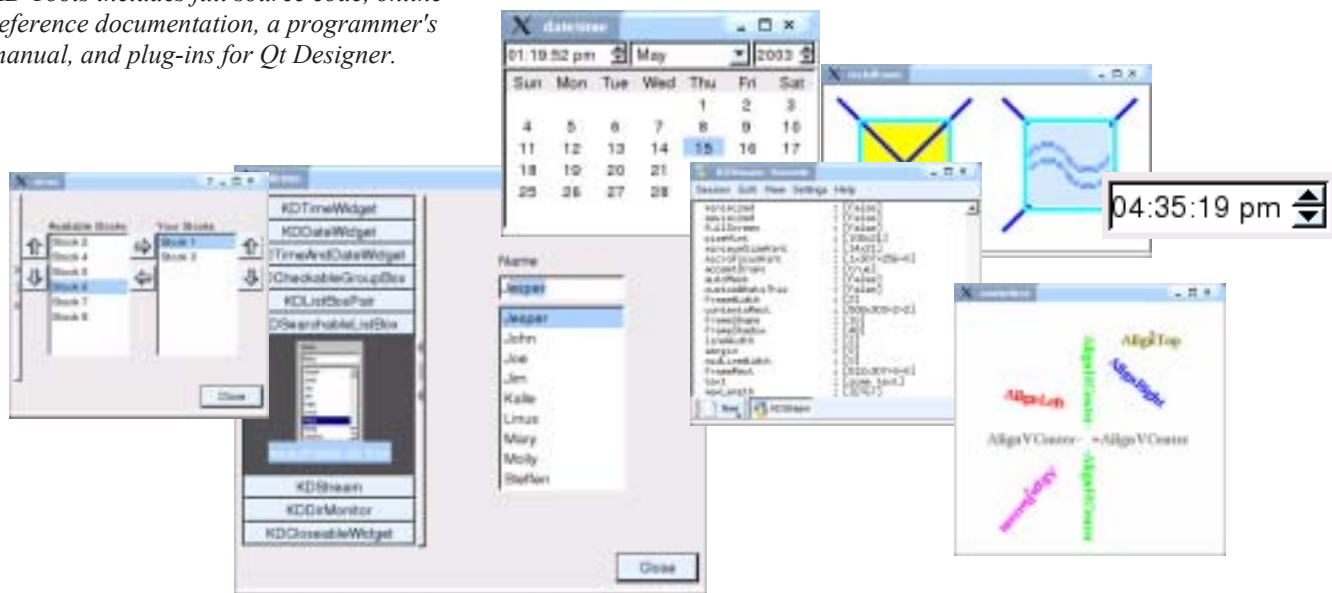


The Essential Add-On Library for Qt



KD Tools™ is an indispensable library of widgets, containers, drawing objects, and non-GUI classes that speed the creation of world class applications using the Qt® multiplatform framework from Trolltech.

Each object provided by KD Tools is designed to save days of development, making it easy to cost justify the use of KD Tools for your whole team. As with all ICS Qt products, the purchased version of KD Tools includes full source code, online reference documentation, a programmer's manual, and plug-ins for Qt Designer.



Widgets, Containers, and Drawing

- *ConfigWidget* - creates Microsoft Office style configuration dialogues. Simplifies application configuration by providing understandable groupings of options.
- *ListBoxPair* - move items between twin set of list boxes to select/deselect. Excellent for selecting a subset of data fields for import/export.
- *SearchableListBox* - as the user types, it searches for a matching item in a list. Makes it easy for end users to find the right item in a long list of possible selections.
- *DateWidget/DateTimeWidget* - a calendar widget to graphically select dates. Eliminates typing errors and provides a single way to select dates that is understandable worldwide.

- *ShowHideTableControl* - show/hide rows and columns in QTable by clicking on plus/minus buttons. Hard to implement, but expected by many end users, this container makes it easy!
- *CloseableWidget* - hides or closes a contained widget. Saves the developer time writing this common GUI paradigm.
- *MinimizeSplitter* - snap regions of a window open/closed with a single click. Provides end users with a fast control to optimize the layout of their workspace.
- *SizingControl* - hide/show/minimize a single widget with a single click. Eliminates GUI clutter that is not relevant to the task at hand.

- *Frame* - allows the drawing of highly configurable rectangular frames. Improves your options to communicate key information to application users.
- *DrawText* - adds the capability to easily draw rotated and circular text. Provides the ability to better utilize drawing areas and highlight important concepts.

Non-GUI Components

- *DirMonitor* - tracks new or changed files in a directory. Makes a difficult task effortless.
- *Stream* - a Qt equivalent to C++ cout that knows how to handle Qt objects. Eliminates the effort required to convert Qt objects.
- *Logger* - sends output from your program to one or more logging devices. Simplifies the implementation of a common application requirement.

Widgets, Containers, and Drawing Objects

Configuration Widget

KDConfigWidget is a Microsoft Office-style configuration widget that provides a group of icons (or labels or both) along the side of the widget and by clicking on one, you display the corresponding page of information. The opening and closing of groups is animated to maximize the end user experience. KD Tools also includes a dialog version of this widget-KDConfigDialog - that encapsulates a KDConfigWidget in a QDialog. It provides up to five buttons at the bottom, which are by default labeled *Default*, *Apply*, *Cancel*, *OK*, and *Help*.



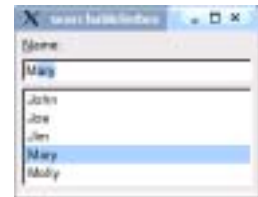
ListBox Pair

Many applications have a list of values from which a user might select and prioritize a subset. One common example is in the exporting of data. Often, the application needs to provide the end user with the list of possible fields to export, as well as allow the user to select and order fields for export. KDListBoxPair provides this commonly used widget. It includes a pair of listboxes and a set of buttons to control movement of data. Items can be moved between the list boxes and also reordered within one listbox.



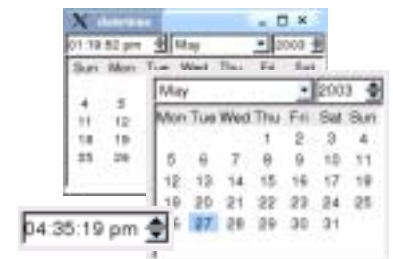
Searchable Listbox

This class combines a listbox with an editable field. The string typed into the editable field is continuously matched against the contents of the listbox. The first item matching the editable field will be highlighted. KDSearchableListBox is a very useful widget whenever there is a long list of items in the listbox and your users want to use the keyboard to speed selection.



Date Widget

This widget lets the user choose a date by selecting it on a calendar. In addition to being a much more user-friendly approach than using a spinbox, it also eliminates typing errors and provides a single way to select dates that is understandable worldwide. Companion time (KDTimeWidget) and a date/time combo widget (KDDateTimeWidget) are provided to enable complete selection of a specific point in time.



ShowHideTable Control

Lets the user hide or show any number of columns or rows in a QTable object and thus reduce the amount of displayed information to what is needed at any time. If enabled by the application developer, KDShowHideTableControl also allows end users to drag-and-drop buttons on the table to specify what will be hidden/shown when the button is clicked.



Minimize Splitter

This container widget allows the user to distribute the available space between its children. It is similar to QSplitter, but with an important addition: the horizontal or vertical splitter bar has a button that allows the user to “snap” the splitter bar top to the edge of the widget or back to the original position. Many application users prefer this incremental functionality provided by KDMINimizeSplitter because of the speed in which they can reconfigure the visible part of the application.



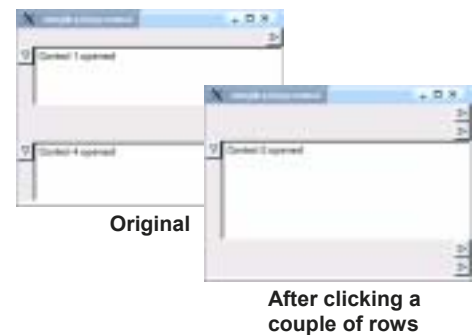
Closeable Widget

KDCloseableWidget is a container widget which offers a title and close button. Depending on the mode you choose, the contained widget can be either hidden or deleted when the user clicks the close button.



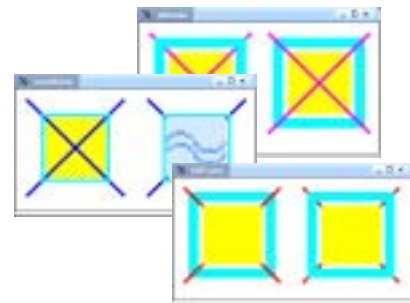
SampleSizing Control

Allows the user to hide and show one child widget exactly by means of a little arrow button. When the child widget is hidden, the KDSimpleSizingControl will not take much more space than what is needed for the button.



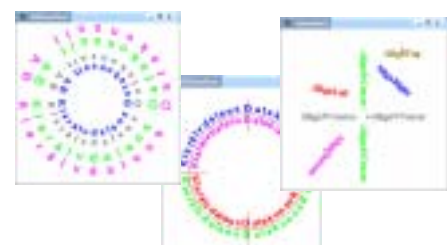
Frame

KDFrame lets the user draw highly configurable rectangular frames. The rectangle applies to the inner area of the frame, which is drawn around this area, touching it but not covering it. KDFrame allows the programmer to write and read the KDFrame object to/from an XML document. Single line frame borders and (scaled/stretched) background pictures are configurable. You may of course use a tiled background image too. A frame may consist of a border (optional) and/or a background. The frame can be painted using different combinations (border over, under, background over, etc.).



DrawText

KDDrawText lets the programmer draw rotated and circular text in a convenient way. Curved texts can be drawn inside or outside an invisible circular line, either viewed from the inside or the outside of the circle. KDDrawText can also draw straight texts rotated by a given angle. The color, font, alignment, etc. of the text drawn are, of course, configurable.



Non-GUI Components

Stream

KDStream offers streaming operators similar to the class cout in the C++ standard library. KDStream extends the concept of cout by providing built-in operators for the key Qt classes. The output goes to the same target as the output from qDebug(). The streaming operators in this class offer facilities for printing out values of a number of Qt classes. Can write to the following Qt objects to a stream: QList, QObject, QVariant, QKeySequence, QSizePolicy, QBrush, QRect, QSize, QPointValue, QPen, raw name of a QFont value, QTime, QDateTime, QDate, QCursor, QPalette, QColorGroup, QColor, QChar, QString, and QString value. Includes support for writing base C/C++ types (including pointers) to the stream. Can run a stream-processing function on the stream.



DirMonitor

This class can be used to monitor for new or changed files in a directory. KDDirMonitor can be configured to either use a polling implementation or on operating systems that support it (currently Linux and SGI IRIX, and MS-Windows for multi-threaded Qt), the kernel-based facilities to minimize system overhead. KDDirMonitor greatly simplifies a task that can be difficult to implement correctly across multiple operating systems.



Logger

This class allows applications to send logging output to a number of logging devices. Currently, four different levels of logging messages are supported (information, debugging, warning, error). Supported targets for logging include: standard error files, Qt signals, the system log, and any combination of these. You can also add your own logging device.



Free Evaluations

KD Tools is available directly through ICS and its worldwide network of distributors. To get an evaluation copy of KD Tools, send your request via email to info@ics.com, visit <http://www.ics.com>, or call 1.617.621.0060.

Qt Training and Professional Services

As Trolltech's **preferred training partner** for North America, ICS provides a full spectrum of training courses on the Qt framework.

ICS has an extensive professional services practice including:

- Motif-to-Qt Migration Assessment
- Application Performance Review
- Custom Widget Development
- User Interface and Custom Application Development

About ICS

Driven by the belief that the success of any software application depends on the intuitiveness of the user interface, Integrated Computer Solutions, Inc., The User Interface Company™, of Cambridge, MA, is the world's leading provider of advanced user-interface development tools and services for professional software engineers in the aerospace, petrochemical, transportation, military, communications, entertainment, scientific, and financial industries.

Long recognized as the platform of choice for visually developing mission-critical, high-performance Motif applications, ICS' BX series of GUI builders has recently been expanded to provide a complete line of tools that accelerate development of Java™. ICS is the largest independent supplier of add-on products to the Qt multi-platform framework developed by Trolltech.



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