Documentation Roadmap and Bibliography

This is a bibliography of works on the OPEN LOOK GUI, OpenWindows, and X11. Some sections of this bibliography are adapted from material in the Usenet newsgroup *comp.windows.open-look* Frequently Asked Questions (FAQ).

Other Books in the O'Reilly X Window System Guides series

The O'Reilly X Window System Guides provide a comprehensive set of documents for The X Window System. Other books in the series which may be of interest to end-users include:

X User Tools. ISBN 1-56592-019-8. Linda Mui, Valerie Quercia, and other authors (including the author of the present work). A new (1994) work that provides the most comprehensive coverage imaginable of all the programs for The X Window System, including standard X11 programs and free software. Includes one chapter on the OPEN LOOK GUI.

X Window System Administror's Guide (Volume 8), ISBN 0-937175-83-8, with CD: 1-56592-052-X). This volume discusses many aspects of setting up and running the X Window System, particularly in a multi-vendor environment.

X Window System in a Nutshell. (Nutshell series) Contains reference pages for many of the standard clients, along with programmer documentation on the system.

Most of the remaining books in the series are of interest to programmers developing and maintaining X Window System applications:

Volume Zero, *X Protocol Reference Manual*, discusses the network protocol used between the X server and its clients. Of interest mainly to advanced programmers.

Volumes and Two, *XLib Programmer's Manual* and *Xlib Reference Manual* discuss the use of XLib, the lower level of access.

Volumes Four and Five, X Toolkit Intrinsics Programmer's Manual. and *X Toolkit Intrinsics Reference Manual*, discuss the details of the "Xt" toolkit library.

Volume Seven, *XView Programming Manual*, discusses Sun's XView toolkit for building OPEN LOOK applications.

Volume Six, *Motif Programming Manual*, discusses in full detail the Motif toolkit.

PHIGS Programmer's Manual. (X series, no volume number) discusses in considerable detail the use of PHIGS graphics and PEX, the Phigs Extension to X, a graphics layer that can be used on top of X.

Power Programming with RPC. (Nutshell Handbook series) discusses developing networked applications using Sun's Remote Procedure Call library, including significant discussion of developing RPC applications that work within the constraints of X toolkits such as Sun's OPEN LOOK toolkit XView and Xt (including OLIT and Motif).

Books about OPEN LOOK

The official description and usage guidelines for the OPEN LOOK GUI are contained in the following two books:

- Sun Microsystems Inc., *OPEN LOOK Graphical User Interface Functional Specification*, Addison Wesley
- Sun Microsystems Inc., *OPEN LOOK Graphical User Interface Application Style Guidelines*, Addison Wesley, 1989

Writing Programs for OPEN LOOK

David Miller describes programming with OLIT in *An OPEN LOOK At Unix* (M&T press).

Nabajyoti Brkakati gives an excellent introduction to X and to OLIT programming, as well as setting up and using X and OpenWindows, in *Unix Desktop Guide to OPEN LOOK*, SAMS, 1992 ISBN 0-672-30023-0 You can get the examples from this book as *ftp://export.lcs.mit.edu/contrib/naba-olguide-examples.tar.Z*

Also about using OLIT, and Xt in particular: *The X Window System: Programming and Applications with Xt*, OPEN LOOK Edition, Doug Young and John Pew, Prentice Hall, 1992, ISBN 0-13-982992-X. There are also HP Widgets and Motif versions of this book. The example source code in this book can be obtained as f*tp://export.lcs.mit.edu, file contrib/young.pew.olit.Z.*

There is an introduction to XView in *Writing Applications For Sun Systems*, Vol 1, *A Guide for Macintosh(R) Programmers* (Sun Microsystems, pub. Addison Wesley)

A recent (the last?) XView programming guide is *Practical XView Programming,* by Kenneth W. Bibb and Larry Wake, John Wiley & Sons, Inc., 1993, ISBN 0-471-57460-0You can get the examples from this book as *ftp://export.lcs.mit.edu:/contrib/xvprac.tar.Z*

NeWS, PostScript and Display PostScript

To learn more about the NeWS and PostScript languages, see

The NeWS Book, Springer Verlag, 1989 (sadly, a little out of date)

Sun's documentation on NeWS, accompanying OpenWindows releases up to 3.2. OpenWindows versions up to version 3.2 use NeWS which is a level 1 PostScript implementation, with certain Level 2 features (such as Composite Fonts) to some degree. Versions 3.3 and higher feature Level 2 Display PostScript.

PostScript Language Reference Manual, Second Edition, Adobe Systems Inc., Addison Wesley, 1990. ISBN 0-201-18127-4 ("the Red Book"). Note: the first edition of this book, ISBN 0-201-10174-2) is sometimes still available, but it is substantially out of date.The first edition describes only Level 1 PostScript; the second edition also describes Level 2 PostScript.

PostScript Language Tutorial and Cookbook, Adobe Systems Inc., Addison Wesley, 1985, ISBN 0-201-10179-3. ("The blue book"). A fairly gentle introduction to PostScript.

P*rogramming the Display PostScript System with X*. Adobe Systems Inc., Addison Wesley, 1993, ISBN 0-201-62203-3. Contains several books in one: Programming Guide, Client Library Reference and Supplement for X, pswrap Reference, and DPS Toolkit for X. Comprehensive if nothing else.

Sun Documentation Roadmap

Sun also supplies a large amount of documentation with OpenWindows, although you may have to order it separately. Here are some that came with one version; note that the part numbers are subject to change. Most of these also appear in the Answerbook, and some are also available in bookstores.

800-6006-10 OpenWindows Version 3 Release Manual

800-6029-10 OpenWindows Version 3 Installation and Start-Up Guide

800-6231-10 OpenWindows Version 3 DeskSet Reference Guide

800-6618-10 OpenWindows Version 3 User's Guide

800-6323-10 Desktop Integration Guide

800-6027-10 Programmer's Guide

800-6005-10 OpenWindows Version 3 Reference Manual [the man pages]

800-6055-10 OLIT 3.0 Widget Set Reference Manual

800-6198-10 XView 3.0 Reference Manual: Converting SunView Applications

There are also some other sets of documentation, including the TypeScaler documentation from Sun's OpenFonts group, for example.

Books about ToolTalk

ToolTalk is Sun's inter-application communication protocol. It assumed extra significance when it was chosen as the standard inter-application protocol for the COSE vendors' Common DeskTop Environment (CDE). You can read about it in:

ToolTalk 1.x Setup and Administration Guide (SunSoft, 1991)

ToolTalk 1.x Programmer's Guide (SunSoft, 1991)

Sun's AnswerBook

Sun's AnswerBook CD/ROM (see Chapter 7, *The OpenWindows DeskSet Clients*) contains a lot of the above documentation, in PostScript form, and a viewer program to read it online or print parts of it on any PostScript printer. There are several generations of Answerbook software; the earlier ones of course use NeWS and the later ones use Display PostScript.

Frequently Asked Questions (FAQ) lists

This frequently-asked-questions (FAQ) list is a good source for up-to-date information. The FAQ on OPEN LOOK is posted every so often to the Usenet group *comp.windows.open-look* (among others). It can also be obtained by sending electronic mail to lee@sq.com to ask for it. Douglas N. Arnold (dna@math.psu.edu) keeps an up-to-date copy on *ftp.math.psu.edu* in the file ~ftp/pub/FAQ/open-look

There is a World Wide Web version, maintained by Andrew Violette, at *http://cs.indiana.edu/faq/OpenLook/front_page.html*

The FAQ on X itself is posted regularly to the Usenet group *comp.windows.x*.