

# Open Source Library Automation Systems

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# Definitions: Open Source Software



- Open Source Software (OSS)
- Open Source doesn't just mean access to the source code. That is an important part of it, but not all of it.

# Definitions: Free Software



- Free Software “is software that comes with permission for anyone to use, copy, and distribute, either verbatim or with modifications, either gratis or for a fee. In particular, this means that source code must be available.”

# Definitions: Open Source Software



- Linux
- Apache
- MySQL
- Perl /PHP
- LAMP
- Library Automation System / Library Management System (LMS)

# Why Do People Release Their LMS as Open Source Software?

- Don't want to be in the business of marketing/selling/supporting a LMS
- “Future proofed” against company going out of business
- The more librarians and programmers around that work on/with your LMS, the better it becomes
- “The justification to that question is quite simple: Open Source has vision, both to project itself and to the customer”

# Koha

- <http://www.koha.org>
- First Open Source LMS
- Developed originally by the Horowhenua Library Trust and Katipo Communications
- Currently has developers around the world
- Translations made (or being made) into Polish, French, Chinese, and more.
- Koha is used around the world
- Under active development (ver. 2.0 just released)





Search Join Home

KOHA

[Log In](#) to Koha

Keywords

**OR :**

Subject

**OR one or more from :**

Title

Author

Illustrator

Class

Barcode

Normal  Exact

Note that if you enter a value in Keyword and a value somewhere else, only keyword will be used

[Catalogue Search](#) || [Home](#)

Logged in as: kohaadmin [[Log Out](#)]

**MARC biblio : 2**

- [0](#)
- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)

Add biblio  
[z3950 search](#)

**100**  - MAIN ENTRY--PERSONAL NAME [±](#)

a	Personal name	Raymond, Eric S.
b	Numeration	
c	Titles and other words associated with a name	
d	Dates associated with a name	
g	Miscellaneous information	

**245**  - TITLE STATEMENT [±](#)

a	Title	The art of UNIX programming /
b	Remainder of title	
c	Statement of responsibility, etc	

**260**  - PUBLICATION, DISTRIBUTION, ETC. (IMPRINT) [±](#)

c	Date of publication, distribution, etc	2004.
---	--	-------



# Edward Corrado

## MEMBERSHIP RECORD

Mr Corrado (Edward, EDC)

Card Number: V10000019  
 Postal Address: 2083 Lawrenceville Road, Lawrenceville NJ 08648  
 Home Address: ,  
 Phone home:  
 Phone daytime:  
 Fax:  
 E-mail:  
 Text messaging:

Membership Number: 2  
 Membership Category:  
 Fee:\$30/year, Paid  
 Joined: 27/12/2003, Expires: 27/12/2004  
 Joining Branch: LUG /IP

DoB: 09/11/1971  
 Sex: M

Alternative Contact: Rider University  
 Phone: 609-895-5494  
 Relationship: workplace  
 Notes:

Guarantees:

General Notes:

## FINES & CHARGES

Total due	0.15
-----------	------

View Account

Pay Fines

## ITEMS CURRENTLY ON ISSUE

Title	Due	Itemtype	Charge	Renew
The art of UNIX programming / <a href="#">9780131429017</a>	02/05/2004		0	Y N

Renew Items

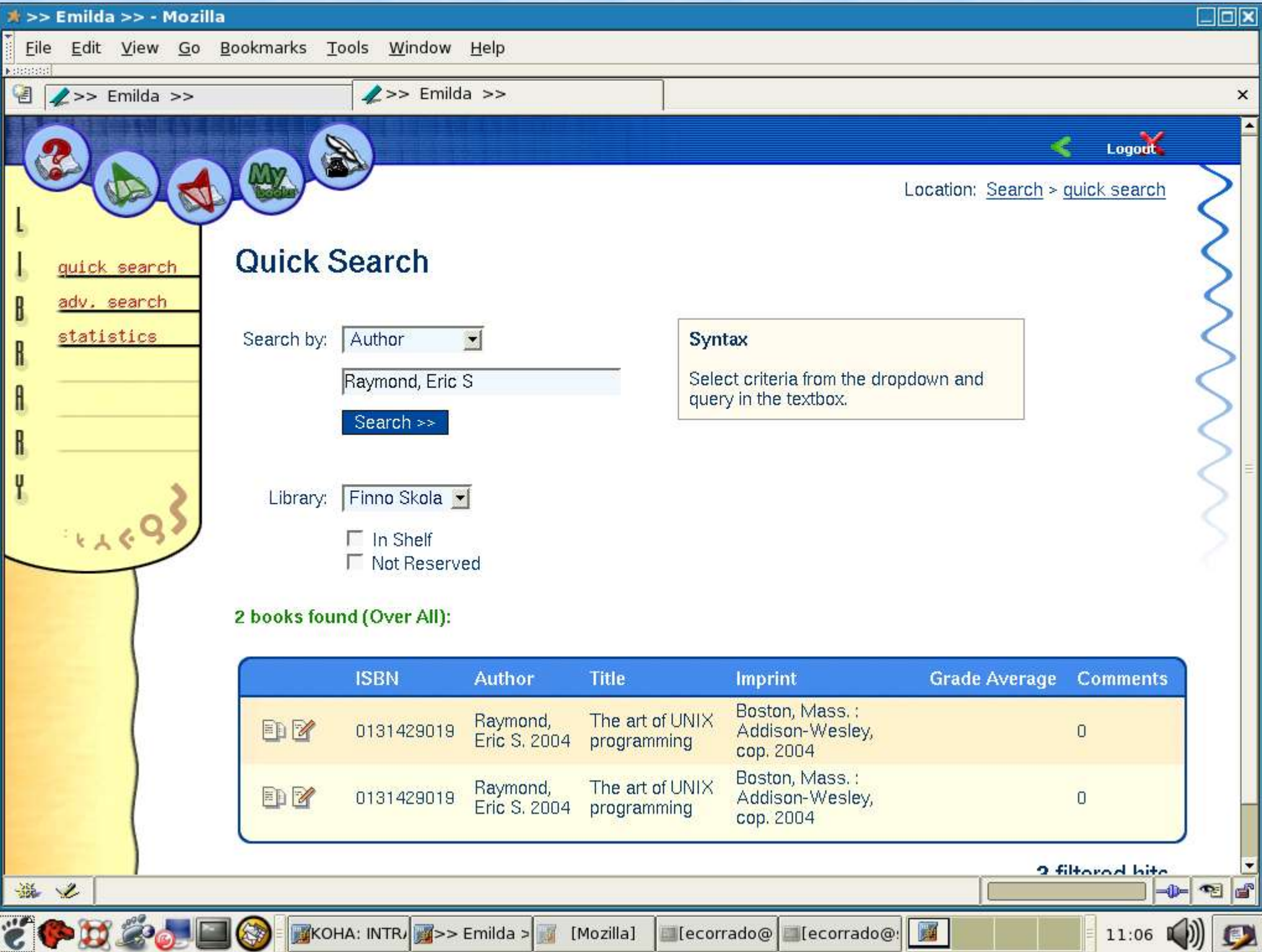
## ITEMS REQUESTED

Title	Requested	Remove
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Reading Record

# Emilda

- <http://www.emilda.org>
- Developed in Finland by Realnode
- Relative “new comer” in the market
- Uses mainly PHP, MySQL, XML, Zebra, Yaz, Perl
- Released under GNU GPL
- 100% MARC compatible using Zebra
- Customizable template based layout



L  
I  
B  
R  
A  
R  
Y

[quick search](#)

[adv. search](#)

[statistics](#)

## Quick Search

Search by: Author

**Syntax**

Select criteria from the dropdown and query in the textbox.

Library: Finno Skola

In Shelf

Not Reserved

### 2 books found (Over All):

	ISBN	Author	Title	Imprint	Grade Average	Comments
	0131429019	Raymond, Eric S. 2004	The art of UNIX programming	Boston, Mass. : Addison-Wesley, cop. 2004		0
	0131429019	Raymond, Eric S. 2004	The art of UNIX programming	Boston, Mass. : Addison-Wesley, cop. 2004		0

2 filtered hits

Emilda >> - Mozilla

File Edit View Go Bookmarks Tools Window Help

>> Emilda >> >> Emilda >>

quick search  
adv. search  
statistics

## Extended Book Info

**The art of UNIX programming**

ISBN	0131429019
ISSN	-
Author	Raymond, Eric S. 2
Title	The art of UNIX pro
Imprint	Boston, Mass. : Ad
General Note	-

ID	Location	C
0000000498P	Finno Skola	-

<< Back Show MARC

Mozilla

```

001 0000000426
003 REALNODE
005 20040411180932.0
008 030709s2004 mau||| |001 ||eng c
010 $a 2003058264
020 $a 0131429019
035 $a (DLC) 2003058264
040 $a DLC $c DLC $d Z $d Htut
042 $a pcc
050 4 $5 Z $a QA 74 UNIX
050 00 $a QA76.76.063 $b R395 2003
082 00 $a 005.4/32 $2 22
084 $a Pubdbz Unix $2 kssb/7
084 $a Pubb $2 kssb/7
100 1 $a Raymond, Eric S. $f 2004
245 14 $a The art of UNIX programming / $c Eric Steven Raymond
260 $a Boston, Mass. : $b Addison-Wesley, $c cop. 2004
263 $a 0309
300 $a xxxii, 525 s. : $b ill.
440 0 $a Addison-Wesley professional computing series, $x 99-1551768-8
541 $5 Z $a DAW $h GBP 24.79
630 00 $a UNIX (Computer file)
650 0 $a Operating systems (Computers)
650 7 $a UNIX $2 sao
650 7 $a Operativsystem $2 sao
650 7 $a Programming $2 sao
841 $5 Htut $a x $b 0310134u 8 1001uu 0901128 $e 4
841 $5 Z $a x $b 0309174u 8 1001uu 0901128 $e 1
841 $5 Htuu $a x $b 0401274u 8 1001uu 0901128 $e 4
841 $5 T $a x $b 0401084u 8 1001uu 0901128 $e 4
841 $5 Li $a x $b 031215|| |||||001||eng|000000 $e 1
852 8 $5 Li $b Li $c TB $h pub
852 $5 T $b T $h 005.4 $j Raymond 2004
852 $5 Htuu $b Htuu $h Pubb $l Raymond
852 8 $5 Z $b Z $h qad
852 $5 Htut $b Htut $h Pubb $l Raymond
950 $a Objektorienterad programmering $w h $u Programming
950 $a Datorprogrammering $u Programming
950 $a Dataprogrammering $u Programming

```

LIBRARY

- management
- manage books
- manage users
- location

## Add Book

**Edit book info**

**ISBN Information:**

ISBN:

Terms Of Availability:

**Author Information:**

Personal Name:

Titles Associated:

Dates Associated:

Date Of Work:

Language:

**Title Information:**

Title:

Remainder Of Title:

Statement Of Responsibility:

Medium:

Form:

Edition:

**Add Book into library database**

Specify all data required in order to help future queries. Fields marked with an asterisk (\*) are required.

Copies:

# PhpMyLibrary

- <http://phpmylibrary.sourceforge.net/>
- Developed in the Philippines
- “Strictly follows US MARC standard”
- Test installs with up to 500,000 items

PhpMyLibrary Online Library Automation Software

- NEWS
- PORTFOLIO
- INFO
- FORUM
- MESSAGES
- CONTACT
- CUSTOMISE
- LINK

Login:  Password:   Search

**Main Menu**

- Home
- Login

---

**Library Hours**

Monday to Friday  
8:00 AM to 5:00 PM

---

**Contact**

Sample Library  
3/f Sample County MA  
Tel no. 1234567890

---

**Related Links**

- About Us
- Announcement
- Our Library
- PhpMyLibrary

**Search Query**

Any
  Author
  Title
  Subject
  Publisher
  Notes

Searchfor:

Media Type:  Logical:  Limit:

Type %%% to browse all records!



Login:  Password:  Login  Search  Go

**Main Menu**

- Home
- Login

**Library Hours**

Monday to Friday  
8:00 AM to 5:00 PM

**Contact**

Sample Library  
3/f Sample County MA  
Tel no. 1234567890

**Related Links**

- About Us
- Announcement
- Our Library
- PhpMyLibrary

**Search Query**

Any
  Author
  Title
  Subject
  Publisher
  Notes

Searchfor:  Search  Clear Search

Media Type:  Logical:  Limit:

Access. No.	Location	Status	Type	Date Borrowed	Date Due	Borrow
POL-44079500	CSWCD	Available	Circulation	---	---	

**MARC View**

First Page Prev Next Last Page Bottom Labeled View Back To Brief Showing Page 2 Of 3.

001	04841994
003	RO-CeITA
005	20021018102832.7
008	021018s 001 0 eng d
020	\$a 0-8280-0216-9
040	\$a RO-CeITA\$c RO-CeITA
050	00\$a BV4810.T82 eng 1983
100	1 \$a Tucker, James A.
245	10\$a Glimpses of God's Love / \$c James A.Tucker and Priscilla Tucker, editor Raymond H.Woolsey
260	\$a Washington: \$b Review and Herald Publishing Association, \$c 1983
300	\$a 377 p. : \$c 0 cm
500	\$a (preluatè din catalogul vechi) 08022000.
700	1 \$a Tucker, Priscilla

First Page Prev Next Last Page Top Labeled View Back To Brief Showing Page 2 Of 3.

# phpmybibli

- <http://www.pizz.net/>
- Developed in France
- Uses MySQL and PHP
- Functions and features include:
  - UNIMARC support
  - Circulation
  - Web OPAC
  - Simplified Administration and setup
- Authorities Management and Periodicals support

Items

- ▶ [current loans](#)
- ▶ [late items](#)
- ▶ [loans by group](#)
- ▶ [list of third party items](#)

Borrowers : Current borrowers

Give the first letters of the name :

Ok

Borrowers

- ▶ [current borrowers](#)

Statistics

- ▶ [sql queries](#)

Barcodes

- ▶ [free creation](#)

Borrowers found matching ""

1	Chewbacca "Chewie"	Millenium Faucon	StarwarsTown	1900
5	Kenobi Obiwan		StarWarsTown	0
4	Leia Princess		StarWarsTown	0
8	MICHELIN Gautier	35 rue Cornet	Amiens	1977

page 1/2 ▶

circulation

Modify borrower

- loan items
- return items
- groups of borrowers
- add borrower
- show item

<b>Last name</b>		<b>First name</b>	
<input type="text" value="Leia"/>		<input type="text" value="Princess"/>	
<b>Address (line 1)</b>			
<input type="text"/>			
<b>Address (line 2)</b>			
<input type="text"/>			
<b>Zip code</b>		<b>City</b>	
<input type="text" value="01000"/>		<input type="text" value="StarWarsTown"/>	
<b>Telephone</b>	<b>Telephone</b>	<b>e-mail</b>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Profession</b>	<b>Gender</b>	<b>Year of birth</b>	
<input type="text"/>	<input type="text" value="masculine"/>	<input type="text" value="0"/>	
<b>number</b>	<b>category</b>	<b>statistical code</b>	
<input type="text" value="4"/>	<input type="text"/>	<input type="text"/>	
<b>Joining : Begin :</b> <input type="text" value="01/21/2004"/> <b>End</b> <input type="text" value="01/20/2005"/>			
<b>language</b>		<b>Change password</b>	
<input type="text" value="english (en_us)"/>		<input type="text"/>	



Titles

- search
- add record
- latest titles

Periodicals

- search
- new periodical

modify record

printed text

title

Title

Sciences de l'information et de la communication

Title under a different author

Parallel title

Complementary title

Part of (series)

Part no.

- Authors
- Address, publishers, collection
- ISBN, EAN, commercial no.
- Collation
- Notes
- Indexing
- language of publication
- links (electronic resources)

Cancel Save Replace by... Delete

# OpenBiblio

- <http://obiblio.sourceforge.net/>
- OpenBiblio is an easy to use, open source, automated library system
- Requires PHP, mySQL, and a web server (Apache)
- Runs on Windows and Linux
- OPAC, circulation, cataloging, reporting, and staff administration functionality

Logout

Member Search

- > Member Info
- [Edit Info](#)
- [Delete](#)
- [Account](#)
- [Checkout History](#)
- [New Member](#)
- [Check In](#)
- [Help](#)

Checkout Stats:

Member Information:		Material	Count	Limit
Name:	Frodo, Baggins	audio tapes	0	10
Address:	Hole 2, 1st Street The Shire, IA 12345	book	0	20
Card Number:	103	cd audio	0	10
Classification:	adult	cd computer	0	5
Phone:	H:111-222-3333	equipment	0	3
Email Address:	me@mydomain.name	magazines	0	10
School Grade:	0	maps	0	5
School Teacher:		video/dvd	0	5

Bibliography Check Out:

Barcode Number:

Bibliographies Currently Checked Out: [print checkouts](#)

Checked Out	Material	Barcode	Title	Author	Due Back	Days Late
-------------	----------	---------	-------	--------	----------	-----------

No bibliographies are currently checked out.

Place Hold:

Barcode Number:

Bibliographies Currently On Hold:

Function	Placed On Hold	Material	Barcode	Title	Author	Status	Due Back
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No bibliographies are currently on hold.

**Your Library Name**

today's date: 04.11.2004  
 library hours: M-F 8am-9pm, Sa noon-5pm, Su 1-5pm  
 library phone: 111-222-3333

Logout

- [Bibliography Search](#)
- [Biblio Info](#)
  - » [Edit-Basic](#)
  - [Edit-MARC](#)
  - [New Copy](#)
  - [Hold Requests](#)
  - [Delete](#)
- [New Bibliography](#)
- [Help](#)

Fields marked with \* are required.

Edit Bibliography:	
* Type of Material:	book
* Collection:	Adult Nonfiction
* Call Number:	005.4 Gil
Show in OPAC:	<input checked="" type="checkbox"/>
USMarc Fields:	
* Title:	UNIX in a Nutshell
Remainder of title:	A Desktop Quick Reference for System V & S
Statement of responsibility, etc.:	Daniel Gilly and the staff of O'Reilly & Associat
* Personal name:	Gilly,Daniel
Topical term or geographic name as entry element:	Unix
Topical term or geographic name as entry element 2:	Computers
Topical term or geographic name as entry element 3:	Operating Systems
Topical term or geographic name as entry element 4:	
Topical term or geographic name as entry element 5:	
Edition statement:	
International Standard Book Number:	

# Avanti MicroLCS

- <http://www.avantibrarysystems.com>
- Developed by Peter Schlumpf (starting in 1998)
- Release 1.0 just around the corner (coding done, just working on packaging and documentation)
- 100% pure Java
- Goal is a system that requires minimal expertise to install and manage

# Avanti has a Unique Vision/Design

- Keep small, simple, “clean”
- Avoid unnecessary complexity
- Implementation neutral
- Platform independent
- Easy to install and use
- Small footprint
- Incorporate standards such as MARC and Z39.50 as modules and interfaces but do not allow them to be part of the underlying design - “standards should not become obstacles to innovation...”

There are 5 matching items:

- Machine Beauty / Gelernter, David /
- Silicon snake oil / Stoll, Clifford /
- The humane interface: new directions for designing interactive systems / Raskin, Jef /
- Java in a nutshell / Flanagan, David /
- The mathematica book / Wolfram, Stephen /

subject computer

Find

Edit

Bookmark:

Delete

### Title

Title: The mathematica book

Author: Wolfram, Stephen

Bib Number: 00010

Publisher: Wolfram Media

Pub Date: 1999

ISBN: 1-57955-044-5

Subject: Mathematica (computer file). Mathematics -- data processing.

### Holdings

1. Copy: 001 Location: als

subject computer

Find

READY

New

Status

Bookmarks

Notes

Help

Quit

Title

Title: The mathematica book

Author: Wolfram, Stephen

Additional\_Authors:

Call Number:

Bib Number: 00010

Publisher: Wolfram Media

Pub Date: 1999

ISBN: 1-57955-044-5

ISSN:

Subject: Mathematica (computer file). Mathematics -- data processing.

Series:

Description:

Edition:

Notes:

Contents:

Bibliography:

Format:

Language:

Genre:

New Holdings

Save

Clear

subject computer

Find

READY

New

Status

Bookmarks

Notes

Help

Quit

# Support for your Open Source Library Management System

- Commercial support is available
- Developer support
- Community support
  - E-mail lists
  - IRC channels
- Self support

# Differences between OSS and Proprietary LMS

- Hard to generalize, but.....
- OSS LMS are not as complex
- OSS LMS modules are mostly web based
- OSS LMS are easier to evaluate

# Differences between OSS and Proprietary LMS

- OSS LMS are easier to customize (including reports)
- Proprietary LMS normally has more features
- Costs
- OSS LMS have more flexible support options

# Open Source Library Automation Systems: Q & A

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<http://library.rider.edu/scholarly/ecorrado/njla2004/>