

Open Source Software Grows Up

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Agenda

- Introduction
- On the Desktop
- In the Server Room
- *break*
- In the Library
- Social software
- Resources & Support

Basic Concepts

- Software starts its life as source code
 - Compiled into computer object code
 - Distributed to users
- Compiled, runnable code cannot be "uncompiled"
- Open source means that the source can be
 - Freely modified
 - Integrated into other code
 - Redistributed
- Free speech vs. free beer

Are There Any Restrictions?

- No copyright, but a copyleft (<http://en.wikipedia.org/wiki/Copyleft>)
- Prevents redistributors from adding additional restrictions
- Modified software must remain free
- Guarantees freedom to copy and change software
- Requires a specific set of distribution terms (not EULA)
 - GNU General Public License (<http://www.gnu.org/copyleft/gpl.html>)
 - Others (http://en.wikipedia.org/wiki/Open-source_license)

Why is OSS Important to Libraries?

- Libraries believe that information should be freely accessible to everyone
- MARC, OAI, z39.50, OpenURL, NCIP
- Preservation relies on open standards
 - Digital objects need to be in an open format
 - Source code needed for access in the future
- Privacy is important to libraries and patrons
- Libraries have long benefited from free stuff
- Libraries should provide OSS to patrons

On the Desktop - Staff

- Productivity
 - Office suite: OpenOffice (<http://www.openoffice.org>)
 - Publishing: Scribus (<http://www.scribus.net>), PDFCreator (<http://sourceforge.net/projects/pdfcreator/>)
 - Web design: NVU (<http://www.nvu.com>)
- Graphics
 - Editor: The GIMP (<http://www.gimp.org>)
- Internet
 - Browser: Firefox (<http://www.mozilla.org/products/firefox/central.html>)
 - Email: Thunderbird (<http://www.mozilla.org/products/thunderbird/>)
- AntiVirus
 - ClamWin (<http://www.clamwin.com>)

On the Desktop - Public

- Offer patrons Firefox & OpenOffice
 - Will not interfere with IE or MS Office
- Video & audio
 - VLC (<http://www.videolan.org/vlc/>)
- Kids
 - Tux Paint (<http://www.newbreedsoftware.com/tuxpaint/lists/>)
 - Edubuntu (<http://www.edubuntu.org/FAQ>) bootable CD
- Thin client solutions
 - Linux Terminal Server Project (<http://www.ltsp.org>)
 - Useful DiscoverStation (<http://useful.com/products/library-ds>)
 - OpenKiosk (<http://openkiosk.sourceforge.net>) (Linux and Windows clients)

In the Server Room

- LAMP: Linux, Apache, MySQL, PHP/Python
 - Windows instead of Linux: XAMPP (<http://www.apachefriends.org/en/xampp.html>)
- File server
 - Samba (<http://us3.samba.org/samba/>) (replaces Windows file servers)
- Email
 - SquirrelMail (<http://www.squirrelmail.org>) (PHP), Spamassassin (<http://spamassassin.apache.org>)
- Calendar: Webcalendar (<http://www.k5n.us/webcalendar.php>) (PHP/MySQL)
- Room booking: MRBS (<http://mrbs.sourceforge.net>) (PHP/MySQL)
- Firewall: Smoothwall (<http://www.smoothwall.org>)

For Libraries - ILS

- Koha (<http://www.koha.org>)
 - For small or medium libraries
 - 300 installations globally
 - Nelsonville (<http://www.athenscounty.lib.oh.us/koha.html>), Stow-Munroe Falls (<http://opac.smfpl.org/>), U of Buffalo (<http://koha.sis.buffalo.edu/~koha/>)
- Evergreen (<http://www.open-ils.org>)
 - Developed by Georgia PINES (<http://gapines.org>) consortium
 - Support for a large library consortium
 - Poor documentation, difficult to install
 - No acquisitions or serials (yet)
- Commercial support: Liblime (<http://www.liblime.com>), Equinox (<http://esilibrary.com>)
- State Library of Ohio (<http://statelibraryohioils.blogspot.com>) exploring options

For Libraries - Digital Collections

- Greenstone (<http://www.greenstone.org>)
 - Creates searchable web-based collections
 - Extracts full text and metadata from objects
 - PDF, Word, Excel, PPT, HTML, Email, Images, MP3
 - Example: Greater Cincinnati Memory Project (<http://www.CincinnatiMemory.org>)
 - Includes a GUI for building/publishing
- Fedora (<http://www.fedora.info>)
 - Digital repository system
- Dspace (<http://www.dspace.org>)
 - "Captures, stores, indexes, preserves, and distributes digital research material"

For Libraries - Wireless

- PublicIP (<http://www.publicip.net>)
- Open and Closed Modes
 - Individual or Anonymous logins
 - Time limits
 - Time / download limits
 - Open / closed times
- Uses the DansGuardian content filter
- Premium Service available (<http://www.publicip.com>)
- Turn your \$60 router into a \$600 router (<http://lifelifehacker.com/software/router/hack-attack-turn-your-60-router-into-a-600-router-178132.php>)
 - Open source replacement for firmware

More for Libraries

- Web content filtering
 - DansGuardian (<http://dansguardian.org>) (keyword), squidGuard (<http://www.squidguard.org>) (URL)
- MARC Editing: MarcEdit (<http://oregonstate.edu/~reaset/marcedit/html/index.php>)
- Internet Document Delivery: Prospero (<http://bones.med.ohio-state.edu/prospéro/>)
- PC management: Internet Station Manager (<http://www.grpl.org/ism/>)
- Firefox extensions: LibX (<http://www.libx.org>), Zotero (<http://www.zotero.org/>)
- Amazon-like OPAC: SOPAC (<http://www.blyberg.net/2007/01/21/aadlorg-goes-social/>)
- More at oss4lib (<http://www.oss4lib.org>)

Social Software

- Blogs & CMS
 - WordPress (<http://www.wordpress.org>), Drupal (<http://www.drupal.org>), Joomla (<http://www.joomla.org>), Plone (<http://www.plone.org>), Moodle (<http://www.moodle.org>)
- Podcasting
 - Audacity (<http://audacity.sourceforge.net>), Juice (<http://juicereceiver.sourceforge.net>)
- Wikis
 - MediaWiki (<http://www.mediawiki.org>), PHPWiki (<http://phpwiki.sourceforge.net>), PmWiki (<http://www.pmwiki.org>)
- RSS
 - RSSOwl (<http://www.rssowl.org/>), Thunderbird (<http://www.mozilla.com/en-US/thunderbird/>)
- Instant Messaging
 - Gaim/Pidgin (<http://pidgin.im/pidgin/home/>), Miranda (<http://www.miranda-im.org/>)

Resources & Support

- Guidelines for Evaluating OSS (<http://www.libraryjournal.com/article/CA304084.html#guidelines>)
- WebJunction (<http://webjunction.org/do/DisplayContent?id=1216>)
- OSS and Libraries Bibliography (http://www.vuw.ac.nz/staff/brenda_chawner/biblio.html)
- Open Source Software for Libraries: A Workshop (<http://www.infomotions.com/musings/ossnlibraries-workshop/>)
- code4lib (<http://www.code4lib.org>)
- Sources for open source software
 - sourceforge (<http://sourceforge.net>)
 - freshmeat (<http://freshmeat.net>)