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Presentation

http://www.DavidLankes.org

TITLE: Collecting Conversations in a Massive Scale World AUTHOR(s): R. David Lankes PUBLICATION TYPE: Presentation DATE: 2007

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**ABSTRACT:** Using conversations and participatory concepts to organize huge volumes of information.

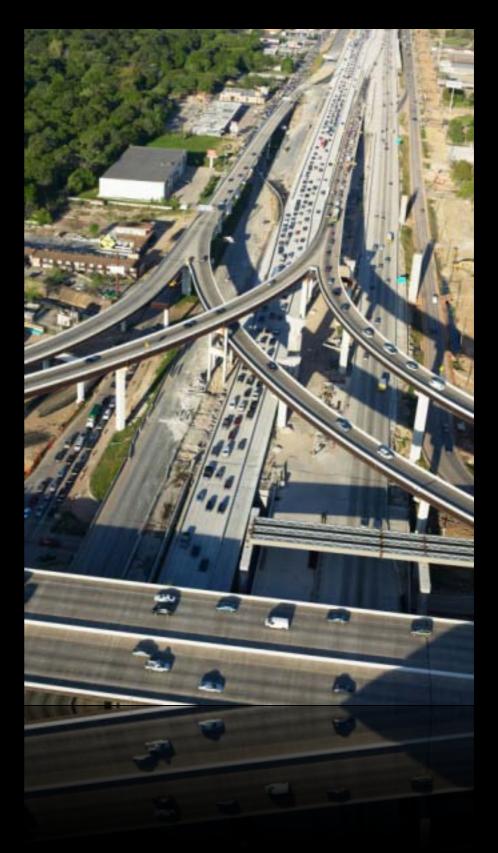
KEYWORDS: Participatory Librarianship, Massive Scale

Collecting Conversations in a Massive Scale World

R. David Lankes Slides: <u>www.DavidLankes.org</u> Director, Information Institute of Syracuse & Associate Professor School of Information Studies Syracuse University

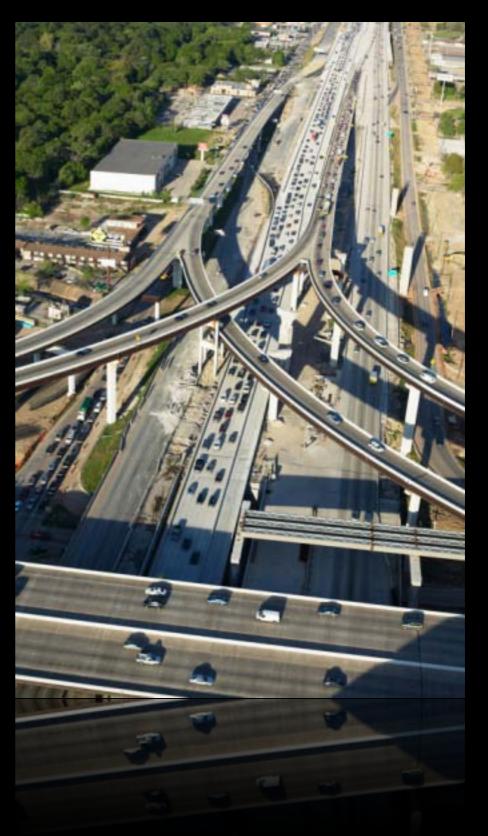


### Gigabyte per Mile



## Gigabyte per Mile

- Soon Every Mile of Road will Generate a Gigabyte of data a day
  - Road Sensors, Real-Time Traffic Data, Weather Information, Toll Data, Car Black Boxes



## Gigabyte per Mile

- Soon Every Mile of Road will Generate a Gigabyte of data a day
  - Road Sensors, Real-Time Traffic Data, Weather Information, Toll Data, Car Black Boxes
- It is assumed that this will become a gigabyte an hour. As there are 3.5 million miles of highways in the U.S. that would be 3.3 petabytes of data per hour, or 28 exabytes per year.







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Byte	I byte: a single character;
Kilobyte	2 Kilobytes: A typewritten page;

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 Imagine I Give you a Large Piece of Paper (.01" thick)

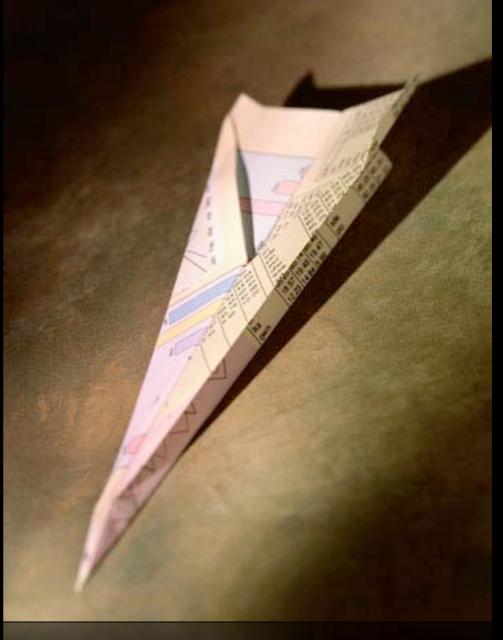


 Imagine I Give you a Large Piece of Paper (.01" thick)

• You Fold It in Half



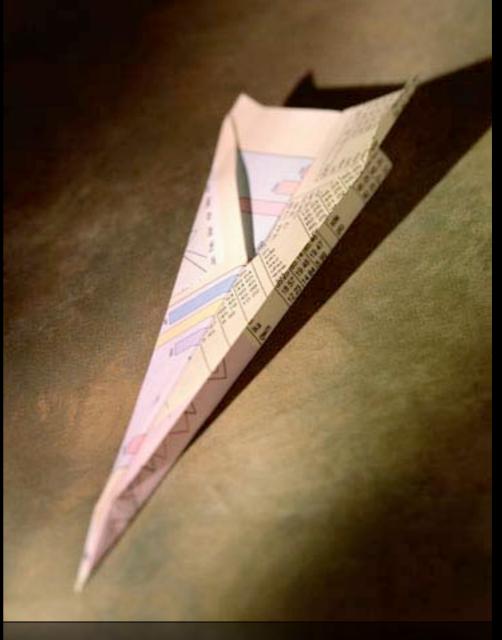
- Imagine I Give you a Large Piece of Paper (.01" thick)
- You Fold It in Half
- And Fold It Again...50 Times



- Imagine I Give you a Large Piece of Paper (.01" thick)
- You Fold It in Half
- And Fold It Again...50 Times
- How Tall Would It Be?

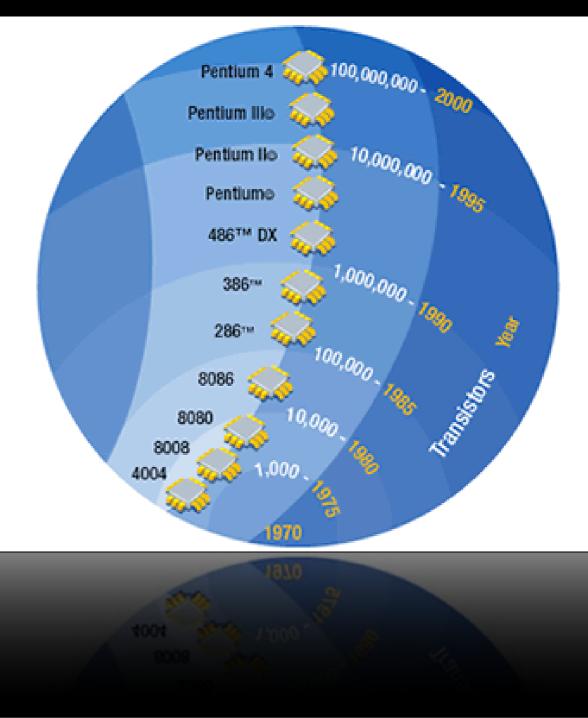


- Imagine I Give you a Large Piece of Paper (.01" thick)
- You Fold It in Half
- And Fold It Again...50 Times
- How Tall Would It Be?
- Approximately the Distance Between the Earth and the Sun



### Predictable Change

- Unlike the Web, Massive Scale Computing is "Foreseeable"
- Moore's LAW
  - Storage is Exceeding Moore's Law



### Present Fact, Not Science Fiction

Ask.com operations VP Dayne Sampson estimates that the five leading search companies together have some 2 million servers, each shedding 300 watts of heat annually, a total of 600 megawatts. These are linked to hard drives that dissipate perhaps another gigawatt. Fifty percent again as much power is required to cool this searing heat, for a total of 2.4 gigawatts. With a third of the incoming power already lost to the grid's inefficiencies, and half of what's left lost to power supplies, transformers, and converters, the total of electricity consumed by major search engines in 2006 approaches 5 gigawatts...almost enough to power the Las Vegas metropolitan area – with all its hotels, casinos, restaurants, and convention centers – on the hottest day of the year.

#### • Ignore It

- Commercialization of Data Stewardship
- Dissolution of the Library as Institution? Continued Reduction to a Niche Player

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- Limit the Library
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- Catalog it All
  - Tried It

- Ignore It
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  - Selection versus
     Intellectual Freedom

- Catalog it All
  - Tried It
- Embrace It
  - The Ethical Responsibility of LIS Education

### Why "Catalog It All" Won't Work

- Amount of Digital Information is Growing Exponentially
  - Doubles Every 18 months
  - ...and Most of This is Digital
  - ...and Less and Less of This is Text

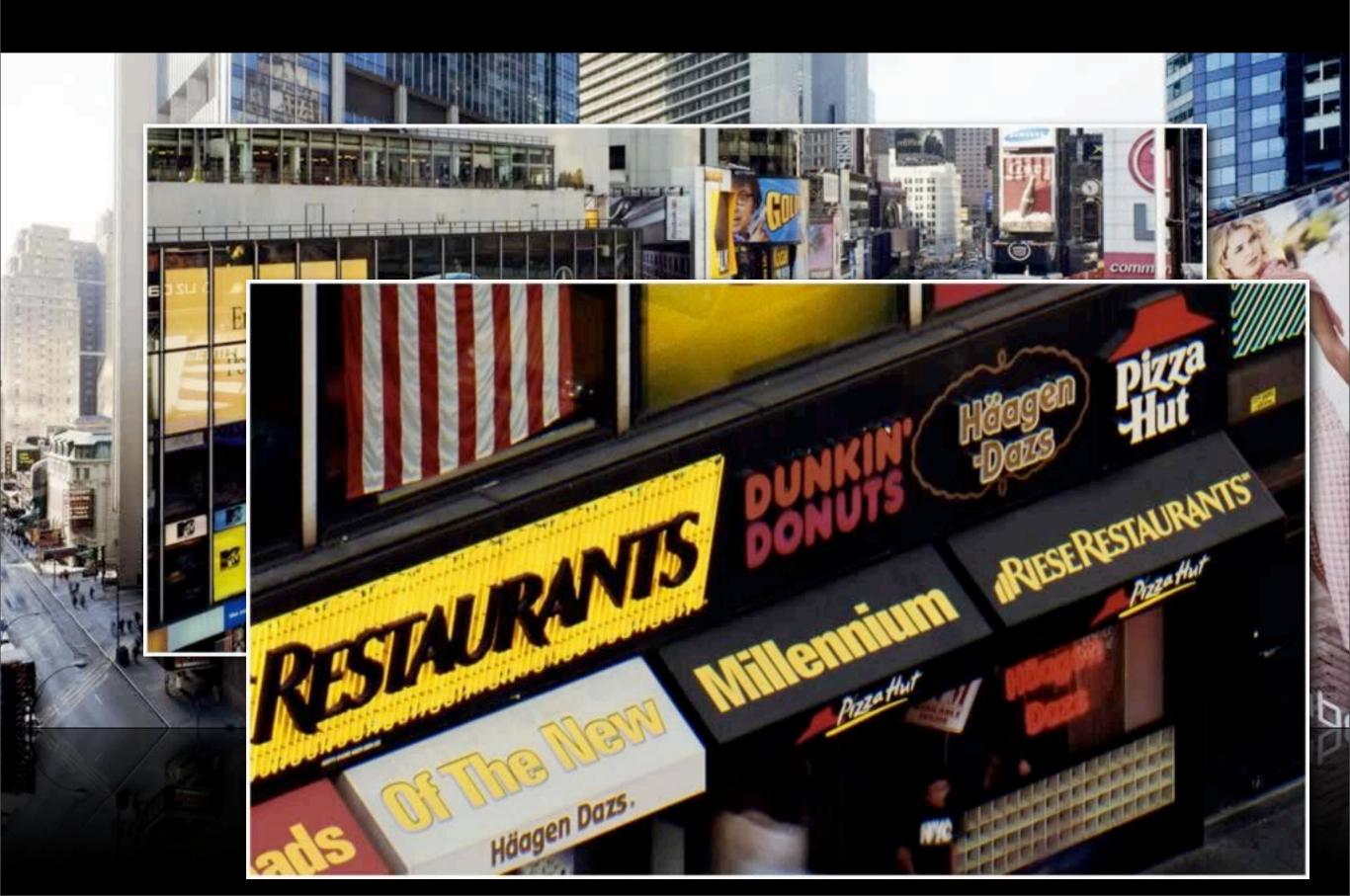
# Defying Cataloging

- Living Documents, Wiki's
- Gigapixel Images
  - "It would take a video wall of 10,000 television screens or 600 prints from a professional digital SLR camera to capture as much information as that contained in a single Gigapixil exposure."

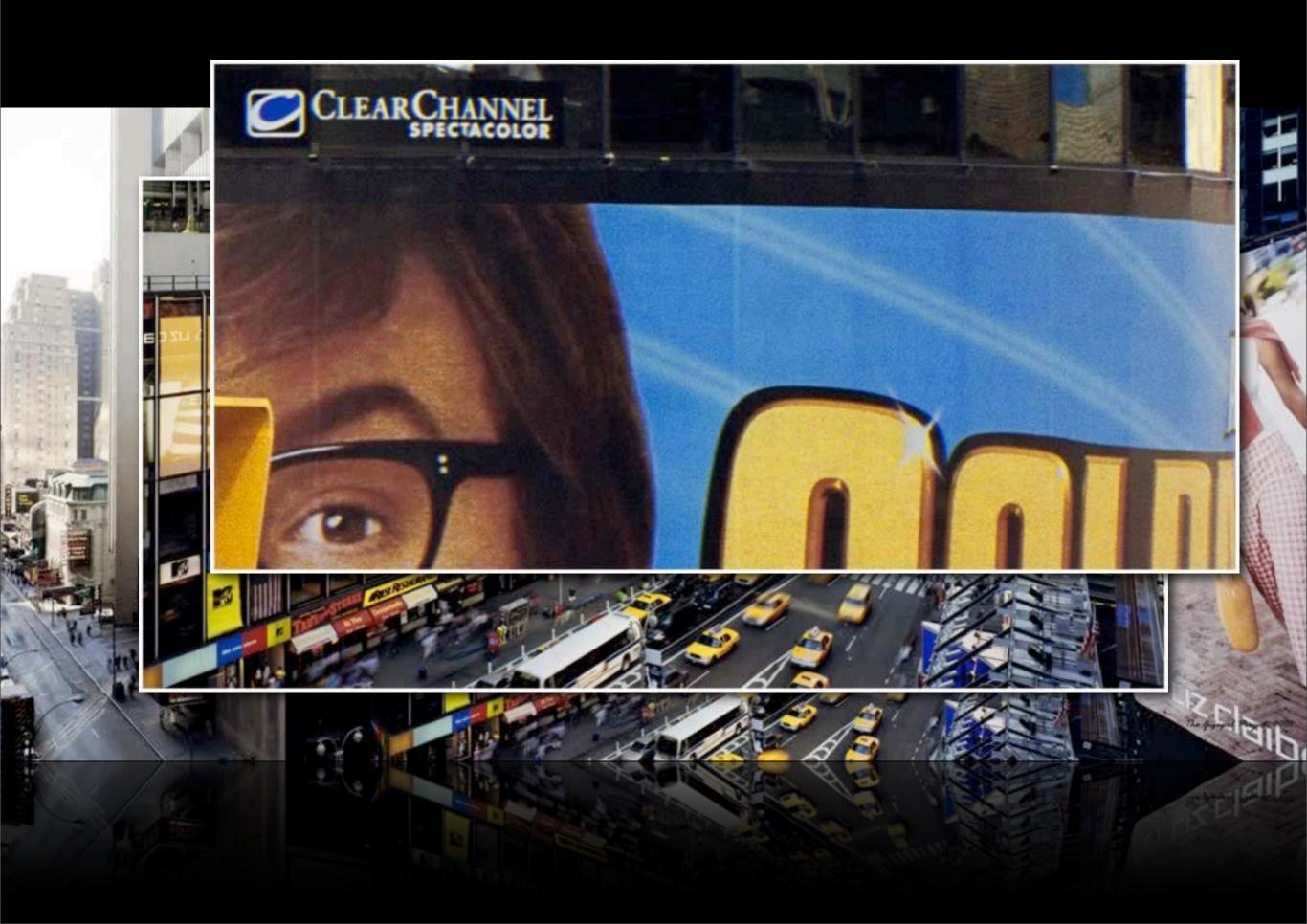
-http://www.gigapxl.org/





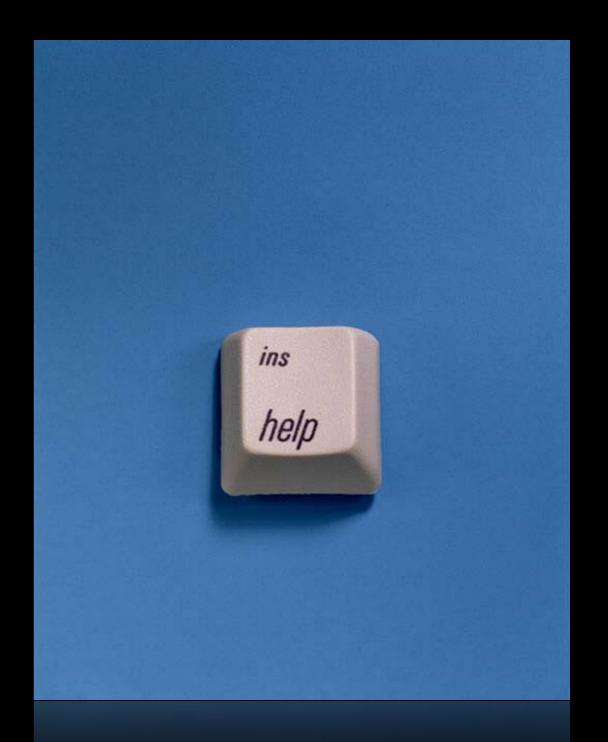




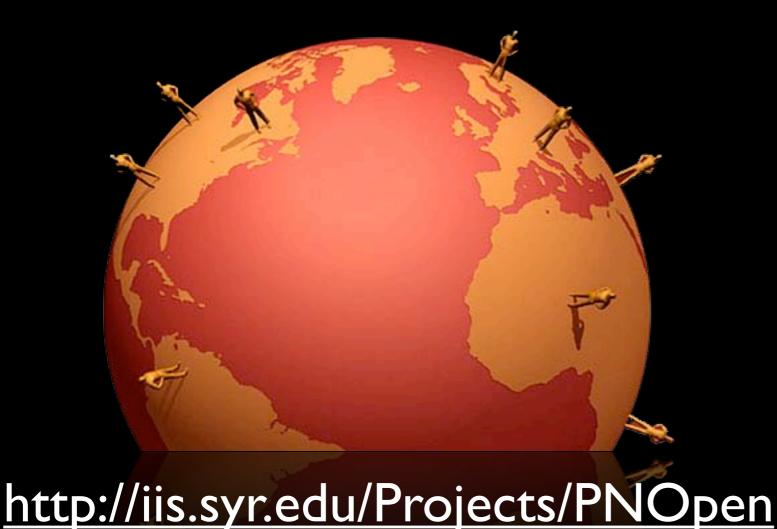


### A Call for Help

- Expand and Enhance Current Library Practice
- Go Beyond a focus on Artifacts and Items
- See Richness and Structure Beyond Metadata
- At the Core of the Library



## Participatory Librarianship

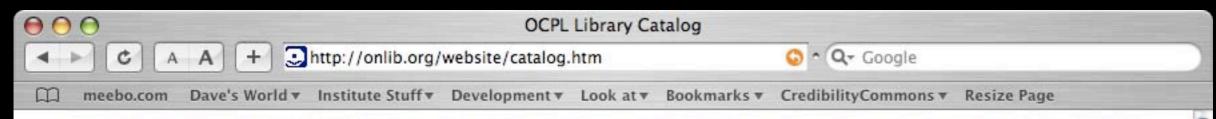


- Artifacts (Books, Video, Web Pages) are Simply By-Products
- Item Focus Must be Replaced by Conversation Focus
- Conversations Should be Two-Way

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**ABOUT OCPL** 



Onondaga County Public Library

## **Library Catalog**

## Catalogs

## Search the Catalog

Search for books, DVDs, videos, CDs, cassettes, and more.

## Search the Digital Catalog

Search and download books, audiobooks and music to your personal computers and devices. **NOTE:** You will need your 14-digit library card number

as well as your PIN number. Please call 315-435-1904 for questions regarding your PIN.



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## **Help Topics**

## How to Check My Account View your library account information.

## How to Place a Hold

Place holds on items and have them sent to your local library for pickup.

## How to Renew Items

Renew borrowed items for an additional loan period.

## How to Suggest Materials for the Collection

To Suggest items that you would like to see added to the OCPL collection, please send title, author and any additional information you can provide to: collection\_development@onlib.org

## **Interlibrary Loan**

If the item you want is not available in the OCBL catalog, you can request it through Interlibrary Lean

Interlibrary Loan

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Associations       Spelling variants         Translations       Spelling variants <ul> <li>Marry Potter and the sorcerer's stone</li> <li>J.K. Rowling, Mary GrandPre</li> <li>Rescued from the outrageous neglect of his aunt and uncle a young boy with a great destiny proves his worth while attending Hogwarts School for Wizards and Witches</li> <li> <ul> <li>Magic (96)</li> <li> <ul> <li>Wizards (89)</li> <li> <ul> <li>School of Witchera and Witches</li> <li> <ul> <li>Magic (96)</li> <li> <ul> <li>Wizards (89)</li> <li> <ul> <li> <ul> <li>             Hogwarts School of Witchera and Witches</li> <li>             Hogwarts School of Witchera and Witches</li> </ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>	iscover	harry potter	Search	Precision Search      Print      Help
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wizard stone witchcraft harry potter	Scholastic, 1999, c1998 ISBN: Description: Notes:	059035342X (pbk.) : vi, 309 p. : ill. ; 20 cm. "First Scholastic trade paperback printin		ю.	
secret hogwarts	Summary:	Sequel: Harry Potter and the Chamber Rescued from the outrageous neglect of while attending Hogwarts School for Wit	of his aunt and uncle, a young	boy with a great destiny prov	es his worth
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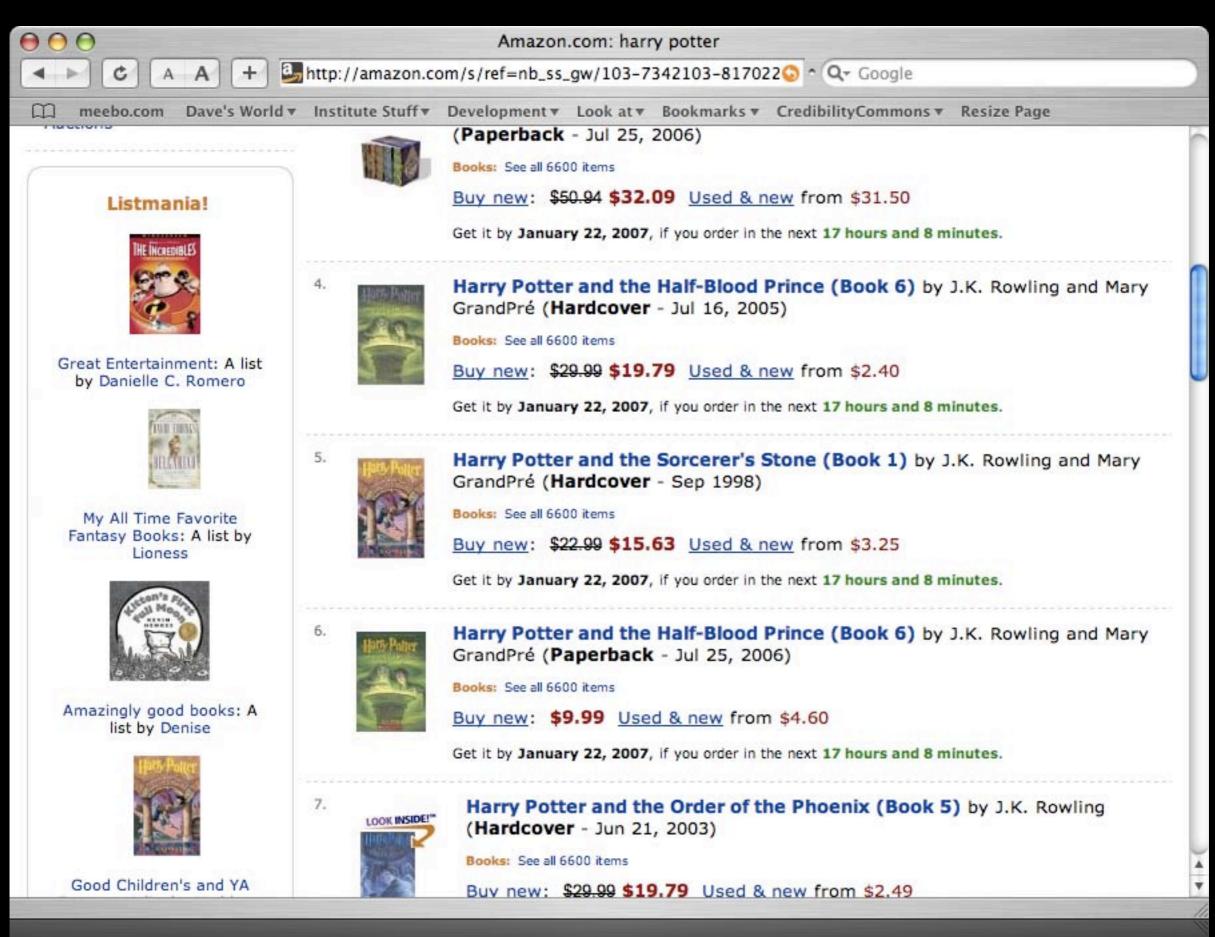
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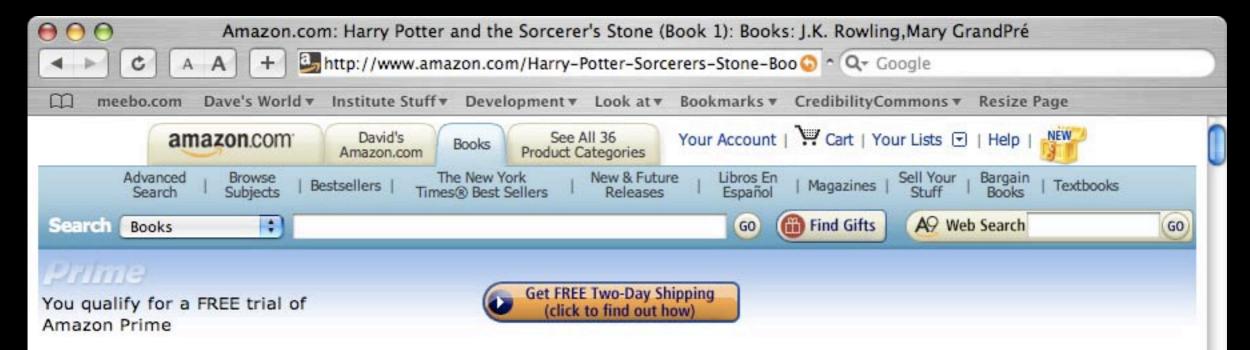
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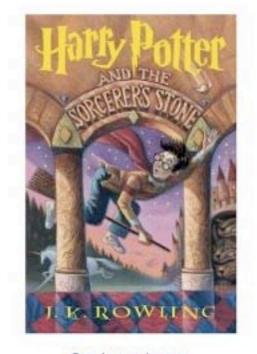
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Community Involvement

Traditional Reference Virtual Reference

Institutional Repository

Digital Collections

External Feeds and Sites

Databases

Bibliographic Catalogs

Recommendations

Use Data

Community Involvement	Hosted Services (Wikis, blogs, etc)		
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Institutional Repository	Digital Repository		
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Community Involvement	Hosted Services (Wikis, blogs, etc)	Community	
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## Examples of Conversations

- Citations and Scholarly Communication
- Law and Precedents
- Bibliometrics, Web of Science, Special Collections, Collection Development
  - It's There, Just Needs to be Exposed









#### Did it Rain June 18th in Yellowstone?





#### Did it Rain June 18th in Yellowstone? Yes

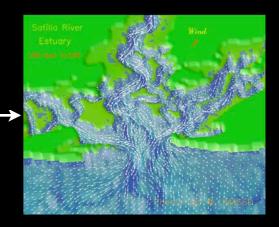






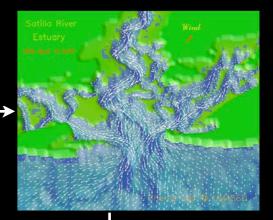


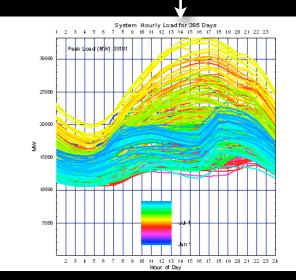






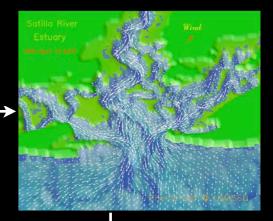


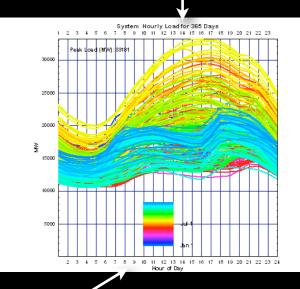








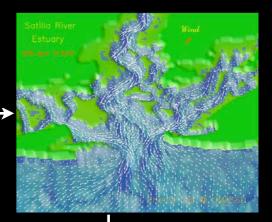


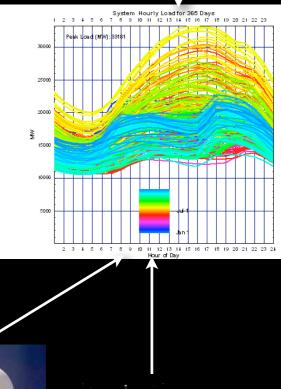




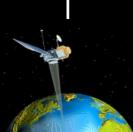






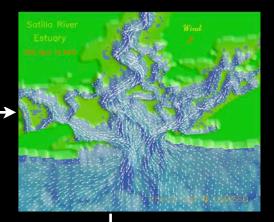


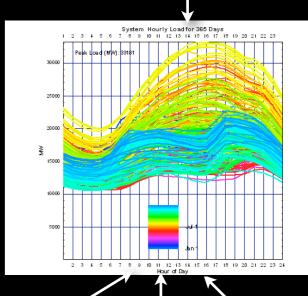










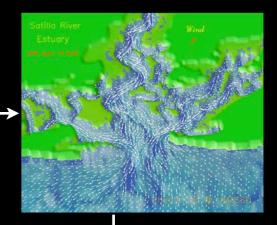


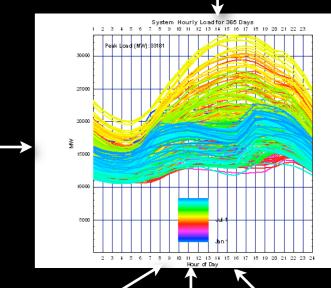










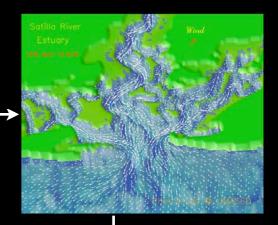






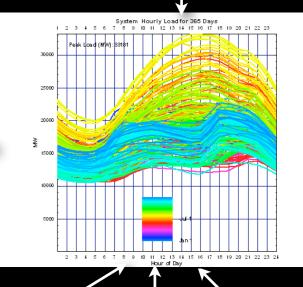










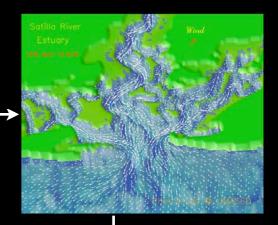








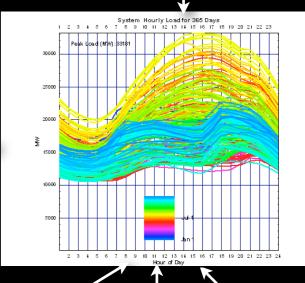










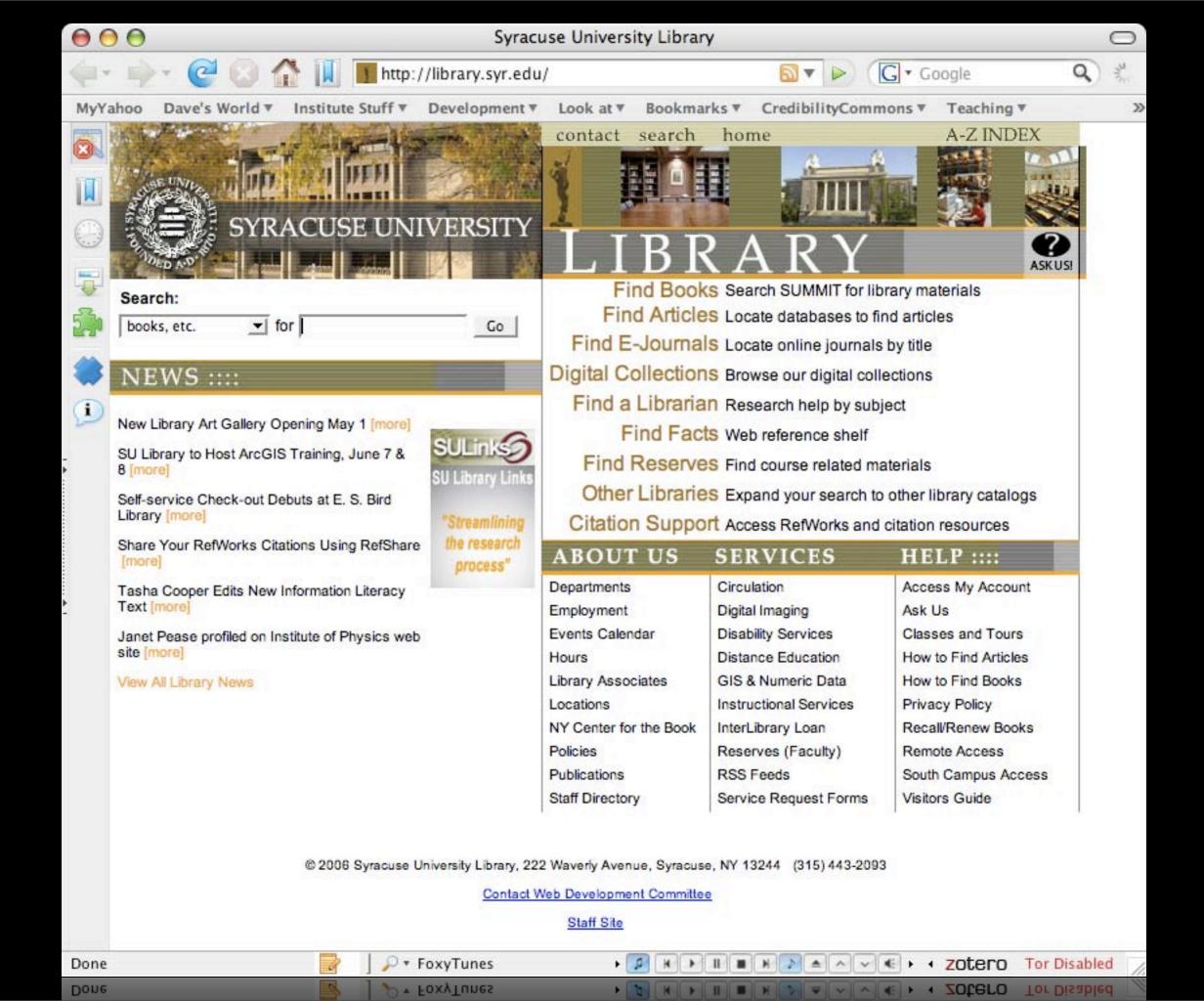






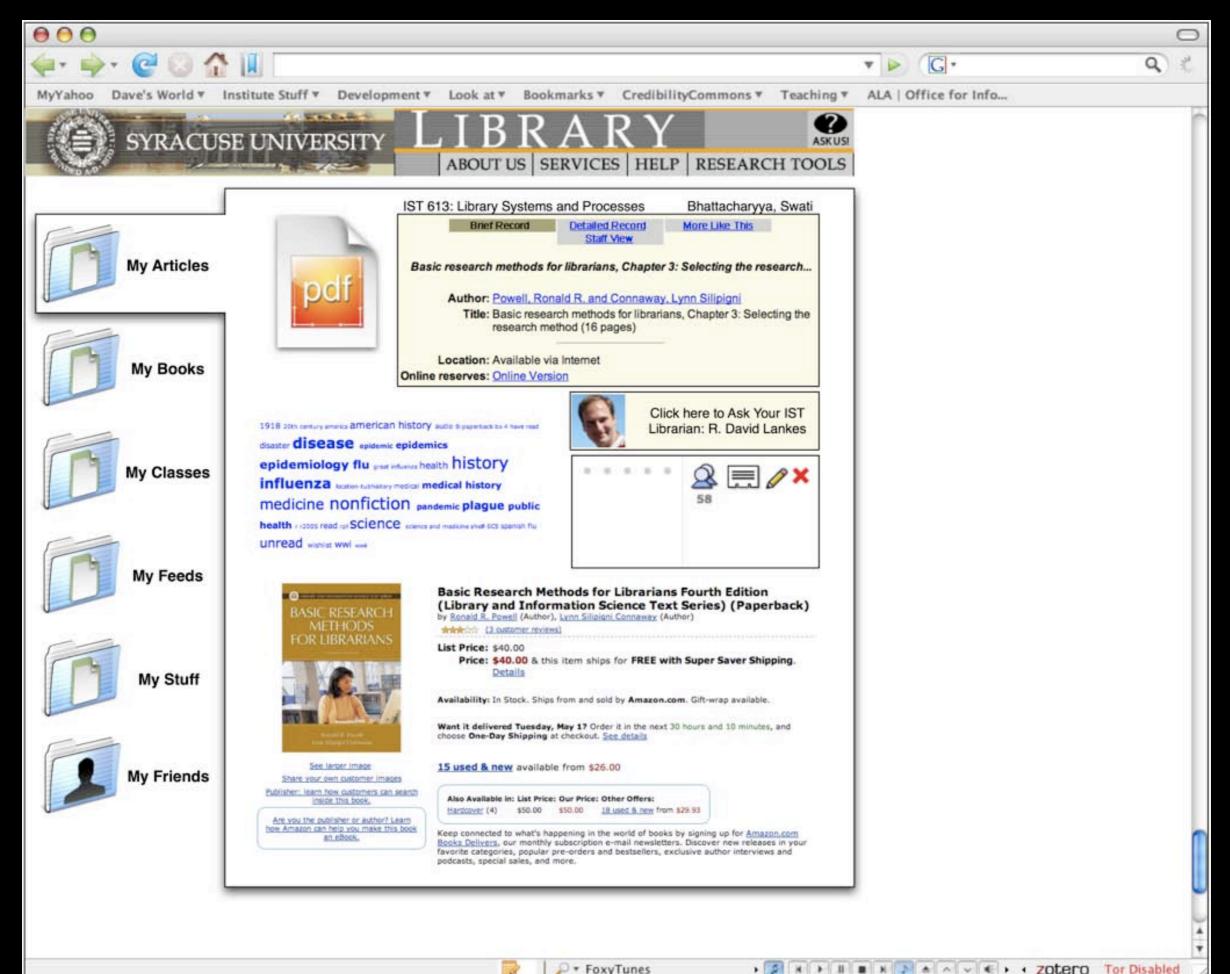
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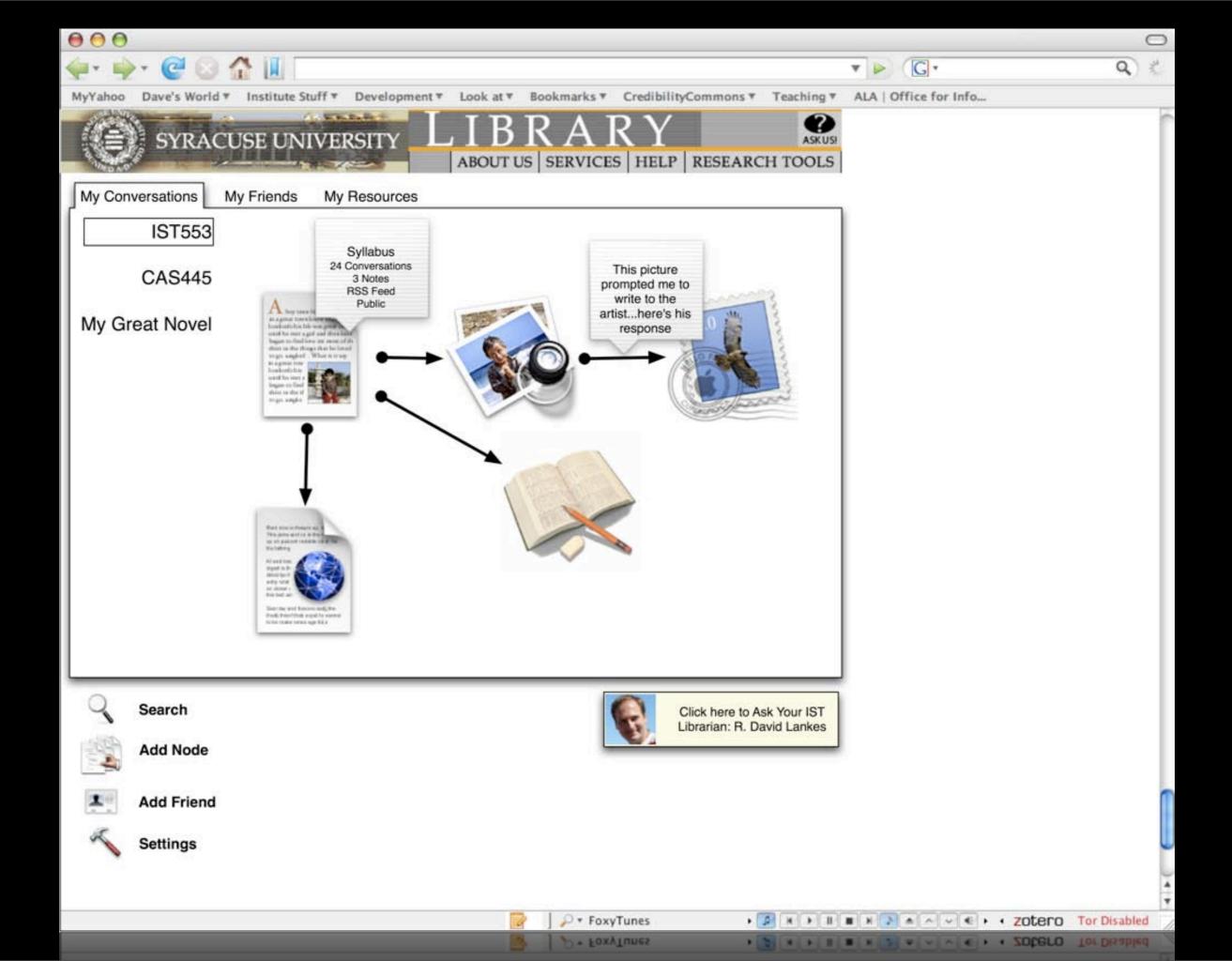


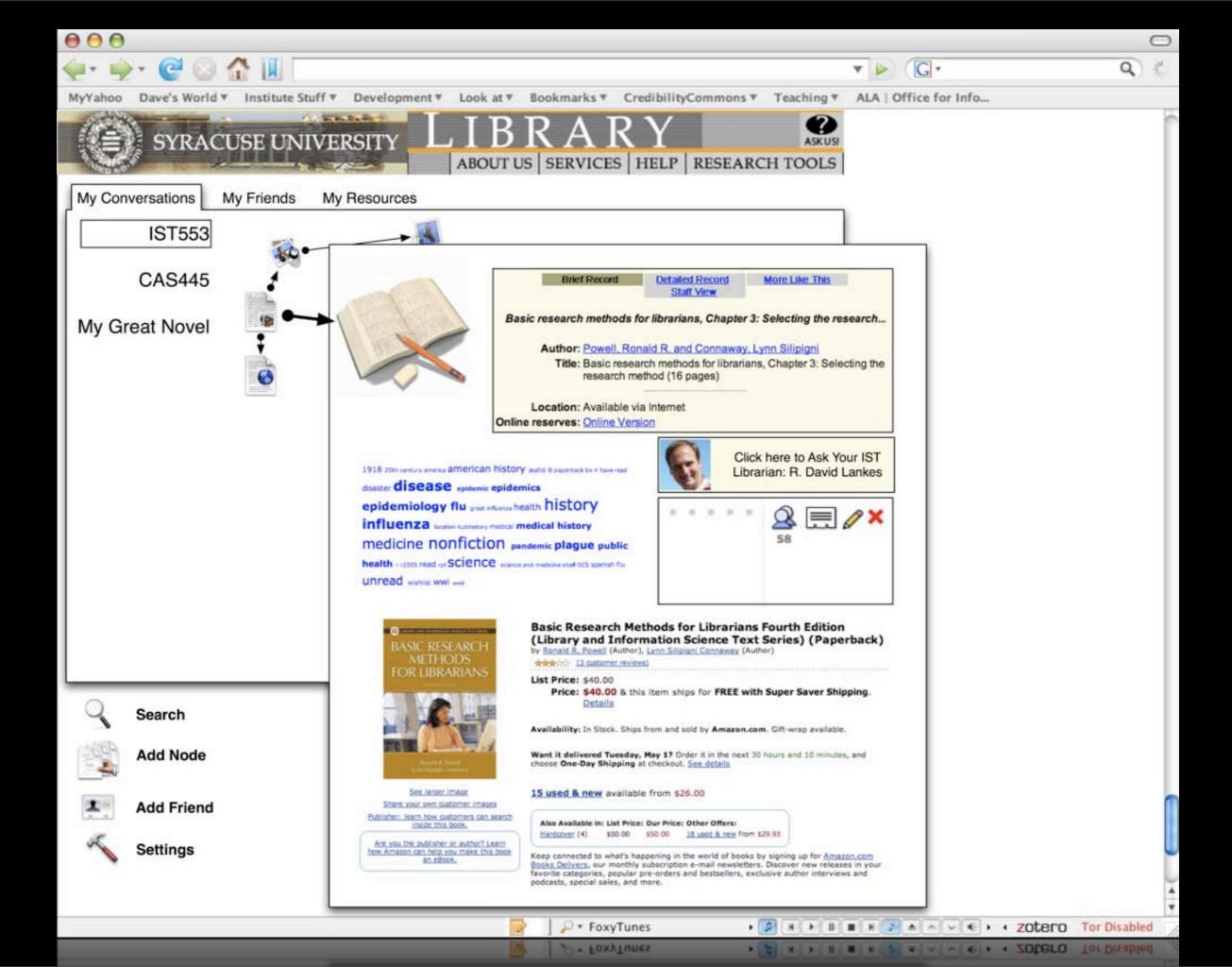


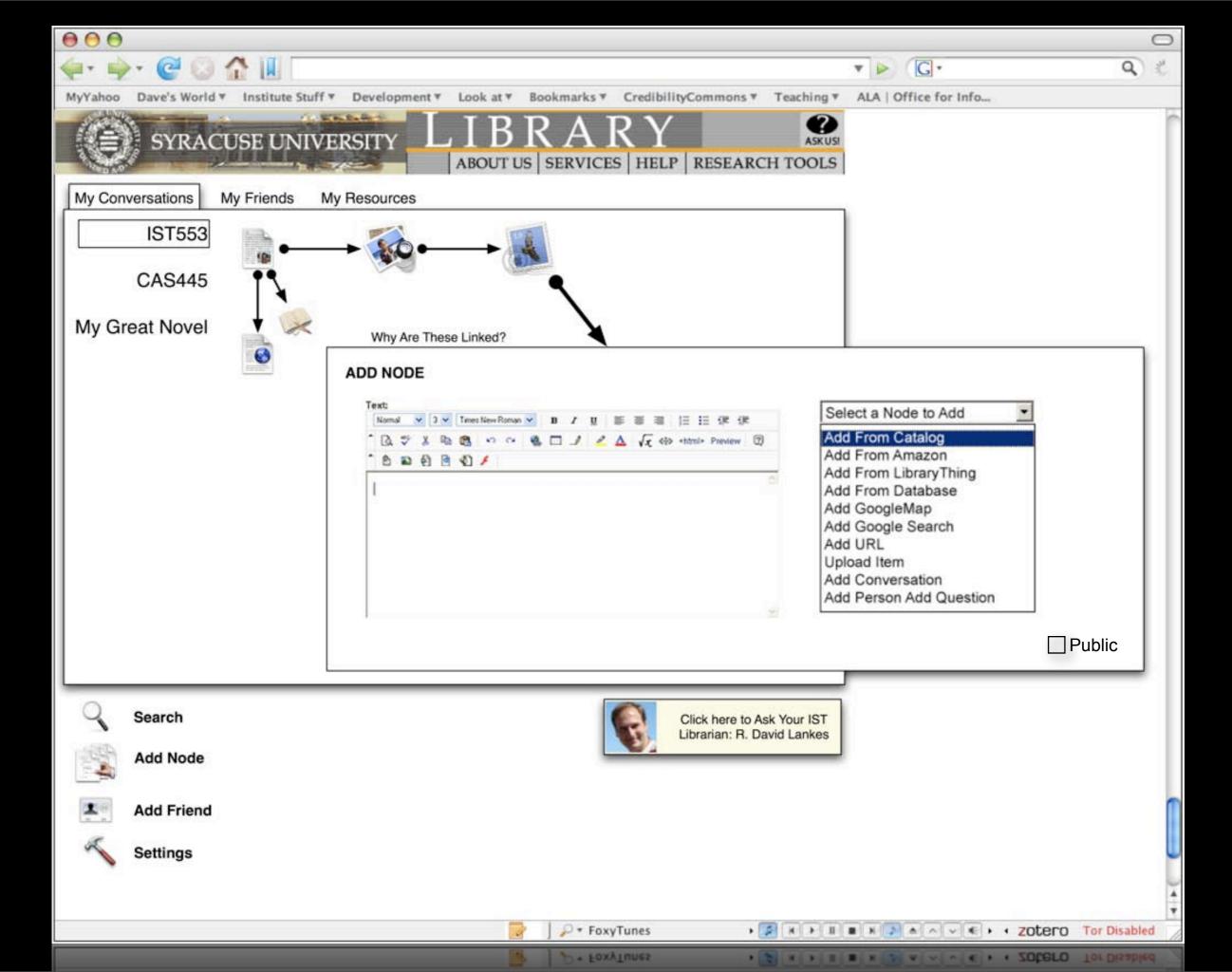
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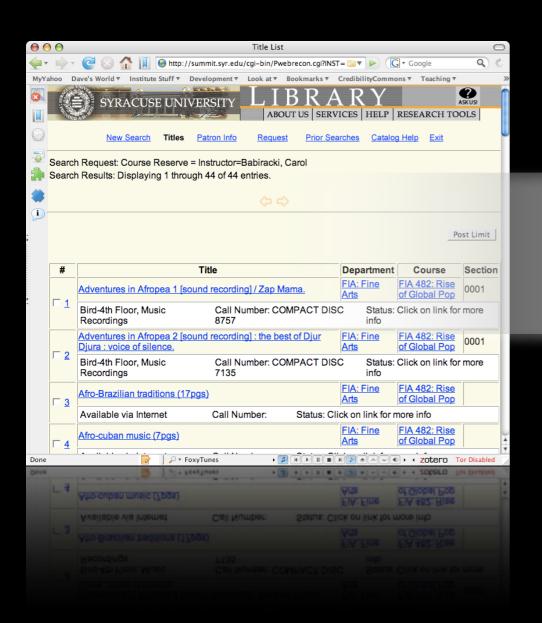


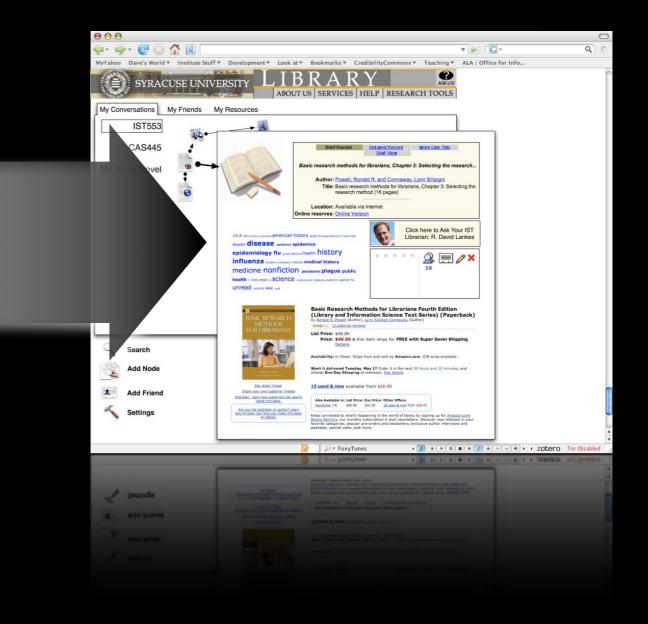
# Migration from Artifacts to Conversations

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# Migration from Artifacts to Conversations





# Recommendations: General

- Libraries must be active participants in participatory networking
- This must be done at the core of the library, not on the periphery
  - Anything less simply adds stress and stretches scarce resources even further

# Engage!

- To Ignore the Implications of Massive Scale Computing is Dangerous.
  - It Abdicates Serious Decisions and Consequences to Others
- Participatory Librarianship is an Opportunity to Not Only Enhance the Mission of the Library, but Proactively Position Librarians at the Forefront of the Information Field...Where they Belong