



Cooperative Architecture and Cooperative Development of a Course Reserves Tool

Randy Stern, David McElroy
Harvard University

November 8, 2006



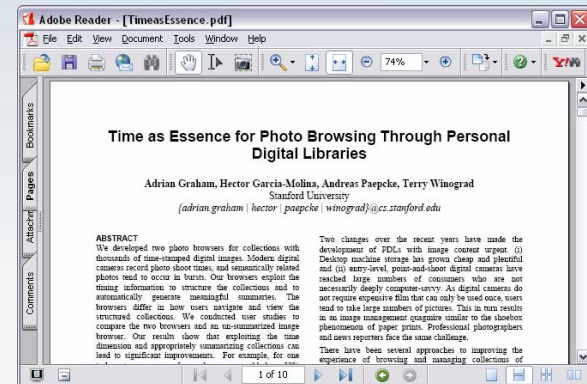
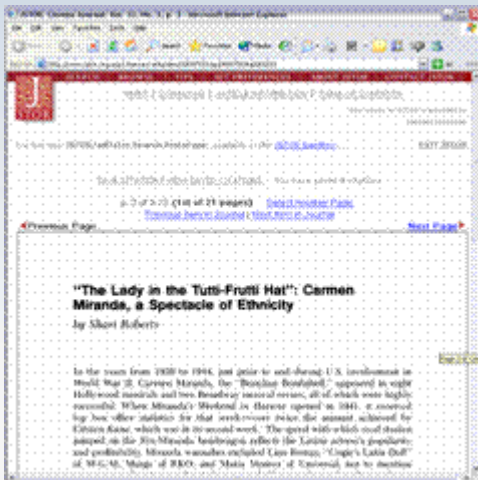
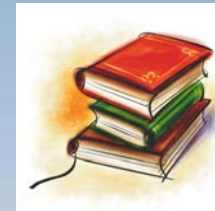
Course and Library Reserves Tool

- What is the course reserves tool?
- System Architecture
- Cooperative Development

Course Reserves Lists

Contain citations for:

- Physical materials to be placed on reserve
- E-journal articles and e-resources
- E-reserves (scanned readings)





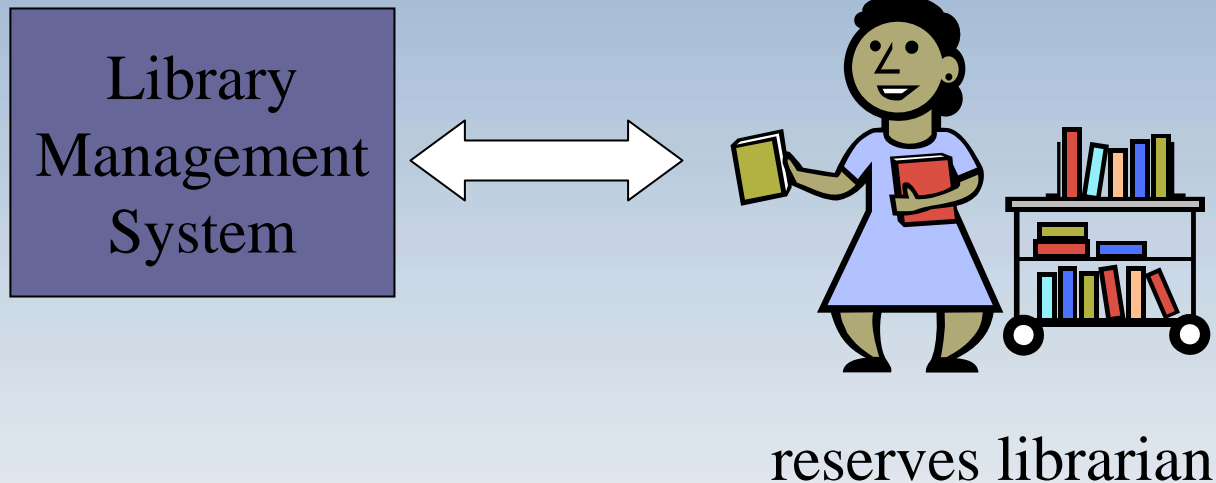
Reserves List Tool - Goals

- Student view integrated with course web sites with digital links to on-line resources or ILS availability for hardcopy
- Ease of use for faculty and staff - re-use of prior lists and enter new requests in standard course tool
- Minimize library work – manage the workflow and re-use prior term data



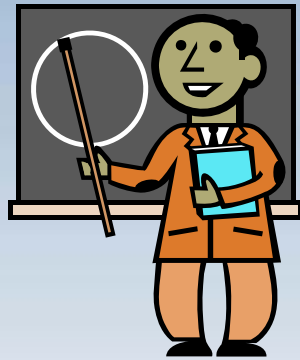


Reserves System

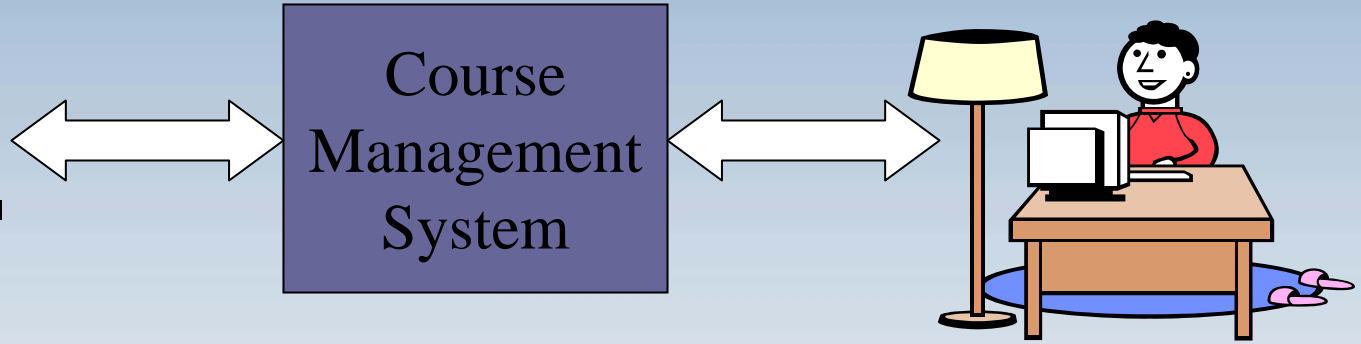




Course Management System

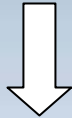


instructor

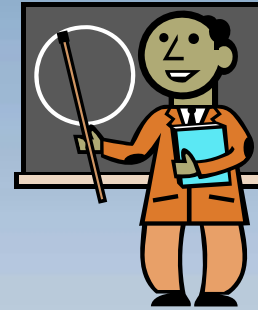


student

Two Distinct, Tailored Systems



Library
Management
System



Course
Management
System



Use Profile Differences

Librarian

Librarian in Library
System Frequently

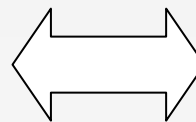
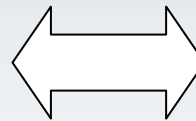
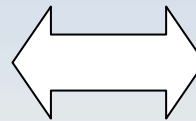
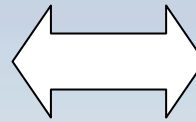
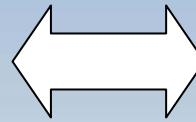
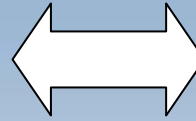
Reserves Tool
Use Mandated

Daily Reserves
Management Tasks

Full Workflow
Training Expected

Has Job-Specific
OLTP Environment

Primarily in use
during business hours



Instructor

Instructor in
CMS infrequently

Reserves Tool
Use Optional

Management of
Reserves infrequent

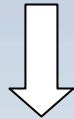
Ease-of-Use by the
Untrained Expected

Has Customizable
Web Environment

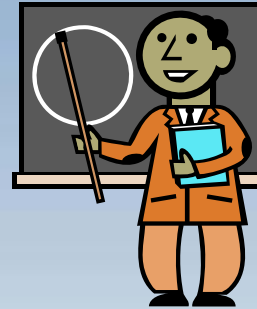
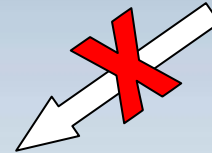
In use 24x7



Unthinkable Options



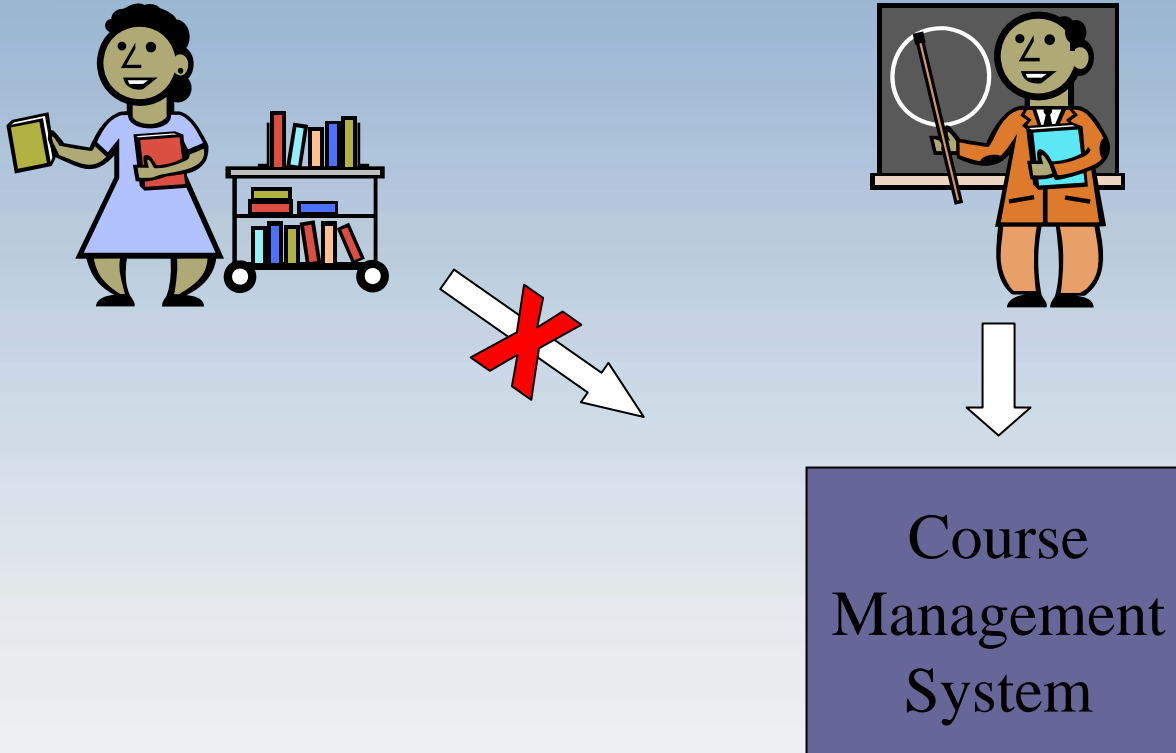
Library
Management
System



Library system isn't designed for the very infrequent user



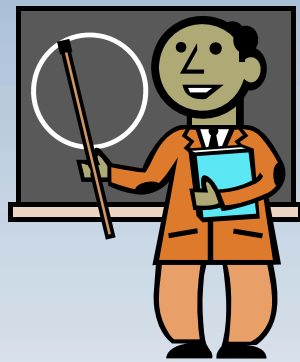
Unthinkable Options



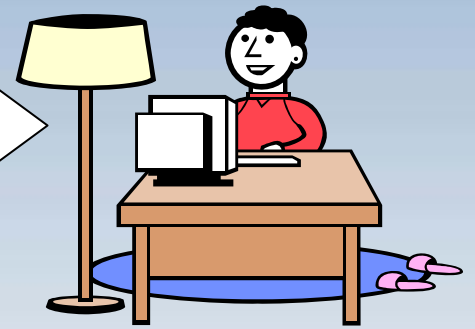
Course management system isn't designed for workflow



Course Management System




instructor



student

Student view –course site

<http://isites.harvard.edu/k8257>



FRSEMR 36I Home § Freshman Seminar 36I

http://isites.harvard.edu/icb/icb.do?keyword=k8257

my.harvardtm Welcome, David McElroy [logout](#)

Freshman Seminar 36I

[COURSE SITE ADMIN](#)

➔ [FRSEMR 36I Home](#)

[Syllabus](#)


Course Information

Freshman Seminar 36I : A Cultural History of the Banana
Harvard College/GSAS: 1347
Fall 2006–2007
Amy L. Spellacy
Meeting Time: W., 3–5

Text Area

Prior to the 1880s, most Americans had never seen or eaten a banana. By the early years of the twentieth century, however, the banana had become abundant and cheap, a tropical fruit that was accessible to working people in the United States. This seminar will trace the cultural history of the banana, considering how the banana industry has historically functioned as a site of U.S.–Latin American interaction that exposes tensions between the United States and its southern neighbors. Focused primarily on the twentieth century, this seminar will examine how the banana came to be a staple of American grocery stores, investigate the political and economic issues surrounding the banana, and analyze the ways that bananas have shaped cultural texts in the United States and Latin America. Students will explore the

Image



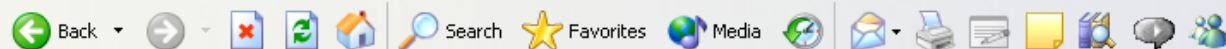
Announcements

Film Screenings

The screening of Weekend in Havana is scheduled for Monday, Oct. 16 at 7:35 p.m. in Barker Center 024. We'll be watching Bananas on Monday, Dec. 11 at 7:35 p.m., also in Barker Center 024. If you can't make these screenings, you will need to make arrangements to watch the films in Lamont, where they are on reserve.

Shared Document Area





Address http://isites.harvard.edu/icb/icb.do?keyword=k8257

Go Links

United States and Latin America. Students will explore the seminar topic through literary texts, films, advertising, and secondary material written by historians. Specific topics for discussion include the history of the United Fruit Company, the 1954 CIA-led overthrow of Guatemalan leader Jacobo Arbenz, the career of Brazilian performer Carmen Miranda, the poetry of Pablo Neruda, Gabriel García Márquez's 1969 novel *One Hundred Years of Solitude*, and Woody Allen's 1971 film *Bananas*. Seminar requirements will include weekly informal writing assignments, a presentation, and a final paper.

Web Links

[Africa's Earliest Bananas](#)
[Journey to Banana Land](#)
[Baker Library Newsletter, United Fruit Photographs](#)
[Chiquita](#)
[HUDS Food Literacy Project](#)
[Oké USA Fair Trade](#)

Reserve Reading List

Sort by: [\[Author \]](#) [\[Title \]](#) [\[Lecture Date \]](#) [\[Instructor Ordered \]](#)

Jenkins, Virginia. *Bananas: An American History*. (2000)

Lecture/Class Date: No Lecture Date Specified -
- Available

Required for Course

[HOLLIS Record](#) (view for call number and availability)

[View Full Citation Details](#)

Black, George. *The Good Neighbor: How the United States Wrote the History of Central America and the Caribbean*. (1988)

Lecture/Class Date: No Lecture Date Specified -
- Available

Required for Course

[HOLLIS Record](#) (view for call number and availability)

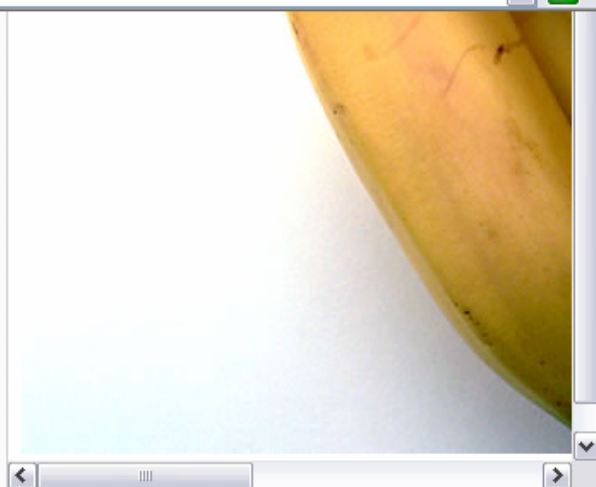
[View Full Citation Details](#)

Henry, O. *Cabbages and Kings*. (1994)

Lecture/Class Date: No Lecture Date Specified -
- Available

Required for Course

[Digital version](#)



Announcements

Film Screenings

The screening of *Weekend in Havana* is scheduled for Monday, Oct. 16 at 7:35 p.m. in Barker Center 024. We'll be watching *Bananas* on Monday, Dec. 11 at 7:35 p.m., also in Barker Center 024. If you can't make these screenings, you will need to make arrangements to watch the films in Lamont, where they are on reserve.

Shared Document Area

Sorry, you do not have access to view these files as you are not a part of this classroom.

For Instructors: Welcome to Course iSites

Welcome to Course iSites! This new version of the course platform provides easy-to-use and flexible ways to use a course website in your teaching. It includes many of the same pedagogical tools you may have been used to in the Instructor's Toolkit, along with several new and improved tools, streamlined course administration, and significantly expanded collaboration and group work capabilities.

To get started, you can:



Student view – Reserves List

Reserve Reading List



Sort by: [\[Author \]](#) [\[Title \]](#) [\[Lecture Date \]](#) [\[Instructor Ordered \]](#)

Jenkins, Virginia. *Bananas: An American History*. (2000)

Lecture/Class Date: No Lecture Date Specified -- Available

Required for Course

[HOLLIS Record](#) (view for call number and availability)

[View Full Citation Details](#)

Black, George. *The Good Neighbor: How the United States Wrote the History of Central America and the Caribbean*. (1988)

Lecture/Class Date: No Lecture Date Specified -- Available

Required for Course

[HOLLIS Record](#) (view for call number and availability)

[View Full Citation Details](#)

Henry, O. *Cabbages and Kings*. (1994)

Lecture/Class Date: No Lecture Date Specified -- In process by library

Required for Course

[Digital Version](#)

[View Full Citation Details](#)

Schlesinger and Kinzer, Stephen. *Bitter Fruit: The Story of the American Coup in Guatemala*. (2005)

Lecture/Class Date: No Lecture Date Specified -- Available

Required for Course

[HOLLIS Record](#) (view for call number and availability)

[View Full Citation Details](#)

McMillian, John. *Electrical Bananas: An Epistemological Inquiry Into the Great Banana Hoax of 1967*.

The Believer. (2005) --



Digital links

[HOLLIS Record](#) (view for call number and availability)
[View Full Citation Details](#)

Roberts, Shari. .

Lecture/Class Date: No Lecture Date Specified --
Available

~~Required for Course~~


[Digital Version](#)

[View Full Citation Details](#)

Allen, Woody. *Bananas*. (1971)

Lecture/Class Date: No Lecture Date Specified --
Available

Digital version



JSTOR: Cinema Journal: Vol. 32, No. 3, p. 3 - Microsoft Internet Explorer

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Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address <http://www.jstor.org.ezp1.harvard.edu/view/00097101/ap040075/04a00020/0> Go Links

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p. 3 of 3-23 (1st of 21 pages) [Select Another Page](#)
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[Previous Page](#) [Next Page](#)

“The Lady in the Tutti-Frutti Hat”: Carmen Miranda, a Spectacle of Ethnicity
by Shari Roberts

In the years from 1939 to 1944, just prior to and during U.S. involvement in World War II, Carmen Miranda, the “Brazilian Bombshell,” appeared in eight Hollywood musicals and two Broadway musical revues, all of which were highly successful. When Miranda’s *Weekend in Havana* opened in 1941, it received top box office statistics for that week—over twice the amount achieved by *Citizen Kane*, which was in its second week.¹ The speed with which rival studios jumped on the Fox-Miranda bandwagon reflects the Latina actress’s popularity and profitability. Miranda wannabes included Lina Roday, “Cugie’s Latin Doll” of M-G-M; Margo of RKO; and Maria Montez of Universal; not to mention

Page 3 of Cinema



View Citation Details

[HOLLIS Record](#) (view for call number and availability)
[View Full Citation Details](#)

Roberts, Shari. .

Lecture/Class Date: No Lecture Date Specified --
Available

Required for Course

[Digital Version](#)

[View Full Citation Details](#)

Allen, Woody. *Bananas*. (1971)

Lecture/Class Date: No Lecture Date Specified --
Available



Citation Details


Reserve Reading List



Current Citation: (some bibliographic information may have been edited by library staff)

Title:	Bananas: An American History		
Author:	Virginia Jenkins		
Publisher:	Smithsonian Institution Press		
Publication Year	2000	Edition:	
Volume/Issue:		Pages:	
ISBN:		Material:	Book
Status:	Complete	Citation ID:	364848
Library:	Lamont [reslib@fas.harvard.edu]		
HOLLIS Record:	http://lms01.harvard.edu/F/?func=item-global&doc_library...		

Link to location...



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Address http://lms01.harvard.edu/F/1KEKHV825MMFPKPX3QDTB3H59VFGPU5GYKPPTBBNHVJV43QN-50007?func=item-global&doc_library=HVD01&doc_numl Go Links

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- [Help](#)

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Holdings: FULL CATALOG [Back](#)

Jenkins, Virginia Scott.
Bananas : an American history / Virginia Scott Jenkins.
Washington, DC : Smithsonian Institution Press, c2000.
xiii, 210 p. : ill. ; 23 cm.
HOLLIS: 008445123

Location : Baker Business HD9259.B3 U537 2000

Location : Lamont HD9259.B3 U537 2000

Location : Schlesinger 641.74 J52b

Location : Widener Harvard Depository HD9259.B3 U537 2000 [Consult Circ. Desk for HX24Q3]

Availability
If you see a "Request" link next to the "Item status" information then the item is either in storage at the Harvard Depository or checked out to another person. To request the item, click on the "Request" link. You will be asked for a Harvard ID number and [PIN](#). The item will be delivered to the library as soon as it is available.

[Previous Page](#) [Next Page](#)

...and availability

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Address http://lms01.harvard.edu/F/9B3GFF5I53BQL3KUDKYSSJP7T3UAT8XA6MCNDL5CX6AKMNDM8E-10960?func=item-global&doc_library=HVD01&doc_number=008445123&year=2000 Go Links

HOLLIS: 008445123

Location : Baker Business HD9259.B3 U537 2000

Location : Lamont HD9259.B3 U537 2000

Location : Schlesinger 641.74 J52b

Location : Widener Harvard Depository HD9259.B3 U537 2000 [Consult Circ. Desk for HX24Q3]

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Previous Page Next Page

Location	Collection	Call Number	Description	Due date	Item status	Wait list	Note	Barcode
Widener	Harvard Depository	HD9259.B3 U537 2000		Checked out: due 10/20/06 07:00 PM	Regular loan (depository)	Request		HX24Q3
Schlesinger		641.74 J52b		Not checked out	Ask at Reference Desk			32044087485819
Lamont	Reserves	HD9259.B3 U537 2000		Not checked out	3-hour loan			32044076107747

Previous Page Next Page

[About the HOLLIS Catalog](#)

RESEARCH (ARTICLES) CITATION LINKER RESEARCH GUIDES OTHER CATALOGS LIBRARY INFO HARVARD LIBRARIES HARVARD HOME

Instructor View

Editing "Reserve Reading List"

You are currently editing the content of this Topic Box. You can also:

[Rename this Topic Box](#), or
[Set access permissions](#), or
[Exit edit view](#).

[Manage Reserves List](#) [Reorder Reserves List](#) [Reuse Citations from Previous Terms](#) [Add a New Citation](#)
[Supporting Library](#)

Manage Reserves List

Welcome to the "Edit View" of the Reserves Tool! Using Edit View, faculty and course staff can submit requests for course readings to a supporting library and manage the list of readings to control what students see.

To submit a request, you can [reuse a citation request](#) from a previous term or [add a new citation request](#).

Return to this "Manage Reserves List" screen if you want to modify the reserves list. You can edit individual requests to add a note or a lecture date, indicate a required reading, or hide the request from student view.

You can delete New or Reuse requests that the library has not yet processed. To delete requests that are In Process or Complete, you must contact the supporting library. You can send a message to the library by displaying the full request and clicking the library's email address.

Instructors also have the ability to define a custom order of a reserves list. Go here to [reorder the reserves list](#).

[\[Select All Citations \]](#) [\[De-select All Citations \]](#)

Title	Status	Delete	Edit
Bananas: An American History	Complete	-	 Edit
The Good Neighbor: How the United States Wrote the History of Central America and the Caribbean	Complete	-	 Edit
Cabbages and Kings	In Process	-	 Edit



Instructor View

Title	Status	Delete	Edit
Bananas: An American History	Complete	–	Edit
The Good Neighbor: How the United States Wrote the History of Central America and the Caribbean	Complete	–	Edit
Cabbages and Kings	In Process	–	Edit
Bitter Fruit: The Story of the American Coup in Guatemala	Complete	–	Edit
Electrical Bananas: An Epistemological Inquiry Into the Great Banana Hoax of 1967	In Process	–	Edit
One Hundred Years of Solitude	Complete	–	Edit
The Lady in the Tutti-Frutti Hat: Carmen Miranda, a Spectacle of Ethnicity	Complete	–	Edit
Bananas	Complete	–	Edit
Bananas Is My Business	Complete	–	Edit
Carmen Miranda: The South American Way	Complete	–	Edit

Instructor View

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[\[Select All Citations \]](#) [\[De-select All Citations \]](#)

Title	Status	Delete	Edit
Bananas: An American History	Complete	-	 Edit
The Good Neighbor: How the United States Wrote the History of Central America and the Caribbean	Complete	-	 Edit
Cabbages and Kings	In Process	-	 Edit



Citation Reuse

Fall 2005-2006

Copy Citation Requests to Current Term

[\[Select All Citations \]](#) [\[De-select All Citations \]](#)

Title	Select
Sourcebook/coursepack. FAS-2178	<input type="checkbox"/>
International Public Health: Diseases, Programs, Systems and Policies	<input type="checkbox"/>
The world health report 2002 : Reducing risks, promoting healthy life	<input type="checkbox"/>
The world health report 2001 : mental health : new understanding, new hope.	<input type="checkbox"/>
Title	Select

Copy Citation Requests to Current Term

Instructor View

Add a New Citation



To save time -- [reuse citations from a previous term](#)

To submit a new citation request to a supporting library for processing, please select the type of material you are requesting and your supporting library. Reserves staff at the supporting library will process this request and add a link to a digital version of the material and/or to the HOLLIS Catalog availability screen for a physical copy.

Course Term: FRSEMR 36I - Fall 2006

Material Type:

Supporting Library:

[Which library supports my course?](#)

Next

Adding a New Citation

Adding a Citation Request - Book

Estimated Number of Enrolled Students:

Lecture/Class Date:

...

Clear Date

Student View Display:

Show

Required Reading: ☐

Either HOLLIS number *OR* Title is required

HOLLIS System Number:

Title or Description:

Author Last Name:

Author First Name:

Editor Last Name:

Editor First Name:

Publisher:

Year of Publication:

Author (of chapter or excerpt) Last Name:

Author (of chapter or excerpt) First Name:

Chapter Title:

Page Numbers:

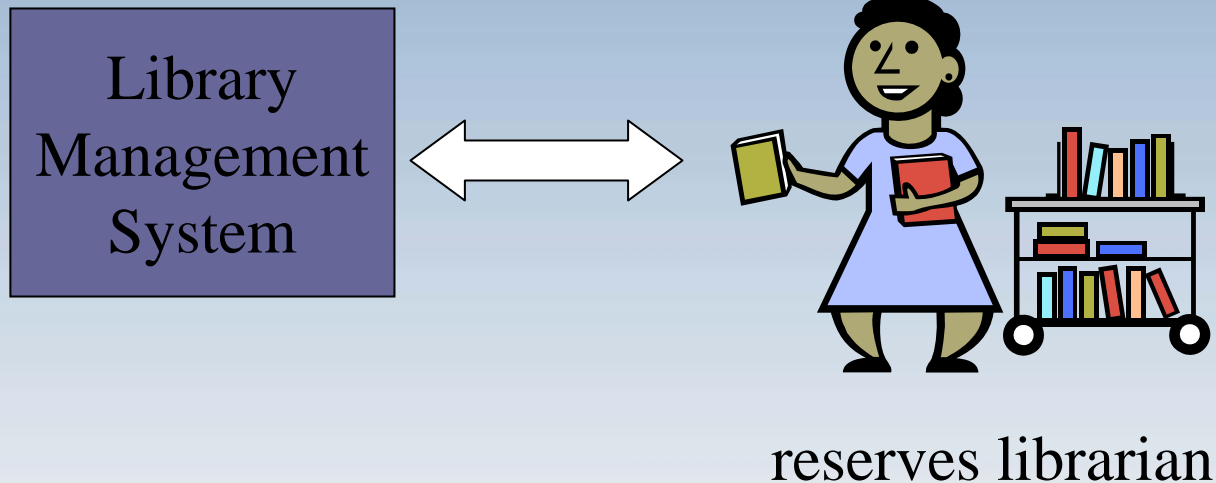
Volume:

Edition:

ISBN:



Reserves System



Librarian's Tool

http://rlist.hul.harvard.edu:8080/rlist_admin/loginForm.do?url=home.do

Harvard University Library Reading List Admin - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address http://rlist.hul.harvard.edu:8080/rlist_admin/searchCoursesForm.do Go Links

VERI TAS HARVARD UNIVERSITY LIBRARY
Reserves List Library Management Tool

Lists

Status Summary

Find Reading Lists

Find Citation Requests

Find Citations

Processing

Set Request to Complete

Create Order Report

Create Scan Report

Create Photocopy Report

Randall A Stern
admin
[Logout](#)

Can't log out? [Try this.](#)

[User Guide](#)

[Course Support](#)

[Contacts](#)

Find Reading Lists

Term

Summer 2005
Fall 2005
Spring 2006
Summer 2006
Fall 2006

Library

All Libraries
Andover-Harv. Theol
Biological Labs
Botany
Cabot Science

Status

All Statuses
New
Reuse
In Process
Item is lost/missing

Search Only Courses With Requests: ☒ No Requests: ☐ Both: ☐

* Catalog Number

* Course Name

* Instructor Last Name

Go

* = optional

Questions? Submit through the [request form](#).
Mon Oct 23 15:10:03 EDT 2006 / © President and Fellows of Harvard College

Library tool – List Results

Harvard University Library Reading List Admin - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://rlist.hul.harvard.edu:8080/rlist_admin/searchCourses.do?termId=14&library=LAM&statusCode=ALL&existingRequestsFlag=on&catalogNumber=&courseName=A+cultur Go Links

VERI TAS HARVARD UNIVERSITY LIBRARY
Reserves List Library Management Tool

Lists

- Status Summary
- Find Reading Lists
- Find Citation Requests
- Find Citations

Processing

- Set Request to Complete
- Create Order Report
- Create Scan Report
- Create Photocopy Report
- Randall A Stern admin [Logout](#)
- Can't log out? [Try this.](#)
- [User Guide](#)
- [Course Support](#)
- [Contacts](#)

Reading List Results

Results from search on term='Fall 2006' and status='ALL' and library='LAM' and catalogNumber='' and courseName='A cultural' and instructor=''

Results: 1 to 3 of 3

Catalog Number	Course Name	First Request Date	First Person
FAS-1775	Economics 1018. Cultural Economics [Fall 2006] (<i>Paola Giuliano (International Monetary Fund)</i>)	2006-09-18 11:33:25.0	Joseph Rindfleisch
FAS-7982	Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance in Cultural Context [Fall 2006] (<i>Deborah D. Foster</i>)	2006-09-07 11:24:47.0	Joseph Rindfleisch
FAS-1347	Freshman Seminar 36I. A Cultural History of the Banana [Fall 2006] (<i>Amy L. Spelacy</i>)	2006-08-30 22:01:51.0	Melanie J. Evans

Questions? Submit through the [request form](#).

Mon Nov 06 08:59:57 EST 2006 / © President and Fellows of Harvard College

Reserves List

Harvard University Library Reading List Admin - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://rlst.hul.harvard.edu:8080/rlst_admin/viewReadingList.do?courseInstanceId=210755

HARVARD UNIVERSITY LIBRARY
Reserves List Library Management Tool

Lists

- Status Summary
- Find Reading Lists
- Find Citation Requests
- Find Citations

Recent Lists:

FAS-1347 (Fall 06) [Go](#)

Processing

- Set Request to Complete
- Create Order Report
- Create Scan Report
- Create Photocopy Report

Randall A Stern
admin
[Logout](#)

Can't log out? [Try this.](#)

[User Guide](#)

[Course Support](#)
[Contacts](#)

Reading List

Catalog Number: FAS-1347 (Fall 2006)

Course Name: Freshman Seminar 36L: A Cultural History of the Banana (*Amy L. Spellacy*)

Links: [Course Tool Installed] [[Student View](#)] [[Request Sectioning](#)] [[Course Note / PDF Guest Login](#)]

Add Citation Requests

Select a Type...
Lamont
[Add Citation Request](#)

Update Citation Requests

[Update Statuses](#)

Delete Citation Requests

[Select All](#)
[Deselect All](#)
[Delete Requests](#)

Reading List for This Term (Fall 2006)

Delete Citation	Status	Link	Citation ID	Library	Title	Lecture Date	Submitted
<input type="checkbox"/>	Complete	H	364846	Lamont	Bananas (Required)		08/30/2006
<input type="checkbox"/>	Complete	H	364847	Lamont	Bananas Is My Business (Required)		08/30/2006
<input type="checkbox"/>	Complete	H	364848	Lamont	Bananas: An American History (Required)		08/30/2006
<input type="checkbox"/>	Complete	H	364849	Lamont	Bitter Fruit: The Story of the American Coup in Guatemala (Required)		08/30/2006
<input type="checkbox"/>	Order Requested	D	364850	Lamont	Cabbages and Kings (Required)		08/30/2006
<input type="checkbox"/>	Complete	H	364851	Lamont	Carmen Miranda: The South American Way (Required)		08/30/2006



Harvard University Library Reading List Admin - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address http://rlst.hul.harvard.edu:8080/rlst_admin/viewReadingList.do?courseInstanceId=210755 Go Links

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Delete Citation	Status	Link	Citation ID	Library	Title	Lecture Date	Submitted
<input type="checkbox"/>	Complete		364846	Lamont	Bananas (Required)		08/30/2006
<input type="checkbox"/>	New		364847	Lamont	Bananas Is My Business (Required)		08/30/2006
<input type="checkbox"/>	Reuse		364848	Lamont	Bananas: An American History (Required)		08/30/2006
<input type="checkbox"/>	In Process		364849	Lamont	Bitter Fruit: The Story of the American Coup in Guatemala (Required)		08/30/2006
<input type="checkbox"/>	Item is lost/missing		364850	Lamont	Cabbages and Kings (Required)		08/30/2006
<input type="checkbox"/>	Item is not available		364851	Lamont	Carmen Miranda: The South American Way (Required)		08/30/2006
<input type="checkbox"/>	Copy requested from prof.						
<input type="checkbox"/>	On Shelf Pick List						
<input type="checkbox"/>	Create Aleph Hold Request						
<input type="checkbox"/>	In Process - Aleph						
<input type="checkbox"/>	Create Order Request						
<input type="checkbox"/>	Order Requested						
<input type="checkbox"/>	Create Photocopy Request						
<input type="checkbox"/>	In Process - Photocopy						
<input type="checkbox"/>	Create Scan Request						
<input type="checkbox"/>	In Process - Scan Requested						

A journal citation

Harvard University Library Reading List Admin - Microsoft Internet Explorer

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Address http://rlst.hul.harvard.edu:8080/rlst_admin/editCitationRequest.do?citationRequestId=70514 Go Links

[Course Support](#)
[Contacts](#)

Citation Information #364857 (Journal)

Manage Reading List: **Fall 2006 FAS-1347**

Author Last:	Roberts	Author First:	Shari
Editor Last:		Editor First:	
Article Title:	The Lady in the Tutti-Frutti Hat: Carmen Miranda, a Spectacle of Ethnicity		
Journal Title:	Cinema Journal		
Year:	1993	Season:	SPRING
Month:		Day:	
Volume:	32	Issue/Number:	3
Start Page:	3	End Page:	23
ISSN:		DOI:	
Aleph Logical Base:	HVD01	Aleph System Number:	

Scanned Reading

Active PDF?	No	Best Copy Available?	Yes
TIFF in archive?	No	Return Photocopy?	No
[Upload External PDF]			

Citation Links and Notes

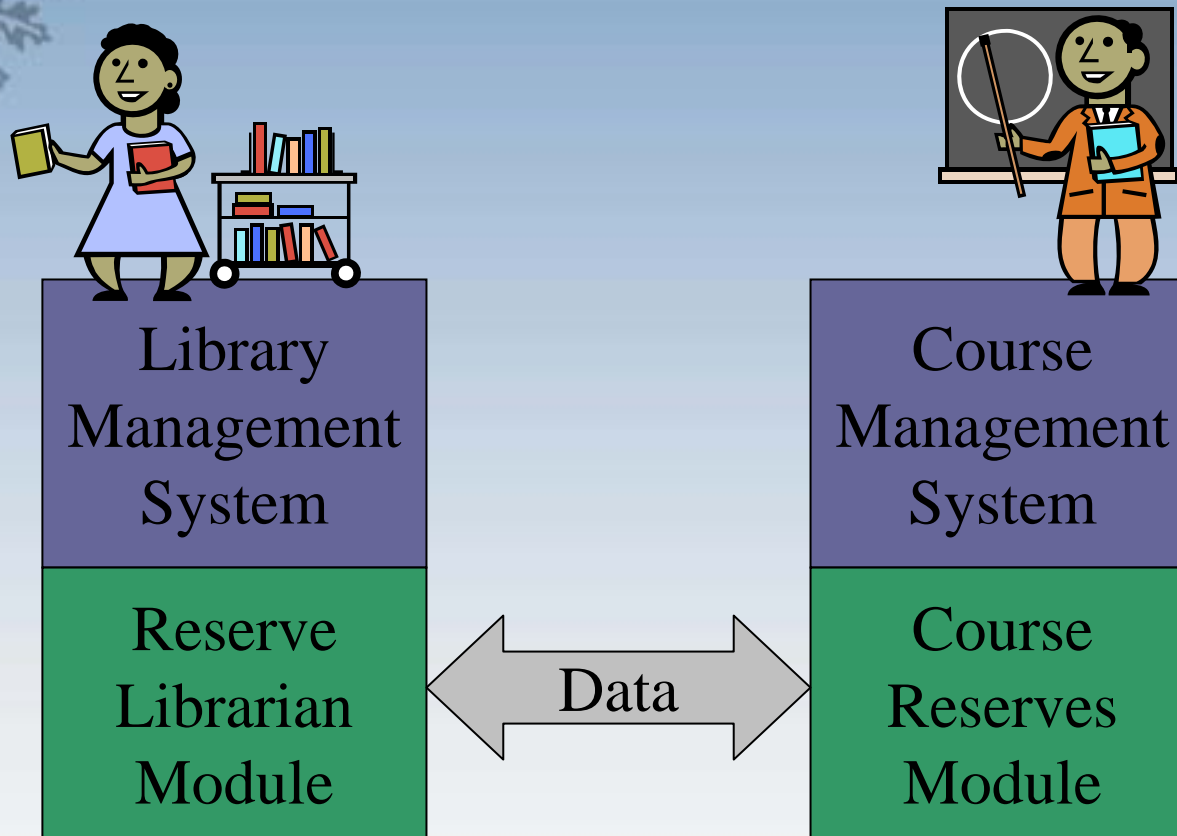
Url To Hollis Record:	
Display for FAS-1347?	No [No Link]
Url To Electronic Copy:	http://www.jstor.org.ezp1.harvard.edu/view/00097101/ap040075/04a00020/0
Display for FAS-1347?	Yes [Test Link]
Internal Note to Reserves:	



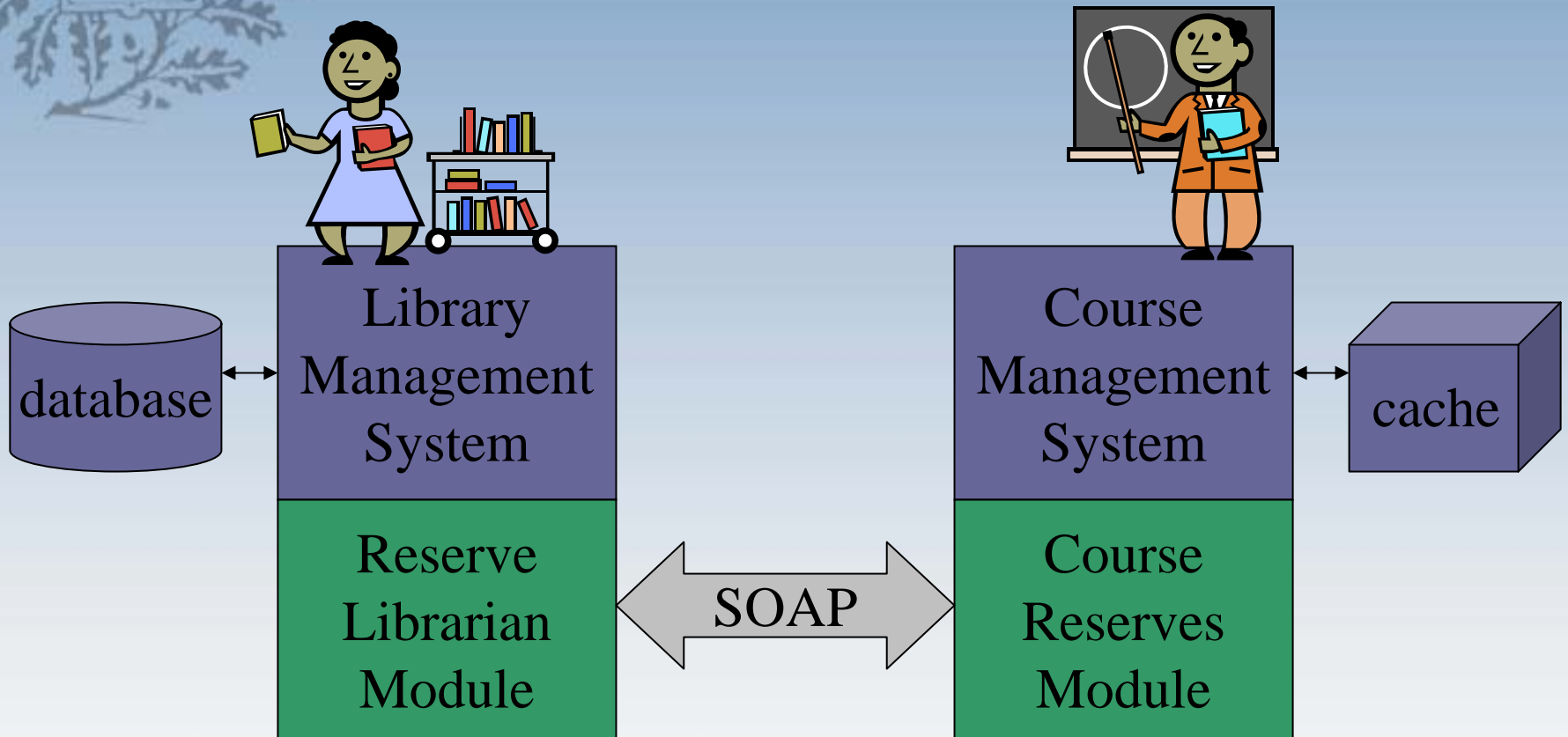
Data Sources

- A Reserves List is comprised of two types of data
 - Course Metadata – Managed by Schools
 - Term/year
 - Catalog Number
 - Course Name
 - Head Instructor
 - Course Instance ID
 - Reserves Lists – Managed by Libraries
 - Bibliographic Information (title, author, HOLLIS #)
 - Supporting Library
 - Lecture Date
 - Course Instance ID

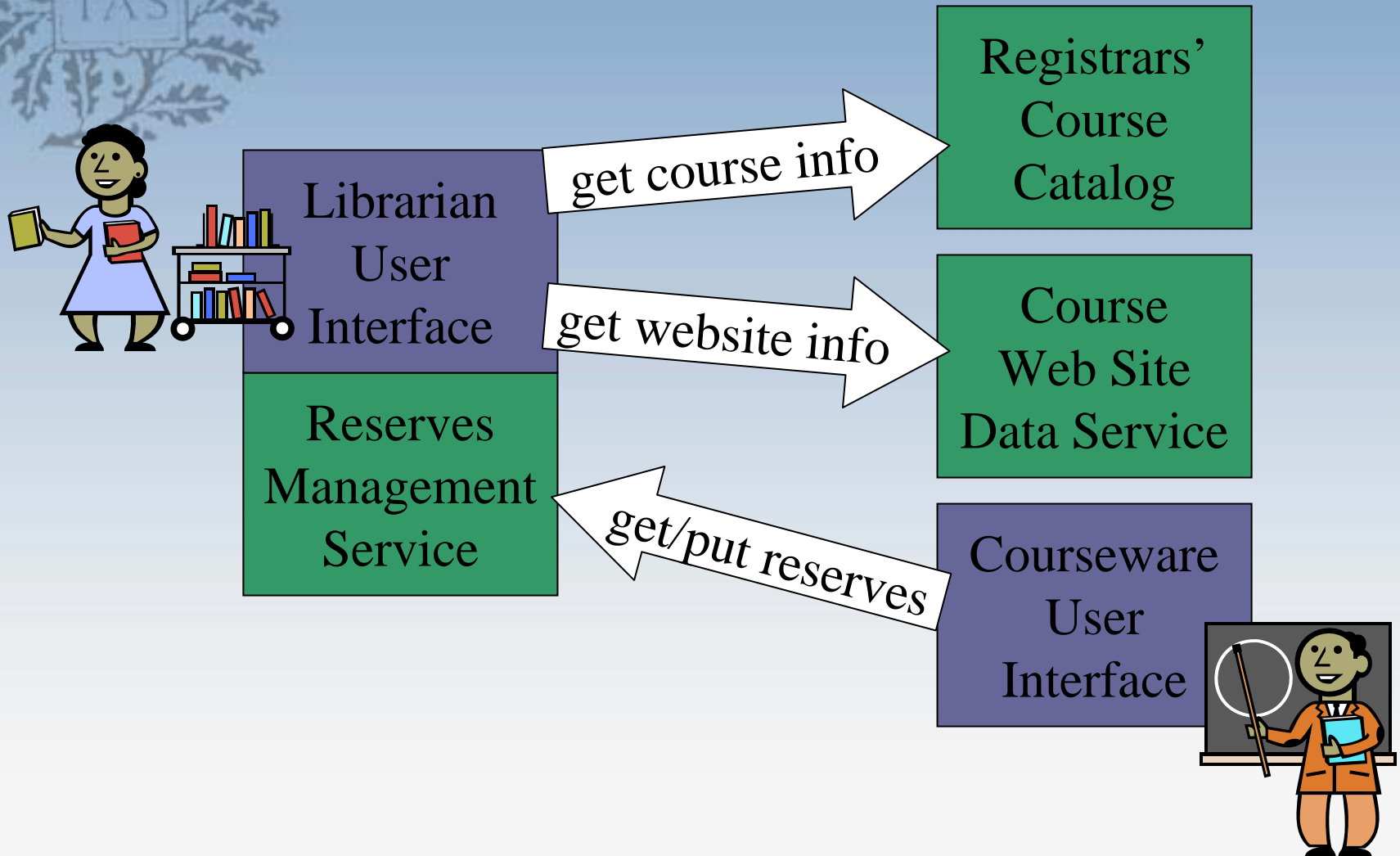
Leverage Both Systems



Join systems via SOAP

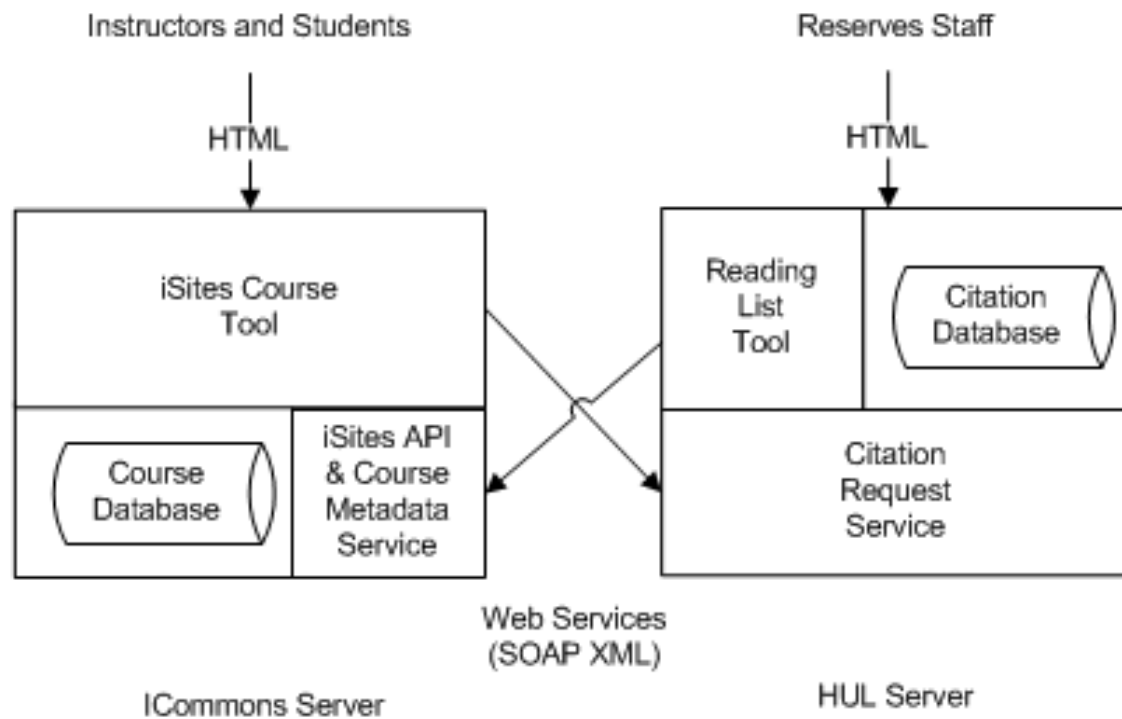


Service Oriented Architecture





Web Services

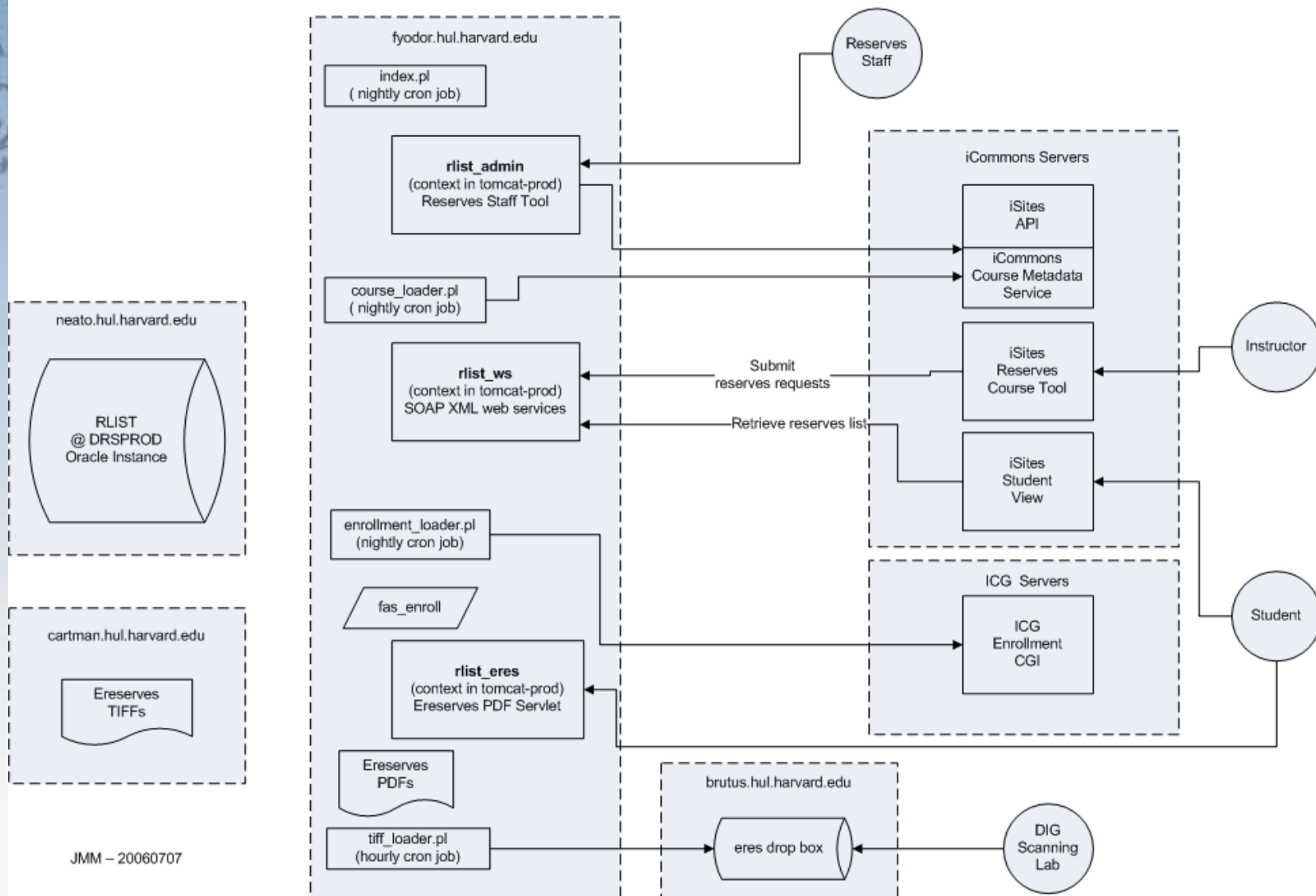




Technologies

- Standards based bridge
 - SOAP
 - WSDL
- Library implementation
 - SOAP services - Java, Tomcat
 - Staff tool – Java/JSP/Oracle
- Course platform implementation
 - SOAP services - perl
 - Course reserves tool - perl

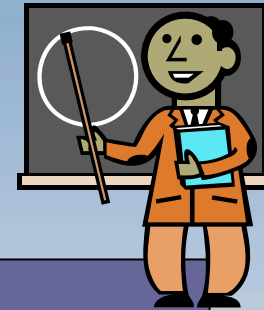
Reading List Server Architecture



Cooperative Development



Library
Management
System



Course
Management
System

Library IT:
OIS
Group

Cooperation

CMS IT:
iCommons
Group



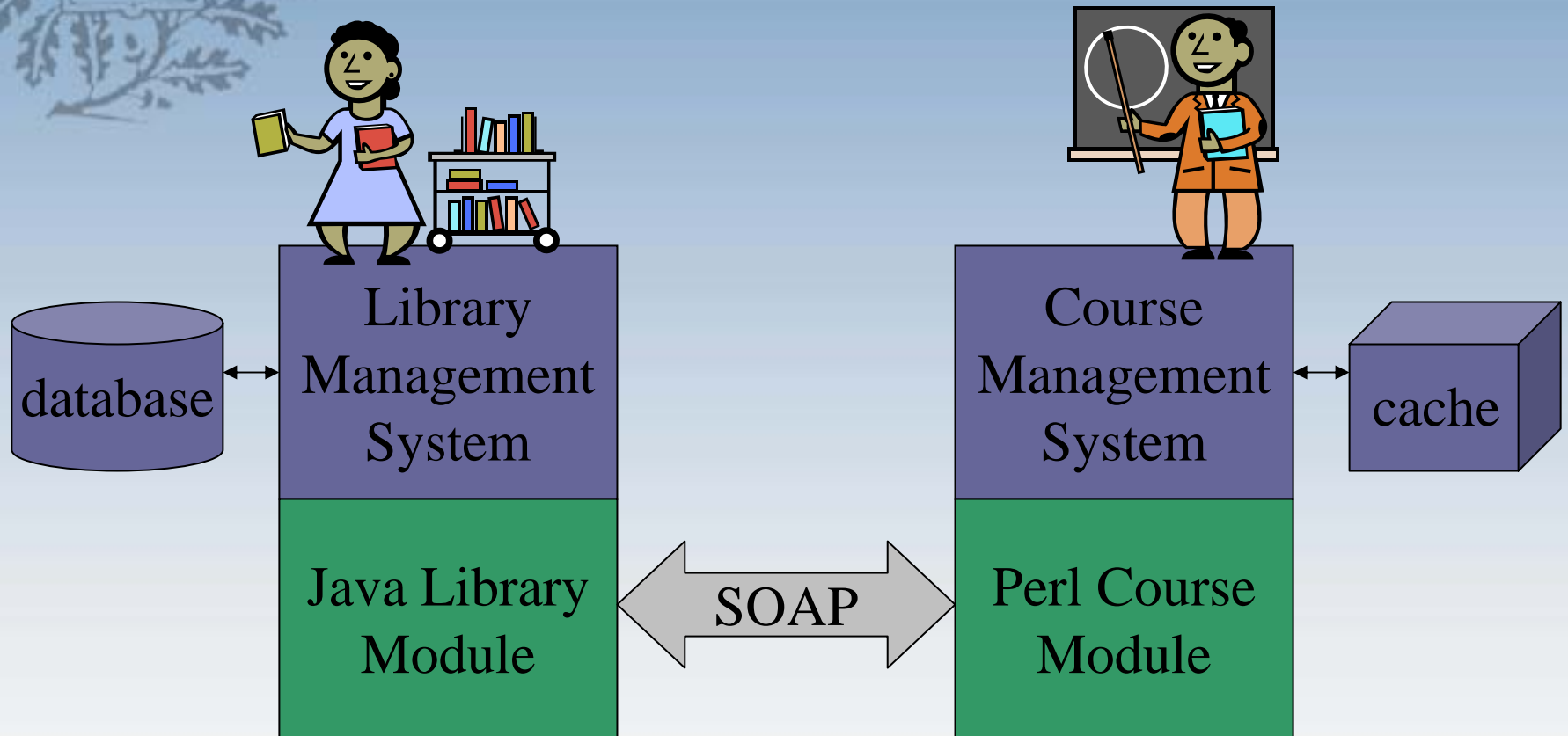
Technical Issues

- Library Service: a Java-based application running under Tomcat on Library infrastructure.
- CMS Service: a Perl-based plug-in running on the iSites Course Management System

Strategies

- **SOAP** for Platform Interoperability
- **Test Harness** for easy problem diagnosis
- **Co-location** for quick problem turn-around

SOAP: No Silver Bullet



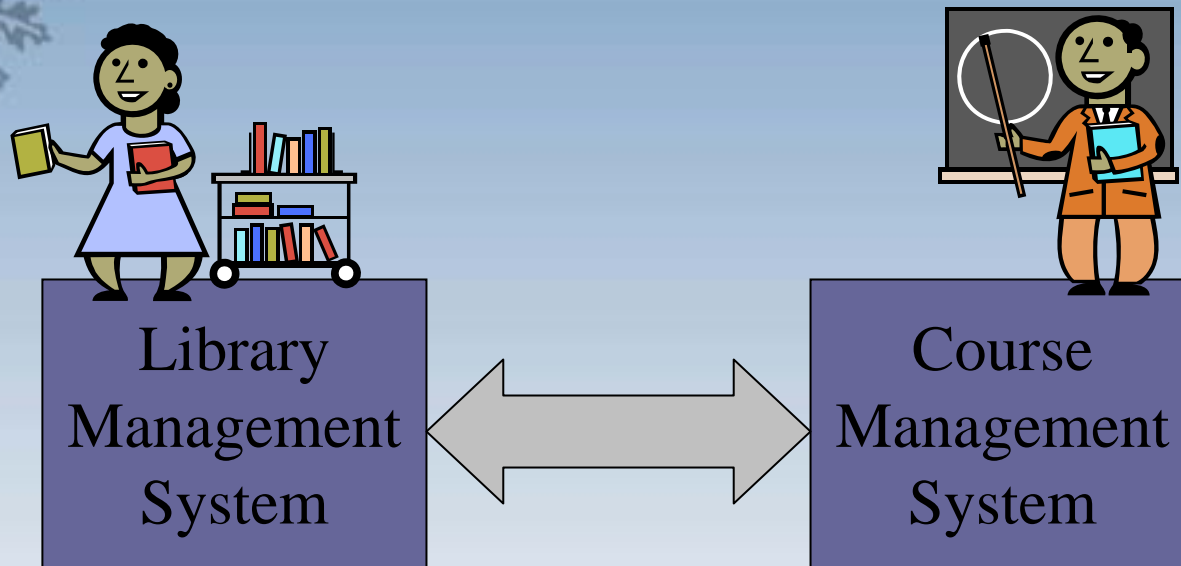


SOAP: Keep it simple



- Simple types only
 - ...for easy interoperability between heterogeneous systems
- Minimize SOAP calls
 - SOAP parsing performance
 - Minimize load on servers

More Issues!





Distinct Organizations

Library		CMS
Highly Structured Approach	↔	Tactical Approach
Transactional Workflow System	↔	Customizable Web Interface
Find consensus, then Deploy	↔	Iteration towards Consensus
Formal Training	↔	Optional Training
May Timeline	↔	August Timeline



Project Approach

- Library
 - Multi-Month Projects
 - Highly structured project plans
- CMS
 - Four to Eight Week Projects
 - Iterative delivery approach
- Impact
 - Release Timeline
 - Training Materials
 - User Consistency over Time



Project Structure Remedy

Retain Individual Practices

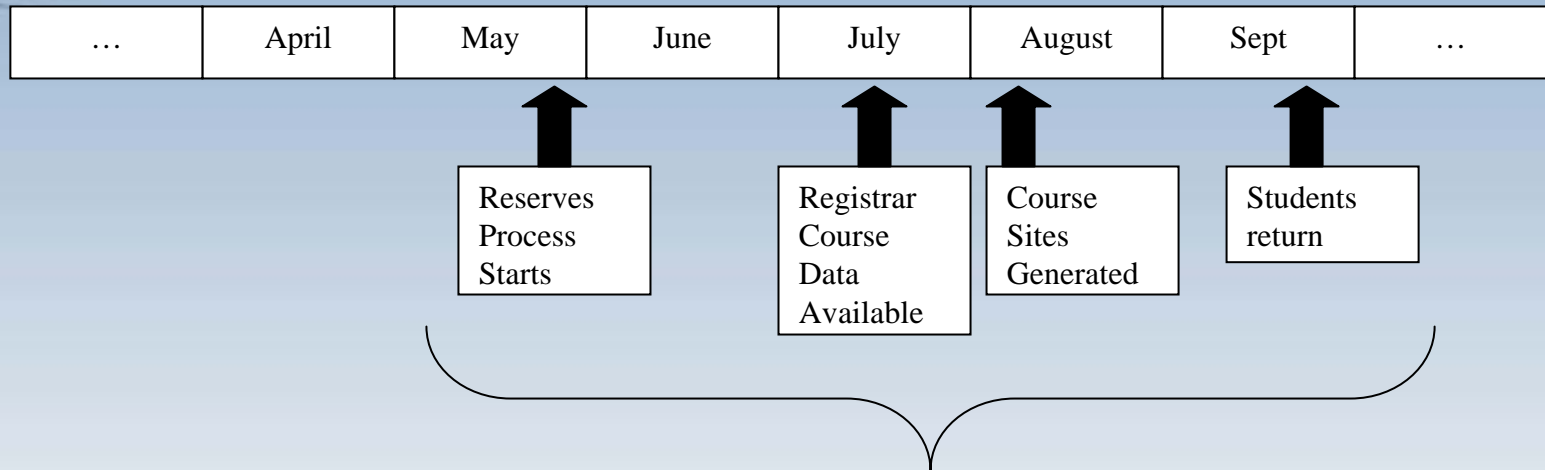
- Separate Requirements Gathering
- Separate Implementation Details
- Separate Training Materials
- Separate UI Design

Join forces where necessary

- Co-develop project goals
- Strict high level project timeline
- Weekly co-lead project meetings
- Co-develop communication protocols
- Co-locate developers to work together



Project Timeline Issues



Unworkable Timeline!



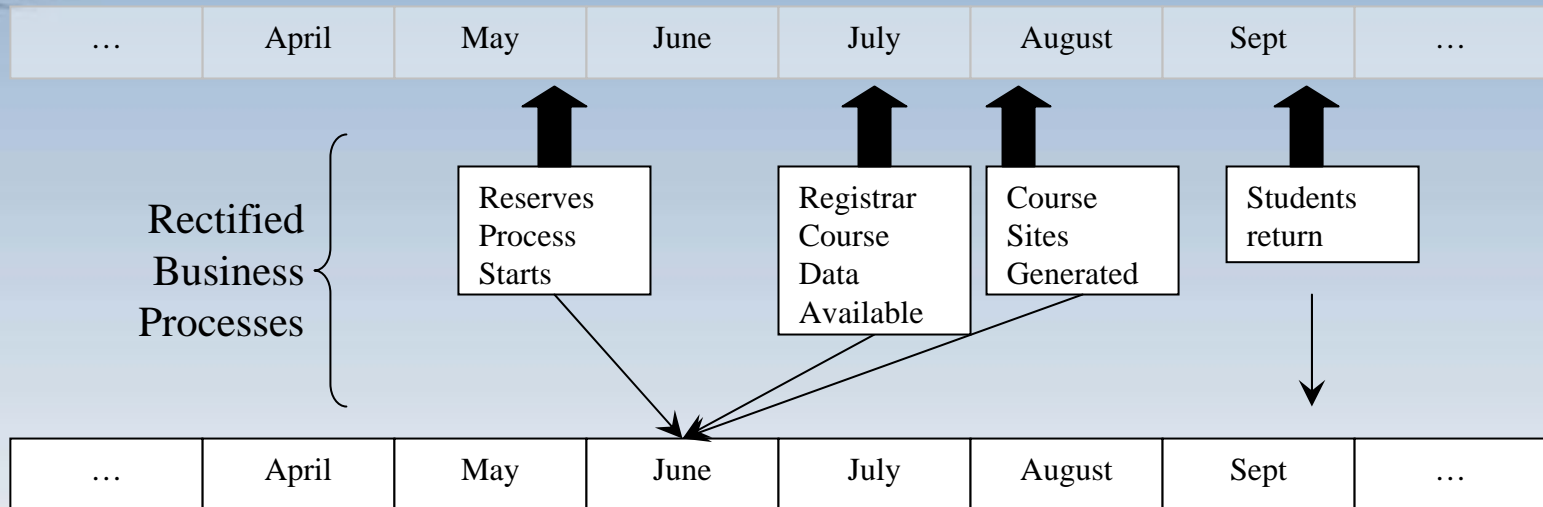
Disconnected Data Providers

- Reserves Process starts in May
- Course data available in July
- Course Web Sites generated in August

No Course Web Site for Reserves
Process until August?

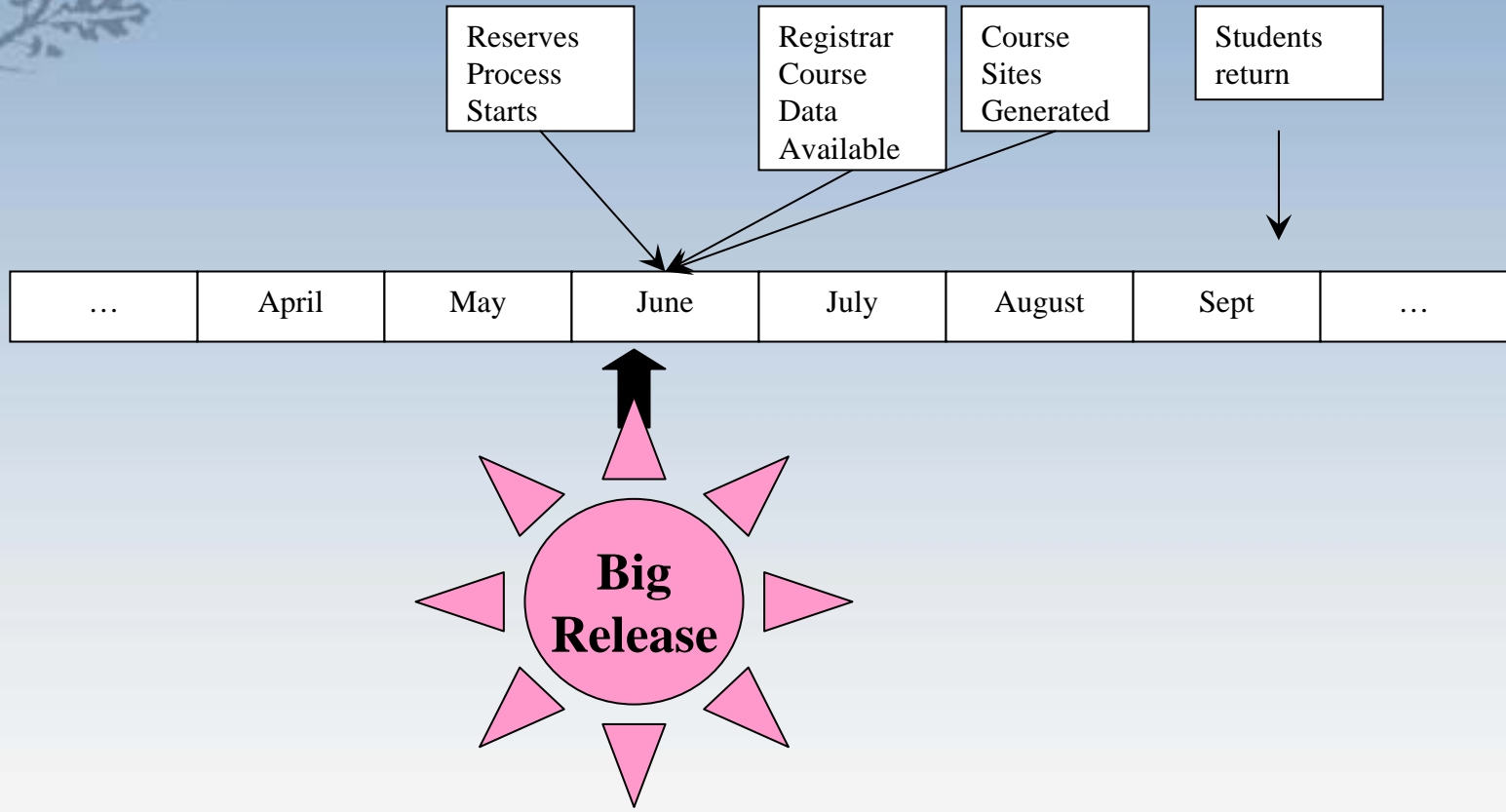


Rectified Project Timeline



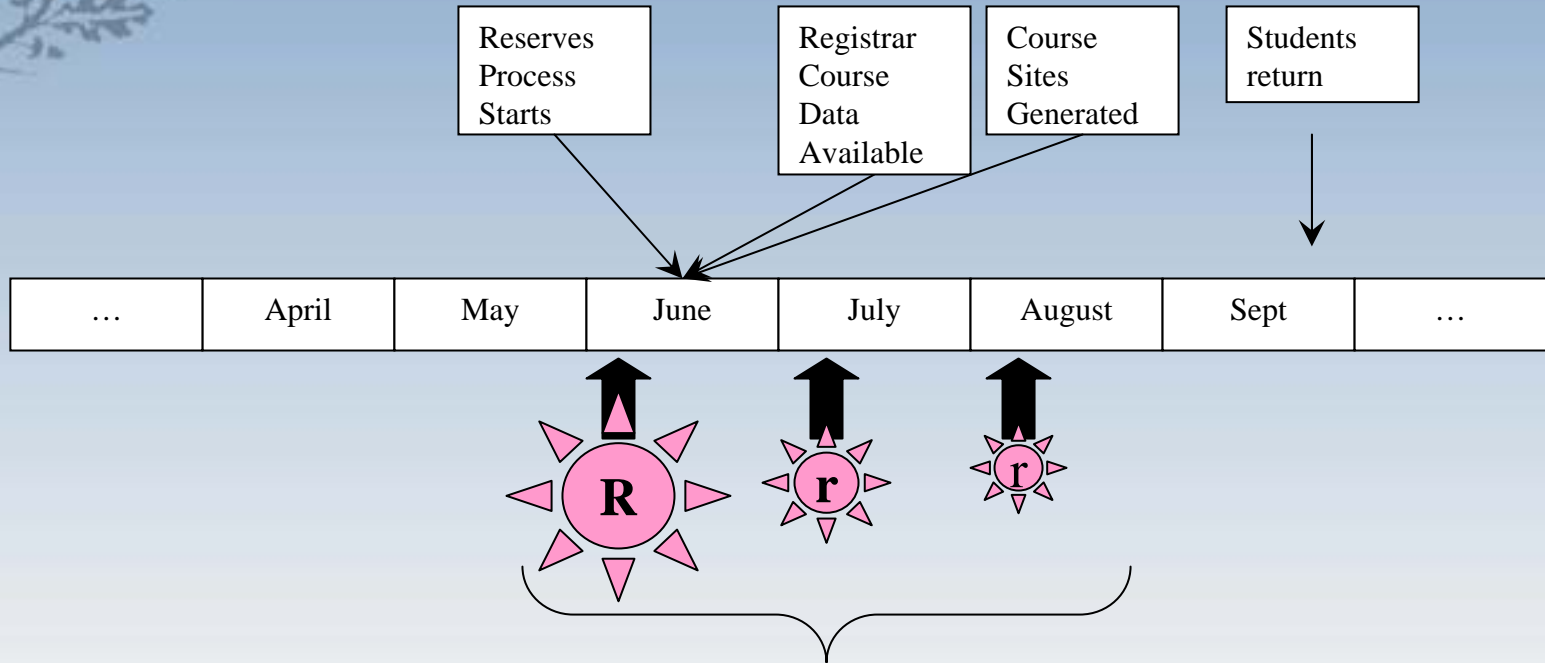


Initial Release Timeline





Release Timeline



Multiple Feature Releases

Use grows with time



Training & Support

- Instructors
 - Highly localized training and support
 - Optional for Instructor
 - Additional support through library
- Librarians
 - Centralized Training



Availability

When this decentralized system breaks, who is responsible for fixing it?

- Two distinct owners
- Two sets of customers
- 24 x 7 availability



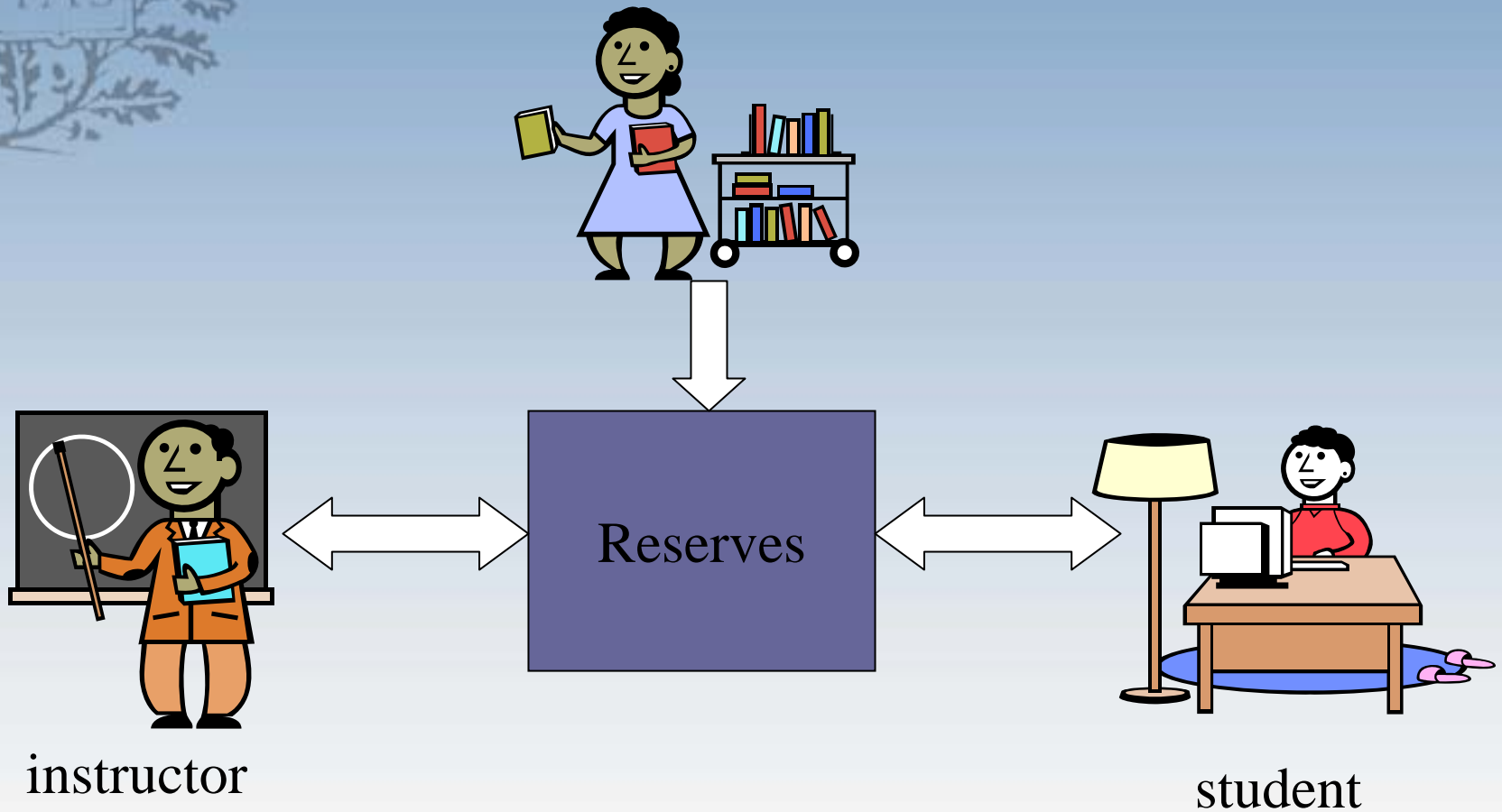
Availability

Solution: Everyone is Responsible

Conference Call

- All tech contacts & associated management get a call/page (24x7) regardless of “fault”
- Teams work together in isolating and correcting the problem
- Follow-up meeting scheduled

And it's working!





And it's working!

School (Fall 2006)	Total courses with at least one citation	Total courses sites	Total Reserves List Citations
FAS	473	1442	7601
HDS	78	144	1185
GSE	54	97	520
GSD	40	155	308
HLS	33	170	130
HSPH	1	121	2
Arboretum	0	40	0
EXT	0	293	0



Acknowledgements

- Library
 - Julian Marinus, SW Architect
 - Laura Morse, Systems Librarian
 - Julie Wetherill, Outreach Librarian
 - Chip Goines, SW Developer
- Course
 - Colin Murtaugh, SW Developer
 - Cris Wagner, SW Tool Developer
 - Paul Bergen, Head FAS Instructional Computing

