# OCLC Grid Services

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**Senior Program Officer**

**OCLC Research**

OCLC™ The world's libraries. Connected.

# What is OCLC Grid Services?

- **Not grid *computing*, grid *services***
- **Web Services: machine-to-machine services**
- **But… “give SOAP a REST”**
- **Exposes data (e.g., MARC records) and services (e.g., related works) in machine-processable form**

# Why OCLC Grid Services?

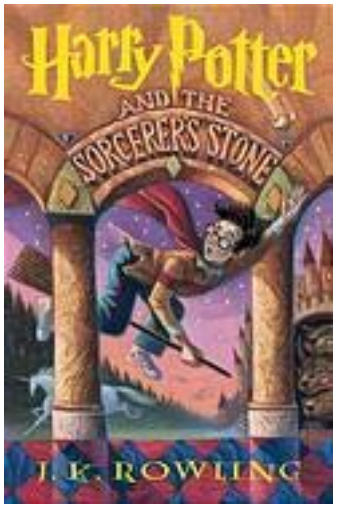
- Gain internal operational efficiencies
- Provide added value to member libraries
- Develop community to advise us on external needs and priorities

# OCLC Grid Services

- Examples of Grid Services:
  - Identifier Services (e.g., xISBN, xISSN)
  - Registry Services (e.g., Institution Registry)
  - Experimental Services (e.g., Terminologies, often coming out of OCLC Research)
  - WorldCat Search API
- Support Service: Developer Network

# xISBN

- **Find all related editions of a book or serial**
- **Easily incorporated into library catalogs, Web sites, and other library applications**

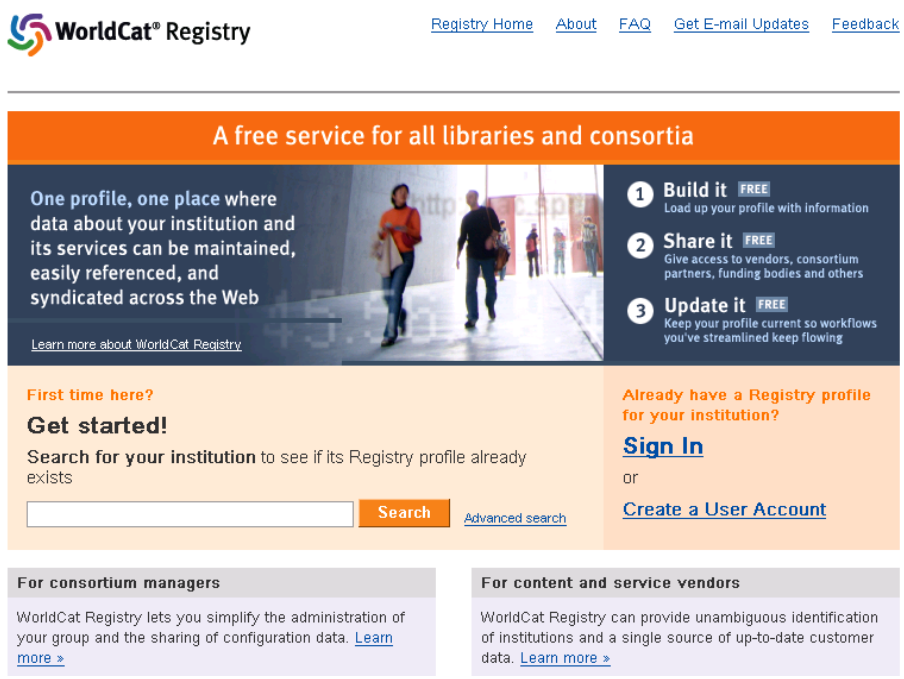



**100+ ISBNs for *Sorcerers Stone***

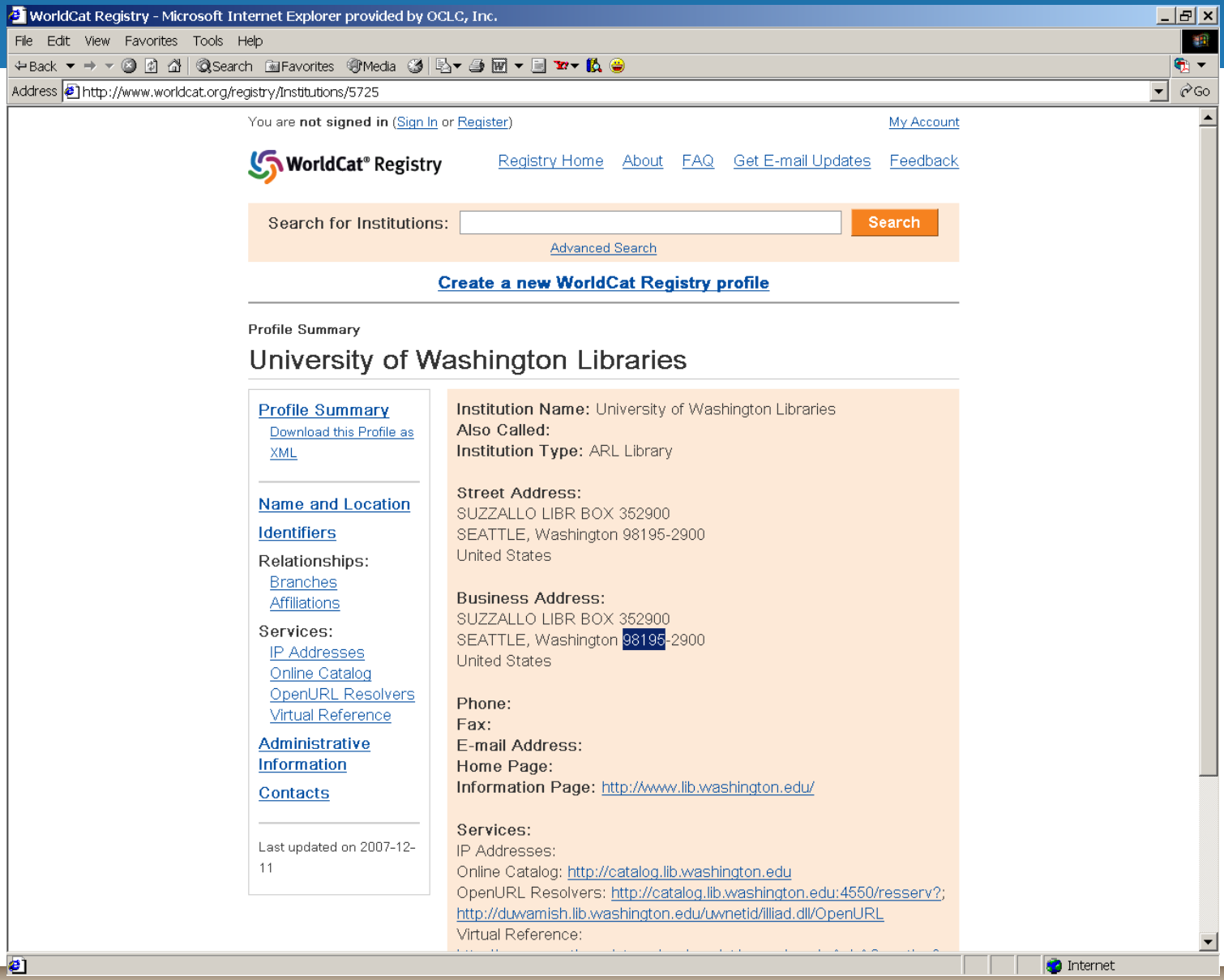
**32 English (US and UK)**
**9 Spanish**
**3 Russian, German, Finnish , Latin**
**2 Chinese, Czech, French, Korean, Norwegian, Persian, Polish, Portuguese, Romanian, Turkish, Welsh,**
**1 Afrikaans, Albanian, Armenian, Basque, Bengali, Georgian, Galician, Gaelic, Ancient Greek, Greek, Gujarati, Hindi, Hungarian, Icelandic, Italian, Japanese, Latvian, Lithuanian, Malayalam, Sherpa, Slovenian, Swedish, Thai, Ukranian, Urdu**
**16 Audio**
**59 Book**

# WorldCat Registry
# www.worldcat.org/registry/institutions

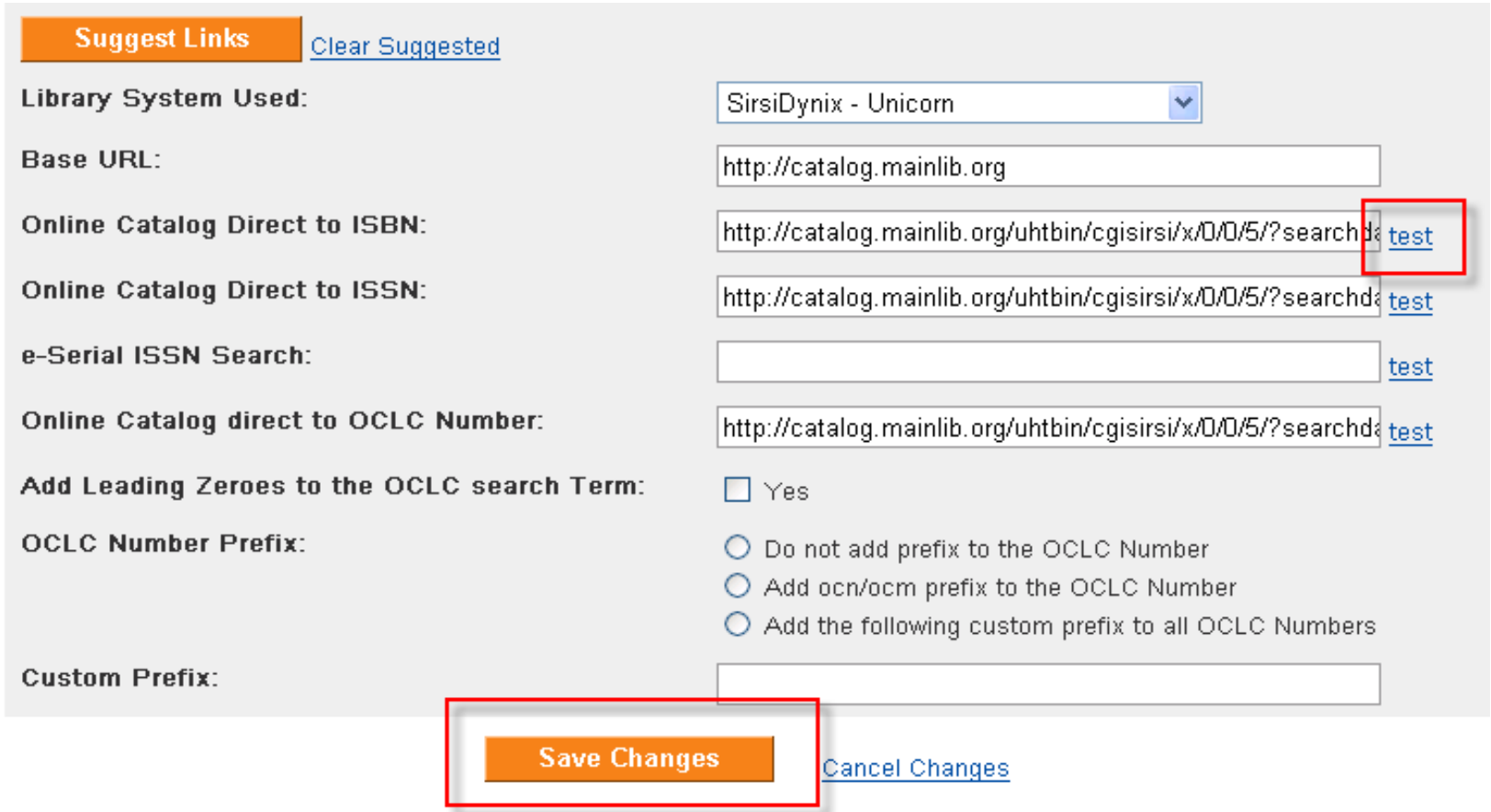
- A global directory of libraries, their locations, contacts, and the services they provide
- Free for all libraries to maintain and share with partners
- Pre-populated with data we already have, augmented by libraries and partners
- Centralized data essential for delivering content and services more efficiently on the Web



# Registry Profile Example



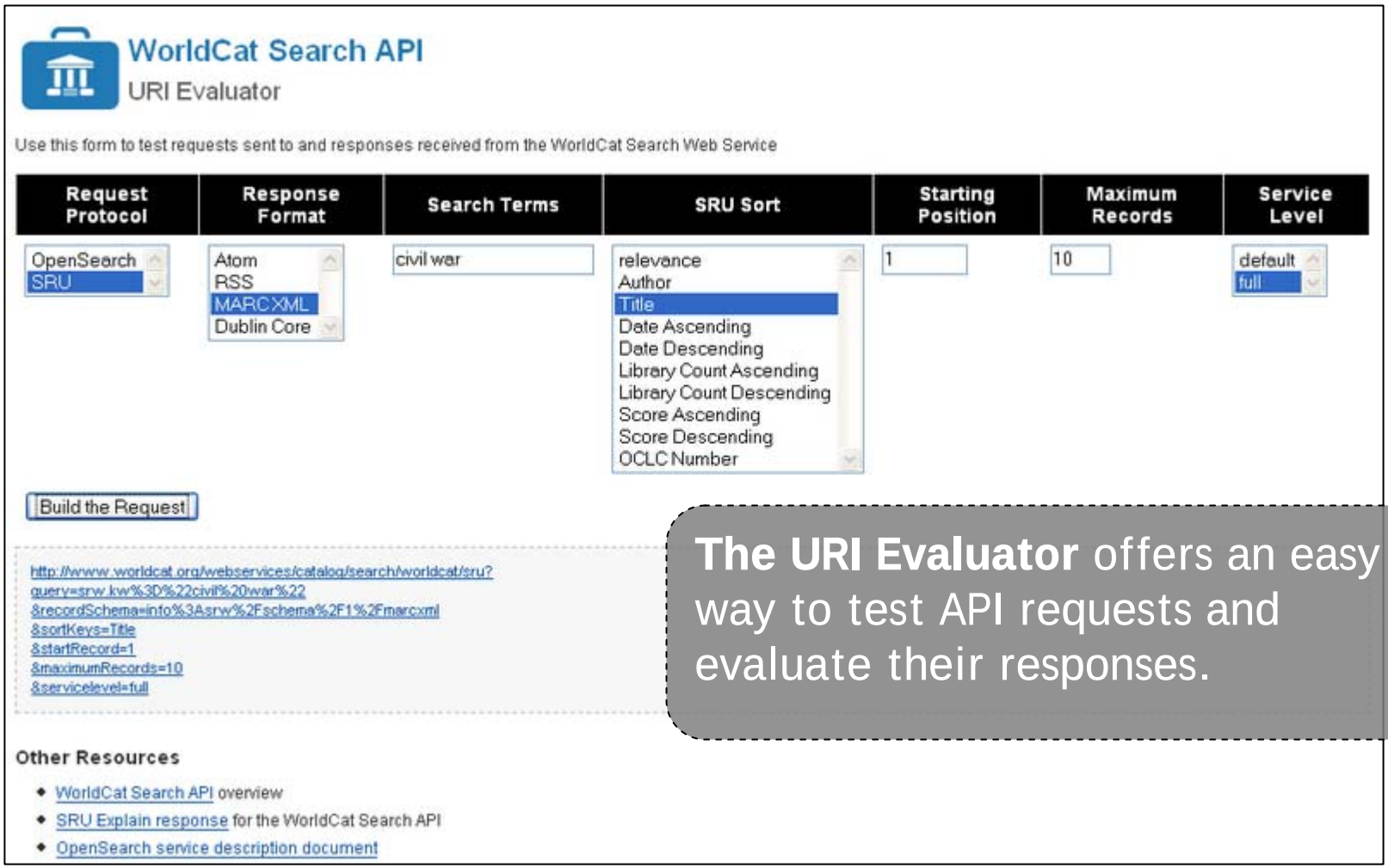
# Registry Deep Links



# The WorldCat Search API

- Searches with familiar protocols: OpenSearch and SRU
- Returns results in XML: RSS, Atom, MARC21 XML, Dublin Core
- Sorts library locations geographically (using a zip code, an IP address that is associated with a location, or a country)
- Can reformat records as standard citations … APA, Chicago, Harvard, MLA, and Turabian

# Test Requests and Responses

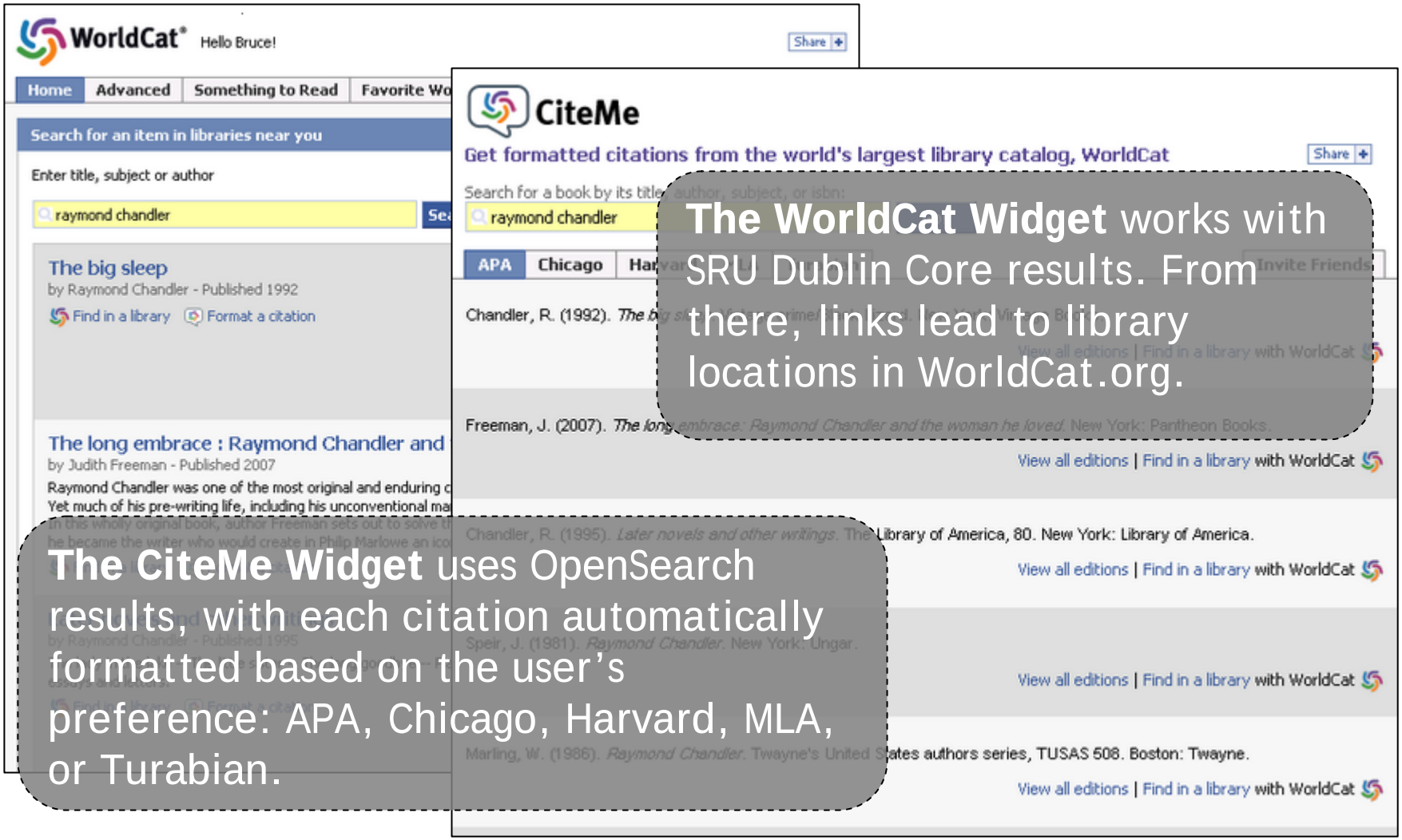



**The URI Evaluator** offers an easy way to test API requests and evaluate their responses.

# Demo: include WorldCat.org book links in a web site sidebar

# Demo: highlight citations, summaries, and local libraries

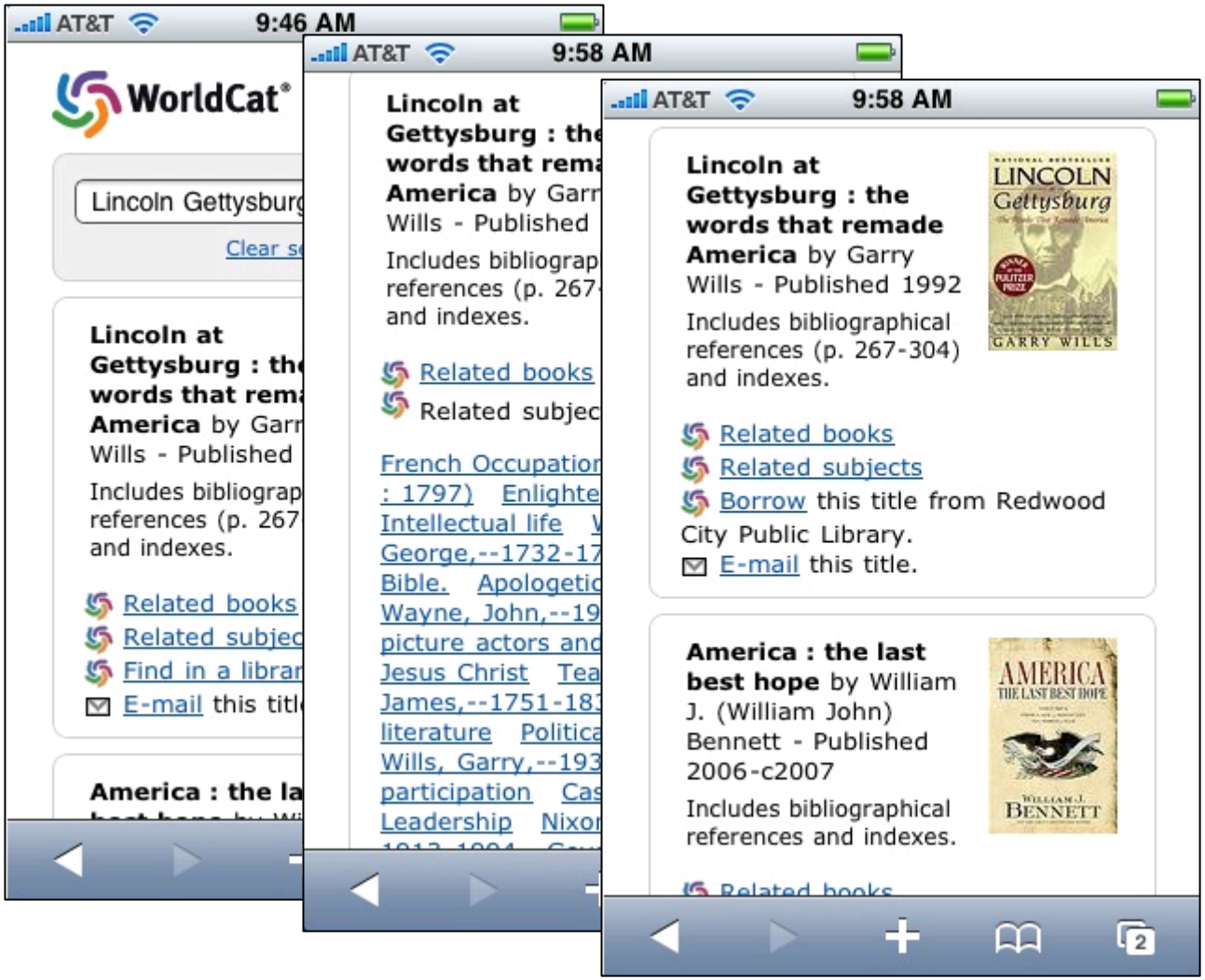
# WorldCat Search API and Facebook



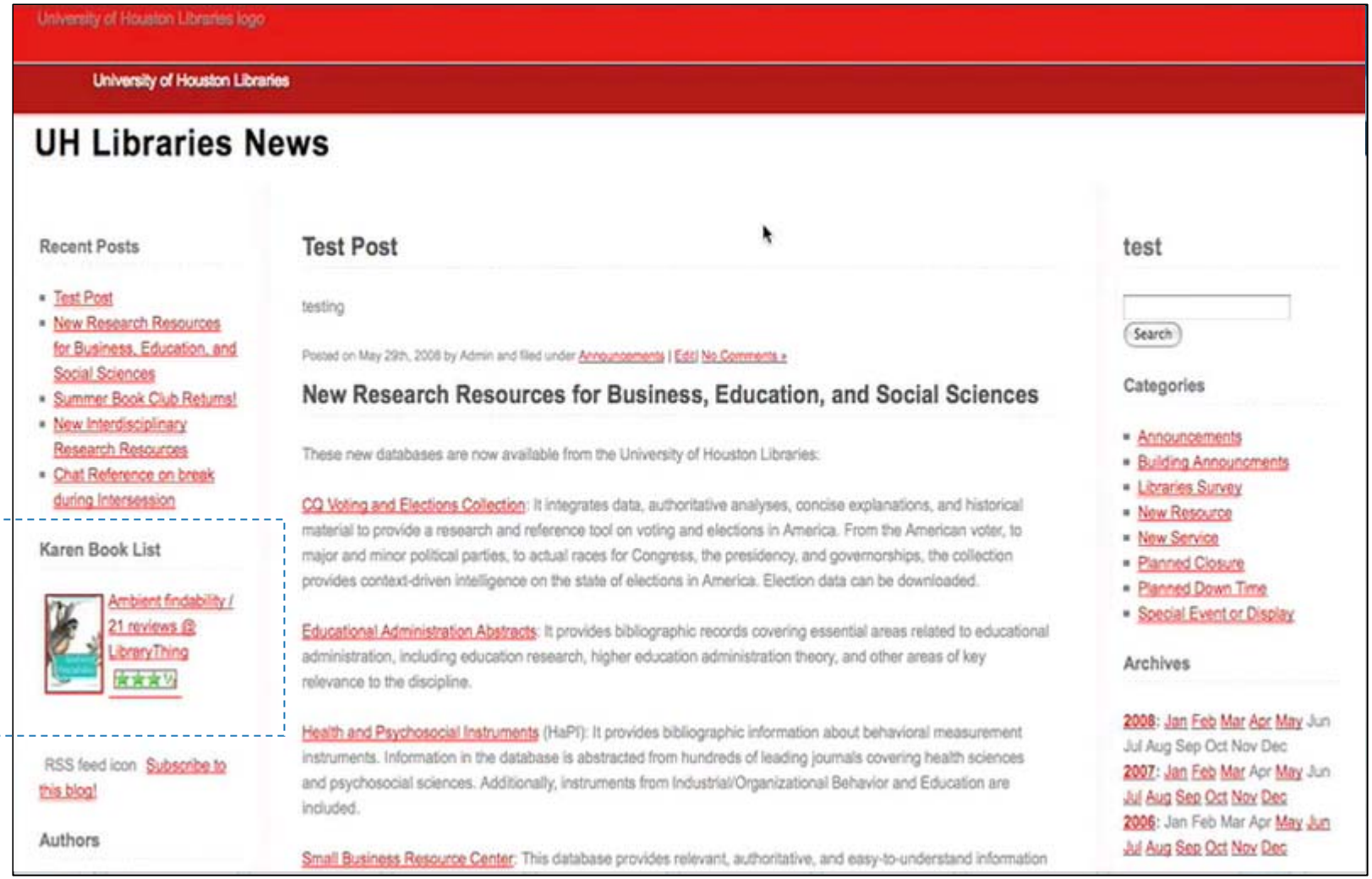

**The WorldCat Widget** works with SRU Dublin Core results. From there, links lead to library locations in WorldCat.org.

**The CiteMe Widget** uses OpenSearch results, with each citation automatically formatted based on the user's preference: APA, Chicago, Harvard, MLA, or Turabian.

# WorldCat Search API and the iPhone



# Karen Coombs' WordPress Widget



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By Obama, Barack.
Published: (1995)

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By Obama, Barack.
Published: (2006)

The status of the Negro, from a Negro's standpoint, in his own dialect. A thrilling tragedy in the days of reconstruction. Anniversary of my seventy-sixth birthday. Read before the Little Rock medical society
By Nash, Charles Edward.
Published: (1900)

Places of their own : African American suburbanization in the twentieth century
By Wiese, Andrew.
Published: (2004)

Fighting words : Black women and the search for justice
By Collins, Patricia Hill, 1948-
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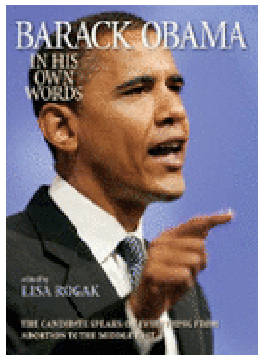
# Barack Obama in his own words /
edited by Lisa Rogak.




More Info

| | |
|---|---|
| Main Author: | Obama, Barack. |
| Other Authors: | Rogak, Lisa, 1962- |
| Language: | English |
| Published: | New York : Carroll & Graf, c2007. |
| Subjects: | Legislators > Quotations. > United States<br>African American legislators > Quotations.<br>Obama, Barack > Quotations. |
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Holdings: Barack Obama in his own words /

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By: Nash, Charles Edward.
Published: (1900)

Places of their own : African American [illegible]
By: Wiese, Andrew.
Published: (2[illegible]

[illegible] search for justice
By: Collins, Patricia Hill, 1948-
Published: (1993)

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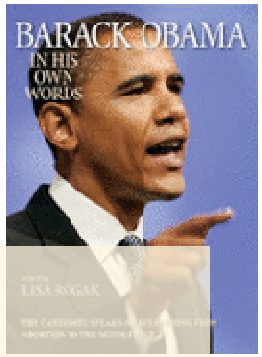


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Links to other catalogs
Could add "GoogleMaps" link too

# Data Services: SRU Record Update

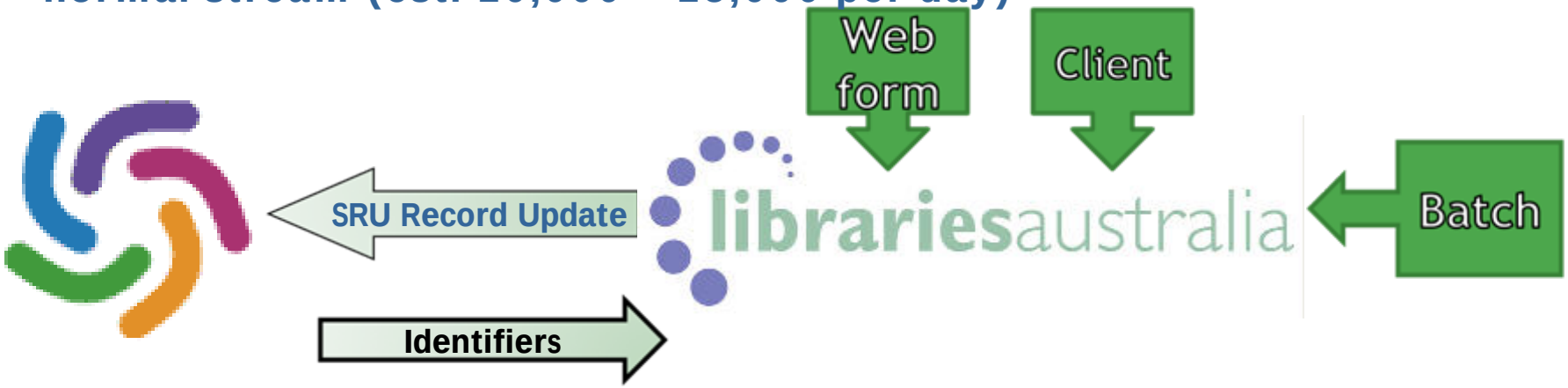
## Batch Loading to WorldCat April 2008 ++

- Australia contributed 17 million records, 4.4 million new to WCat

## Near Real Time Update

target < 5 secs.

- NLA Live date 16 January 2009
- backlog stream (est. 230,000 transactions since Dec 5 2008)
- normal stream (est. 10,000 – 15,000 per day)



# EZproxy – Key Features 5.1

- Remote users authenticated to use licensed databases
- Enables EZproxy to act as a Shibboleth 1.3/2.0 service provider
- Enhanced facilities for implementing complex authentication and authorization policies
- Simplifies SSL certificate management
- Incorporates RedirectSafe (directive) for URL's in which users can be redirected instead of proxied.

# WorldCat Grid – Coming Up

- Hosted EZproxy Pilot
- Updates to WorldCat API & xID services
- Data Services Bundle (validation, terminologies, crosswalks)
- European Hackathon (end of April or early May?

Stay tuned to Developer Network for details…

# Developer Network

- Documentation (wiki)
- Communication (blog, discussion list)
- Infrastructure for collaboration (wiki, code repository)
- Web services pilots
- Sponsorship of events (e.g., Hackathon)

http://worldcat.org/devnet

# WorldCat Hackathon, New York Public Library

OCLC™

Navigation
- Home Page
- Services
- Blog
- Recent changes
- Random page
- Help

Search
Go Search

toolbox
- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

# WorldCat Developer's Network

[edit]

The WorldCat Developer's Network is a community of developers collaborating in a "sandbox" environment in order to propose, discuss and test WorldCat Grid Services. This open source, code-sharing infrastructure improves the value of OCLC data for all users by encouraging new Grid Service uses.

The W

http://worldcat.org/devnet/

- hel
- eng
- share software code with other network members and the community-at-large in an open source environment; and,
- provide feedback points for the library community to engage with.

**How do I participate in the Network?**

- **Coming!** WorldCat Hackathon, November 7-8 at the New York Public Library!
- Membership in the network is open to any developer in the library services industry, and to any other informed, interested user of library services.
- There is no charge to be a member of the network.
- OCLC hosts this wiki space and a blog for members to use for communication and code posting.
- OCLC hosts the Developer's Network Listserv. To subscribe, visit this page and look for WC-DEVNET-L at the bottom. Participation in mailing lists is open to anyone, as is access to any information on the Developer's Network web site.

## Learn more about OCLC Grid Services

[edit]

Including... WorldCat API, xID services, Registry services