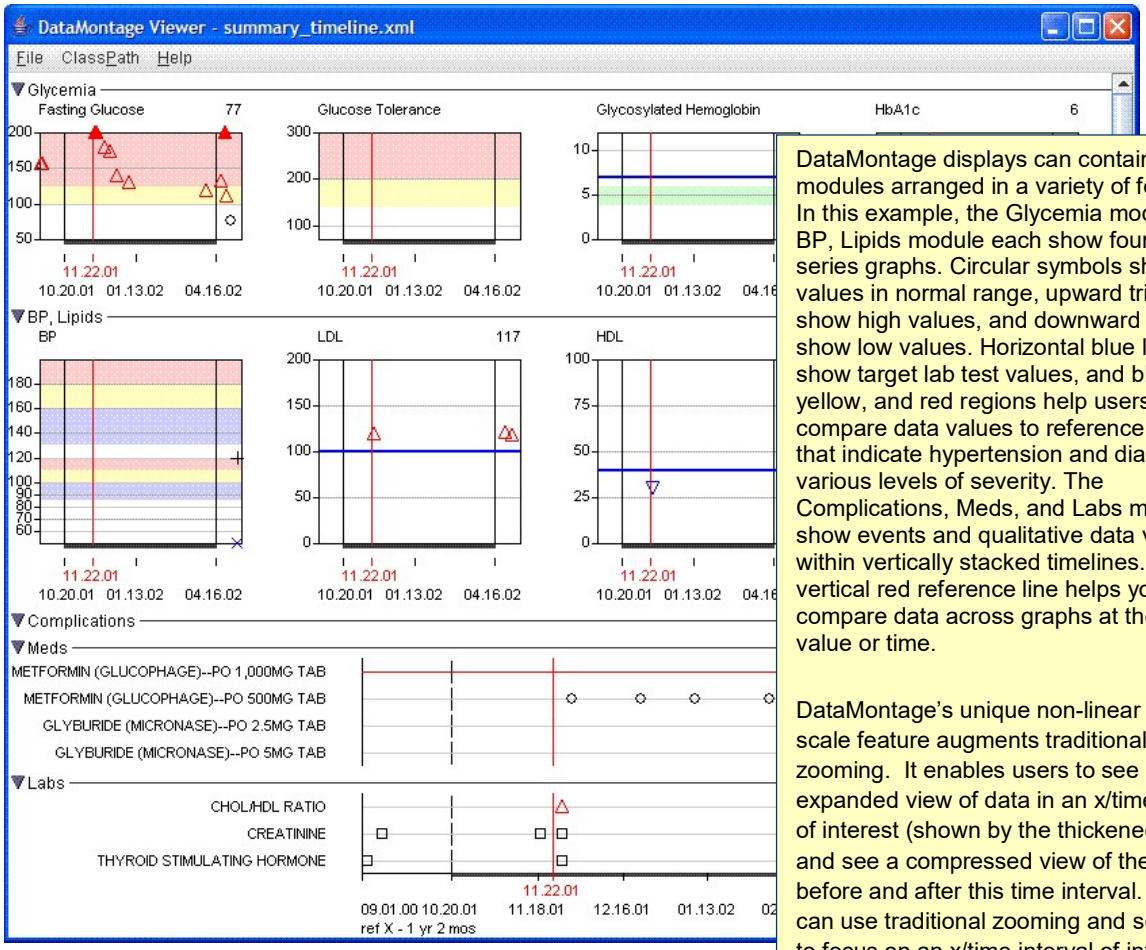
DataMontage 5.0 Overview

The DataMontage™ software system is a collection of Java and JavaScript software applications and libraries that enable you to create, display, and print information-dense arrays of timelines, XY graphs, and notes that share a common X or datetime axis. You can stack graphs and timelines vertically or arrange them in rows and columns to see multivariate patterns. Flexible control over the color, shape, and size of graph and timeline symbols lets you encode multiple attributes and highlight significant data points. Custom icon support lets you draw data points using image icons, text strings, or arbitrary graphics drawn by custom drawing software. Colored lines and regions help you compare data points to reference values, ranges, and time intervals,.

DataMontage lets you see information associated with each graphical data element using mouse rollovers, popup HTML windows, and navigation to another web page. Your Java applet, application, or web server application can configure the content and format of DataMontage objects via Java application programming interface (API). Programs written in Java or in other languages can configure DataMontage displays by creating Extensible Markup Language (XML) files. DataMontage also supports custom user interactivity by providing an API that enables menu choices to be added to the context menu. You can define and select pre-defined graph subsets to filter large datasets. For example, you can view just the subset of a patient's diagnoses, labs, and medications graphs and timelines that relate to specific medical problems or clinical specialties. You can also create pre-defined queries and highlight the data points and/or time intervals that satisfy certain selection criteria. For example, a data point query could draw a circle around every data point in any timeline that is related to the currently-selected data point, using a custom comparison function. You can create user-selectable views that highlight or filter the DataMontage display by calling Java method and/or JavaScript functions.



DataMontage displays can contain multiple modules arranged in a variety of formats. In this example, the Glycemia module and BP, Lipids module each show four time series graphs. Circular symbols show values in normal range, upward triangles show high values, and downward triangles show low values. Horizontal blue lines show target lab test values, and blue, yellow, and red regions help users compare data values to reference ranges that indicate hypertension and diabetes at various levels of severity. The Complications, Meds, and Labs modules show events and qualitative data values within vertically stacked timelines. A vertical red reference line helps you compare data across graphs at the same x value or time.

DataMontage's unique non-linear time-scale feature augments traditional zooming. It enables users to see an expanded view of data in an x/time interval of interest (shown by the thickened x axis) and see a compressed view of the data before and after this time interval. Or, you can use traditional zooming and scrolling to focus on an x/time interval of interest.

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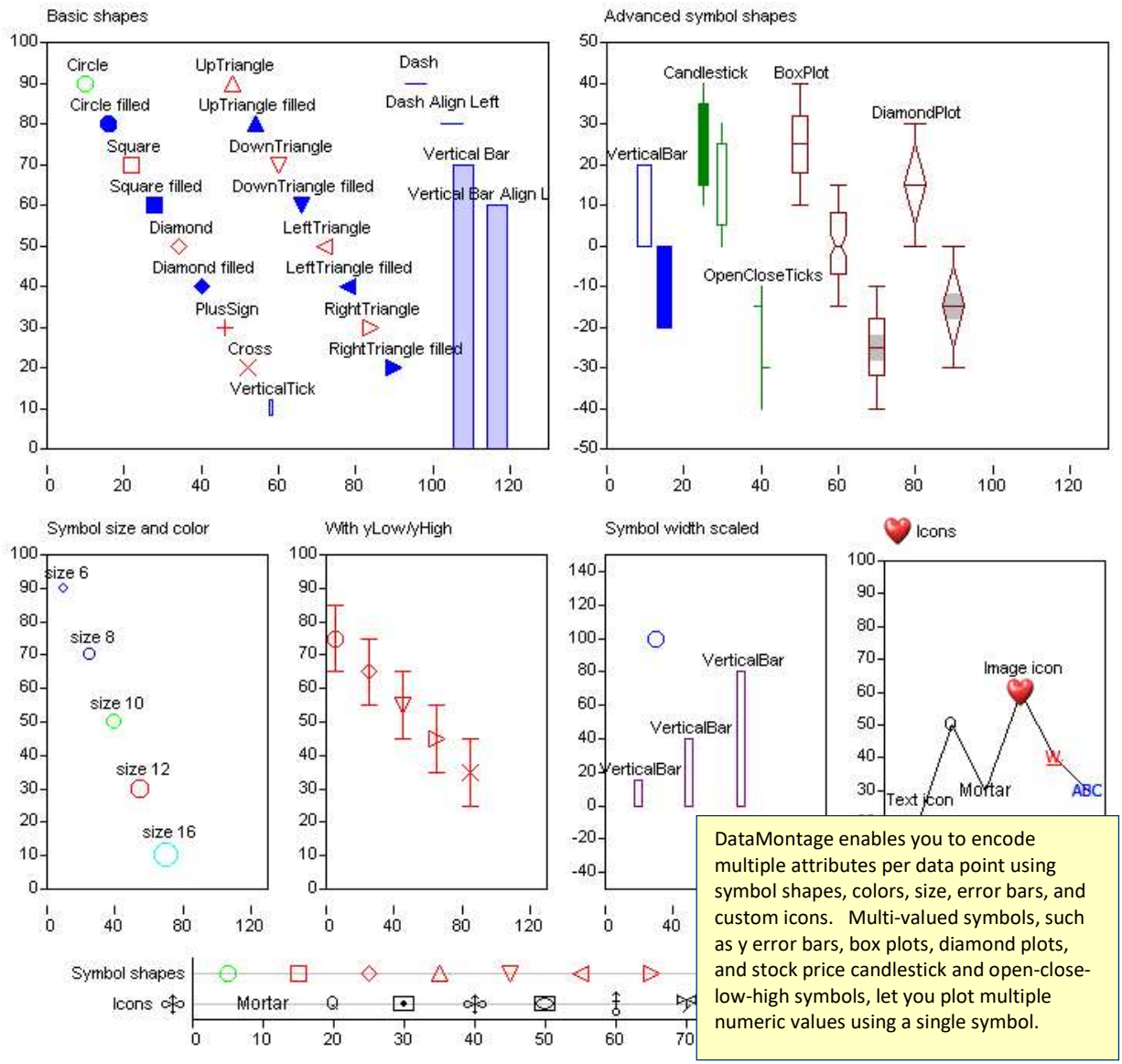
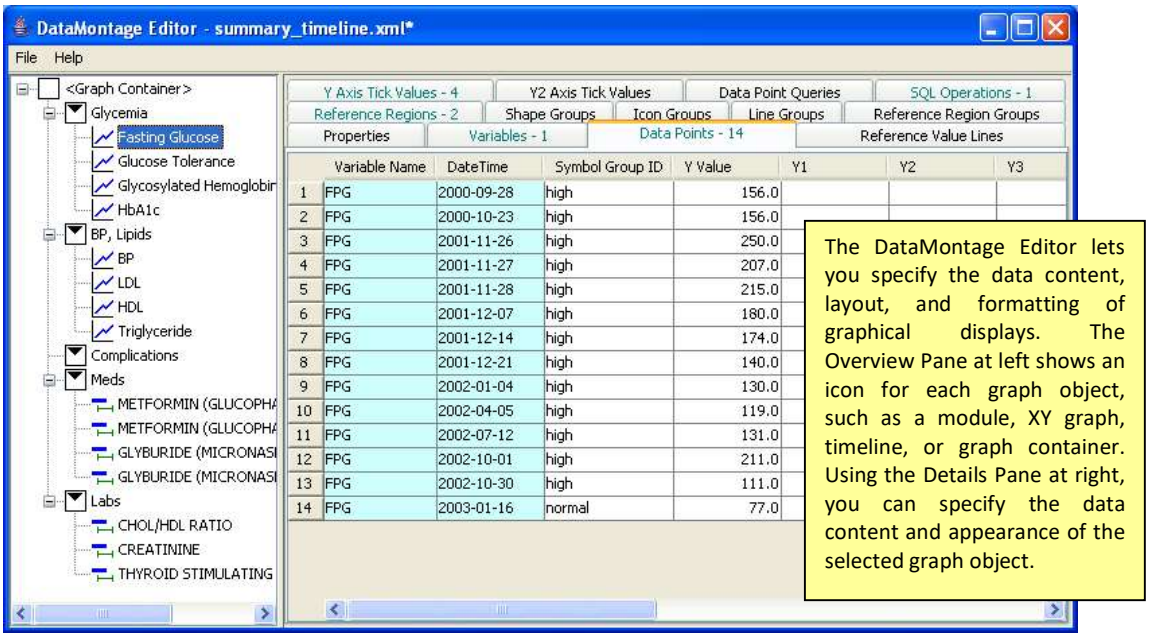


The DataMontage Software Developer's Kit comprises:

DataMontage/J Run-time Library	Java library that can be called from within client-side and server-side Java applications to create, modify, load, save, and display DataMontage graphical displays. In version 5.0, this library also includes functions for exporting DataMontage Java-based container objects into JSON objects that are read by DataMontage/JS. The application programming interface (API) is described by Javadoc documentation that is included in the Developer's Kit.

DataMontage/JS Run-time Library	JavaScript library that can be called from within JavaScript programs running within Web browsers to display DataMontage graphical displays encoded as JSON objects using JavaScript and Scalable Vector Graphics (SVG). The DataMontage JSON format mirrors a subset of the DataMontage Java classes. The names of the properties in DataMontage JSON files are the same as the XML tags used in DataMontage XML configuration files. DataMontage/JS provides a subset of the functionality of DataMontage/J, including support for displaying timelines.
DataMontage Editor	Window desktop application that enables you to create, edit, and save DataMontage configuration files that specify the content and appearance of graphical displays interactively, without programming.
DataMontage Viewer	Windows desktop application that enables you to view DataMontage configuration files that have been created using the DataMontage Editor or by a DataMontage/J application that uses the DataMontage/J run-time system.
DataMontage Applet	Java applet that displays DataMontage/J objects within a Web browser.

The DataMontage **Editor** enables you to create and edit the content, layout, and appearance of graphical displays easily. Use the Editor to create graphical displays to create graph mockups, and create graph templates that are populated with data by a software application that embeds the DataMontage run-time library.



Contact

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