Preface

This manual describes the XView attributes, callbacks, procedures, macros, data structures, as well as additional reference material. XView (*X* Window-System-based *V*isual/*I*ntegrated *E*nvironment for *W*orkstations) is a user-interface toolkit to support interactive, graphics-based applications running under the X Window System. This toolkit, developed by Sun Microsystems, Inc., is derived from earlier toolkits for the SunView windowing system. With over 2000 SunView applications in the workstation market, there are many programmers already familiar with SunView application programmer's interface (API).

XView is based upon Xlib, the lowest level of the X Window System available to the programmer. While developing XView user interfaces does not require Xlib programming experience, there are good reasons for learning more about Xlib, especially if your application renders graphics.

How to Use This Manual

The *XView Reference Manual* includes reference material for each of the XView attributes and procedures, information about XView resources, and data structures. Within each section, reference pages are organized alphabetically.

This book is designed to be used with the *XView Programming Manual*. The *XView Programming Manual* provides an explanation of XView, including tutorial material and numerous programming examples. To get the most out of the *XView Programming Manual*, you will need the exact arguments for the attributes and the calling sequence for the callbacks and procedures that this reference manual provides.

The following paragraphs briefly describe the contents of this book:

Section 1, *XView Package Summary*, provides an introduction to XView and provides a summary of each of the XView packages.

Section 2, *XView Attributes*, provides alphabetically arranged descriptions of all attributes, and the callback procedures that are supplied by the application programmer.

Section 3, *Procedures and Macros*, provides alphabetically arranged descriptions of all the XView procedures and macros.

Section 4, *Data Types*, lists the data types defined by XView.

Section 5, *Event Codes*, lists the event codes in numerical order by value.

Section 6, *Command-line Arguments and XView Resources*, lists the XView options that can be set using command-line options. This section also lists the resources that XView uses to define certain default values when an application is initialized.

Appendix A, *Selection Compatibility Attributes*, provides the attributes for the old selection mechanism. A new selection package has been added in XView Version 3. The new selection package supports the standard XView API. The old selection mechanism is still supported in XView Version 3.

Appendix B, *Selection Compatibility Procedures and Macros*, provides the procedures and macros for the old selection mechanism. A new selection package has been added in XView Version 3. The new selection package supports the standard XView API. The old selection mechanism is still supported in XView Version 3.

Appendix C, *Textsw Action Attributes*, provides the `ACTION_*` attributes that are available for use with a client-supplied notify procedure. These attributes are not standard attributes and cannot be used with `xv_create()`, `xv_get()`, or `xv_set()`.

Font Conventions Used in This Manual

Italic is used for:

- UNIX pathnames, filenames, program names, user command names, and options for user commands.
- New terms where they are introduced.

`Typewriter Font` is used for:

- Anything that would be typed verbatim into code, such as examples of source code and text on the screen.
- XView packages.*
- The contents of include files, such as structure types, structure members, symbols (defined constants and bit flags), and macros.
- XView and Xlib functions.
- Names of subroutines of the example programs.

`Italic Typewriter Font` is used for:

- Arguments to XView functions, since they could be typed in code as shown but are arbitrary.

*When referring to all members of a particular package, such as `CANVAS`, the notation `CANVAS_*` will be used. This should not be interpreted as a C-language pointer construct.

Helvetica Italics are used for:

- Titles of examples, figures, and tables.

Boldface is used for:

- Sections and headings.

Related Documents

The C Programming Language by B. W. Kernighan and D. M. Ritchie.

The following documents are included on the X11 source tape:

OPEN LOOK Graphical User Interface Functional Specification

OPEN LOOK Graphical User Interface Style Guide

The following books in the X Window System series from O'Reilly & Associates, Inc. are currently available:

Volume Zero — *X Protocol Reference Manual*

Volume One — *Xlib Programming Manual*

Volume Two — *Xlib Reference Manual*

Volume Three — *X Window System User's Guide*

Volume Four — *X Toolkit Intrinsics Programming Manual*

Volume Five — *X Toolkit Intrinsics Reference Manual*

Volume Six A — *Motif Programming Manual*

Volume Six B — *Motif Reference Manual*

Volume Seven — *XView Programming Manual*

Volume Eight — *X Administrator's Guide*

Quick Reference — *The X Window System in a Nutshell*

PHIGS Programming Manual

PHIGS Reference Manual

Pexlib Programming Manual

Pexlib Reference Manual

Requests for Comments

Please write to tell us about any flaws you find in this manual or how you think it could be improved, to help us provide you with the best documentation possible.

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– Thomas Van Raalte