UKSG Serial Resource Management for 21st Century
Getting Technical - Linking

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MIMAS

The University of Manchester

MIMAS Manchester Information & Associated Services

Primary funding is provided by the JISC and ESRC.
Based at Manchester Computing, The University of Manchester.

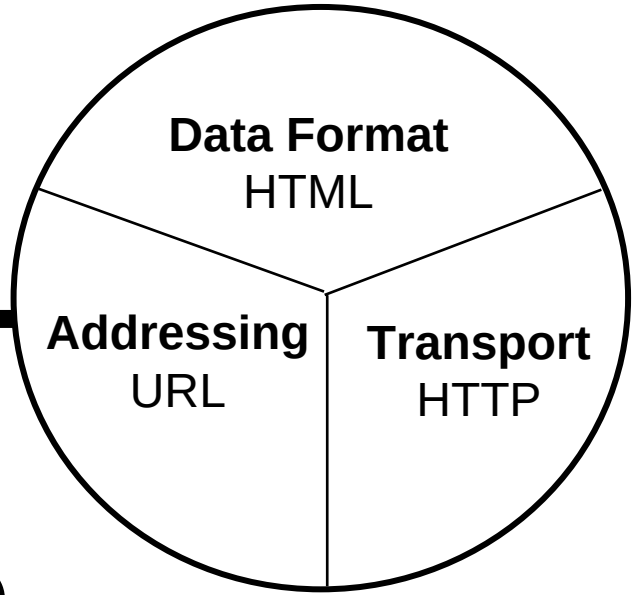
UKSG United Kingdom Serials Group

A mixed bag of jargon

- The basics of the web
- Linking
  - DIY
  - DOI & CrossRef
  - OpenURL
- Open Archives Initiative – ‘e-prints’
- Usage statistics
- What’s Next?

How does the Web work?

(currently)



3 simple protocols:

Data Formats

HTML (HyperText Markup Language) provides the data format for native documents

Addressing

URLs (Uniform Resource Locator) provides an addressing mechanism for web resources

Transport

HTTP (HyperText Transfer Protocol) defines transfer of resources between client and server

Brian Kelly, Web-Focus, UKOLN

How does the Web work?

The Netsoft home page

1 User clicks on link to the address (***URL***)
http://www.netsoft.com/hello.html

2 Browser converts link to ***HTTP*** com
Connect to computer at `www.nets`
`GET /hello.html`

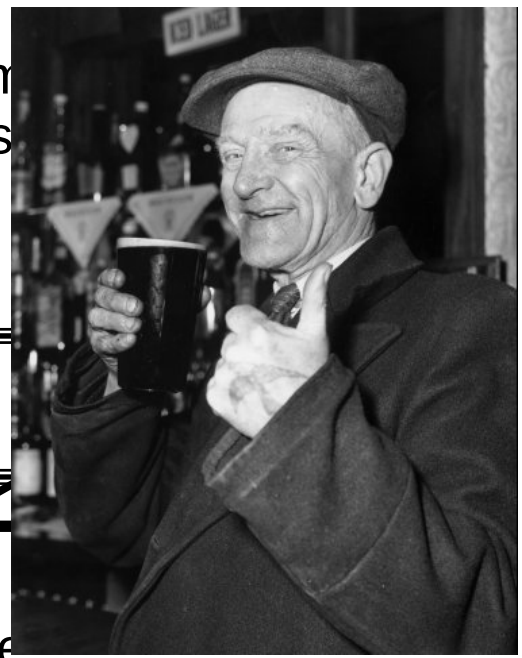
3 Remote computer sends file

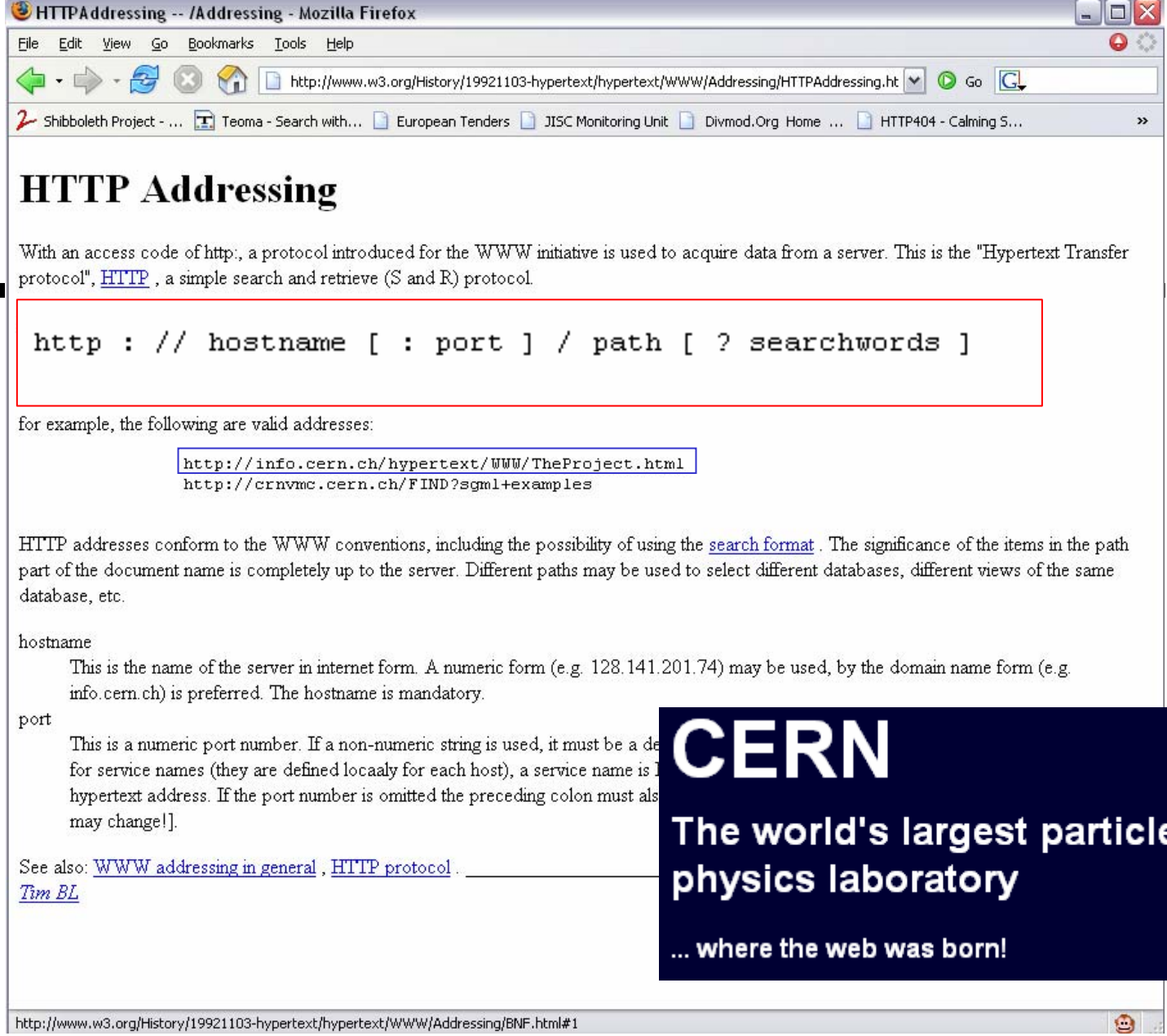
```
<HTML>
<TITLE>Welcome</TITLE>..
<P>Welcome to <B>Netsoft
</B>
```

Welcome to **Netsoft**

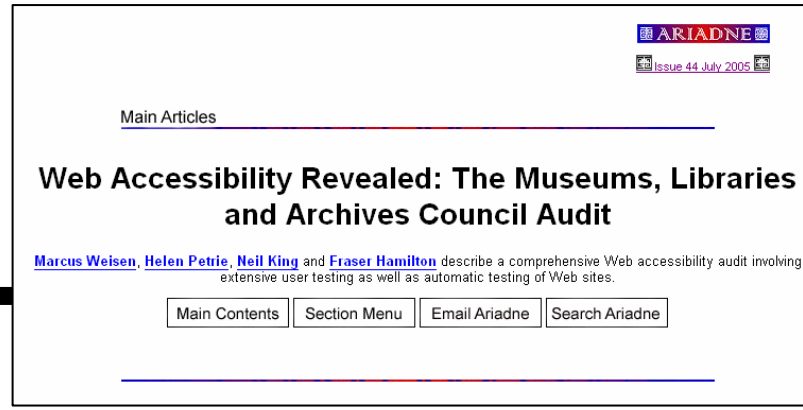
Web Browser

4 Local computer displays **HTML** file




HTTPAddressing -- /Addressing - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://www.w3.org/History/19921103-hypertext/hypertext/WWW/Addressing/HTTPAddressing.ht
Go
Shibboleth Project - ...
Teoma - Search with...
European Tenders
JISC Monitoring Unit
Divmod.Org Home ...
HTTP404 - Calming S...
HTTP Addressing
With an access code of http:, a protocol introduced for the WWW initiative is used to acquire data from a server. This is the "Hypertext Transfer protocol", HTTP , a simple search and retrieve (S and R) protocol.
http : // hostname [: port] / path [? searchwords]
for example, the following are valid addresses:
http://info.cern.ch/hypertext/WWW/TheProject.html
http://crnvmc.cern.ch/FIND?sgml+examples
HTTP addresses conform to the WWW conventions, including the possibility of using the search format . The significance of the items in the path part of the document name is completely up to the server. Different paths may be used to select different databases, different views of the same database, etc.
hostname
This is the name of the server in internet form. A numeric form (e.g. 128.141.201.74) may be used, by the domain name form (e.g. info.cern.ch) is preferred. The hostname is mandatory.
port
This is a numeric port number. If a non-numeric string is used, it must be a de
for service names (they are defined locaaly for each host), a service name is
hypertext address. If the port number is omitted the preceding colon must als
may change!].
See also: WWW addressing in general , HTTP protocol .
Tim BL
CERN
The world's largest particle physics laboratory
... where the web was born!
http://www.w3.org/History/19921103-hypertext/hypertext/WWW/Addressing/BNF.html#1

URL-based Linking


ARIADNE

Issue 44 July 2005

Main Articles

Web Accessibility Revealed: The Museums, Libraries and Archives Council Audit

Marcus Weisen, Helen Petrie, Neil King and Fraser Hamilton describe a comprehensive Web accessibility audit involving extensive user testing as well as automatic testing of Web sites.

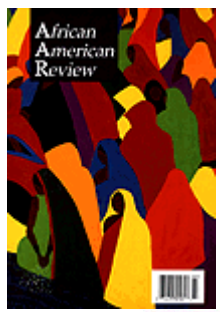
Main Contents | Section Menu | Email Ariadne | Search Ariadne

- explicit filename

  http://www.ariadne.ac.uk/issue44/petrie-weisen/intro.html

- derived filename, e.g. ISSN

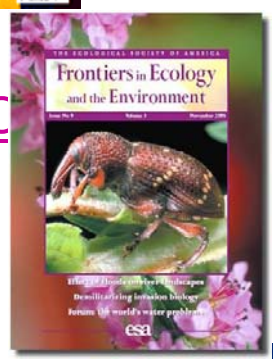
  http://www.jstor.ac.uk/journals/10624783.html



- script, e.g.

  http://links.jstor.org/sici?sici=1062-4783%28199223%2926%3A3%3C%3AFM%3E2.0.C

  http://www.esajournals.org/esaonline/?request=get-toc3&issn=1540-9295&volume=003&issue=09



Linking Mechanisms

The Digital Object Identifier (DOI):

- A unique identifier assigned to a digital object.

- A way of accessing an object (e.g. a full text article) without having to know its URL - the DOI identifies the object itself, not the place where it is stored.

- Persistent - as long as the object exists, so does the DOI.

DOI: Dumb Old Identifier

“Dumb” number - doesn’t relate to the object, couldn’t be guessed - like a phone number.

10.1000/1A3X-56BZ9

Prefix - given to the rights owner e.g. the publisher

Suffix - any unique alphanumeric string

<DIR>.<REG>/<DSS>

e.g. 10.1074/jbc.M004545200

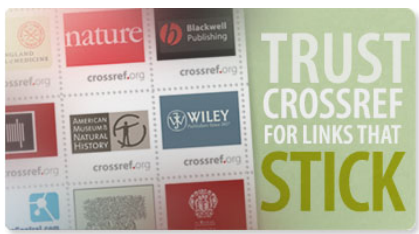
10.1136/bmj.38324.646574.AE

CrossRef/DOI resolution

DOI link

URL to Publisher

DOI ⇕ Metadata



crossref

http://dx.doi.org/10.1093/toxsci/57.1.95

OpenURL (ANSI/NISO Z39.88)

Pat Harris, Executive Director of NISO:

"One message we hear is that the new business model will be enabled by information technology with standards at the core. This is where NISO fits in. …over five hundred years ago Guttenberg fundamentally changed communication and learning.

Today NISO's challenge is to create those standards that will enable the modern day Gothenburg Moment. Could it be the OpenURL?"

OpenURL format ::= Base URL ? Query

Base-URL = web address of the link resolver i.e. the address to which the OpenURL is being sent

http://LinkFinderPlus.library.edu?genre=article&issn=1234-5678&volume=12&issue=3&spage=1&epage=8&date=1998&aulast=Smith&aufirst=Paul

Query = the metadata that the link resolver uses to identify and link to appropriate targets

“NOU” linking

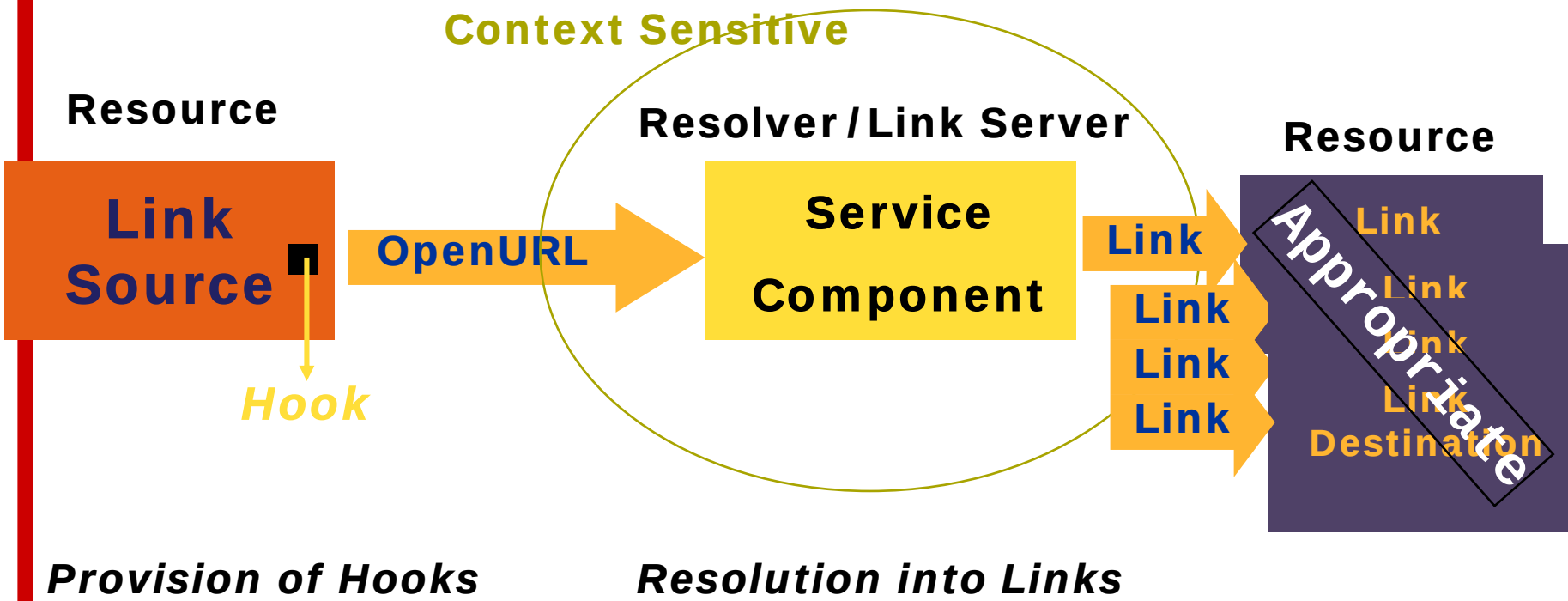
* NOU – non OpenURL

Provision of Links

Resolution of Links

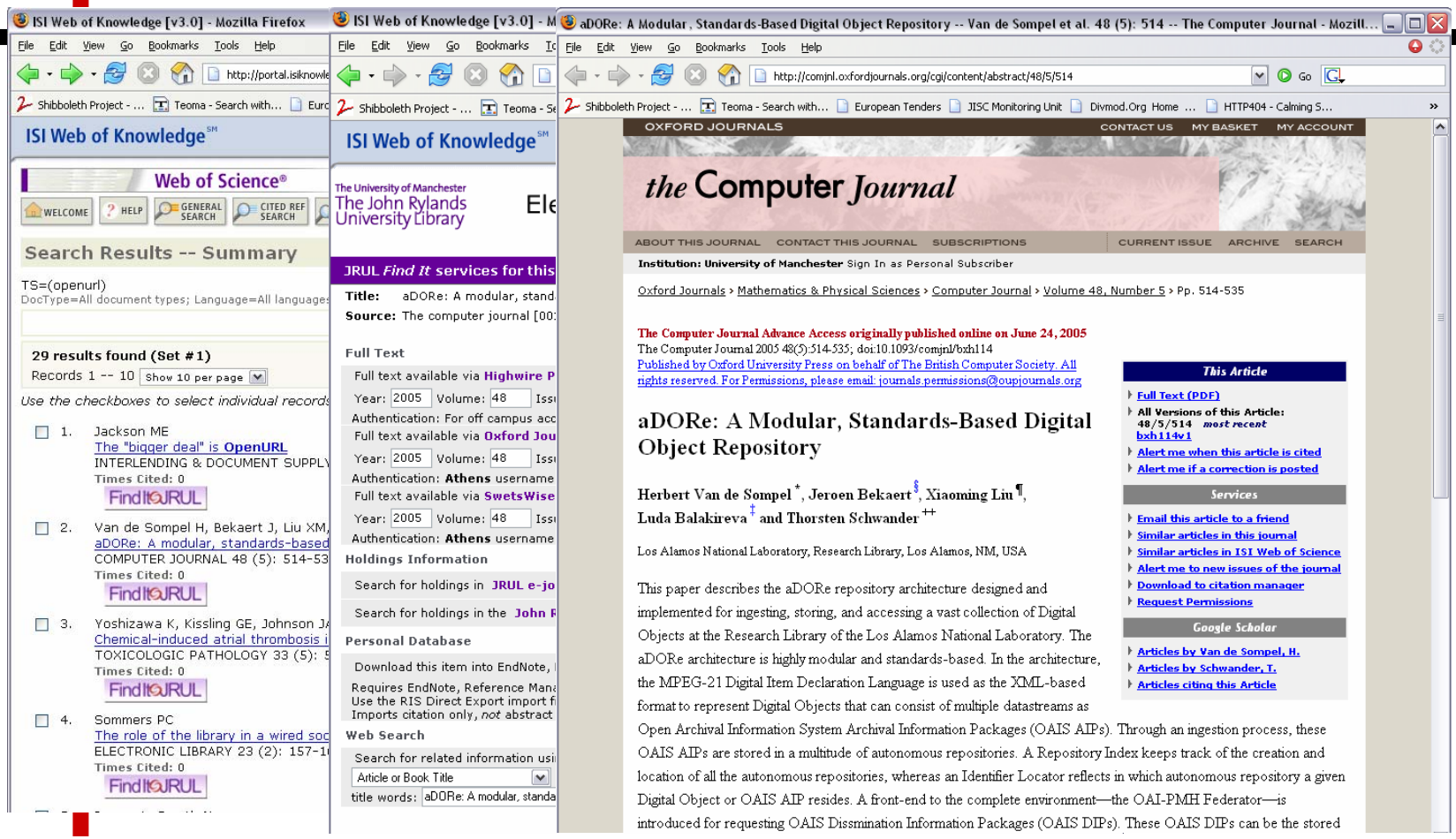
Oren Beit-Arie, ExLibris

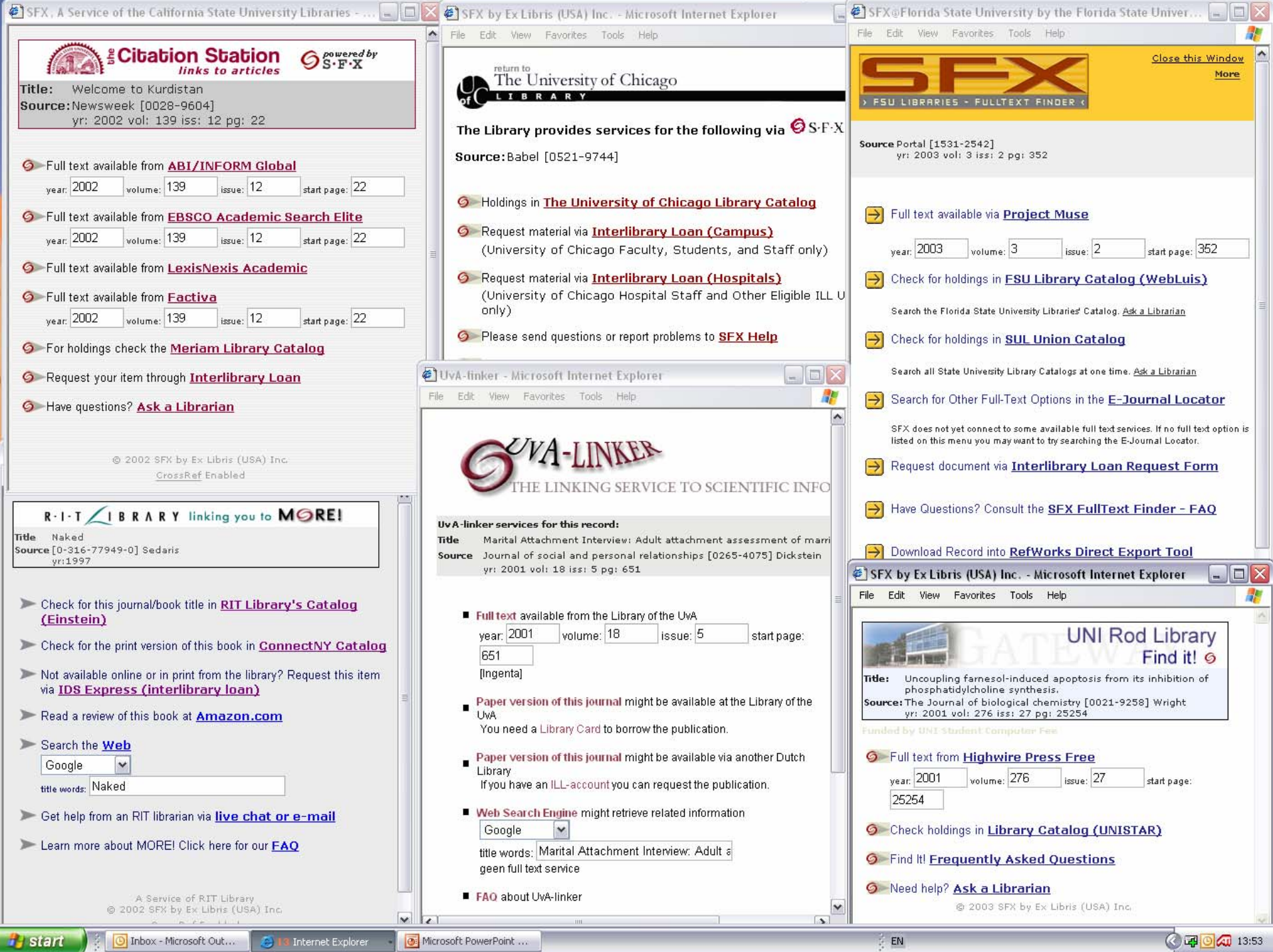
OpenURL linking



Oren Beit-Arie, ExLibris

OpenURL in action




SFX, A Service of the California State University Libraries - ...
the Citation Station
links to articles
powered by S·F·X
Title: Welcome to Kurdistan
Source: Newsweek [0028-9604]
yr: 2002 vol: 139 iss: 12 pg: 22
Full text available from ABI/INFORM Global
year: 2002 volume: 139 issue: 12 start page: 22
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Full text available via Project Muse
year: 2003 volume: 3 issue: 2 start page: 352
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All sorted then?

Pig courtesy of Tom Bishop,
Royal College of Surgeons

Web of Science®

WELCOME | HELP | GENERAL SEARCH | CITED REF SEARCH | SEARCH HISTORY | ADVANCED SEARCH

Search Results -- Summary

TS=(intelligent design)
DocType=All document types; Language=All languages; Databases=SCI-EXPANDED, SSCI, A&HCI; Timespan=1945-2005

Search within results: Enter a topic SEARCH

241 results found (Set #1)
Records 1 -- 10 Show 10 per page

Go to Page: 1 of 25 GO
[1 | 2 ...]

Use the checkboxes to select individual records for marking, then click Submit Marks to add them to the Marked List.

1. [Anon]
[Fight the good fight - Evolution vs **intelligent design** is a battle we cannot afford to lose](#)
NEW SCIENTIST 188 (2519): 3-3 OCT 1 2005
Times Cited: 0
FindIt@JRUL

2. Shipman P
[Being stalked by **intelligent design**](#)
AMERICAN SCIENTIST 93 (6): 500-502 NOV-DEC 2005
Times Cited: 0
FindIt@JRUL

3. Neill US
[Don't be stupid about **intelligent design**](#)
JOURNAL OF CLINICAL INVESTIGATION 115 (10): 2586-2586 OCT 2005
Times Cited: 0
FindIt@JRUL VIEW FULL TEXT

4. Koep E, Mebane DS, Das R, et al.
[Characteristic thickness for a dense La0.8Sr0.2MnO3 electrode](#)
ELECTROCHEMICAL AND SOLID STATE LETTERS 8 (11): A592-A595 2005
Times Cited: 0
FindIt@JRUL

5. Brumfiel G
[School board in court over bid to teach **intelligent design**](#)
NATURE 437 (7059): 607-607 SEP 29 2005
Times Cited: 0
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6. Kortum RD
[The devil, and darwin: A critique of **intelligent design** theory.](#)
RELIGIOUS STUDIES 41 (3): 357-362 SEP 2005
Times Cited: 0

Sort by:
Latest date SORT

Output Records:
- Selected records on page
- All records on page
- Records to

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EXPORT SAVE TO FILE
Or add them to the Marked List for later output and more options.
ADD TO MARKED LIST
[0 articles marked]

Analyze Results:
ANALYZE
View rankings and histograms of the authors, journals, etc. for this set of records. (Up to 2,000 records at a time.)

The University of Manchester
The John Rylands University Library

Electronic Resources

Language English

JRUL *Find It* services for this record | About *Find It* | Library Catalogue | Library Home Page

Title: Fight the good fight - Evolution vs intelligent design is a battle we cannot afford to lose
Source: New scientist [0262-4079] yr:2005 vol:188 iss:2519 pg:3 -3

Full Text

Full text available via **Miscellaneous Ejournals** GO

Holdings Information GO

Search for holdings in **JRUL e-journals A to Z list** GO

Search for holdings in the **John Rylands University Library Catalogue** GO

Personal Database

Download this item into EndNote, ProCite or ReferenceManager using **ISI Researchsoft Direct Export Tool** GO

Requires EndNote, Reference Manager or ProCite already installed on your computer.
Use the RIS Direct Export import filter.
Imports citation only, *not* abstract or full text.

Web Search

Search for related information using **Google Scholar**

Article or Book Title

title words: Fight the good fight - Evolution vs int GO

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No. 2522

29 October 2005
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SEPTEMBER

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Internet

start

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ISI Web of Knowledg...

New Scientist - Brows...

Microsoft PowerPoint ...

11:11

The Open Archives Initiative

- 1999 Universal Preprint Service (UPS)
  - Multi-disciplinary collection of technical reports, conference papers, articles, e-print servers, etc.
  - Services provided on “harvested metadata”
- Data Providers / Service Providers
- Not ‘Cross-Searching’
- OAI is only about metadata – not full text
- OAI is neutral about nature of metadata and the resources described

OAI - Protocol for Metadata Harvesting

- Simple mechanism for sharing metadata records
- Records shared over the web (ie HTTP as XML)
- 'Client' can ask metadata server for
  - all records
  - all records modified in last 'n' days
  - info about sets, formats, etc.
- Specific application: self-archiving via e-print servers in/for all institutions
- JISC project - http://www.sherpa.ac.uk/

COUNTER

Counting Online Usage of NeTworked Electronic Resources

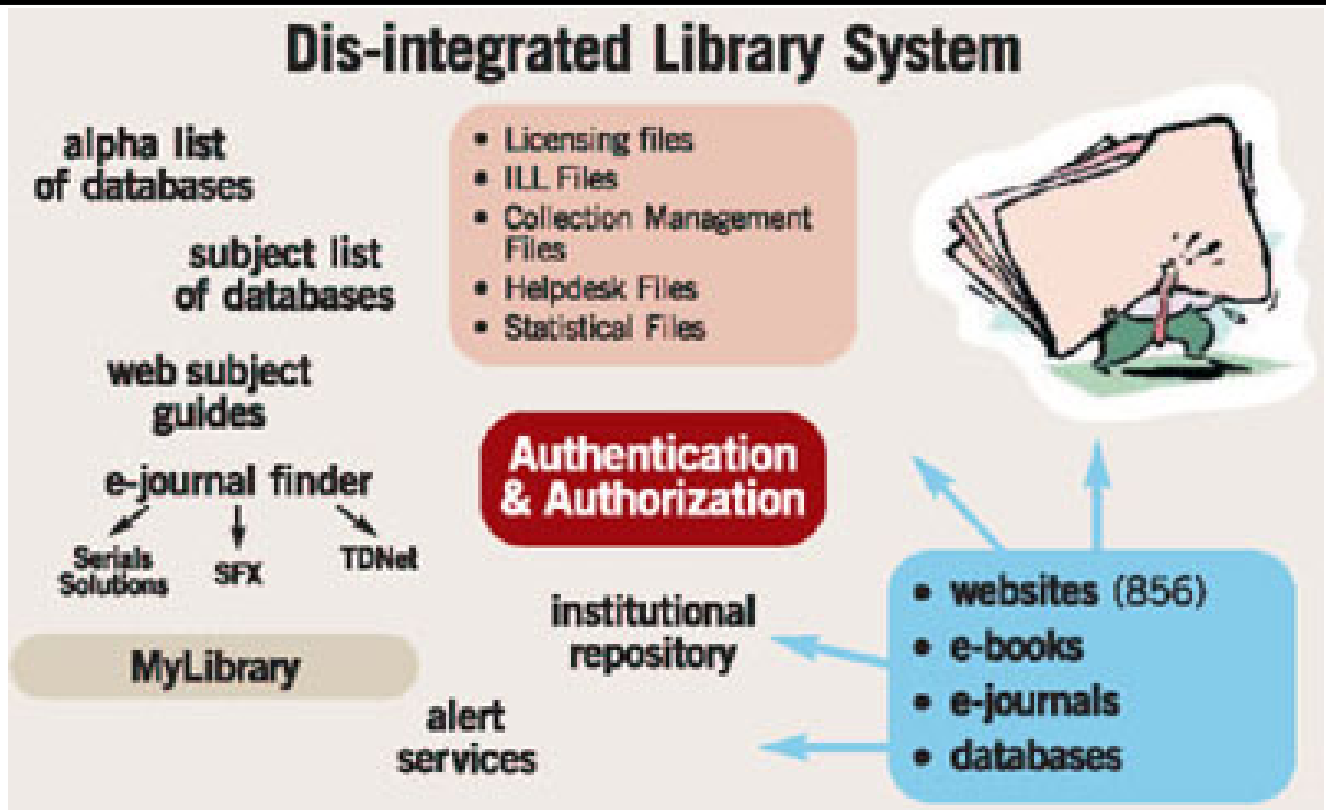
- Consistent, Credible & Compatible Usage Statistics
- Code of Practice for:
  - Data elements to be measured
  - Definitions of these data elements
  - Output report formats/delivery/frequency/granularity
  - Methods for measurement and use
- AAP, ALPSP, ARL, ASA, EDItEUR, JISC, NCLIS, NISO, PA, STM, UKSG

COUNTER Counting Online

JR1 = Journal Report 1: Number of Successful Full-Text Article Requests by Month and Journal
JR2 = Journal Report 2: Turnaways by Month and Journal
DB1 = Database Report 1: Total Searches and Sessions by Month and Database
DB2 = Database Report 2: Turnaways by Month and Database
DB3 = Database Report 3: Total Searches and Sessions by Month and Service
JR3 = Number of Successful Item Requests and Turnaways by Month, Journal and Page Type
JR4 = Total Searches Run by Month and Service

- 150 member orga
- Code of Practice
  - Over 30 vendors (40+ products) compliant (in part)
  - Auditing standards & procedures published
  - XML DTD for Usage Reports developed
- Code of Practice eBooks & eReference
  - Published March 2006

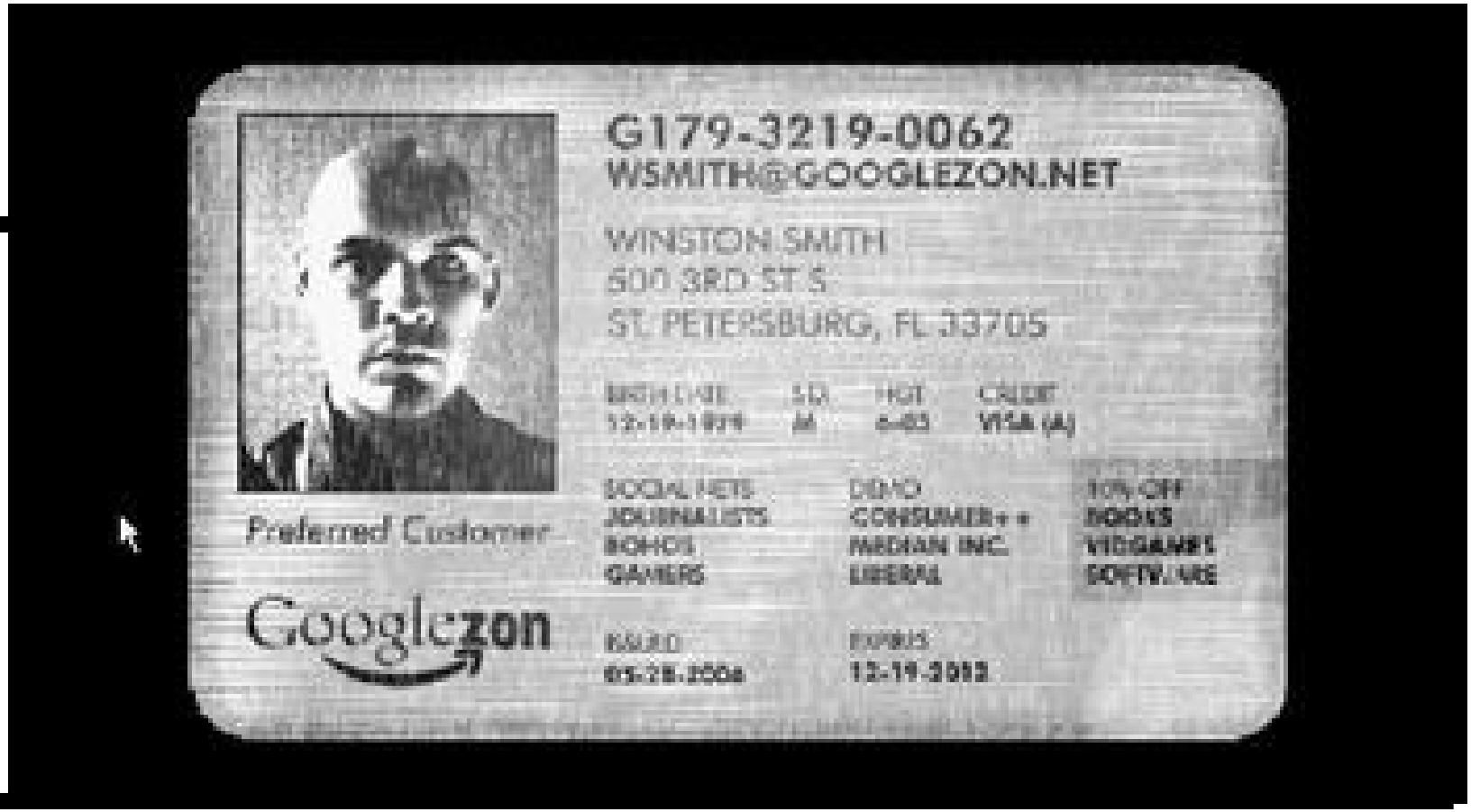
What next?



Acknowledgement: Greg Raschke and Suzanne Weiner (netConnect) The Library Journal -- 7/15/2004

Electronic Resouces Management - ERM

- **Basic ERM Data Elements**
  - **Descriptive:** Title fields, holdings, publisher, and ISSN
  - **Licensing:** Authorized users, archiving rights, and cancellation allowances
  - **Financial:** Price and inflation rate
  - **Administrative & Support:** Administrative password and vendor contact information.
  - **Access:** Authorization method and local access URI
  - **Usage or Evaluative:** Number of full-text article downloads and number of searches
- **Coming to market:** Dynix, EBSCO, Endeavor, ExLibris, Harrassowitz, Innovative Interfaces, Serials Solutions, SIRSI, VTLS, …



email: ross.macintyre@manchester.ac.uk

web: http://www.mimas.ac.uk/