

X-Designer Enterprise

X-Designer is the multi-award-winning Motif GUI builder capable of generating code for Motif 1, Motif 2, Java, Microsoft Windows and XML as well as C, C++ and UIL. Read on to find out why X-Designer is the first choice of many of the blue-chip Fortune 500 companies.

The Number One

X-Designer does all that you would expect of a Motif GUI builder and it does it very well. But what sets it apart from other products of its type? The answer lies in three main areas.



Maturity

X-Designer is a mature, robust and well-engineered product which has been in constant use in the software engineering industry for many years. It is regularly updated to keep it at the cutting edge of graphical user interface design. Add to this the fact that X-Designer support is often praised for its helpfulness and technical know-how and it is no surprise that 90% of the companies that buy X-Designer renew their support after the first free year.



Value Added

X-Designer includes a number of value added tools for testing, online help, UI grabbing, quick starting and pixmap editing. There are also tools for creating client and server applications and for creating internet-ready software. These tools are included in X-Designer - they are not add-ons or plug-ins, you do not need to buy any additional products or pay additional fees.



Multi-Platform

X-Designer can generate Java and XML from your design. It can also generate code for Microsoft Windows. Using the "Visaj bridge" option lets you save your design ready to be imported into IST's Visaj Java GUI builder.

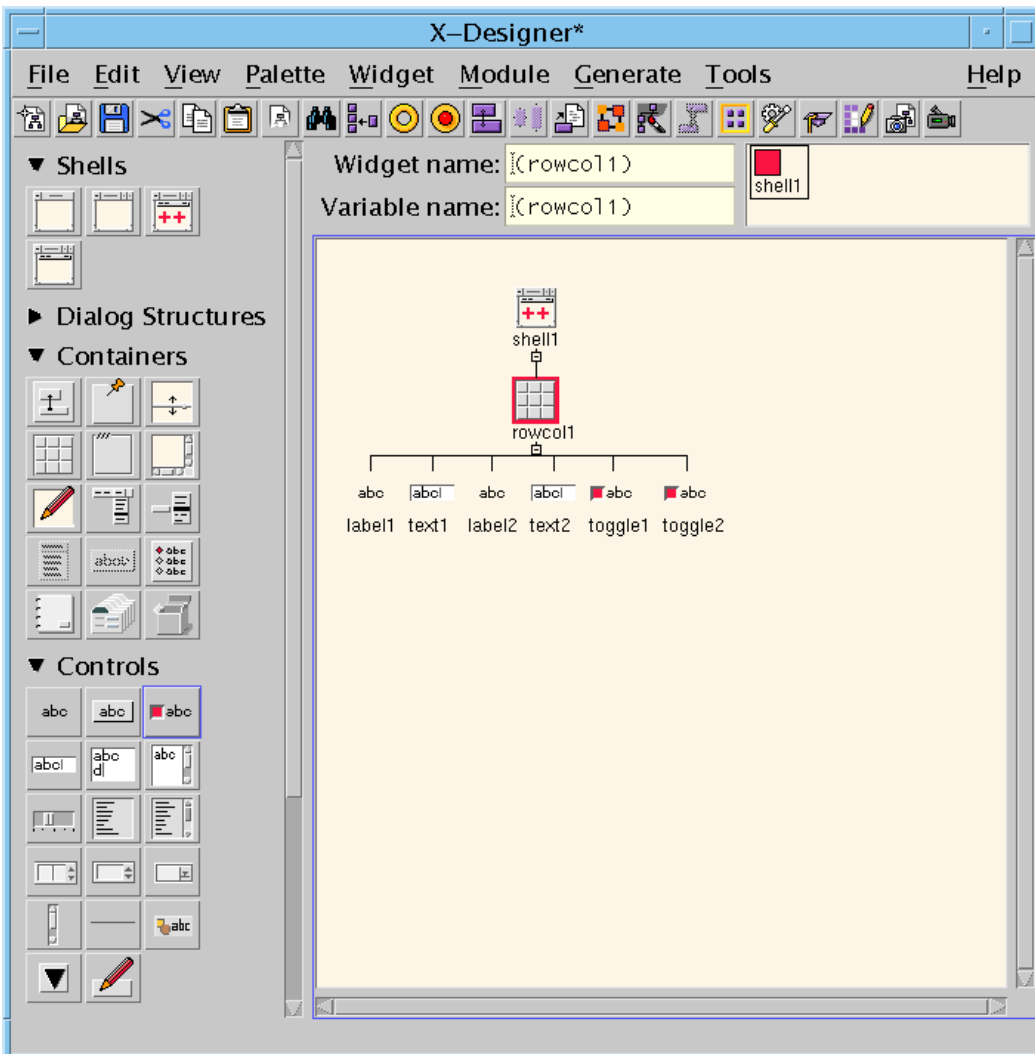


PRODUCT HIGHLIGHTS

FEATURE	BENEFIT
Ease of use	Fast design with quick learning curve - increases productivity
Mature, tried and tested product	Stable and robust - no nasty surprises

PRODUCT HIGHLIGHTS

FEATURE	BENEFIT
Excellent support	With regular upgrades and helpful support desk, you are never left all at sea.
Migration options	You can work on legacy applications or designs from extinct builders right away.
Cross platform capabilities	You are not limited now or in the future - generate code for Windows or Java code anytime.
High quality additional tools	Test, capture, design icons, create thin clients - all without extra applications or extra fees.
Full Motif 2 integration	First-class integration. No other builder offers this.



“The most advanced GUI building tool available” - Linux Journal

Rapid Development, Rapid Prototyping

X-Designer has an intuitive and friendly point-and-click interface so that user interface design is fast and simple. The Motif widgets appear on a palette on the left side of the main X-Designer window.

Live Design

Clicking over a widget adds it to your live design. There is a design area which presents a hierarchical view of the widgets in your user interface and a live dynamic display which presents the user interface exactly as it appears when you run the generated code. Giving the hierarchical view allows all widgets - including “invisible” containers like Forms and RowColumns - to be selectable. It also presents you with an overview of your design. The live dynamic display is unhindered, separate and an exact reflection of the completed application. Since you know exactly what it will look like and how it will behave, you are more likely to get it right first time.

Resource Panels

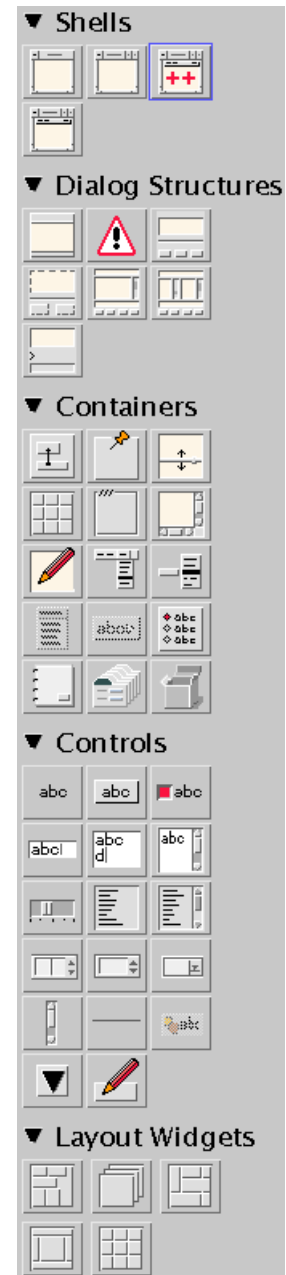
Resource panels with logically grouped resources and editors for pixmap, compound strings and fonts, allow you to flesh out your design simply and easily. Color and Font editors are included to help you. You can also create resource objects which, created once, can be referenced anywhere within your design. This helps keep your design consistent.

Links and Callbacks

X-Designer’s Links mechanism lets you add dynamic Show, Hide, Manage and Unmanage callbacks to widgets with actions, such as PushButtons. This lets you try out how your design reacts when, for example, a button is pressed to display a sub-dialog. A full callback editor allows you to add any callback function or method to your design. Stubs for these procedures are generated into a separate file ready for you to add your own code. If you prefer, you can add code online with X-Designer’s Edit Code facility.

Navigation Tools

Features such as graphical Search and Annotation and Fast Find give you an overview of the resources and callbacks you have set and allow you to find objects and resources across multiple hierarchies.



X-Designer can also be tailored to your specific use with a customizable toolbar and widget palette.

Advanced Layout Editor

The arrangement of a Form widget's children used to be one of the most daunting tasks facing a Motif programmer but X-Designer's Layout Editor has reduced it to a few minutes design work. With a simple click-and-drag interface and multi-level Undo button the developer can quickly experiment with different layouts and resize behaviors. For cross-platform applications, X-Designer automatically generates:

- C++ code to reproduce the sophisticated Motif-style resize behavior on Microsoft Windows.
- Java code using the Java container components - your choice of AWT or Swing.

X-DESIGNER RUNS ON ALL THESE PLATFORMS:

- SunOs 4
- Solaris 2, 7, 8
- Solaris x86
- HP-UX
- Linux
- SGI IRIX
- IBM Aix
- Digital UNIX
- SCO ODT 5
- UnixWare
- QNX
- LynxOS
- DEC VMS

Integrated Tools

X-Designer includes a number of tools to assist in the building, customizing and testing of all types of graphical application. As fully integrated tools, these are provided without compromising the quality of the core product and with no cumbersome installation or integration. They simply appear in the menus and on the toolbar. These tools are:

- XD/Help
- XD/Replay
- XD/Capture
- Pixmap Editor
- AppGuru

XD/Help

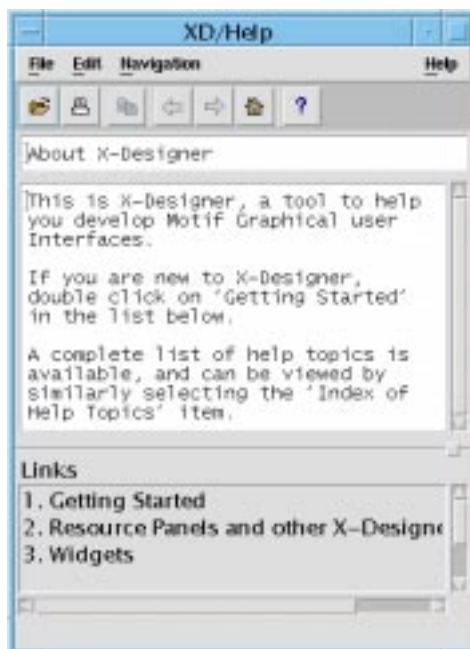
For each widget in your design you can provide a document name and a pointer to a position within that document containing help information to be displayed when either the Help or the Activate callback is called. Using this simple mechanism, you can have full context sensitive help within minutes. To display the help in the running application, you can choose between X-Designer’s own help browser, Netscape or FrameMaker. Full source files are provided to allow you to link the browser of your choice into your application.

Help callbacks are even mapped through to Microsoft Windows code.

Tools on the toolbar:



X-Designer’s own help browser:



XD/Replay

This GUI testing product allows you to create automated test scripts or rolling demonstrations for your application. Simply tell XD/Replay to record your use of the user interface and then play it back without human intervention.

XD/Replay's flexible scripting language allows automated test suites to be created for even the most complex applications and demanding QA requirements.

XD/Capture

Use this to grab the user interface of any running X11 application and put the result into X-Designer as a fully configurable design. Then customize and generate code from the design as normal, you can even generate code for Microsoft Windows or Java.

Pixmap Editor

X-Designer's pixmap editor provides a palette of drawing and painting tools along with a configurable color palette. It is available from the main toolbar and supports the dragging and dropping of any pixmap onto the canvas. It provides a more intuitive way of designing an icon and can bind the newly created pixmap to a shareable object.

AppGuru

AppGuru is a wizard which adds standard user interface components to your design. Select which elements you would like to include to jump-start your own design. They are immediately placed into your design hierarchy and live dynamic display.

Tool	Cost
XD/Help	FREE
AppGuru	FREE
XD/Replay	FREE
XD/Capture	FREE
Pixmap Editor	FREE

“If you need an interface fast, you need X-Designer” - Advanced Systems

Reusable Hierarchies and Structured Code

By allowing complete flexibility over the structure of the generated code X-Designer gives you a clear picture of the application you are designing, helps you to design clear, well-structured code and allows you to create reusable components which appear on your palette for you and others to use in any designs.

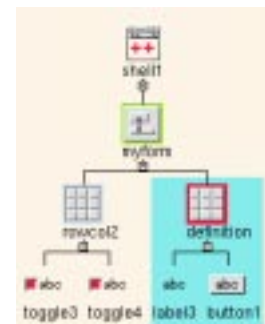
Structured Code

X-Designer gives you complete control over the structure of your code. The design hierarchy offers an overview of the widgets in your design and the ability to see, at a glance, the way the generated code will be structured. You can request visual feedback of the way the widgets have been structured by highlighting widgets or groups of widgets, using different colors for different structure types. You are free to alter any structures at any time. X-Designer always tells you when changing a structure compromises your design and fixes the problem wherever possible. Of course you are free to ignore such advice and multi-level undo gives you the option of backtracking at any time.

Reusable Hierarchies

Widget hierarchies can be saved as reusable definitions and loaded onto the widget palette. This reuse, central to X-Designer’s design philosophy, enables you to maintain consistency across or within applications and speeds up development. The exported definitions are fully configurable and extendable - use them, extend them, define and redefine. You can also make them accessible to other users and even create a suite of definitions to ensure consistency across designs. X-Designer gives strong visual feedback of definitions and instances of definitions in the design hierarchy.

Structure	Visual Feedback
Functions	Pink
Structures	Green
Classes	Light cyan
Children Only	Purple
Abstract Children	Magenta



Reusable definition in the design hierarchy

“A state-of-the-art development tool” - InfoWorld.

Smart Code and Internet Readiness

X-Designer’s Smart Code is a layer of extra code which gives your design toolkit independence and the ability to generate thin clients and servers from your design. Smart Code is not a separate language, it is a layer on top of your chosen language providing “getters” and “setters” for all the widgets in your design. It is simple to use - identify the widgets you will need to access in the design hierarchy and set a toggle in the Callbacks dialog. The rest is done by X-Designer. With no extra libraries, tools or fees, you can be sure that the user interface you are designing today can be Internet-ready tomorrow.

Thin-Client Partitioning

X-Designer helps you to create a clean division between a lightweight client controlling the user interface and a remote server providing data to the client. Whether you are starting from a new design or a large-scale, traditional Motif application, you can create this type of thin-client and server structure. Widgets are grouped together into portable data structures and the callbacks are enhanced so that they can either run remotely or communicate with a remote server. You can even test your new structure by telling the interface to “Go Live” at which time server callbacks are activated and the interface connects to the specified URL.

Internet Connectivity

Use X-Designer’s Internet Smart Code to design a thick client which is truly Internet-ready. As with thin-client partitioning, widgets are grouped into portable structures using toolkit-independent Smart Code and callbacks can be enhanced to communicate with a remote server. You can “Go Live” to test your client application and the HTTP code required for the server communication is generated when you generate the code for your thick client.

“X-Designer excels in its code generation” - SunWorld

Flexible Code Generation

X-Designer lets you generate:

- C and C++ with full ANSI support
- UIL
- Java. Fully portable, 100% Pure Java using your choice of AWT or Swing components
- Microsoft Windows MFC, allowing genuine cross-platform GUI development
- Complete Makefiles
- XML

**GENERATE ALL OF THESE
FROM ONE DESIGN:**

- C, C++
- 100% pure Java
- MFC for Windows
- UIL
- Makefiles
- XML

Quality Code

There are no proprietary libraries and all generated code is portable and clean. Guard comments are included to allow for incremental code generation and to protect any code you may wish to add. You can also add to generated Makefiles in order to build other aspects of your application.

Full Motif 2 Support

New! a first-class Motif 2 integration, giving developers access to all the Motif 2 widgets and resources. No other Motif GUI builder offers this level of Motif 2 support.



Cross-Platform Solutions

X-Designer offers two paths to cross-platform GUI design. Each of these generates code completely independent of the Motif toolkit and yet retaining the look and feel that you have specified for your design. You can choose to generate code for Microsoft Windows or you can generate pure Java. To help you create designs which are suitable for cross-platform code generation, X-Designer offers feedback on any items which are not compatible with your target toolkit. Wherever possible, X-Designer even offers to “fix” the problem for you.

Code for Microsoft Windows

When running in “Windows mode”, X-Designer gives you visual hints about how suitable your design is for translation into a Windows application. Elements of the interface which cannot be created in Windows are shown to you so that you can make any changes necessary before generating code. You can also ask X-Designer for “Windows compliance”, non-compliant areas are then listed for you. This applies to any existing design as well as new ones created especially for Windows.

When you generate Windows code, you are given:

- A choice of MFC (Microsoft Windows Code) version to be generated
- Native code - fully portable and non-proprietary
- High quality generated code similar to the MFC code a developer would write
- All configurable resources generated as Windows resources for easy adjustment on the Microsoft Windows platform

Java Code Generation

X-Designer’s 100% pure Java code generation gives you full portability. Create one user interface which can run anywhere. The Motif widgets on the widget palette are each mapped to the most suitable Java component. This can be your choice of AWT or Swing components. Java Layout components are given special treatment because there is no direct correspondence within the Motif widget set. A set of emulation widgets appear on the palette for the following layouts:

- GridBag
- Card
- Grid
- Flow

- Border

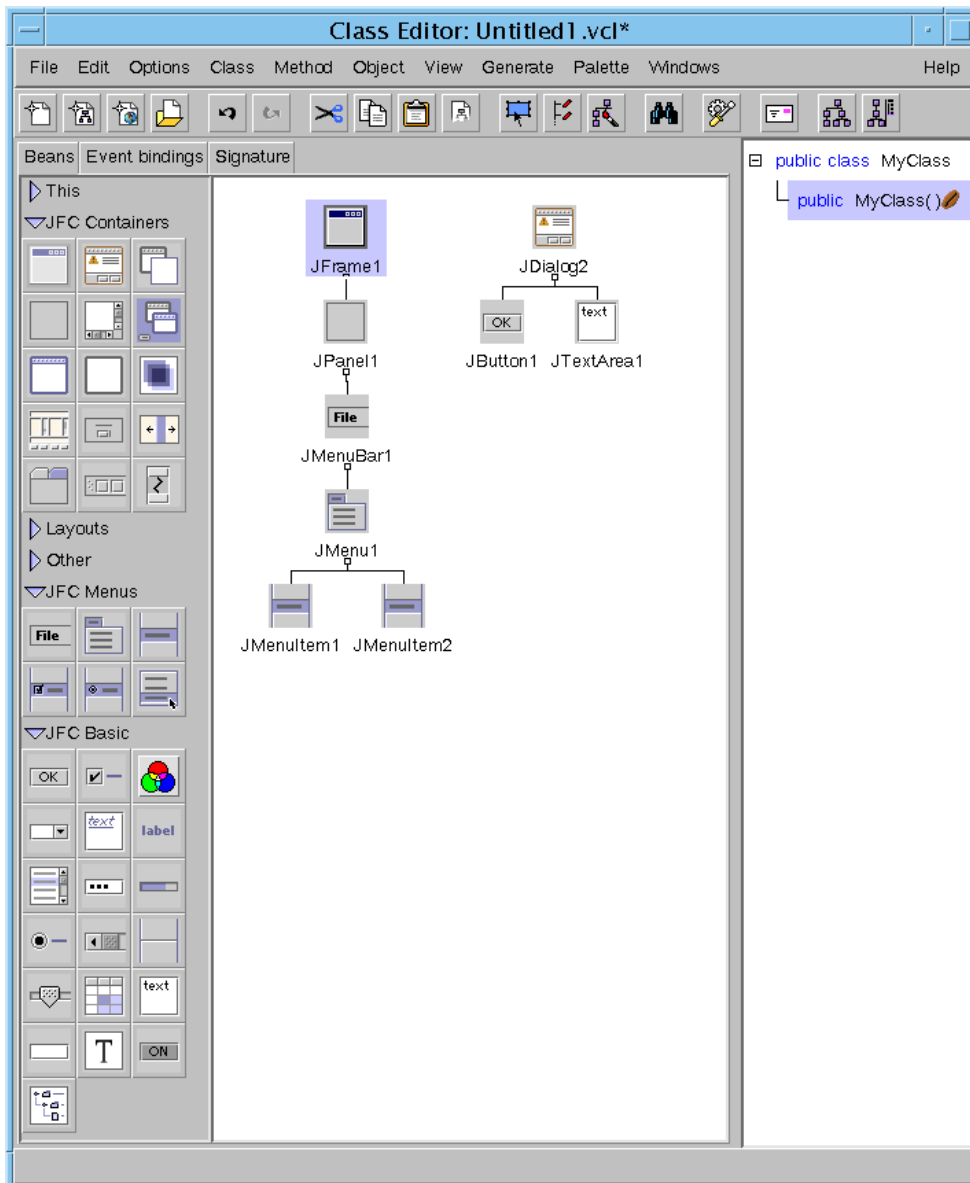
Using IST's unique combination of world-class Motif and Java capabilities, you can be sure of intelligent mappings and quality code generation.

Visaj Export

With X-Designer you can export your user interface in a format which is understood by the Java GUI builder Visaj. You are then free to enhance and maintain your user interface within Visaj as a Java application. Visaj is from the same stable as X-Designer, incorporating the same high-quality, rapid-use design philosophy. Try Visaj for free from:

http://www.ist-inc.com//DOWNLOADS/visaj_eval.html

Visaj main window:



“A splendid robust tool” - LinuxWorld

Migration Problems Solved



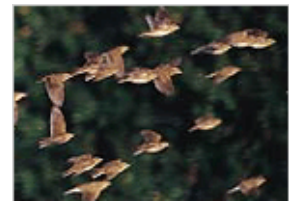
X-Designer solves the dual problem of migration encountered by many of its customers:

- Legacy applications. If you have user interfaces you wish to upgrade or maintain but you have no code, don't worry. X-Designer can “grab” that user interface and load it straight in.
- Applications created with other builders. If you have been using a different GUI builder, it is a simple task to change to using X-Designer. Load in your converted design and carry on where you left off.

Changing toolkit, changing operating system, changing builder. It's all in a day's work for X-Designer.

XD/Capture

This integrated tool allows you to *capture* a running X11 application so that it appears in X-Designer as if you had designed it yourself. You do not need to have the code for the application. Once in X-Designer you can take advantage of all the GUI designing tools available and generate code for Motif, Java or Microsoft Windows. XD/Capture is very simple to use. Pass the application name as a parameter to XD/Capture and press “Capture”.



X-Designer is used extensively on migration projects

Conversion Tools

X-Designer is supplied with a suite of tools which enables the save file of another builder to be converted to a format recognized by X-Designer. Once you have run the tool with the application, you are ready to edit, enhance the design and generate any flavor of code.

ADVANTAGES OF MIGRATING TO X-DESIGNER

Use the new features in Motif 2

Adapt the application to enable X-Designer to create a client/server architecture

Migrate to the latest versions of Java and Microsoft Windows

Make the application portable across multiple UNIX platforms in addition to Windows and Java

Test the application with X-Designer's built-in testing technology

X-Designer has been used on some large-scale migration projects, read about them at:

<http://www.ist-inc.com/services/migrate.html>

Third Party Widgets

As if all of this is not enough, X-Designer can be extended by integrating third party widgets. Once integrated, these widgets are fully accessible and customizable within X-Designer in exactly the same way as the standard Motif widgets.

Integration Kits

Integration kits are immediately available for over 650 widgets. These kits can be downloaded at any time from the X-Designer website:

<http://www.ist-inc.com/xd/userwidgets.html>

xdconfig

If you have your own widgets or a widget set which is not so widely used, you can integrate them by creating your own integration kit. *xdconfig* is another value-added tool which allows you to create your own kits. Easy to use, *xdconfig* lets you add your own widgets to X-Designer’s widget palette in a very short space of time.

INTEGRATION KITS AVAILABLE FOR:

- Athena, 3D and Plotter
- CDE widgets
- EPak widget set
- Free Widget Foundation
- GLG
- Histogram
- Ilog Views widgets
- INT widgets
- LOOX widgets
- MesaGL widgets
- Microline widgets
- OpenGL widgets
- SI widgets
- Sitraka’s XRT widgets
- Xbae widgets
- Xcg widgets
- Xew widgets
- Xfe/Mozilla
- Xg widgets
- Xirisw/Xgm
- XmHTML
- XmGraph
- Xmt widgets
- Xraw
- Xukc