

Meaningful Relevance Ranking for Heterogeneous Scholarly Materials

Tamar Sadeh, Director of Marketing
Ex Libris Group
ELAG, Helsinki, June 2010

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“Information technology is not elusive; relevance is. Information technology is tangible; relevance is intangible. Information technology is relatively well understood formally; relevance is understood intuitively. Information technology has to be learned; relevance is tacit. Information technology has to be explained to people; relevance does not.”

Saracevic, 2007

What is relevance?

Relevance is the **measure** of **correspondence** between a **document** and a **query** as determined by a **user** *in a specific context*

Based on Saracevic, 1975

What is relevance?

Relevance is the **measure** [degree, estimate...] of **correspondence** [utility, fit, ...] between a **document** [information provided, fact, ...] and a **query** [request, information requirement, ...] as determined by a **user** [judge, information specialist, ...] *in a specific context*

Based on Saracevic, 1975



Several kinds of relevance

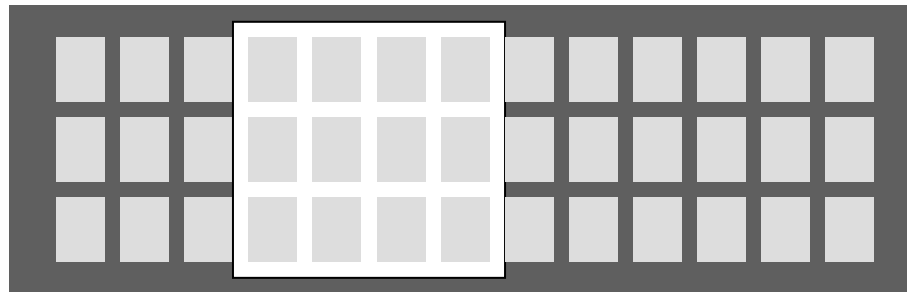
- System or algorithmic relevance
- Topical or subject relevance
- Cognitive relevance or pertinence
- Situational relevance or utility
- Affective relevance

Looking back in time

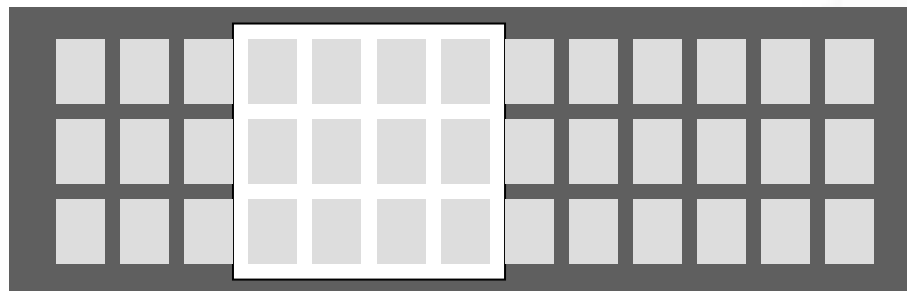
- Librarianship—focused on ‘aboutness’
 - bibliographic descriptions
 - Classifications
 - Ontologies
- Information retrieval (IR)—focused on relevance

Precision and Recall

Precision = $\frac{\text{Number of relevant documents retrieved}}{\text{Total number of documents retrieved}}$




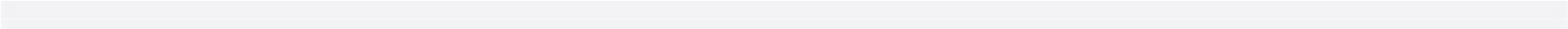
Recall = $\frac{\text{Number of relevant documents retrieved}}{\text{Total number of existing relevant documents}}$



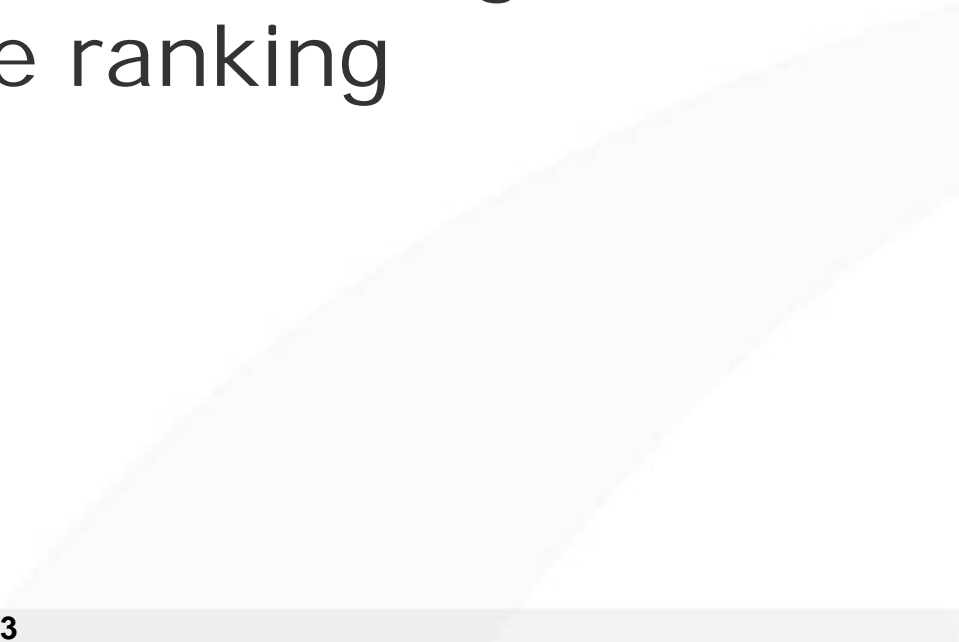
Effectiveness of IR is measured by the probability of agreement between what the system retrieved or constructed as relevant (systems relevance), and what a user assessed or derived as relevant (user relevance).

The library world has changed

- Information:
 - More material types
 - Larger volumes
 - Aggregations
- Users:
 - Web-savvy
 - Lack 'classic' information-seeking literacy
 - Do not rely on mediators
 - Expect 'all in one'
 - Expect to see the best results at the top

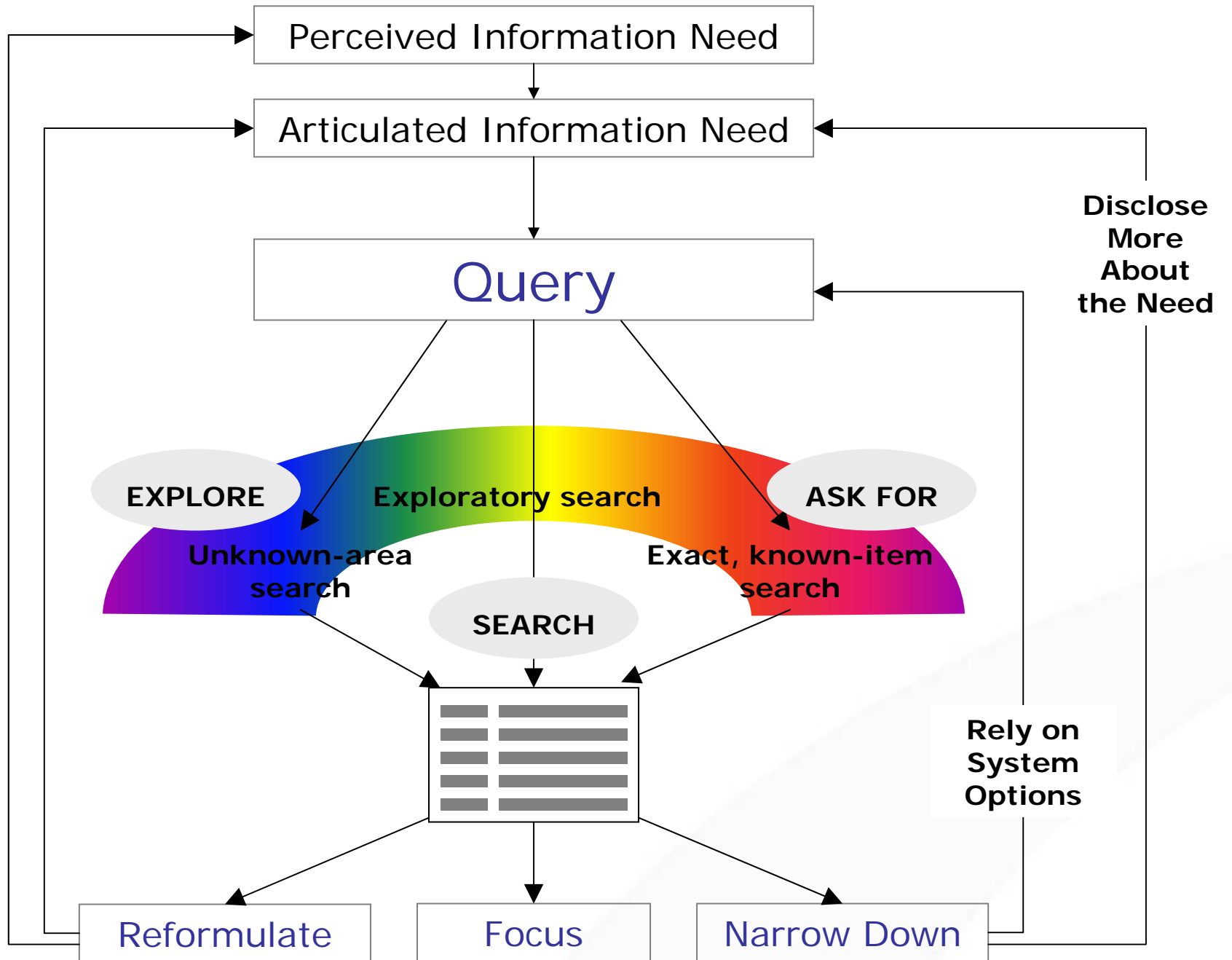


Library systems—primarily new discovery systems—and scholarly databases are now looking at relevance ranking



Searching large aggregations

- Heterogeneity of the data searched:
 - Types of materials
 - Breadth, depth, homogeneity, and accuracy of metadata
 - Additional data—abstracts, full text
- Quantities of data:
 - A few million items from the library
 - Hundreds of millions of global items
- Understanding the user's mind:
 - Information need
 - Specific user context



Topological quantum computation

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- Peer Reviewed (475)
- Online Resources (2,773)

Topic

- Topology (53)
- Quantum theory (38)
- Quantum field theory (10)
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- IOP Electronic Journals (2,557)
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- OneFile (GALE) (87)
- Academic Search (EBSCO) (62)
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Sarma, Sankar Das ; Freedman, Michael ; Nayak, Chetan
 Physics Today, July, 2006, Vol.59(7), p.32-38 [Peer Reviewed Journal]
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Article

TOPOLOGICAL QUANTUM COMPUTATION.

Freedman, Michael H ; Kitaev, Alexei ; Larsen, Michael J ; Zhenghan Wang
 Bulletin of the American Mathematical Society, Jan2003, Vol. 40 Issue 1, p31 [Peer Reviewed Journal]
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Possible topological quantum computation via Khovanov homology: D-brane topological quantum computer

Mario Vélez, Juan Ospina
 Proceedings of SPIE 7342, 73420P (2009)
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Measurement-only topological quantum computation via anyonic interferometry.

Bonderson, Parsa ; Freedman, Michael ; Nayak, Chetan
 Annals of Physics, Apr2009, Vol. 324 Issue 4, p787 [Peer Reviewed Journal]
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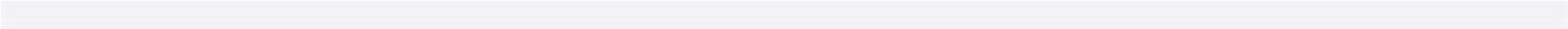
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Measuring system relevance (I)

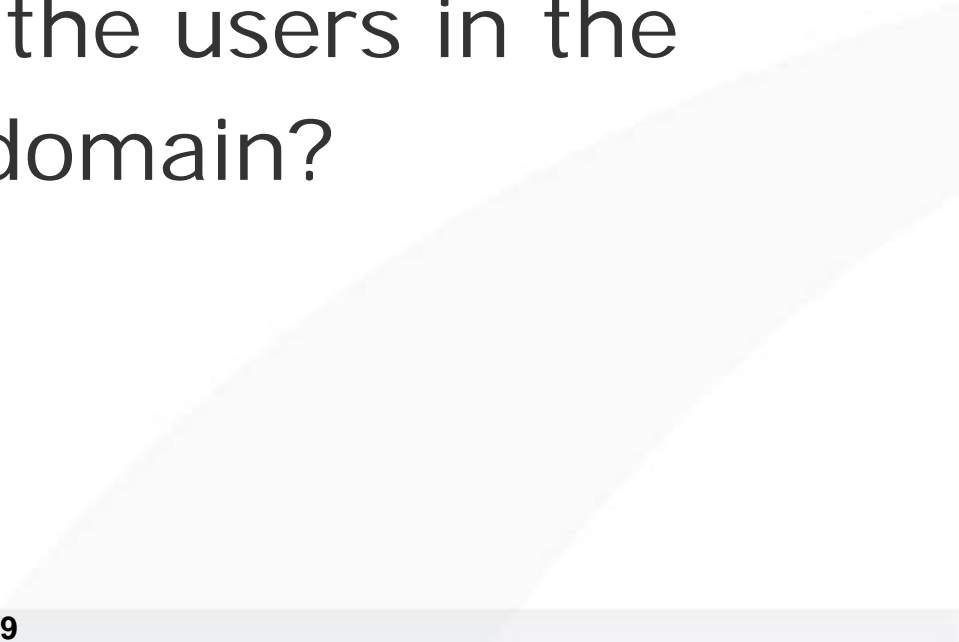
- TF-IDF
 - Term frequency (TF): Normalized number of times a term appears in a document
 - Inverse document frequency (IDF): uniqueness of the term in the corpus of documents
 - High TF-IDF—high TF in the given document and low document frequency of the term in the whole collection of documents—filters out common terms

Measuring system relevance (II)

- 'Coverage' of field by query words
- Words in a specific field, across fields
- Distance and order between words
- Implicit phrase search
- Expansion of search terms (per thresholds), using per-language dictionaries and rules
 - Phonetic rules
 - Stemming
 - Pluralization
-



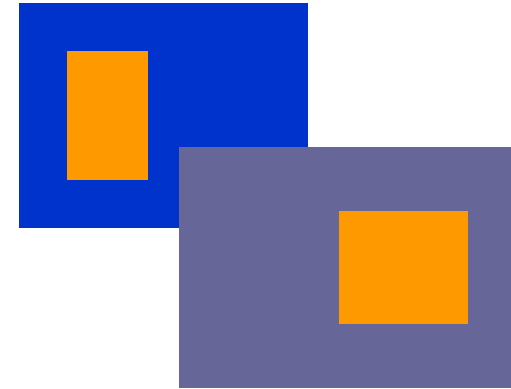
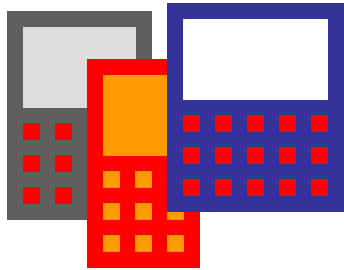
How do we take advantage of the characteristics of information and the behavior of the users in the library domain?



Relevance in a library context

- Popular item? How do we measure popularity?
 - Number of citations?
 - Number of views and downloads?
 - Number of circulation transactions?
 - Number of copies held by the library?
 - Number of manifestations?
- New item?
- Item available electronically? Item currently in the library?
- Course reading?
- From the library? Not from the library?

A real example



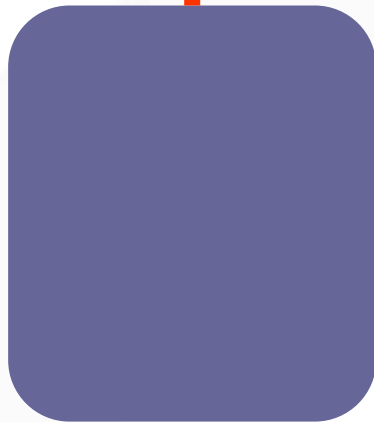
Primo Search Engine



Library Catalog

Digital Repositories

Course Materials





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[Avanceret søgning](#)

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Resultater for Det Kongelige Bibliotek

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742 Resultater, sorteret efter

Vis kun:

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Afgræns min søgning til:

Dokumenttype:

- > [Noder \(58\)](#)
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- > [Vis 1 mere](#)

Emne:

- > [Jazz \(5\)](#)
- > [Bladtegning \(3\)](#)
- > [Teater \(3\)](#)
- > [Onlæsning \(2\)](#)

1



Bog

[Jazz, Christopher Handyside \(Se detaljer\)](#)

Handyside, Christopher
2006

Tilføj til e-Hylde

[Se bestillingsmuligheder\(\)](#)

2



Indspilning

[Masters of jazz \(Se detaljer\)](#)

Hines, Earl Burns, Eddie Hansen, Morten Kureer, Jørgen Lane, Morris Pruitt, Carl Redd, Gene Wells, Dickie
p 2006

Tilføj til e-Hylde

[Bestil\(\)](#)

[Se alle materialer](#)

3



[Masters of jazz \(Se detaljer\)](#)

Webster, Ben Bertelsen, Aage Bjerre, Holger Bjerregaard Jensen, H. Blankholm,
Gunnar Aagaard, Pelle Bøtkjær, Allan Brøn, Kasper Enevoldsen, Dag Gørdan

Sprog:

- > [Danish \(66\)](#)
- > [English \(273\)](#)
- > [French \(13\)](#)
- > [German \(8\)](#)
- > [Italian \(1\)](#)
- > [Multiple languages \(31\)](#)
- > [Portuguese \(9\)](#)
- > [Spanish \(3\)](#)
- > [Swedish \(12\)](#)
- > [Undetermined \(36\)](#)

Forfatter/ophav:

- > [Lindemann, E \(42\)](#)
- > [Ørsted Pedersen, N \(31\)](#)
- > [Riel, A \(26\)](#)
- > [Jensen, T \(22\)](#)
- > [Lundgaard, J \(22\)](#)
- > [Vis 15 mere](#)

Udgivelsesår:

- > [Efter 2002 \(344\)](#)
- > [1994 til 2002 \(317\)](#)
- > [1986 til 1994 \(91\)](#)
- > [1967 til 1986 \(13\)](#)
- > [Før 1967 \(18\)](#)

Samling:

- > [Indspilninger \(356\)](#)
- > [Det Nationale Fotomuseum \(353\)](#)
- > [Flora Danica \(35\)](#)
- > [Den Nationale Billedbase \(16\)](#)
- > [Teatertekster \(15\)](#)
- > [Dramatisk Bibliotek \(15\)](#)
- > [Den Nationale Billedbase - Skannede billeder \(13\)](#)
- > [Museet for Dansk Bladtegning \(3\)](#)
- > [Håndskriftsamlingen \(2\)](#)

[Opdater tilgængelighed](#)

Schwenger, Hans Chr. Shihab, Sahib Steen, Niels Jørgen Streenberg, Ole Thilo, Jesper Willer-Nielsen, Helge Wilson, Teddy Windfeld, Axel Ziegler, Finn Ørsted Pedersen, Niels-Henning
p 2006

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[Bestil\(\)](#)
[Se alle materialer](#)

4



Bog

[Duke Ellington, a listener's guide, Eddie Lambert](#) (Se detaljer)

Lambert, Eddie Rutgers University, Institute of Jazz Studies
1999

 Tilføj til e-Hylde[Se bestillingsmuligheder\(\)](#)

5



Indspilning

[Rare Danish recordings by a Swedish jazz legend](#) (Se detaljer)

Billberg, Rolf Axen, Bent Bagge, Lars Bjørn, Atli Botschinsky, Allan Brüel, Max Frederiksen, Finn Godske, Poul Grauengård, Jørn Gullin, Lars Landsvig, Mogens Moberg, Urban Molin, Ole Mølbak, Erik Ryg, Jørgen Schiöppfe, William Ørsted Pedersen, Niels-Henning
p 2005

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[Bestil\(\)](#)
[Se alle materialer](#)

6



Bog

[Moving to higher ground, how jazz can change your life, Wynton Marsalis, with Geoffrey C. Ward](#) (Se detaljer)

Marsalis, Wynton, 1961-; Ward, Geoffrey C.
2008

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7



Indspilning

[Jazz airs](#) (Se detaljer)

Svare/Thoroddsen Svare, Jørgen Bjørn Thoroddsen Jón Rafnsson Kock Hansen, Ole
2003

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8



Audiovisuelt

[Legends of jazz drumming, produced by Rob Wallis, Paul Siegel, co-produced & written by Bruce Klauber, narrator and host Louie Bellson, commentary Roy Haynes, Jack DeJohnette](#) (Se detaljer)

Klauber, Bruce
2005

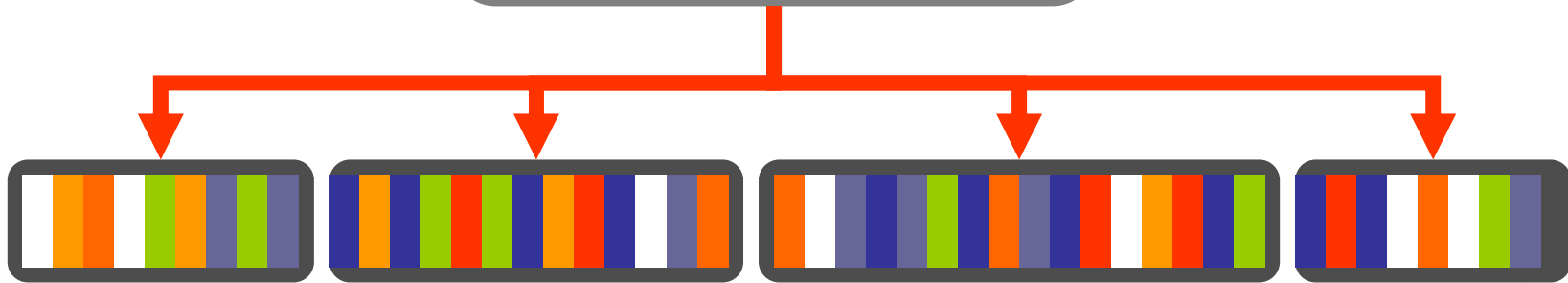
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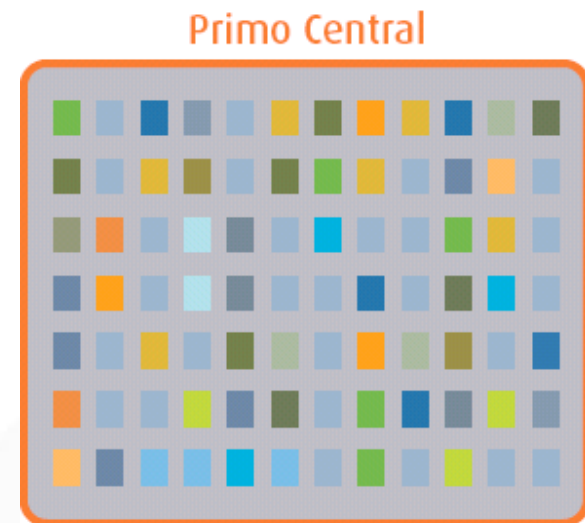
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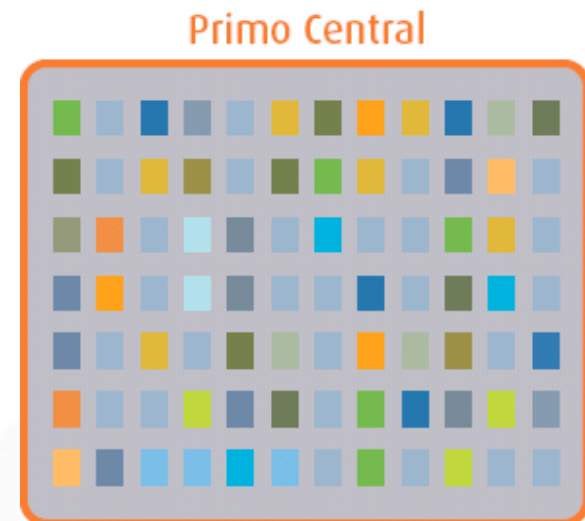
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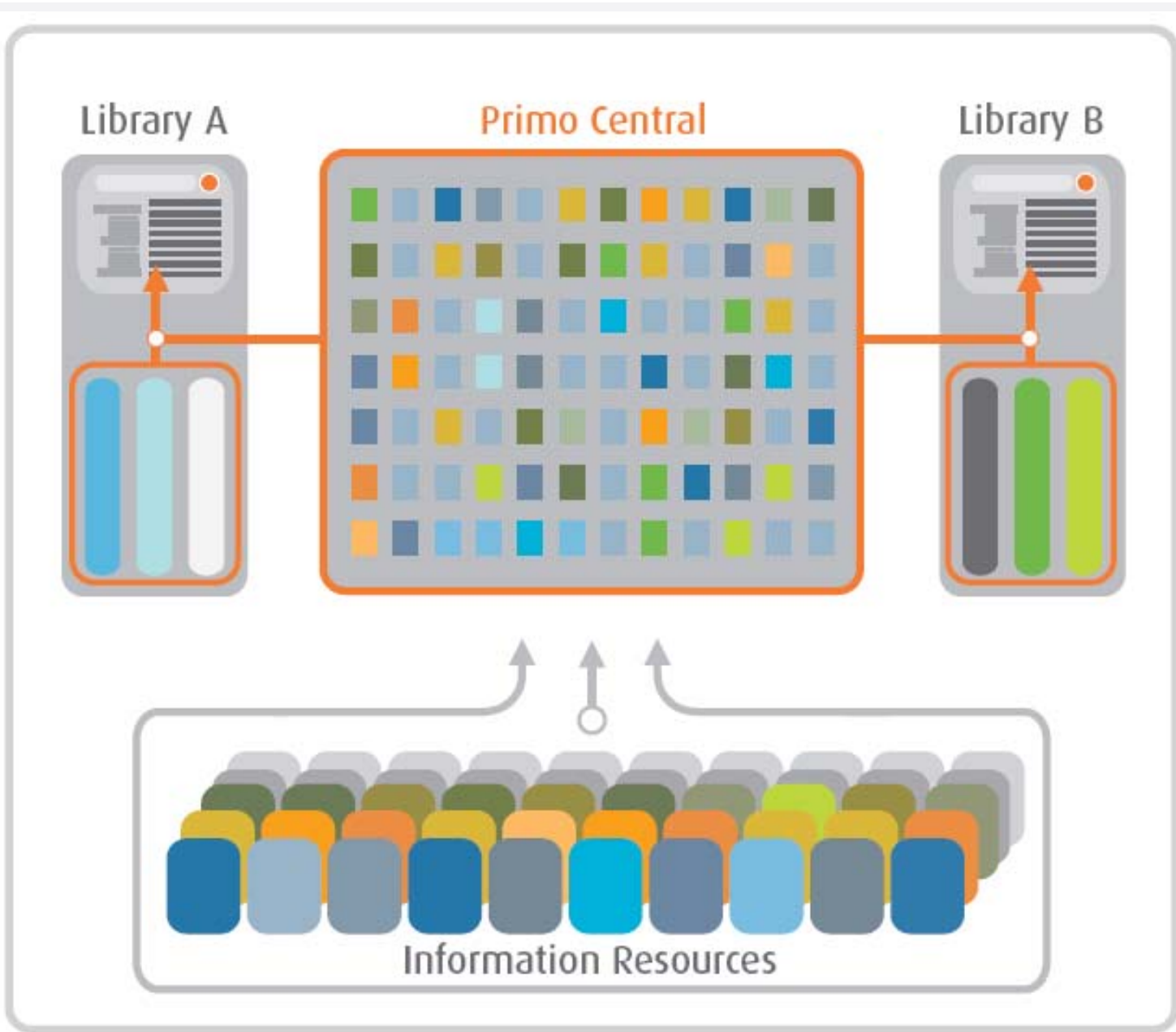
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- Available to all MetaLib customers





The search scope

- High quality scholarly materials of global or regional significance, including licensed collections and open-access repositories
- Indexing of metadata, abstracts, and full text, depending on information providers
- Full text used for indexing purposes only

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Title: Topological quantum computation.

Author: Sarma, Sankar Das ; Freedman, Michael ; Nayak, Chetan

Subjects: Particle physics--Research ; Quantum Hall effect--Analysis ; String theory--Analysis

Is Part Of: Physics Today, July, 2006, Vol.59(7), p.32-38 [Peer Reviewed Journal]

Description:

The search for a large-scale, error-free quantum computer has led to an intellectual junction, where the semiconductor physics, knot theory, string theory, anyons and quantum Hall effects have come

- Freedman, Michael (6)
- Maizuoli, Annalisa (7)
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Figure 1. To a topologist, a donut and a coffee cup are the same because they can be continuously deformed into each other without tearing or rejoining the surface.

Another example of topology is knot theory, which says, for instance, that there is no continuous way to unknot a knotted loop of string. Knot theory is particularly relevant to the physics underlying topological quantum computation. Rather amusingly, similar knot-theory concepts([n2](#)) also arise in a completely different area of physics, conformal field theory,([n3](#)) which has possible applications to string theory.

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- Arts & Sciences (JSTOR) (81)
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- Language & Literature (JSTOR) (24)
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Creator

- Pettigrew, Thomas F (4)
- Austen, J (3)
- Tracy, Jessica L (3)
- Burkman, Thomas W (2)
- Deresiewicz, William (2)
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Jane Austen 1775-1817. 1950
Available at North Campus Main Library General collection (825Au73 OPrK92)

Book

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PRIDE AND PREJUDICE

Roberto Polanco - Carrasco
Cuadernos de Neuropsicologia, 2009, Vol.3(2), p.135
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Pride and prejudice

Northen, Stephanie
Nursing standard (Royal College of Nursing (Great Britain) : 1987), Vol.22(22), p.18-20
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Bogod, D
Anaesthesia, Dec, 2009, Vol.64(12), p.1277-9 [Peer Reviewed Journal]
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Mason, Diana J
Nursing New Zealand (Wellington, N.Z. : 1995), Oct, 2007, Vol.13(9), p.19-21

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Austen, J (3)
Tracy, Jessica L (3)
Burkman, Thomas W (2)
Deresiewicz, William (2)
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English (667)
French (2)
Undetermined (1)

Creation Date

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1957 To 1971 (33)
1971 To 1983 (71)
1983 To 1995 (153)
After 1995 (2,136)

Resource Type

Articles (2,435)
Books (5)
Other (1)
Text Resources (1)

Classification LCC

P - Language and literature. (3)
E - History: America (1)

Journal Title

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Lock, S
BMJ (Clinical research ed.), May, 1989, Vol.298(6682), p.1197
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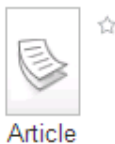
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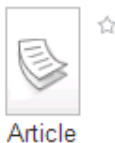


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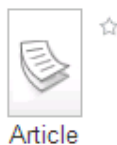
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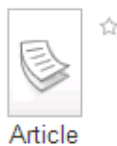


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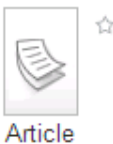
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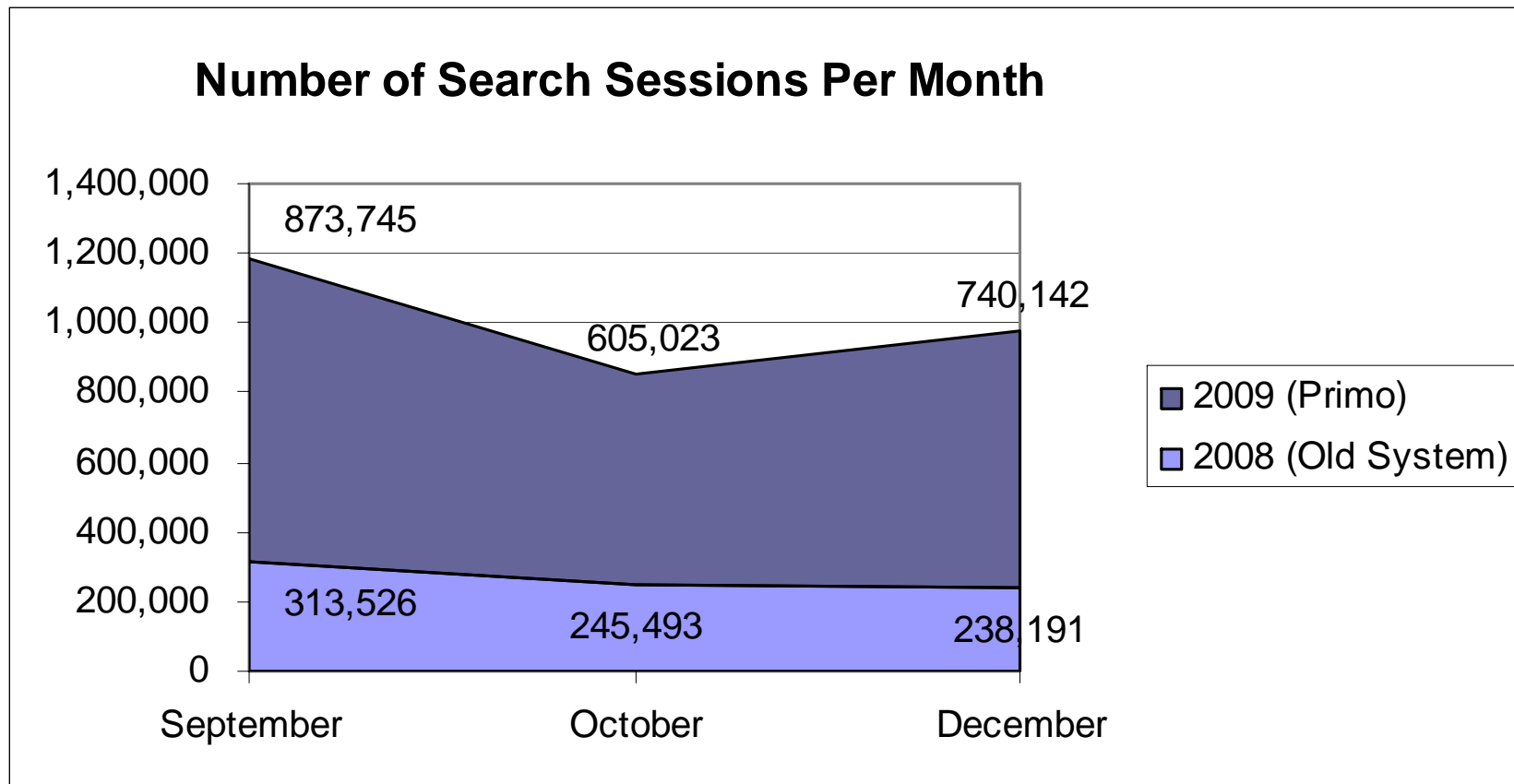
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- Library-controlled means to focus on the relevant materials
- Relevant library services, including article recommendations

Yonsei University, Seoul, South Korea

Implemented Primo in September 2009



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춘향전	0.9	1	12.03	3
무정	1.25	1	12.22	4
삼대	1.23	1	11.41	4
토지	1.18	1	10.3	10
광장	1.13	1	8.87	5
시경	1.01	1	8.05	15
초사	1.13	1	7.88	12
사육	1.14	1	8.64	15
젊은 예술가의 초상	1.19	1	8.93	2
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Bibliography

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- Saracevic, T. (2007) Relevance: A Review of the Literature and a Framework for Thinking on the Notion in Information Science. Part II: Nature and Manifestations of Relevance. *Journal of the American Society for Information Science and Technology*, 58(13):1915–1933

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Tamar Sadeh, Director of Marketing
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