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4-7-2014

#### **The Next Phase**

Matt Borg

Athena Hoeppner University of Central Florida, athena@ucf.edu

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#### **STARS Citation**

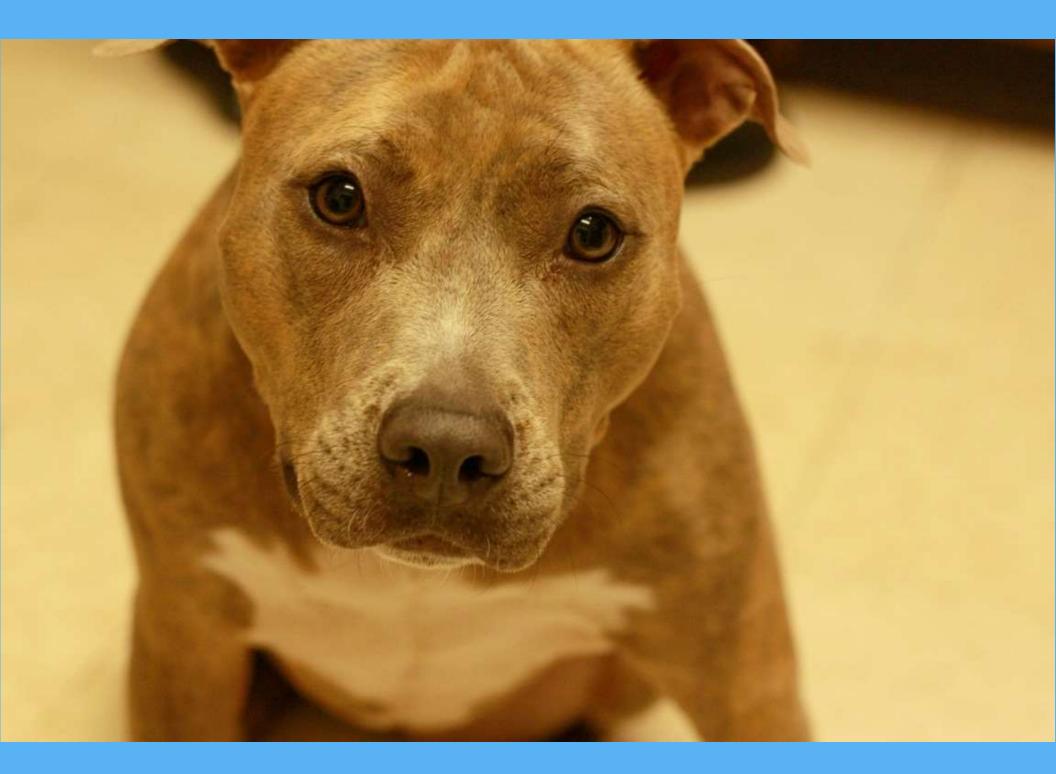
Borg, Matt and Hoeppner, Athena, "The Next Phase" (2014). *Faculty Scholarship and Creative Works*. 823. https://stars.library.ucf.edu/ucfscholar/823



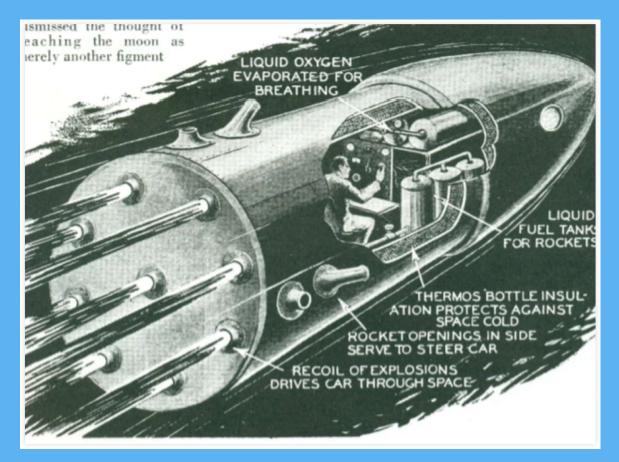
The Next Phase. **Discovery systems** then, now and future directions - a transatlantic viewpoint. **Computers in** Libraries.

# TNPDSTNAFDATAVCIL









Discovery as We Know It

Hacking Discovery: Culture and Tools

The Future of Discovery

Discovery as we know it

## Web Scale Discovery: Abbr. Def.

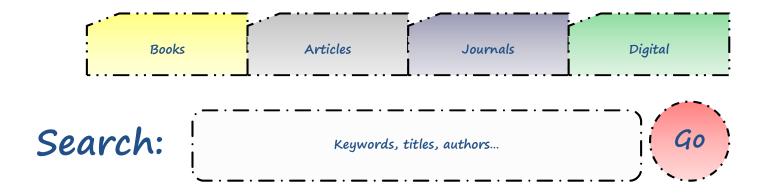
WSD systems couple... <u>a pre-harvested central</u> índex of metadata and content...

...with a richly featured discovery layer.

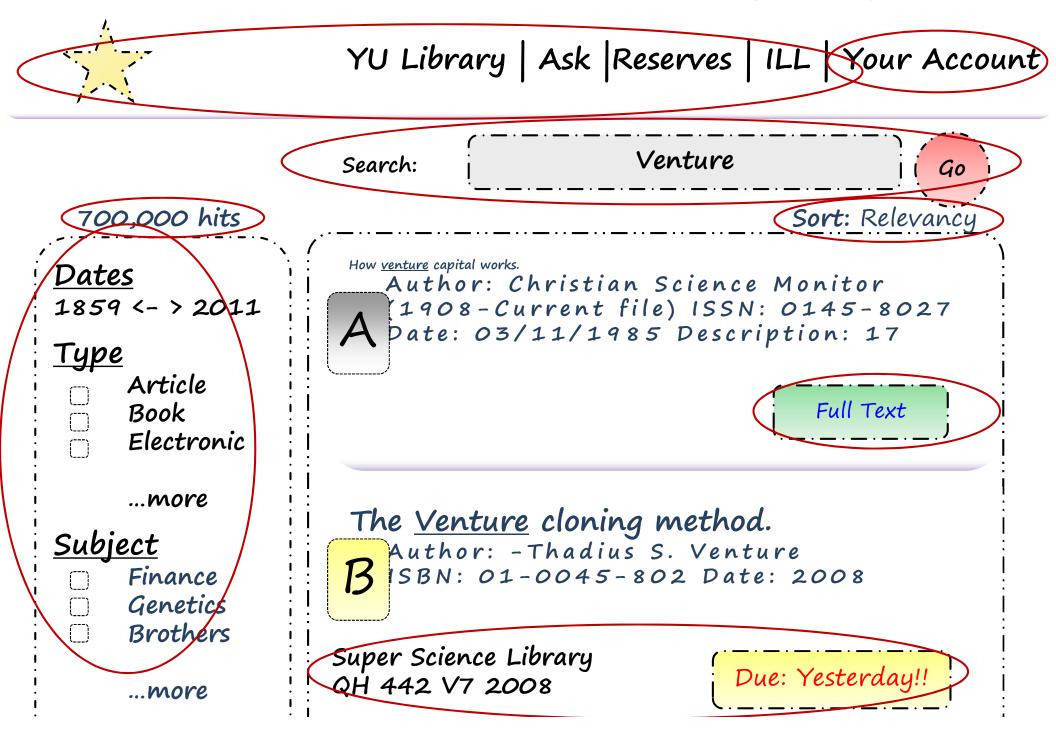
# Out of the Box Discovery Layer



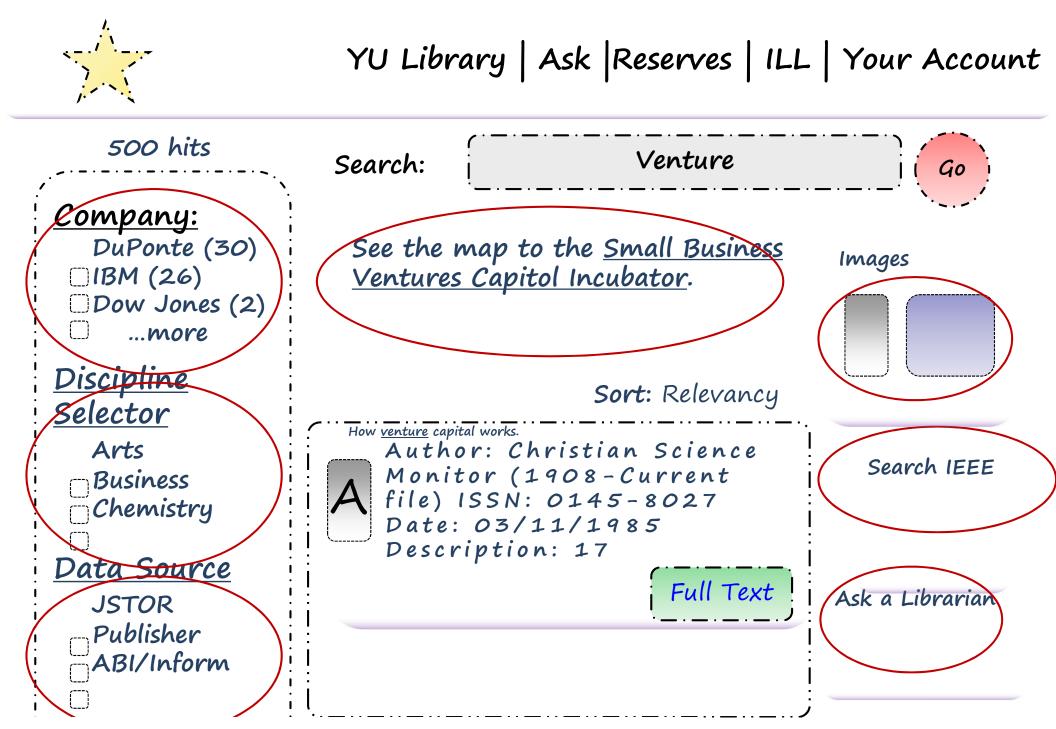




# Out of the Box Discovery Layer



## Bells and Whistles



## **Relevancy and Value Ranking**

- Weighted fields
- Exact match of term with field
- Density of terms
- Currency of item
- Document type
- Document length
- Locally owned



## **Discovery Layer Features**



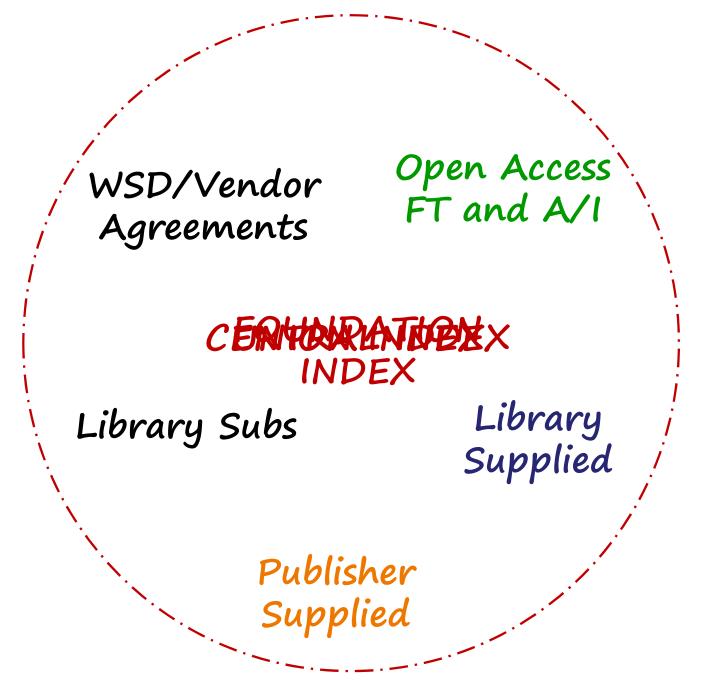
LTG Home | Itb-web-cats | Industry news | Member Login | Register

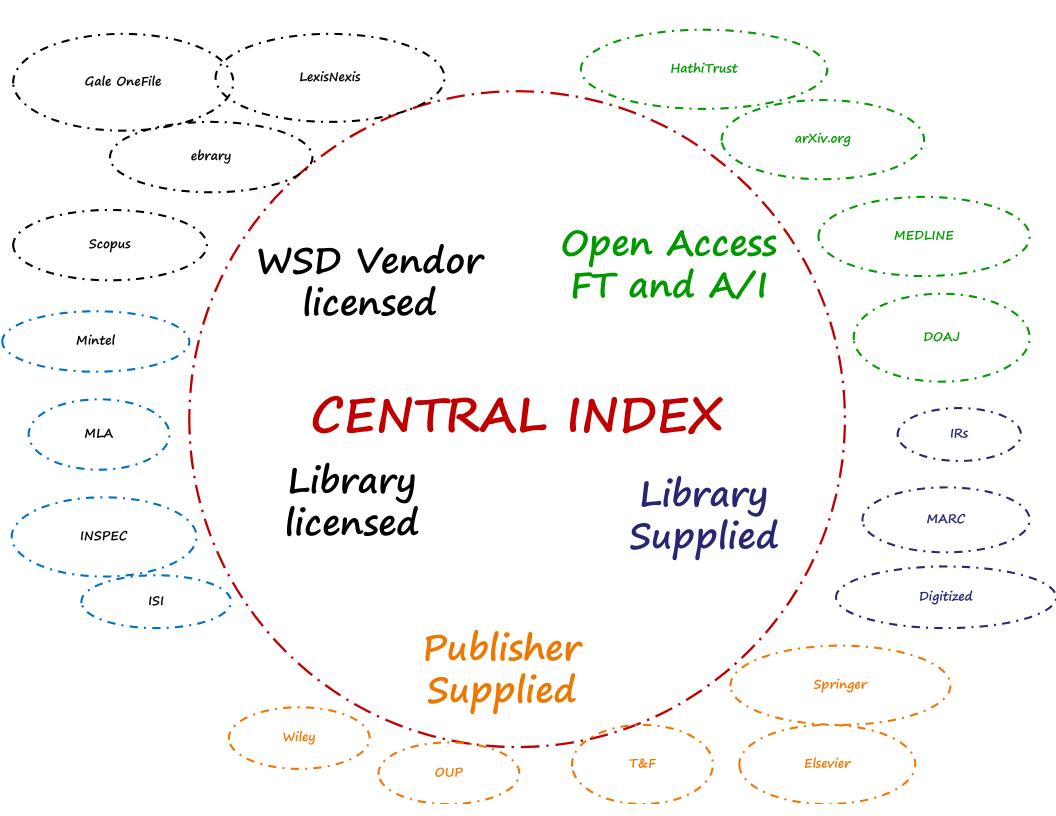
#### Library Technology Guides

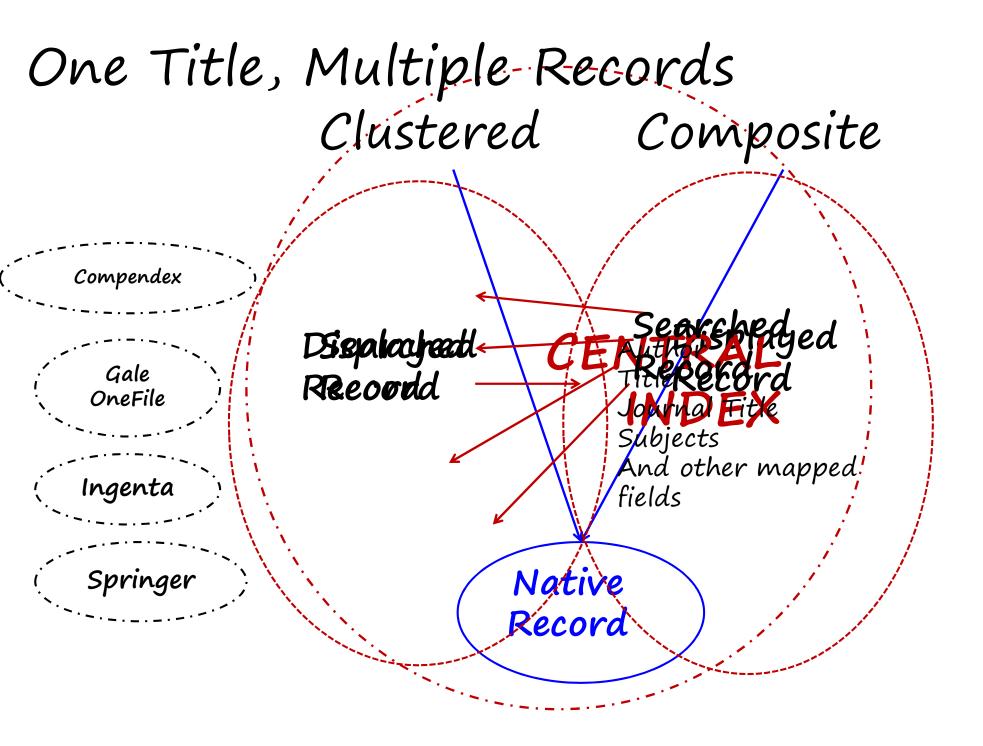
Product Directory

LTG home	Major Discovery P	roducts		
industry news	Search for products:	Sean	ch	
libweboats	Major Discovery Product	ts		
bibliography				
library companies		alle	EBSCO	
guides	BIBALIO	Sight blacklight	Discovery Service	encore
systems librarian				
automation marketplace				
library tech reports		SirciDuniy	· ·	
site statistics	ENDECA	SirsiDynix Enterprise™	Primo	Summon
automation history	_			Web Scale Discovery
		101	5 WorldCat	
	VISUALIZER	VUTJUN	Wondcat	

Pre-harvested Index







#### Data Sources: Details Matter

Provider /	Open	Sources	All Back-	Searchable	Status
Product	Access	Included	files	Metadata	
American Chemical Society		All journals	No	Author Supplied Abstracts and Author Keywords for All Journals including all available Subject Headings	Everything provided by the publisher is loaded and available now for end users
American Mathematical Society		All journals	Yes	Full Text Searching for All Titles including all available Subject Headings	Everything provided by the publisher is loaded and available now for end users
ARTstor*		All images	N.A.	Indexing for all images contained in the ARTstor Digital Library	Everything is loaded and available now for end users
Directory of Open Access Journals (DOAJ)	Y	All journals	Yes	All available metadata for all journals covered by the directory	Everything is loaded and available now for end users
HathiTrust Digital Library	Y	All sources	Yes	All available full-text and metadata provided by HathiTrust	Metadata harvested by <i>OAIster</i> is loaded and available now for end users; awaiting full text and additional metadata delivery from publisher, content will be processed as soon as received
IBISWorld		All company, industry, and market research reports	N.A.	Full text searching	Awaiting data from publisher, content will be processed as soon as received
MLA International Bibliography*		All sources	Yes	All indexing, abstracts, and TOC	Everything is loaded and available now for end users
Springer Science & Business Media B.V.		All journals and al books & reference works		Full Text Searching for All Journals & Books including all available Subject Headings	Everything provided by the publisher is loaded and available now for end users, books to follow

### Data Sources: Open Access

Provider / Product	Open Access	Sources Included	All Back- files	Searchable Metadata	Status
Directory of Open Access Journals (DOAJ)	Y	All journals	Yes	All available metadata for all journals covered by the directory	Everything is loaded and available now for end users
HathiTrust Digital Library	Y	All sources	Yes	All available full- text and metadata provided by HathiTrust	Metadata harvested by OAIster is loaded and available now for end users; awaiting full text and additional metadata delivery from publisher, content will be processed as soon as received

### Data Sources: Publisher Supplied

Provider / Product	Open Access	Sources Included	All Back- files	Searchable Metadata	Status
American Chemical Society		All journals	s No	Author Supplied Abstracts and Author Keywords for All Journals including all available Subject Headings	Everything provided by the publisher is loaded and available now for end users
American Mathematical Society		All journals	s Yes	Full Text Searching for All Titles including all available Subject Headings	Everything provided by the publisher is loaded and available now for end users
Springer Science & Business Media B.V.	)	All journals and all books & reference works	Yes	Full Text Searching for All Journals & Books including all available Subject Headings	Everything provided by the publisher is loaded and available now for end users, books to follow

#### Data Sources: Licensed Databases

Provider / Product	Open Access	Sources Included	All Back- files	Searchable Metadata	Status
ARTstor*				" a for any dentified	Everything is loaded and available now for end users
IBISWorld		f	or mu	sterisk is utual rs only:	Awaiting data from publisher, content will be processed as soon as received
MLA International Bibliography*				-	Everything is loaded C and available now for end users

### Data Sources: Databases, sorta

Provider / Product	Open Access	Sources Included	All Back- files	Searchable Metadata	Status
Web of Science and Citation Indexes*		Web of Science / Citation Indexes	Records added from 1989 to present	through Web of Science, including: • A&H	Everything is loaded and available now for end users
SciVerse Scopus*		All sources	Yes	All bibliographic citations and abstracts	Everything provided by the publisher is loaded and available to end users

#### Data Sources: NO DATA

Product	Excuse				
Compendex®	Compendex <sup>®</sup> is a journal index, so it is not likely to be approved for discovery, but we have licensed full-text searching (not display) of Elsevier's primary publications (e-journals)				
LexisNexis	EDS already contains LexisNexis Law Reviews and <u>EBSCO is waiting for</u> the content provider to send the files for LexisNexis Academic. EBSCO is seeking all available metadata from the international divisions of LexisNexis				
MathSciNet	MathSciNet is a journal index, so it is not likely to be approved for discovery, but we have licensed full-text searching (not display) of the publisher's primary publications (e-journals)				
SciFinder	SciFinder (Chemical Abstracts) is a journal index and is sold with access restrictions, so it is unlikely to be approved for discovery access, but we are seeking full-text searching (not display) of the publisher's primary publications (e-journals)				

### Data Sources: Not Sharing 🛞

Provider / Product	Sources Included Excluded
EBSCO eBooks (formerly NetLibrary)	All eBooks
EBSCOhost Database Subscriptions	All full-text databases, all subject indexes, all historical digital archives, all eBooks
H. W. Wilson Company	All databases including retrospective indexes
ProQuest ABI/Inform	All indexing, subject headings.
ProQuest Dissertations	All indexing, subject headings, and full text.

WorldCat Local	EBSCO Discovery Service	Summon	Primo Central Index	Encore Synergy
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OCLC EBSCO ProQuest ExLibris Innovative



# Hacking discovery/Hacking culture

5 areas Help. Shoshin. **Expert Intuition.** NO-PAC. Focus



Help

# Stop Help ing.

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Find Database by Subject Title Advance	anced Sub-category	+
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Show all	Show unrestricted	

#### Journal (also known as periodical or serial)

A publication, which contains articles (often describing the latest research on a topic) and which is issued regularly and in separate parts. So in some ways a journal is similar to a magazine, which tends to have articles in everyday language on more general topics. An academic (or scholarly) journal usually only publishes articles which have been through a process called ?peer-review?. This is where other experts in the subject area are asked to review the articles before publication and comment on their quality. The journals are shelved in alphabetical order and kept in separate collections on each floor. This means that you won?t, for example, find all the psychology journals together. You need to know the name of the journal you are looking for. The only exception to this is that the current issues of some journals are displayed under broad subject headings



#### What jargon do you need un-libraried?

journal

Unbrary It

#### journal

A journal is an magazine without color pictures that covers a specific academic subject. Librarians call them "budget eaters."



# shoshin



The mind of the beginner is empty, free of the habits of the expert, ready to accept, to doubt, and open to all the possibilities." - Shunryu Suzuki do NOT do that AND instead do this OR it won't work. The problem with Summon is that students don't need to be taught how to use it, but librarians do!



### Expert intuition.

# 

Knowing how people will use something is essential.

Web site analytics	Summon keyword analytics
Heat maps	<b>Usability testing</b>

#### I never found stuff before you put the Google box on the Library Gateway.

- 2ND YR MIDWIFERY STUDENT



### NO-PAC

#### Other search options

#### Library Catalogue

#### A tool for advanced searchers and librarians.

REAL PROPERTY IN



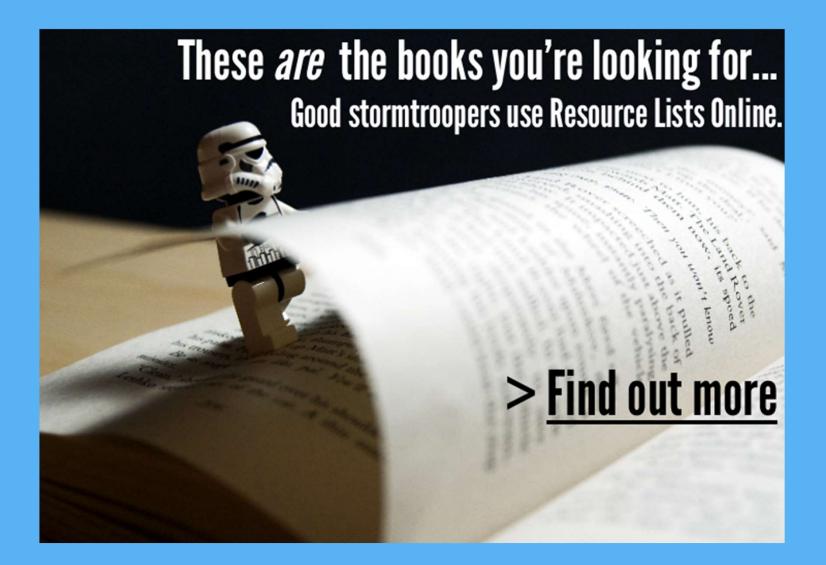


#### Focus.

# Discovery isn't a canon...

### ...It's a method

### Focus on STUFF VS Focus on people who use STUFF



#### Still in love with Library Search? Or are you seeing Google on the side?

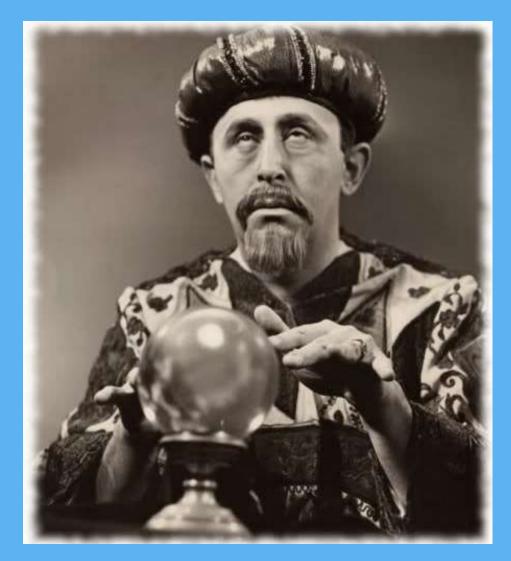


### facilitators of learning V S gatekeepers of information

#### hundreds of databases

arcane complexities of Boolean operators Search Refine Get

### The Future of Discovery



#### Vendor view\*

- What enhancements are most in-demand by your customers?
- What are your priority developments for Discovery the next 1 to 3 years?
- What are the most interesting developments in technology, society, scholarly communication, or information seeking that libraries and discovery services need to respond to?

\*views from vendors not necessarily representative of all vendors!

# Enhancing content UX

# Responsive Search + Relevancy

# Enhancing content

OPEN ACCESS BIG DATA



Check for Best Practices

SEE MORE

Resources:

DataUp

CDL resources, data

>>

management help

Presentations about

Start Using DataUp

**Create Metadata** 

DataUp will guide you through

creating standard metadata.

DataUp Features

What

DataUp

can do for you

Create Metadata

Archive & Share

About the Project:

history and evolution

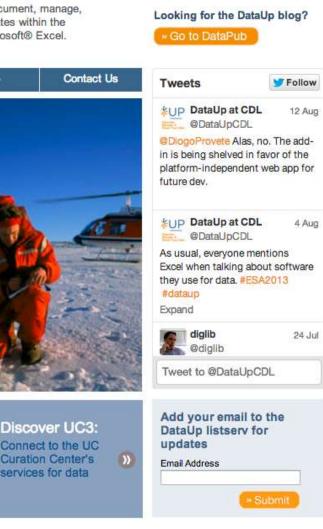
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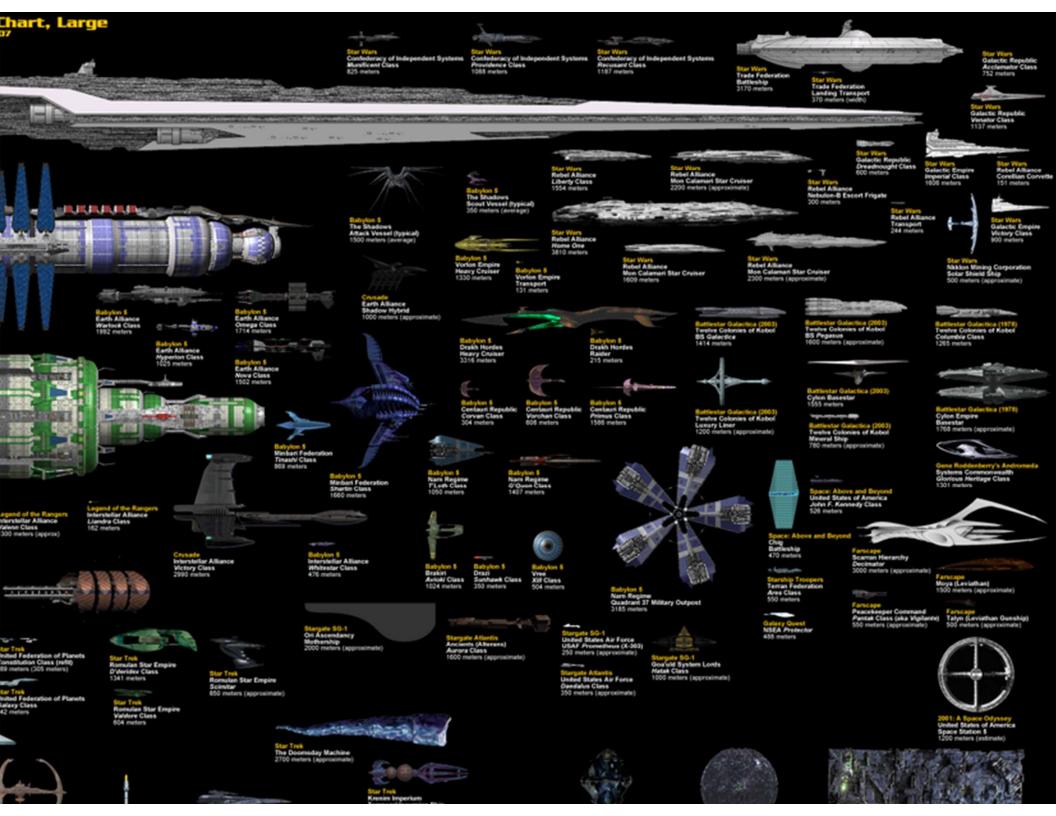
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upcoming presentations and demos

DataUp, including

### http://dataup.cdl







Reaching Across the Aisle ... Pursues content exclusives Inferior metadata Biased relevancy ranking Inferior relevancy ranking

#### **Enhancing Content**

- Shift from print to electronic; Services built for e-content
- Support for on-the-fly collections (i.e. PDA and PPV)
- Broaden the scope of the content (github, YouTube, OA, MOOCs, blogs)
- Better manage and track Open Access

## UX

# LINK RESOLVER



#### Load Slide 76



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# Image: model of the second second

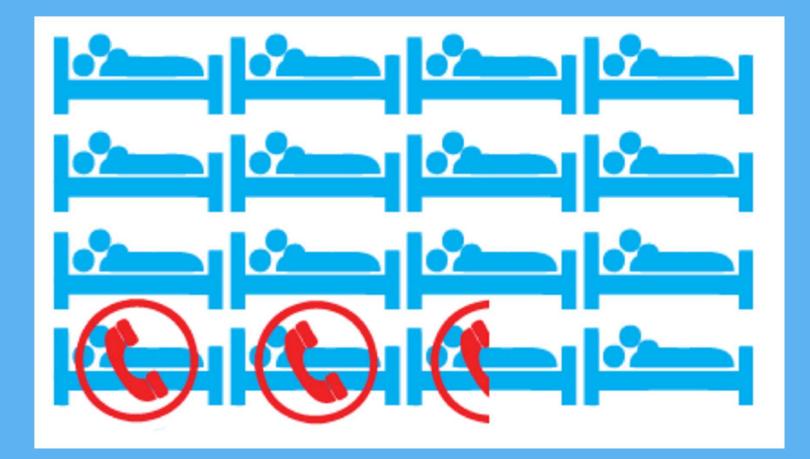
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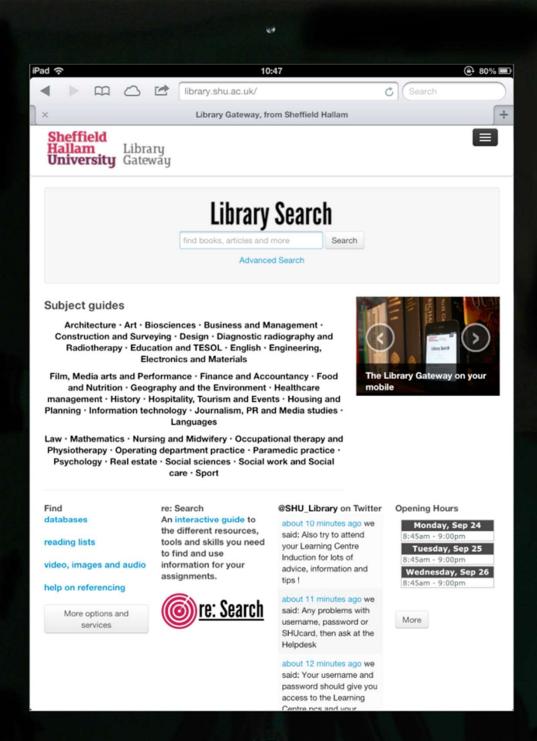
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AGNOSTIC

15% of people have INTERRUPTED SEX to answer their mobile phone



cellphones.org (2010)



## iPad portrait

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Subject guides	
Need a little help in finding the best information resources?	
Our experts have put together these rather handy guides.	
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Climatic Change June 2011, Volume 106, Issue 4, pp 679-690, Open Access

## Methane and the greenhouse-gas footprint of natural gas from shale formations

Robert W. Howarth, Renee Santoro, Anthony Ingraffea

» Download PDF (489 KB)

## Abstract

We evaluate the greenhouse gas footprint of natural gas obtained by high-volume hydraulic fracturing from shale formations, focusing on methane emissions. Natural gas is composed largely of methane, and 3.6% to 7.9% of the methane from shale-gas production escapes to the atmosphere in venting and leaks over the life-time of a well. These methane emissions are at least 30% more than and perhaps more than twice as great as those from conventional gas. The higher emissions from shale gas occur at the time wells are hydraulically fractured—as methane escapes from flow-back return fluids—and during drill out following the fracturing. Methane is a powerful greenhouse gas, with a global warming potential that is far greater than that of carbon dioxide, particularly over the time horizon of the first few decades following emission. Methane contributes substantially to the greenhouse gas footprint of shale gas on shorter time scales, dominating it on a 20-year time horizon. The footprint for shale gas is greater than that for conventional gas or oil when viewed on any time horizon, but particularly so over 20 years. Compared to coal, the footprint of shale gas is at least 20% greater and perhaps more than twice as great on the 20-year horizon and is comparable when compared over 100 years.

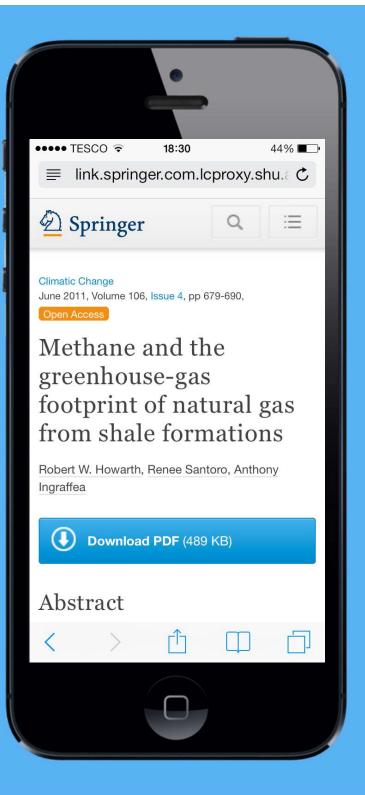


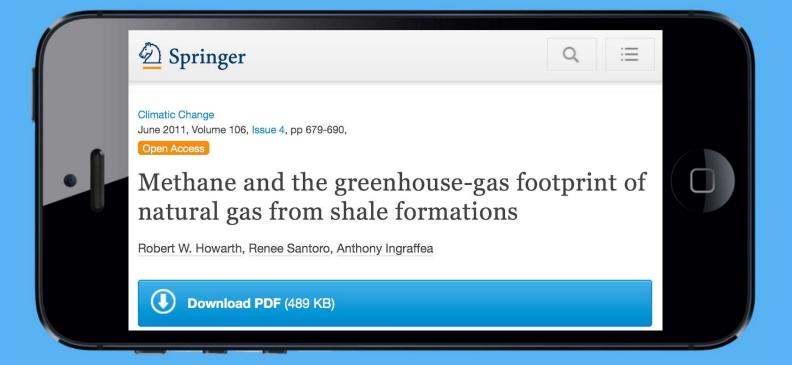
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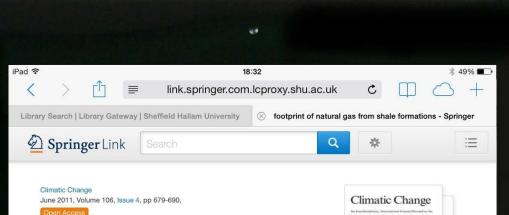
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### Abstract

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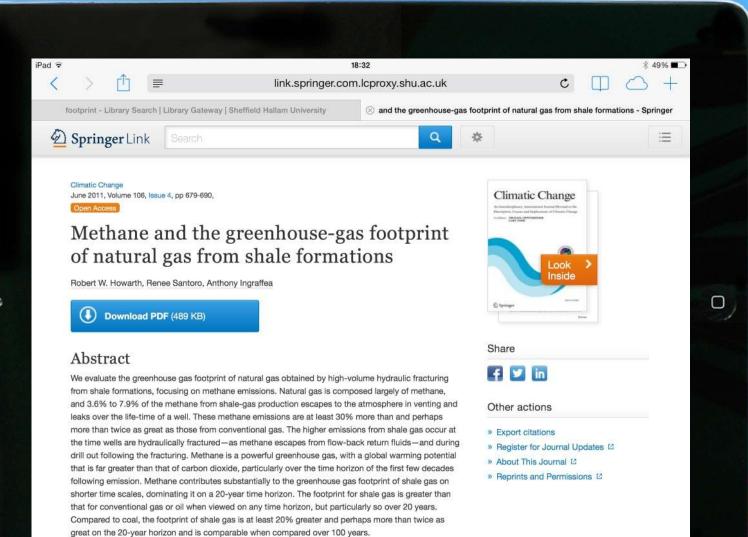
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# PERSONALIS ATION



# **UX: The Primacy of Discovery**



- Discovery service as primary tool for patrons to interact with library
- Closely integrate discovery with LMS and take on some LMS functionality
- Seamless integration between discovery and other systems, such as LMS, citation management, etc.
- Access to all the things, from everywhere, and with any device!
- Responsive to international and regional needs (i.e. multi lingual searching)
- Speed!!!
- API for complete customizability
- Introduce social and citation features designed around discovery, sharing, and tracking research (Flow)

Responsive search and Relevancy

# Does the user have a hat?





Main page Contents Featured content Current events Random article Donate to Wikipedia

Interaction Help About Wikipedia Community portal Recent changes Contact page Article Talk

# Jake Weary

From Wikipedia, the free encyclopedia

This article is about the actor. For the JavaScript library, see jQuery.

Jake Weary (born February 14, 1990) is an American actor, singer and musician.

Contents [hide] 1 Biography 1.1 Movie career 1.2 Music career 1.3 Personal life 2 Filmography 3 References 4 External links

Biography [edit source | edit beta]

# BROWSE BY DISCIPLINE / SUBJECT



### Searching: University Library Collection Publications



### Publications

### Browse By Discipline

Browse resources available from the library's collection

Aerospace Sciences (381) Agriculture & Agribusiness (587) Anthropology (185) Applied Sciences (553) Architecture (94) Arts & Entertainment (212) Biography (125) Biology (145) Biotechnology (381) Botany (185) Business & Management (712) Chemistry (687) Complementary & Alternative Medicine (165) Computer Science (685) Construction & Building (125) Consumer Health (555) Dance (111)

Dentistry (225) Dietetics & Nutrition (165) Drama & Theater Arts (85) Earth & Atmospheric Sciences (565) Economics (665) Education (586) Engineering (877) Environmental Sciences (687) Ethnic & Cultural Studies (381) Film (87) Forestry (185) Geography & Cartography (85) Geology (180) Government & Politics (687) History (712) Information Technology (587) International Relations & Diplomacy (186)

Language & Linguistics (87) Literature & Writing (125) Law (225) Political Science (257) Power & Energy (367) Psychology (377)

Disciplines based on subject headings within the Knowledge Base will be available for quick subject searches.

Oceano

Pharmacy narmacology (168) Religion & Philosophy (366) Physical Therapy (186) Physics (325) rechnology (588)

Veterinary Medicine (225) Visual Arts (188) Women's Studies & Feminism (281) Zoology (383)

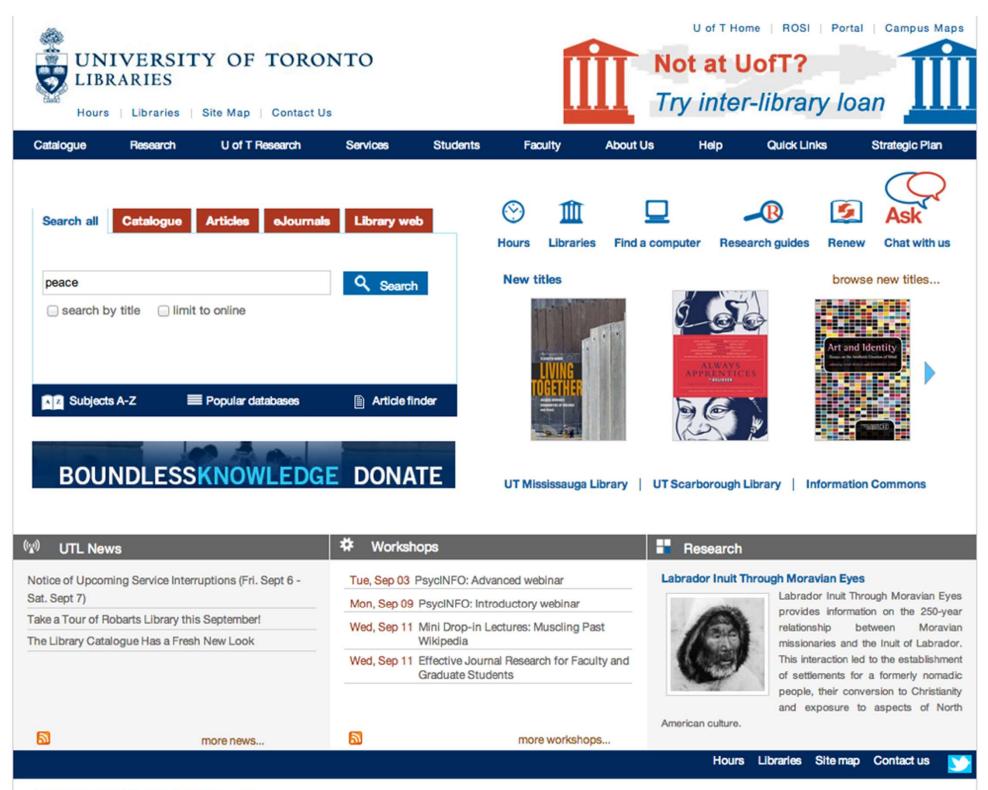
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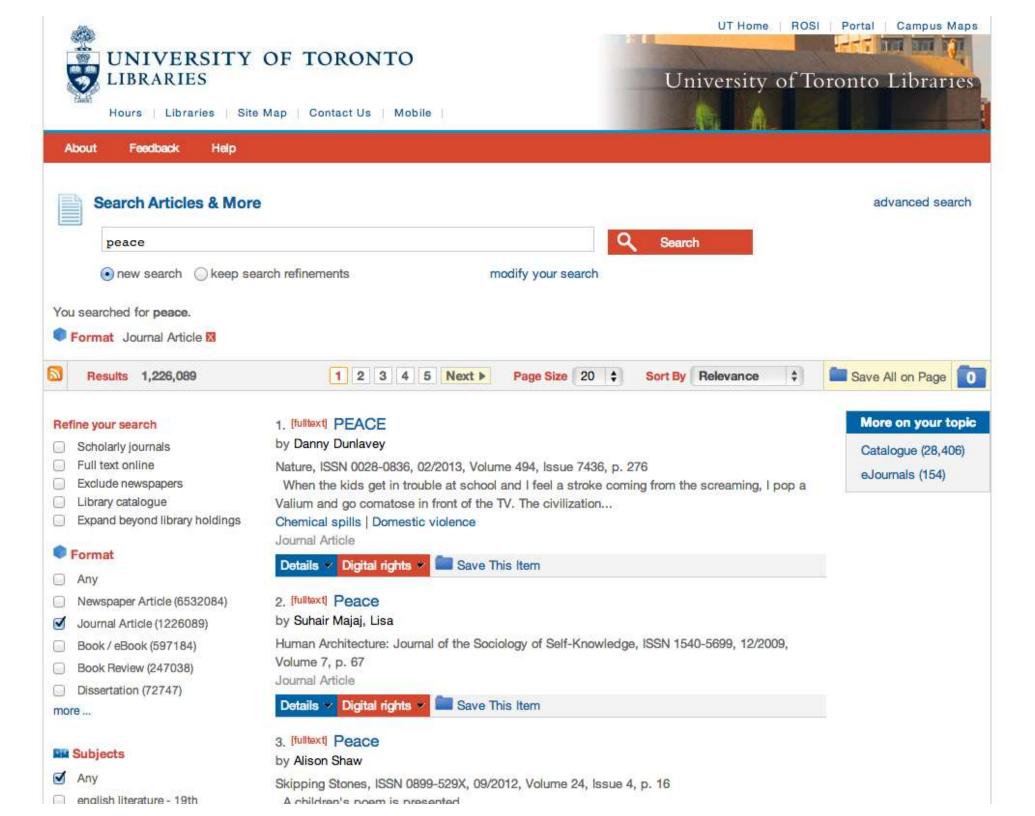
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Ar		by Alison Shaw		

# **Responsive Search & Relevancy**



- Highly intelligent search engines to anticipate end-user intent
- Intelligent and responsive search and features to guide users through the research process (autocomplete, topic suggestions, topical summaries and info, article recommenders)
- Intelligent relevancy ranking (i.e. different criteria and weighting for known-items and scholarly content; concept based searches;
- Integrate AltMetrics into discovery
- Better FRBR and duplicate item matching



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THE CAMPAIGN FOR THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN



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