

The Widget Libraries Every Developer Needs

EnhancementPak PRO provides a rich library of user interface widgets that enable developers to simplify and speed the development of professional, intuitive Motif applications.

Motif's Most Wanted Widgets

Motif developers who want to add intuitive and professional Windows®-like controls, high-performance live feed tables and sophisticated graphs to their applications turn to EnhancementPak PRO™. EPak PRO addresses these needs by providing well tested, easy-to-use components and libraries that eliminate the time, cost, and risk of custom widget development.



EnhancementPak PRO offers a suite of advanced widgets, plus charting and graphing tools.

Key Features

- Offers:
 - EnhancementPak™**, a set of libraries which adds 30 advanced widgets to OSF/Motif™
 - ChartObject™**, an integrated 2D and 3D charting library with runtime data links
 - EditTable™**, a comprehensive, flexible and fast table, capable of over 1,500 updates per second
- Integrates with leading Motif GUI builders, including Builder Xcessory™
- Proven in thousands of large-scale software projects
- Binary and source code available
- No royalties or runtime fees



EnhancementPak PRO



“When we start a project, we begin by checking EnhancementPak to see what widgets we’ll use instead of writing our own. It has completely changed the way we develop software and saved us months of coding time.”

Eric Schott, Bay Networks

EnhancementPak – The Widget Library That Completes Motif

Each EnhancementPak (EPak) widget was designed to replace or augment widgets in the standard OSF/Motif distribution. They offer simple services like alignment and distribution, as well as more complex functions like color selection and pixmap editing.

EnhancementPak Widgets

Geometry Managers and Containers



New! Column simplifies the creation of data entry forms by providing automatic vertical or horizontal alignment between labels and their associated text fields.



Button Box is preferred by developers over Motif’s Form because the Button Box can align and distribute children of any kind by simply modifying one orientation resource.



Icon Button, similar to Motif’s Push Button, adds the ability to display a label and a pixmap simultaneously.



Paned offers panes with both horizontal and vertical orientations, as well as other configurations.



Porthole is a “window” onto a larger, obscured area, and **Panner** controls what the user can see through the porthole with a 2D scrolling or “panning” control.



Stretch enables end-users to resize the window. It acts like a window manager around a single widget.



Toolbar creates toolbars and offers pop-up hints, similar to Windows Tool Tips.



Enhanced! Tree and **Outline** offer dynamic methods for displaying hierarchical data, and can manage children of any kind.

Data Presentation



Enhanced! Combination Box gives end-users an input field with a pull-down list of predefined values.



Tab Stack is a flexible and powerful tool for creating tabs. It facilitates layout and display, allowing developers more time to perfect applications.



New! Datafield handles display and entry of data as text. As a subclass of `XmTextField`, it supports regular expression-based parsing, input validity checking, and right justification.



Enhanced! Extended (I18N) List supports multiple column lists using internationalized strings. It accepts pixmaps and provides search & sort capability.



Icon Box lays out its children on a grid, adding new cells automatically when its window is resized. It supports absolute positioning of cells and empty cells.

Resource Editors/Controls



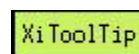
Pixmap Editor supports common drawing functions for creating and editing bitmap graphics.



Font Selector allows end-users to specify a font interactively. It permits wildcarding and displays the user’s current choice.



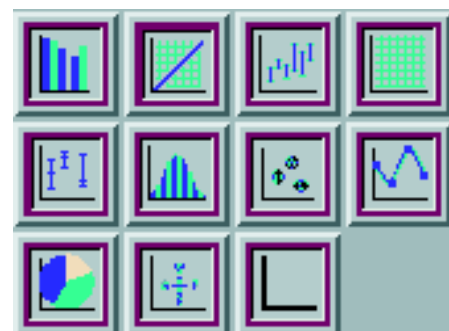
Color Selector lets end-users choose colors using RGB sliders or by specifying a color name from a list dynamically generated by the user’s system.



New! XiToolTip offers a library of functions that provides a generalized interface to add time-delayed, mouse activated “ToolTip” functionality to any X Toolkit widget.

Business & Scientific Graphs

EPak provides a complete and flexible set of tools for developing basic business and scientific graphs. The graphing components include **Plotter**, a flexible, easy-to-use container widget that provides the plotting infrastructure and defines the appearance of the axes, title, legend, etc., and a set of 11 **Plot** widgets for end-user’s business graphic needs.



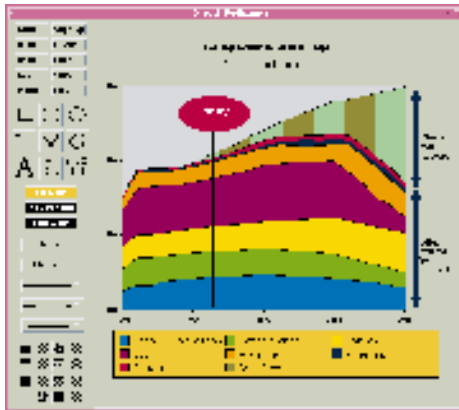
ChartObject – Integrated 2D and 3D Charting Library

ChartObject™ is an OSF/Motif compliant widget library for providing comprehensive 2D and 3D charting capabilities. ChartObject implements many unique features making chart production faster and easier, including dynamically loadable chart templates, a common chart data interface and interactive editing of data.

ChartObject greatly simplifies many charting tasks. Built-in support for drag and drop of data, end-user chart configuration, a wide variety of interchangeable 2D and 3D chart types, and support for PostScript™ output allow the programmer to concentrate on developing the application.

Flexible Data Handling

ChartObject's Model View Controller (MVC) architecture logically separates data from its visual appearance. Generating multiple views of data becomes simpler. Changing chart types interactively, and establishing live links between charts and tables, is all possible without changing the underlying data model. Live links can be established by the developer, or at runtime by the user, and may even be linked with real-time data feeds.

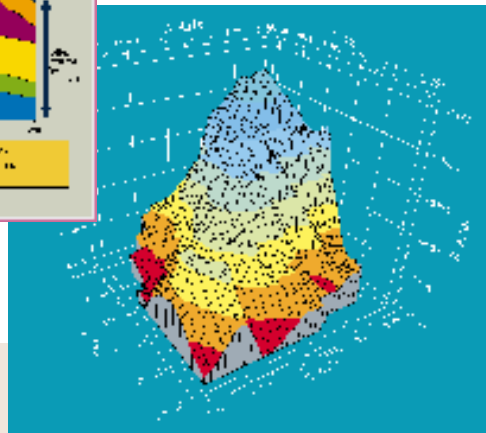


Pick a Chart, Any Chart!

Unlike other charting widgets, ChartObject combines the full range of 2D and 3D chart types in a single library, without the need to buy a separate 3D package. All plot types needed are included, from basic XY plots, area graphs, bar charts and pie charts, to high-low plots, candlestick plots, scatter plots, 3D surface displays, etc. All aspects of chart appearance can be configured to match the rest of the GUI.

Highly Configurable Views

ChartObject's architecture is object oriented. It is based on a powerful graphic object library, which supplies primitive objects (axes, rectangles, polylines, ovals, etc.) and functionality such as selection, editing, double-buffering, and PostScript output.



In addition, graphic objects can be used to overpost any kind of graphics, logos, or text on the chart - functionality unavailable in any other charting package.

Empower Your Users

In addition to its powerful interactive editing capabilities, ChartObject puts more data visualization features in the hands of users. Once created, a chart can be stored as an ASCII template for later re-use. A charting application can therefore leave decisions about its visual appearance until runtime, where the user can choose a preferred visual style from the list of chart templates available. Built-in or customized resource editors further enhance the users capabilities.

Combine Charts or Combine Data

Combining plots on the same chart conveys more information and makes for better user interfaces. For example, it is often important to show different types of data together - such as share prices as a high-low plot together with volume of shares traded as a histogram. Making combination plots is straightforward and there is no limit to the number or type that can be placed on the same chart.

Chart Object

“ChartObject adds yet another level of benefit, by reducing development time and enhancing client satisfaction.”

Ed Hazeldean

Landmark Graphics Corporation

EditTable

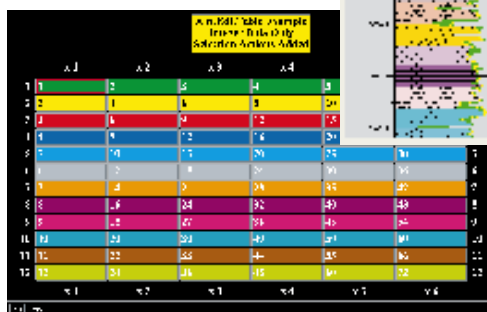
EditTable has been proven time and again to be the table display widget of choice. What's more, the speed advantage over other table widgets increases as the tables get larger.

EditTable – Fast, Comprehensive Table Display and Editing

EditTable™ is an OSF/Motif compliant widget that provides comprehensive table editing and display capabilities. Developers who need performance and flexibility choose EditTable as the ideal tool for displaying tables of data in their applications.

Display speed is where EditTable really scores over the competition – it's the preferred solution in response-critical applications. Data handling is very flexible, including the ability to handle native C datatypes and pointers. And when displaying data from a database, EditTable's dataless tables dramatically reduce memory requirements by eliminating the need for real memory allocation.

EditTable integrates tightly with ChartObject to provide comprehensive 2D and 3D charting functionality in one package, including com-



bination plots and multiple views. Dynamically linking tables and charts is simple. Users can visualize tables of data simply by selecting the data, and dragging and dropping it onto a chart!

Optimized for Performance!

EditTable's highly optimized re-draw algorithms mean that only what's changed get redrawn. The result is a table widget that can handle millions of cells and over 1500 updates per second.

Flexible Data Handling

EditTable is designed to support native C datatypes and pointers without forcing developers to convert data into strings.

EditTable can also share data with ChartObject via data objects, making visualizing tables simple. And data can automatically be converted into data objects, which can also be made into live links.

Comprehensive Layout and Appearance

Developers can control every aspect of table layout and appearance, allowing for exact customization. Font, color, size and other variables are all definable on

a cell-by-cell basis, and cells can be made to flash, contain images, or even other widgets. Plus, by using the graphic objects which come with EditTable, any kind of graphic overlay can be added.

Fully Programmable Behavior

Cells can be programmed to do a lot more than simply display values in EditTable. Data can be validated on input to check for type and bounds. Rows and columns can be frozen or made read-only, and even how a cell is entered can be controlled. Cells also can have individual callbacks to enable complete customization of their behavior.



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