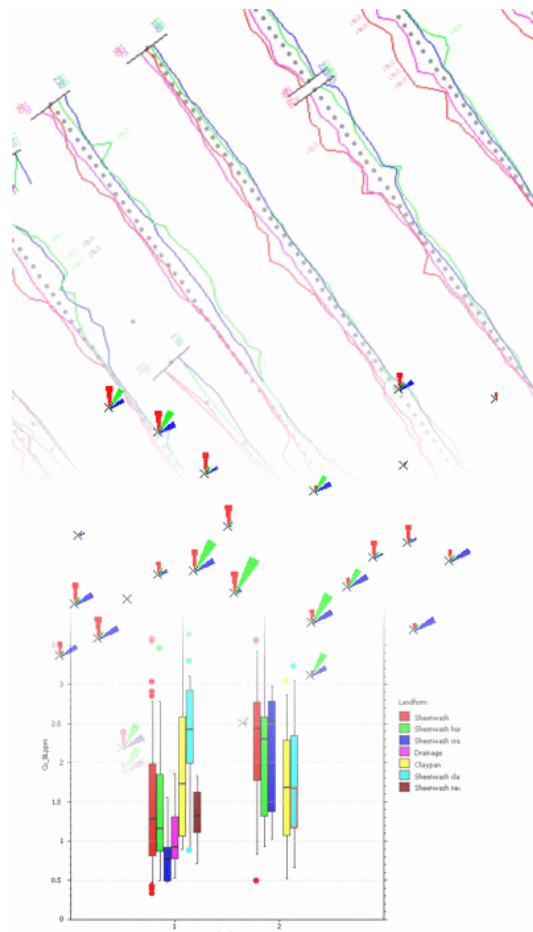
In addition to the thematic visualization tools, the statistics tools in Mviz provide valuable data exploration functionality, again geared towards multi-channel data.

Use the statistics functions in Mviz to intelligently process your data, treating samples with different attribute values (such as rock type or sample type) as different populations. Normalizing values within these distinct populations then provides values which can be displayed and visually interpreted with greater clarity and certainty.

### Using Mviz

Examples of how Mviz can be used to add value to your data include:

- ◆ multiple elements in profile format for soil surveys (including elevation and magnetics from grids)
- ◆ multiple elements in windmill/pie format for stream sediment or rock chip samples
- ◆ transform multiple elements to normalized values, levelling by sample type and/or rock type
- ◆ explore data distributions, levelling by sample type and/or rock type
- ◆ map anomalous Cu, Pb, Zn to red, green and blue channels respectively for easy visualization of '000s of samples
- ◆ map numerical variables such as As to symbol colour and Sb to symbol size, and map a categorical variable such as landform to symbol shape



### Multi-Channel Line Profiles

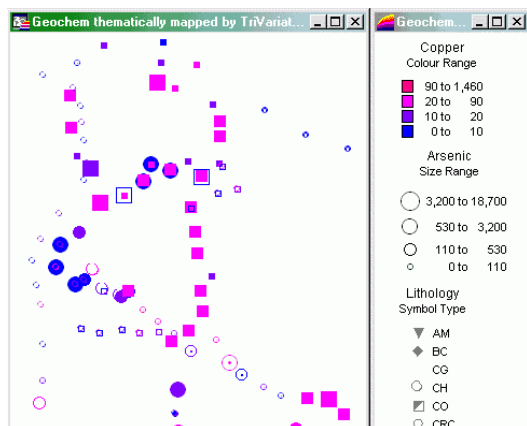
- Display profiles for up to 16 numeric columns in a table
- Display profiles for grid layers
- Scale by data units or normalize to median or max value
- Clip to percentile or value, clip labels
- Log transform, filter line profiles
- Automatically assign line numbers to point layer
- Custom legend

### Multi-Channel Point Annotation

- Display windmill blades, pie slices or rays for up to 16 numeric columns for each point
- Scale by data units or normalize to median or max value
- Log transform
- Clip to percentile or value, clip labels
- Custom legend

### Tri-variate Symbolizer

- Assign symbol colour and shape to two numeric columns
- Assign symbol shape to a categorical column
- Display symbology as thematic map or permanent object styles



### System Requirements

Mviz requires MapInfo Professional v5.50 or later, running on Windows 98/NT/2000/XP.

### Find out more about Mviz

Download a fully functional evaluation version of Mviz from [www.avantra.com.au](http://www.avantra.com.au).

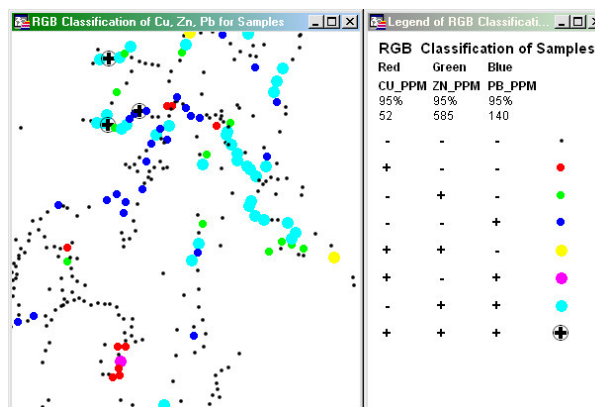
Or contact [info@avantra.com.au](mailto:info@avantra.com.au) to get prompt answers to all your queries about using Mviz with your data.

### About Avantra Geosystems

Avantra Geosystems is an Australian company specializing in GIS software development and associated consulting services. Avantra Geosystems is an authorized MapInfo partner.

### RGB Point Classifier

- Assign a numeric column to red, green and blue colour channels
- Set threshold by percentile or value
- Custom legend



### Summary Statistics and Box Plot

- Full suite of uni-variate statistics
- Statistics can be grouped (levelled) by values in one or two columns
- Box plot for multiple numeric columns
- Box plot can be grouped (levelled) by values in one or two columns

### Data Normalizer

- Percentile
- Z-score by mean
- Z-score by median
- Optional log transform
- Level by values in one or two other columns

### Legends

- Custom legend for thematic map of normalized and levelled data
- Cartographic legend to non-earth map converter