

VORTEX



Vortex is a scientific data analysis and visualization solution designed to dynamically import, combine, mine and analyse large datasets including chemical structures, biological assays, text and numeric data.

A SINGLE DASHBOARD FOR YOUR SCIENTIFIC DATA

New technologies have led to an exponential growth in data from disparate sources. Vortex is a scientific business intelligence tool developed by scientists, for scientists. It provides the plots and functionality required to explore and understand complex, disparate data. Vortex is available with full chemical structure intelligence and includes a set of scientific property calculators and functionality designed to assist scientists in multiple disciplines.

COLLECT DATA IN A SINGLE AND POWERFUL DASHBOARD

Importing and exporting data in Vortex is very simple. You can:

- Import data from flat files, spreadsheets and CSV formats
- Import directly from databases, including Oracle, SQL Server and MySQL

- Save and re-use your workspace (dashboard) for automatic analysis of additional datasets
- Combine multiple data files (csv, xls, sdf, etc.) in a single view for analysis

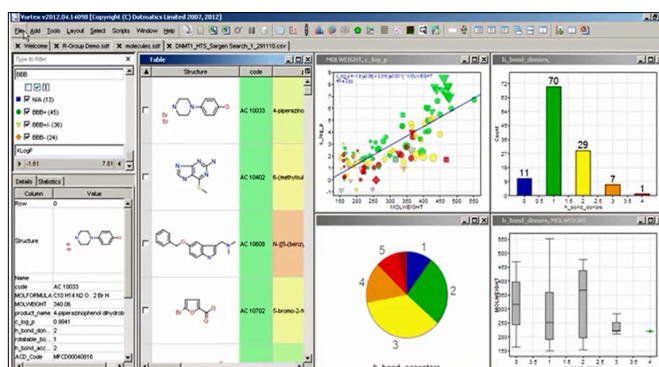


Figure 2: Example of Vortex workspace depicting filters, stats, tables and graphs

POWERFUL VISUALIZATION

- Tables with statistical aggregation and sub-rows
- Plots within tables
- Dynamic views of biological sequences/structures/Ontologies
- Big data ready, capable of managing very large complex tables

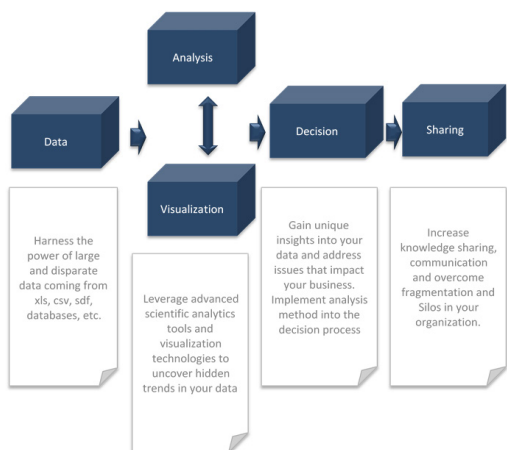


Figure 1: Example of data analysis workflow

ANALYSE YOUR DATASET

Vortex includes a comprehensive set of tools to perform data analysis:

- Sequence alignment and clustering
- ORF generation and B-SAR calculations
- CDR library search and GFF sequence annotations

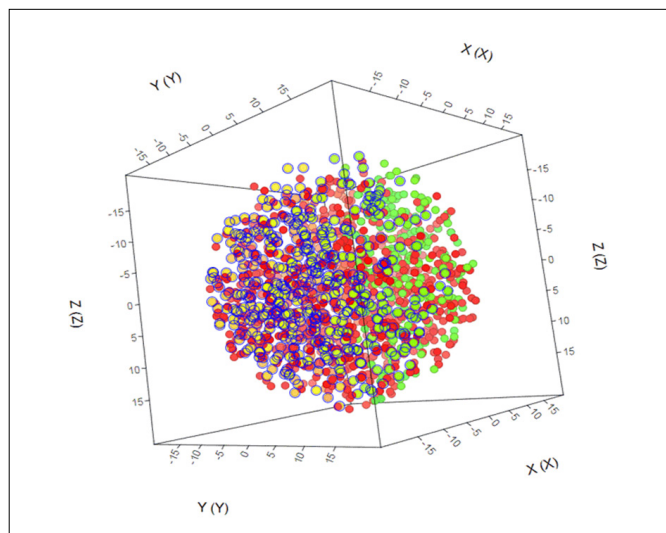


Figure 3: Example of an interactive 3D Scatterplot

CUSTOMIZE YOUR VORTEX

Vortex enables you to add your own scripts via Python scripting

REPORT AND EXPORT

Vortex provides users with multiple reporting options:

- Copy and paste graphs and plots directly into Microsoft Office™
- Export all plots, graphs and tables from your workspace into PowerPoint to create slides ready for presentation
- Export raw and processed data into sdf, csv, etc. files
- Share work-spaces with colleagues

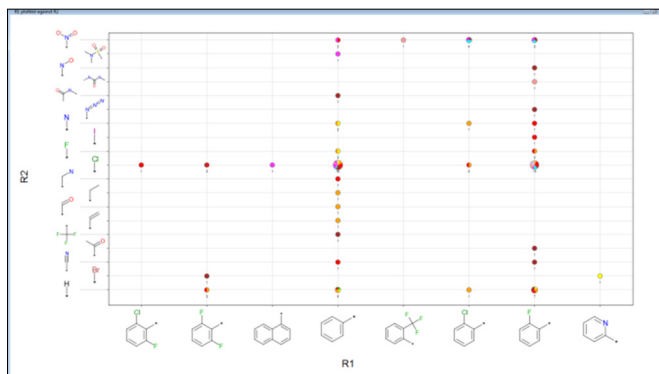


Figure 4: R-group analysis in Vortex

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