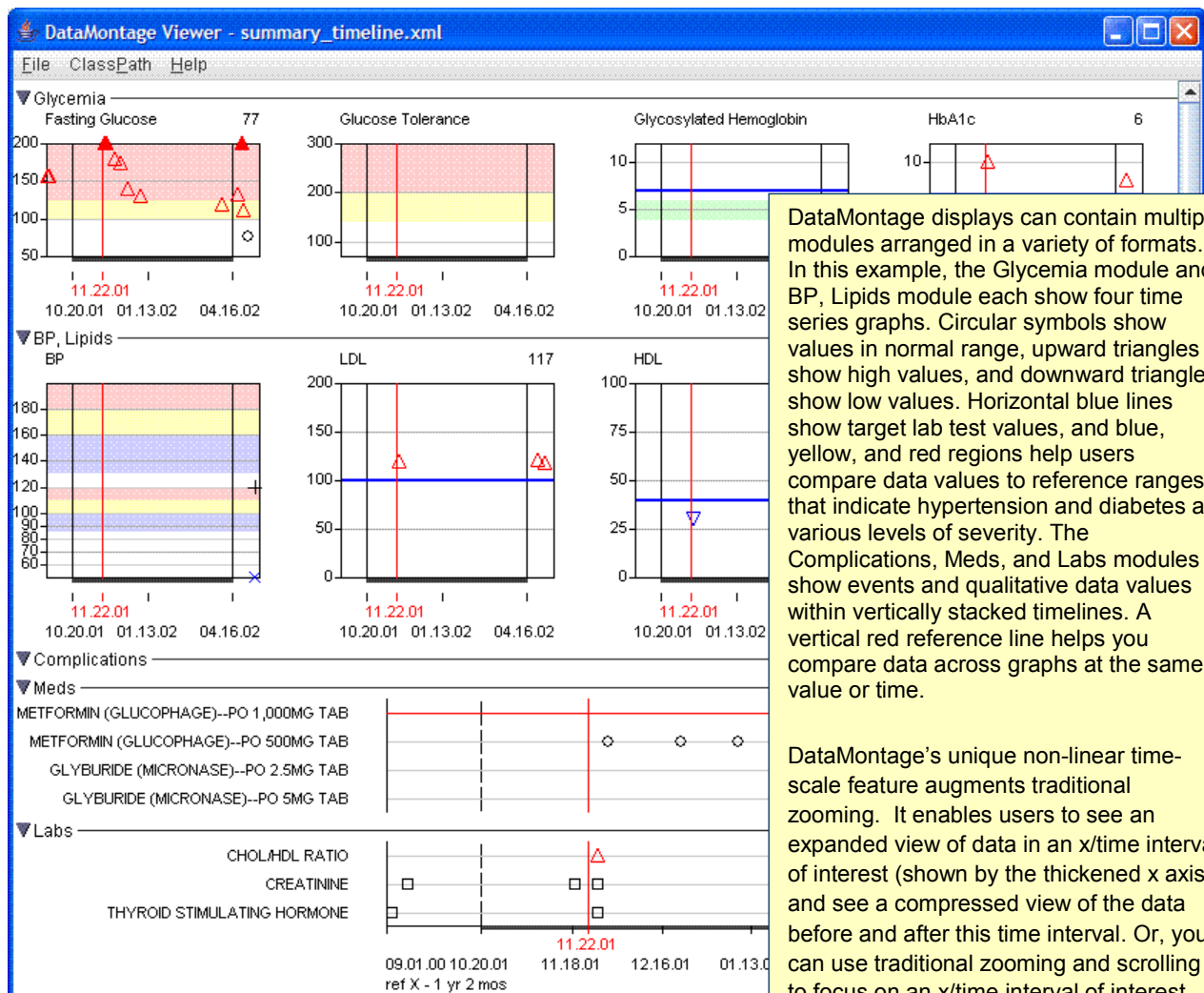


# DataMontage 3.0 Overview

DataMontage™ is a Java software library and collection of interactive software applications that enables you to create and display information-dense graphical displays comprised of coordinated timelines, time-series graphs, and time-stamped notes. You can stack graphs and timelines vertically or arrange them in rows and columns to see patterns spanning multiple variables. 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, time intervals, and ranges.

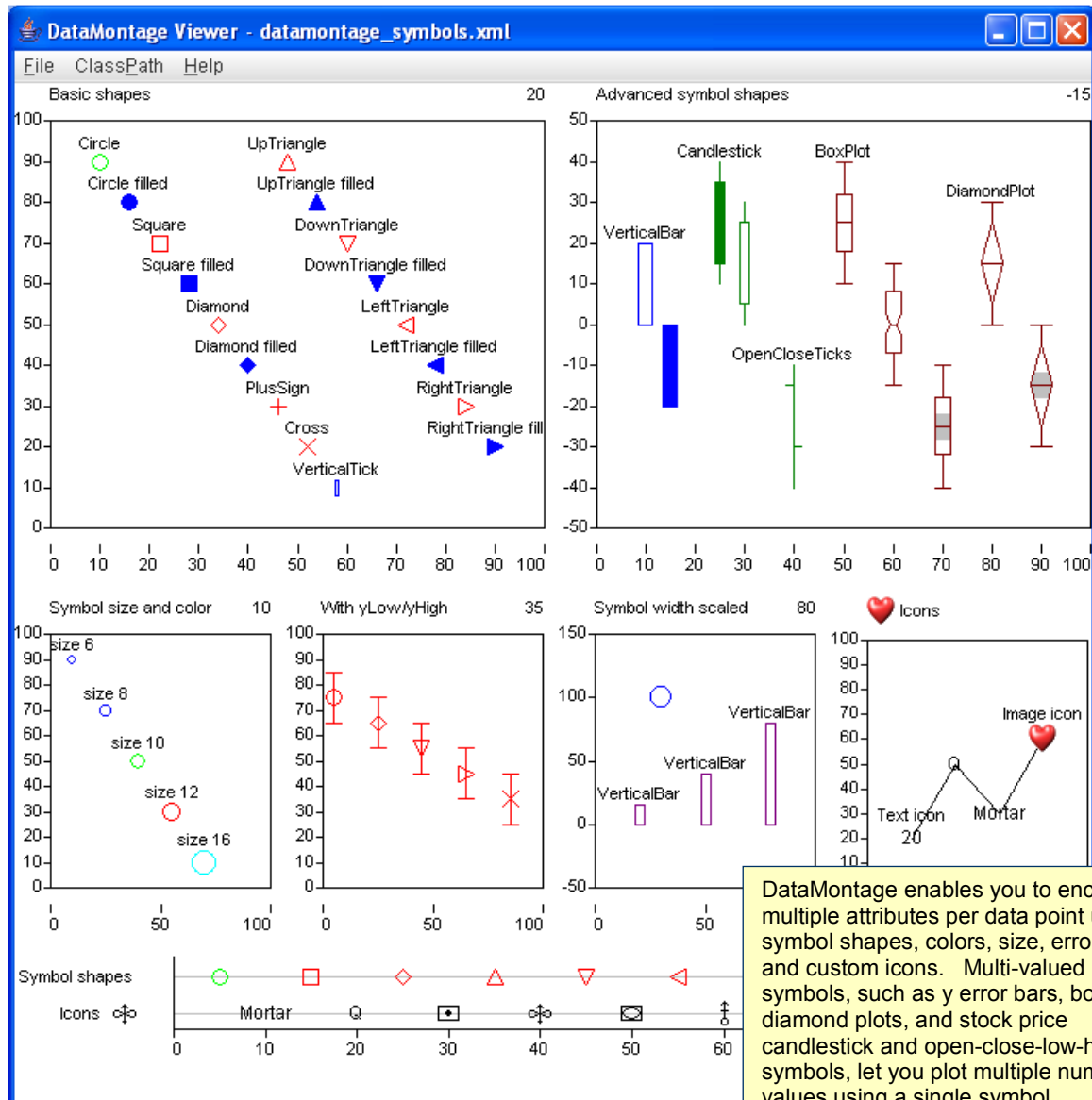
DataMontage lets you see information associated with each graphical data element using mouse rollovers, popup HTML windows, and navigation to another web page. Your Java applet, application, or web server application can configure the content and format of DataMontage objects via Java application programming 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 pre-built DataMontage Viewer application enables you to open, display, print, and create JPEG files from DataMontage graphical displays. The DataMontage Editor enables you to create and edit the content, layout, and appearance of graphical displays easily. You can use the Editor to create graphical displays to review data, create graph mockups, and create graph templates that are populated with data by a software application that embeds the DataMontage run-time library.

The screenshot shows the DataMontage Editor window titled "DataMontage Editor - summary\_timeline.xml\*". The interface is divided into several panes:

- Overview Pane (Left):** A tree view showing a hierarchy of graph objects. The "Glycemia" folder is expanded, showing sub-objects like "Fasting Glucose", "Glucose Tolerance", "Glycosylated Hemoglobin", and "HbA1c". Other folders include "BP, Lipids", "Complications", "Meds", and "Labs".
- Details Pane (Right):** A table displaying data for the selected "Fasting Glucose" object. The table has columns for "Variable Name", "DateTime", "Symbol Group ID", "Y Value", "Y1", "Y2", and "Y3".

	Variable Name	DateTime	Symbol Group ID	Y Value	Y1	Y2	Y3
1	FPG	2000-09-28	high	156.0			
2	FPG	2000-10-23	high	156.0			
3	FPG	2001-11-26	high	250			
4	FPG	2001-11-27	high	207			
5	FPG	2001-11-28	high	215			
6	FPG	2001-12-07	high	180			
7	FPG	2001-12-14	high	174			
8	FPG	2001-12-21	high	140			
9	FPG	2002-01-04	high	130			
10	FPG	2002-04-05	high	119			
11	FPG	2002-07-12	high	131			
12	FPG	2002-10-01	high	211			
13	FPG	2002-10-30	high	111			
14	FPG	2003-01-16	normal	77			

**Callout Box:** The DataMontage Editor lets you specify the data content, layout, and formatting of graphical displays. The Overview Pane at left shows an icon for each graph object, such as a module, XY graph, timeline, or graph container. Using the Details Pane at right, you can specify the data content and appearance of the selected graph object.

## Contact

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