



Discovery neu überdacht: Suchen,  
Sondieren, Lernen

Christine Stohn, Senior Product Manager, Discovery & Delivery

  
**ExLibris**  
The bridge to knowledge

# Agenda

- Nutzer, Medien, Discovery
- Discovery beyond searching: Sondier- und Lernpfade
- Discovery als Gateway
- Überlegungen für die Zukunft

## Nutzer kommen mit verschiedenen Zielsetzungen



## Discovery-Indizes halten vielfältige Informationen bereit

Primo Central (1 Mrd. Einträge)  
Primo lokale Bestände



Unter-  
schiedliche  
Materialtypen

Unter-  
schiedliche  
Disziplinen

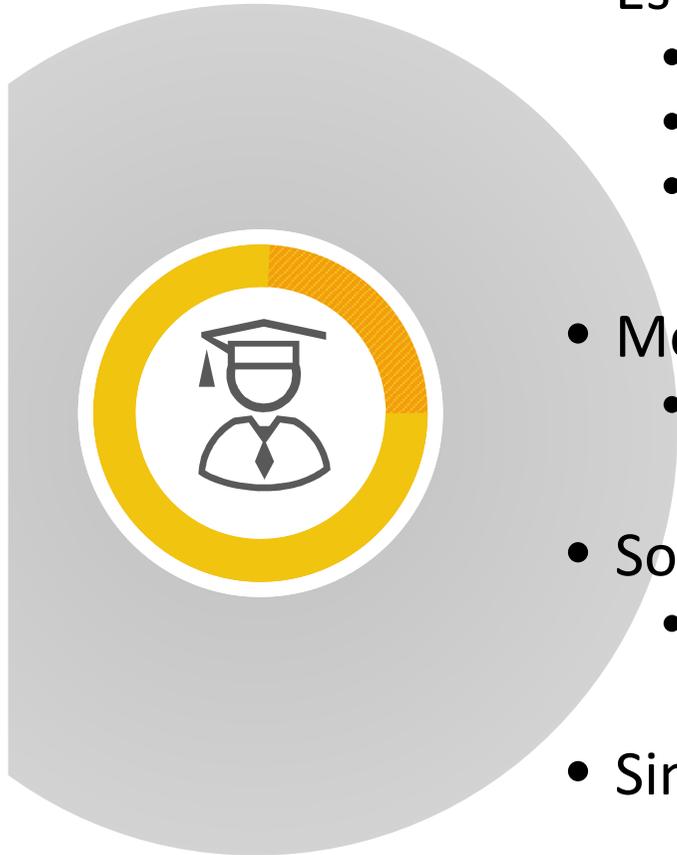
Unter-  
schiedliche  
Medienarten

Unter-  
schiedliche  
akademische  
Niveaus

Unter-  
schiedliche  
Tiefe

Jede Institution hat ihre eigenen Gegebenheiten, Nutzerprofile und Ideen

# Notizen zu Nutzerverhalten und Erwartungen



- Es muss schnell gehen
  - Einfache und schnelle Ergebnisse
  - Kernfunktionen auf den ersten Blick
  - Keine lange Erklärungen
- Mobil
  - An personalisierte Erfahrungen gewöhnt
- Sozial
  - Konsultieren, austauschen
- Sind an automatische Vorschläge gewöhnt
- Nutzen Referenzpfade für Zufallsentdeckungen

## Nutzergeschichten

**Kürzlich musste ich Forschungsartikel zur Vorbereitung eines Gesprächs über optische Halbleiterverstärker finden. Ich hatte das Ziel, sowohl die aktuellen Entwicklungen auf diesem Gebiet als auch wichtige Publikationen zu diesem Thema vorzustellen, um das grundlegende Konzept darzulegen.**

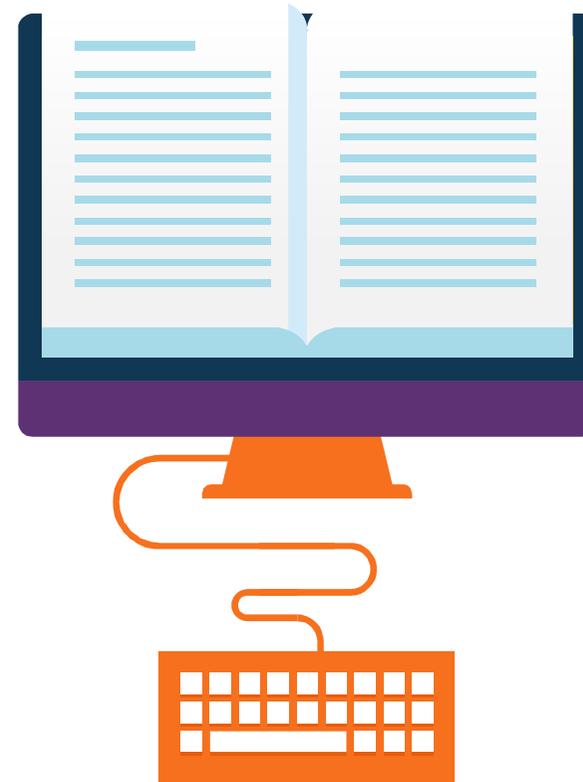
**Fortgeschrittener Student, Physik**

**Vor kurzem hatte ich die Aufgabe, Informationen über eine bestimmte Therapie (Photopherese) für die Behandlung der Graft-versus-Host-Reaktion zu sammeln. Am wichtigsten war für mich, erst einmal einen allgemeinen Überblick über das Thema und den aktuellen Forschungsstand zu erhalten. Ich begann mit einer Google-Suche nach „Photopherese“, fand aber nichts nützliches; als ich aber durch die Hilfe meiner Kommilitonen Material gefunden hatte, machte es sehr viel Spaß, tiefer in das Themengebiet vorzustoßen.**

**Studienanfänger, Medizin**

# Kernkonzepte Discovery

- Suchen und finden
- Sondierung
- Lernen
- Personalisierung



# Sondierung der Umgebung: Gezielte Zufallsentdeckungen

The screenshot shows a library search interface with the following elements:

- Header:** "BU Libraries Search" logo, "All Library Resources" and "Course Reserves" tabs, a search bar containing "sugar revolution", and a "Journal Title Search Help" link.
- Search Bar:** "sugar revolution" is entered. Below it are dropdown menus for "ain my query words" and "anywhere in the record".
- Buttons:** "Browse Search" and "Advanced Search" links.
- Notification:** A yellow box says "BU affiliates Sign In to see additional results and services".
- Results Section:** "Results 1 - 10 of 23,212 for All Library Resources" and "Sorted by: Relevance".
- Filters:** "Show only Peer-reviewed Journals (14,009) Full Text Online (23,191) Available in library (20)".
- Result Card:** "The sugar revolution" by Higman, B. W. from "The Economic History Review, 2000, Vol.53(2), pp.213-236 [Peer Reviewed Journal]". It includes a "Full text available" indicator and a "View Like" button.
- Refinement Sidebar (Left):**
  - Expand My Results:** Includes checkboxes for "Expand My Results" and "Include Flickr Images".
  - Refine My Results:**
    - Resource Types:** Articles (16,554), Audio Visual (101), Books (2,765), Conference Proceedings (182), Dissertations (2), More options.
    - Subject:** United States (595), History (414), Politics (290), Slavery (285), Cuba (248), More options.
    - Creator:** Galloway, J. H. (6), Knight, G. Roger (5), Sicotte, Richard (4), Moses, Robert G. (3), Tobin, Beth Fowkes (3).
- Recommendations (Right):** A section titled "bx Users interested in this article also expressed an interest in the following:" with a list of related articles and a "View More..." link.

# Lern- und Sondierunspfade als Teil des Discovery Systems

**Boston University Libraries** e-Shelf My Account Sign In

**BU Libraries Search** BETA  Q Clear Journal Title Search Help

All items that contain my query words anywhere in the record

[Browse Search](#) [Advanced Search](#)

**The slave trade, sugar, and British economic growth, 1748-1776.**  
David D Richardson  
The Journal of interdisciplinary history. ,1987,Vol.18(4),p.739-769  
● **Fulltext available**

[Find Online](#) [More Information](#) **Recommendations**

		Actions
<b>bX</b> Users interested in this article also expressed an interest in the following:		About bX
1.	Higman, B. W. W <a href="#">THE SUGAR REVOLUTION</a> . The Economic history review 53.2 (2000) 213-236	
2.	Harreld, Donald J. J <a href="#">ATLANTIC SUGAR AND ANTWERP'S TRADE WITH GERMANY IN THE SIXTEENTH CENTURY</a> . Journal of early modern history 7.1/2 (2003) 148-163	
3.	Sheridan, Richard B <a href="#">AFRICA AND THE CARIBBEAN IN THE ATLANTIC SLAVE TRADE</a> . The American historical review 77.1 (1972) 15-35	
4.	Schmidt-Nowara, Christopher <a href="#">BIG QUESTIONS AND ANSWERS: THREE HISTORIES OF SLAVERY, THE SLAVE TRADE AND THE ATLANTIC WORLD</a> . Social history 27.2 (2002) 210-217	
<a href="#">View More...</a>		

# Literaturzitate und Zitatpfade

Hindawi Publishing Corporation  
Oxidative Medicine and Cellular Longevity  
Volume 2012, Article ID 906252, 23 pages  
doi:10.1155/2012/906252

## Review Article

### Cocoa Polyphenols and Their Potential Benefits for Human Health

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This paper compiles the beneficial effects of cocoa polyphenols on human health, especially with regard to cardiovascular diseases, metabolic disorders, and cancer prevention. Their antioxidant properties may be responsible for their pharmacological effects, including the inhibition of lipid peroxidation and the protection of LDL-cholesterol oxidation, and increase resistance to oxidative stress. The phenolics from cocoa also modify the glycemic response a profile, decreasing platelet function and inflammation along with diastolic and systolic arterial pressures, which, in turn, may reduce the risk of cardiovascular mortality. Cocoa polyphenols can also modulate intestinal inflammation reduction of neutrophil infiltration and expression of different transcription factors, which leads to decreases in the proinflammatory enzymes and cytokines. The phenolics from cocoa may thus protect against diseases in which oxidant is implicated as a causal or contributing factor, such as cancer. They also have antiproliferative, antimutagenic, and chemopreventive effects, in addition to their anticarcinogenic effects.

#### 1. Introduction

Plant phenols from numerous plant species are being actively studied as potential treatments for various metabolic and cardiovascular diseases. For example, resveratrol from red wine [1, 2], epigallocatechin-3-gallate from green tea [3–5], curcumin from turmeric [6], and quercetin [7–12] from different sources have all been studied as potential therapeutic agents, to induce weight loss, lower blood pressure, attenuate glucose levels and insulin resistance (resveratrol), and improve hemoglobin A1c and lipid profile in humans (epigallocatechin-3-gallate). Other studies also carried out in humans have shown the beneficial effects of grape seeds, chokeberries, coffee, carob, and cocoa [13]. This paper reviews the most recent research on this last substance and its potential benefits for human health.

Since the seventeenth century, cocoa and chocolate have been described as potential medicines. In Europe, various historical documents refer to chocolate's medicinal value; thus, although it was drunk as a beverage with a pleasurable taste, it was primarily eaten as a food to treat a number of

disorders, including angina and heart pain [14]. *Theobroma cacao* L. (Sterculiaceae) and its products are worldwide and are studied mainly because of its antioxidant and antiradical properties *in vitro* of some polyphenolic constituents, especially procyanidins, flavanols [15]. Many studies have described cocoa polyphenols as bioactive compounds, especially prominent metabolic and cardiovascular effects. These effects in part, to the antioxidant [16] and antiradical of cocoa phenolics [17], which increase the plasma levels of antioxidants to prevent the oxidation of LDL [18]. Along with their known antiplatelet effects, particular properties are related to the protective effects of cocoa phenolics in heart disease [18]. Other properties include their ability to modulate the inflammatory response [20–24] and their anti-inflammatory [25] anticarcinogenic properties [26, 28]. In this paper we have focused on the beneficial effects of cocoa polyphenols on human health, especially with regard to cardiovascular and inflammatory diseases, metabolic disorders, and prevention as well as on their antioxidant properties

GIIC: Gap-junction intercellular communication  
GM-CSF: Granulocyte macrophage colony-stimulating factor  
HDL: High-density lipoprotein  
HepG2: Human hepatocellular carcinoma  
IBD: Inflammatory bowel disease  
IC<sub>50</sub>: Inhibitory concentration-50  
ICAM: Intercellular adhesion molecule  
IFN- $\gamma$ : Interferon- $\gamma$   
Ig: Immunoglobulin

#### Acknowledgments

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# Zitatpfade in der neuen Primo Nutzeroberfläche\*

The screenshot displays a web browser window with the URL `primo-demo.exlibrisgroup.com:1701/primo-explore2/features/citation_trail/`. The browser's address bar and tabs are visible at the top. The main content area is divided into a left sidebar and a right main panel. The sidebar, titled "Water", shows a list of 14 search results. The first result is a book titled "Water : for health, for healing, for life: you're not sick, you're thirsty!" by Batmanghelidj, F., published in New York by Warner Books in 2003. This book is highlighted, and its citation trail is shown in the main panel. The citation trail includes a "Citations" section with options to "Find sources citing this" or "sources cited in this". Below this is a "Send to" section with icons for Refworks, Endnote, Easybib, Citation, Permalink, Print, and E-mail. A "View it" section is also present. At the bottom, a "Digital Version(s) Availability" box indicates that all registered users have access to 4 files (jpg), with a note that only registered users have access. The Ex Libris logo is visible in the bottom right corner of the browser window.

\*Vorläufiges Design, kann sich noch etwas ändern

# Zitatpfade in der neuen Primo Nutzeroberfläche\*

The screenshot displays the Primo user interface. At the top, a navigation bar shows a back arrow, the text "Your current citation path", and a "Save path" button. Below this, a white box highlights "NOW LISTING SOURCES CITED IN:" with the text "Water : for health, for healing, for life: you're not sick, you're thirsty!" and the author "Batmanghelidj, F".

The main content area shows "14 Results" and a list of search results. The first result is a JOURNAL titled "Water!" from MDPI Pub. in Basel, Switzerland, with a note "Available full text online". The second result is a BOOK titled "Water : culture, politics and management" by The Festival of Water (2004), published by Pearson in Delhi. The third result is a BOOK titled "Water : for health, for healing, for life: you're not sick, you're thirsty!" by Batmanghelidj, F, published by Warner Books in New York, with a note "Available Mugar Memorial Library offsite storage: (Z5931.U5.F65)". The fourth result is a BOOK titled "Water : the essence of life" by Niemever, Mark, published in 1958.

On the right side, there is a "Tweak your results" section with three options: "For future use", "Important stuff", and "Secondary read".

\*Vorläufiges Design, kann sich noch etwas ändern

# Zitatpfade in der neuen Primo Nutzeroberfläche\*

The screenshot displays the Primo user interface. At the top, a dark blue header contains a back arrow and the text "Your current citation path" with a "Save path" link. Below this, three citation path boxes are shown: "Water : for health for healing, for life: you're not sick, you're thirsty!", "Water : culture, politics and management", and "Water!". To the right, a white box titled "NOW LISTING SOURCES CITING:" contains the text "Annual report of the Boston Water Board, for the year ending... Boston (Mass.). Water Board. 1877".

The main content area shows "14 Results" and a list of search results. The first result is a JOURNAL titled "Water!" from MDPI Pub. The second is a BOOK titled "Water : culture, politics and management" by Pearson. The third is a BOOK titled "Water : for health, for healing, for life: you're not sick, you're thirsty!" by Warner Books. The fourth is a BOOK titled "Water : the essence of life" by Niemever. Mark. To the right of the results is a "Tweak your results" sidebar with options: "For future use", "Important stuff", and "Secondary read".

\*Vorläufiges Design, kann sich noch etwas ändern

# Sondieren und Lernen: Virtual Browse

Boston University Libraries

e-Shelf

My Account

Sign In

 Libraries Search

All Library Resources Course Reserves

animal assisted therapy



Clear

Help  
Journal Title Search

All items

that contain my query words

anywhere in the record

[Browse Search](#)

[Advanced Search](#)

## Expand My Results

- Include results without full-text
- Include WorldCat
- Include Flickr Images

## Refine My Results

### Resource Types

Articles (1,424)  
Audio Visual (1)  
Books (22)  
Conference Proceedings (45)  
Dissertations (684)

More options

### Creation Date

From  To  [Refine](#)

1000  2015

### Creator

Anonymous (129)  
Berget, Bente (8)  
Beck, Alan (7)  
Braastad, Bjarné O. (6)

More options

### Subject

Psychology (439)  
Animal Assisted Therapy (20)

Results 1 - 10 of 2,758 for All Library Resources

Sorted by: **Relevance** 1 2 3 4 5

Show only [Peer-reviewed Journals](#) (702) | [Full Text Online](#) (2,752) | [Available in library](#) (8)

BU affiliates [Sign In](#) to see additional results, services, and request options



Book

### Animal-assisted therapy

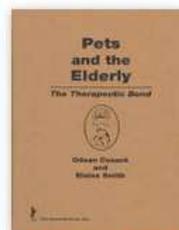
Altschiller, Donald. ; c2011

● Available at Mugar Memorial Library Stacks (RM931.A65 A54 2011)

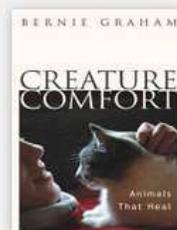
[Save/Email](#)

[Find in Library](#) [More Information](#) **Virtual Browse**

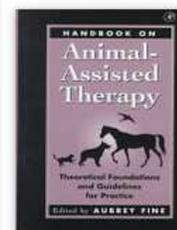
[Save/Email](#) [Print](#) [Close](#)



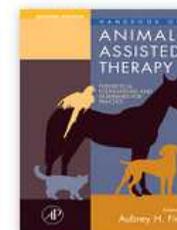
RM931.A65 C88 1984



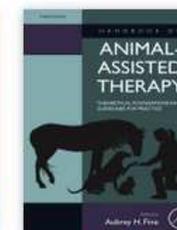
RM931.A65 G73 2000



RM931.A65 H36 2000



RM931.A65 H36 2006



RM931.A65 H36 2010



RM931.A65 P53 2007

« [Previous](#)  
**Creature comfort : animals that heal**  
Graham, Bernie

[Next](#) »

Help



## Discovery als Gateway

# Discovery als Gateway



# Discovery als Gateway

Boston University Libraries

e-Shelf

My Account

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 Libraries Search

All Library Resources

Course Reserves

Nonlinear Science



Clear

Journal Title

All items

that contain my query words

anywhere in the record

[Browse Search](#)

[Advanced Search](#)

## Expand My Results

- Include results without full-text
- Include WorldCat
- Include Flickr Images

## Refine My Results

### Resource Types

Articles (401,234)

Books (964)

BU Research Guides (1)

Conference Proceedings (7,327)

Dissertations (8,983)

More options

### Creation Date

From  To

Refine

1000

Results 1 - 10 of 432,491 for All Library Resources

Sorted by: Relevance

1 2 3

Show only [Peer-reviewed Journals \(181,027\)](#) | [Full Text Online \(432,279\)](#) | [Available in library \(247\)](#)

BU affiliates [Sign In](#) to see additional results, services, and request options



### Nonlinear Science

Paula Carey

<http://www.bu.edu/library/guide/nonlinear/>

Save/Email

● Online access

[Find Online](#)

[More Information](#)



### Nonlinear science

National Research Council (U.S.). Naval Studies Board. Panel on Mathematics (Nonlinear Science and the Navy); 1997

Washington, D.C. : National Academy Press

Save/Email

● Online access

# Discovery integriert mit Lehre und Lernen: Kursmaterialien in Primo

Boston University Libraries e-Shelf My Account Sign In

Libraries Search

All Library Resources **Course Reserves**

IR542

anywhere in the record

[Browse Search](#) [Advanced Search](#)

Results 1 - 10 of 112 for Course Reserves Sorted by: Relevance 1 2 3 4 5

BU affiliates [Sign In](#) to see additional results, services, and request options

**WHO AND MALARIA ABATEMENT IN SUB-SHARAN AFRICA: ASSESSING POLICY OPTIONS.**  
SPILLER, CHRISTINA.  
2007.  
**Available at** Mugar Memorial Library Reserve Room (MG1 IR542 OS)  
[Find in Library](#) [More Information](#) [Virtual Browse](#) [Save/Email](#)

**Return to diversity : a political history of East Central Europe since World War II**  
Rothschild, Joseph. ; 1989  
**Available at** Mugar Memorial Library Stacks (DJK50 .R67 1989 ) **and other locations**  
[Find in Library](#) [More Information](#) [Virtual Browse](#) [Save/Email](#)

**EUROPE, 1815-1914.**  
Craig, Gordon Alexander, 1913-2005.  
**Available at** Mugar Memorial Library Reserve Room (MG1 LU160 OS)  
[Find in Library](#) [More Information](#) [Virtual Browse](#) [Save/Email](#)

**Refine My Results**

**Course Name**  
International Relations  
Masters' Theses (1)  
Lukes, Igor (111)  
[More options](#)

**Course Codes**  
IR542 (111)  
IR543 (111)  
PO556 (111)  
PO557 (111)  
[More options](#)

**Instructors**  
Goldstein, Erik (1)  
Lukes, Igor (111)  
[More options](#)

**Suggested New Searches**

**by this author/creator:**  
Lukes, Igor  
Rutland, Peter  
Fisher, Sharon G  
Ortung, Robert W  
Parish, Scott D.

**on this subject:**  
Europe, Eastern

**Help**

# Unterschiedliche Nutzer, unterschiedliche Einstiegspunkte



Library  
Discovery



Bibliotheks-  
webseiten



Semester-  
apparate und  
Leselisten



Google  
und andere  
Zugänge

Printbestände

Forschungsdaten

Research Guides

Kursmaterialien

Elektronische Bestände

Digitale Sammlungen

Lernsoftware

...

Lernen, wissen, teilen

# Bibliotheksfachseiten als Einstiegspunkt

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## Boston University Libraries

Search In ▾[Advanced Search](#) | [Search Help](#)[Home](#) > [Research](#) > [Library Guides](#) > [Research Guides](#) >

## Nonlinear Science

[Guide Index](#) ▾

BU Libraries SEARCH

search keywords e.g. "nonlinear science and complexity"



### Core Databases

- [Biological Abstracts](#)
- [COMPENDEX](#) (all engineering disciplines) 1884+
- [Engineering Village](#) (combined search of the [INSPEC](#) and [COMPENDEX](#) databases)
- [IEEE Xplore Digital Library](#)  
The complete archive of IEEE publications: journals, ebooks and conferences.
- [INSPEC](#) (electrical engineering, computer & control and physics journals) 1896+
- [MathSciNet](#)
- [Web of Science](#)

### Guide Authors

**Paula Carey**

Librarian  
Mugar Memorial  
Library, Science and  
Engineering Library  
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# Discovery als Gateway





# Überlegungen für die Zukunft

**Datenvisualisierung**  
**Personalisierung**

# Topic exploration - Eyeplorer

Discover relations linked to French Revolution

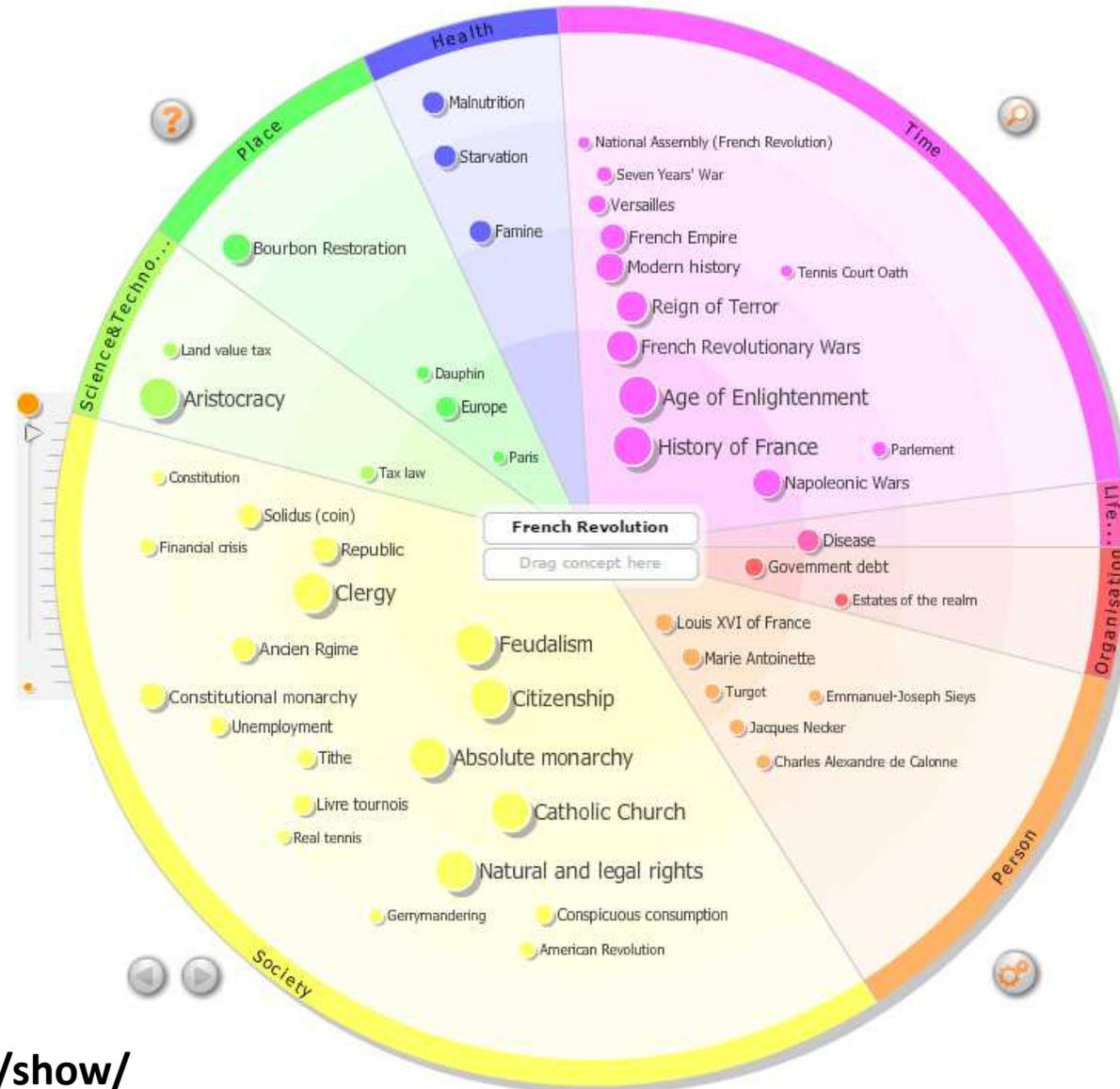
## French Revolution

The French Revolution (1789–1799) was a period of political and social upheaval and radical change in the history of France, during which the French governmental structure, previously an absolute monarchy with feudal privileges for the aristocracy and Catholic clergy, underwent radical change to forms based on Enlightenment principles of citizenship and inalienable rights. These changes were ...  
 (from Wikipedia\*: French Revolution)

\* This summary is licensed under the GNU Free Documentation License.

all facts

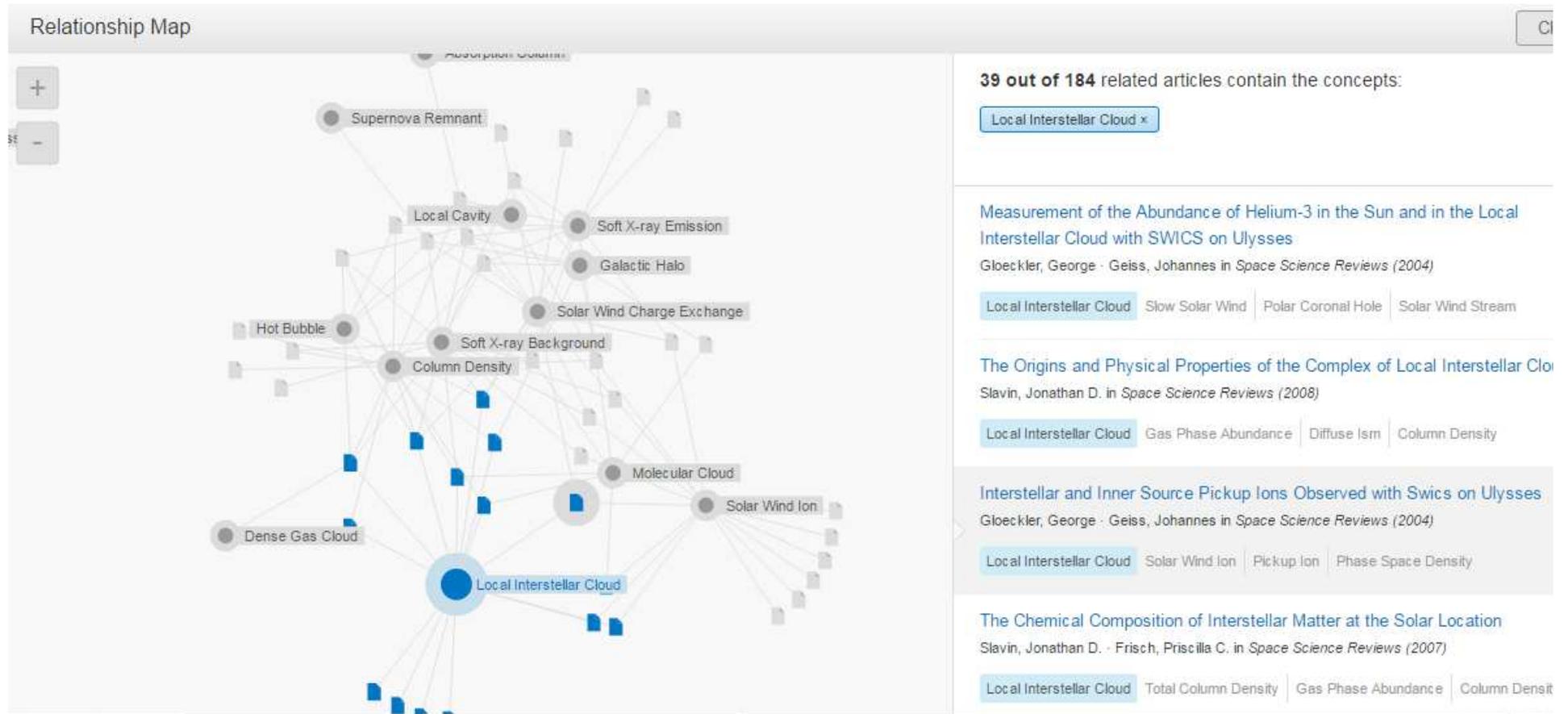
notes



Disclaimer

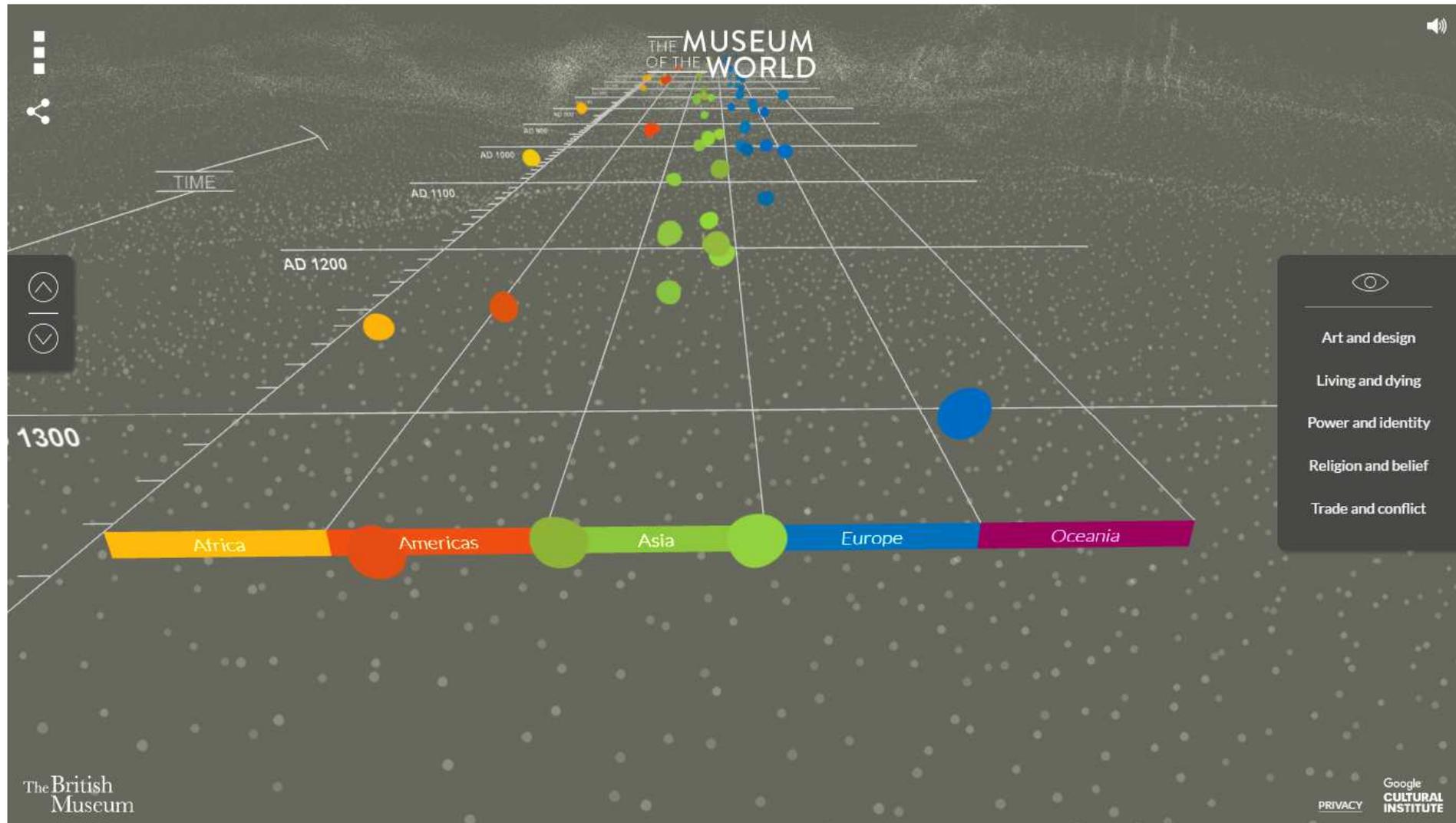
<http://en.eyexplorer.com/show/>

# SpringerLink – related content relationship map



link.springer.com

# Visual Exploration mit Daten



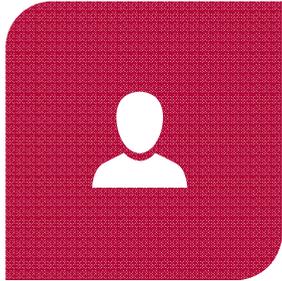
<https://britishmuseum.withgoogle.com/>

## Personalisierung und “anticipatory” Discovery

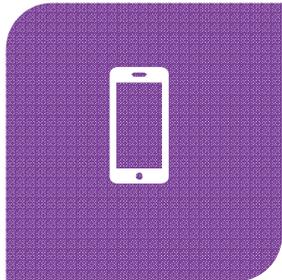


- **Aktive Auswahlmöglichkeiten des Nutzers beeinflussen das Ranking, z. B. bei**
  - Fachgebiet
  - Alter der Publikation
- **Passive Auswahl – Nutzerpräferenzen “erahnen”, basierend auf Nutzungsprofil**
  - Wie Google?
  - Privacy concerns?
  - Zielgerechter aber auch beschränkter?
  - Kritische Masse, um ein Profil erstellen zu können?
  - Nutzerprofil basierend auf Kursauswahl?

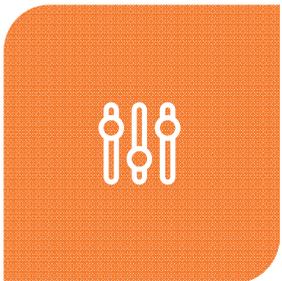
## Neue Nutzeranforderungen, neue Konzepte, neue Medien, neue Technologien,



Nutzererwartungen  
und -zielsetzungen



Nutzermobilität



Materialmasse und -  
verschiedenartigkeit

- ✓ Unterstützung aller Discovery Kernkonzepte
- ✓ Unterstützung verschiedenartiger Medien
- ✓ Nutzung von *Big Data* Technologien für Analytics und Enrichment
- ✓ Synergien mit anderen Systemen
- ✓ Integration von Bibliotheksdienstleistungen
- ✓ Zeitgemässes und nutzergerechtes *User Experience Design*
- ✓ Unterstützung von verschiedenen Einstiegspunkten



**THANK YOU**

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