Discovery Services: Academically Enhanced Google?

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SidLit 7/31/2015
Discovery Services

- Development
  - Federated Search Engines
  - Next Generation Catalogs
- Evaluation
  - Interface
  - Connectivity
  - Relevancy algorithms
12 shades of Discovery Tools

- Single Point of Entry
- State of the art web interface
- Enriched Content
- Faceted navigation
- Simple keyboard search box on every page
- Relevancy
- Did you mean... ?
- Recommendations /related material
- User Contribution
- RSS Feeds
- Integration with social networking sites
- Persistent links

Yang & Wagner, 2010
Discovery Tools

Proprietary tools
- Summon Serial Solutions
- EBSCO Discovery Service
- BiblioCommons
- Encore-Innovative Interfaces
- OCLC
- SersiDynix
- [5 others]

Open Source
- Backlight
- Fac-Bac-OPAC
- LibraryFind
- Rapi
- Scriblio
- COPAC
- VuFind
Summon Discovery Tools

Search Results: Your search for Discovery Tools returned 3,039,070 results

Refine your search
- Items with full text online
- Limit to articles from scholarly publications, including peer-review
- Limit to articles from peer-reviewed publications
- Exclude Newspaper Articles
- Items in the library catalog
- Add results beyond your library's collection

Recommendation: We found one or more specialized collections that might help you.
- ProQuest Central

DISCOVERY TOOLS
by Anonymous
Online Searcher, ISSN 2324-9684, 03/2013, Volume 37, Issue 2, p. 6
... databases and archives fully discoverable through WorldCat Local. EBSCO will add Accessible Archives' historical databases to its Discoveries Information services industry

UK boosts discovery tools
by Sinha, Gunjan
Nature biotechnology, ISSN 1087-0156, 02/2020
Federal aid to research, Medicine, Experimental Medical research

Single Point of Entry
- State of the art web interface
- Enriched Content
- Faceted navigation
- Simple keyboard search box on every page
- Relevancy
Recommendation: We found one or more specialized collections that might help you.

- ProQuest Central
- MasterFILE Premier

Academic Libraries and Discovery Tools: A Survey of the Literature

College & Undergraduate Libraries, ISSN 1069-1316

Discovery tools are becoming increasingly popular. Information available concerning the tools used regarding evaluation... roles of librarians, instruction, literature... This is a list of online Journal Article: Full Text Online

Evaluating Library Discovery Tools through a Music Lens

by Rebecca Belford

Library Resources & Technical Services, ISSN 0022-0418

This article outlines how to use specialized catalog... collections... Document delivery, Bibliographic data... This is a list of online Journal Article: Full Text Online

Discovery tools as electronic billboards to market your titles

by Shapiro, Steven David

Library Hi Tech News, ISSN 0741-9058, 11/2014, Vol... Unlike electronic billboards, discovery services constitute, if you will, the Library world's answer to LibGuides, Marketing, Widgets... This is a list of online Journal Article: Citation Online

Did you mean...?

- Recommendations/related material
- User Contribution
- RSS Feeds
- Integration with social networking sites
- Persistent links
Enriched Content
Publisher's Weekly Review

Tarakobrelli picks up where he left off in Jackie, Ethel, Joan, adding more revelatory portraits of the Kennedys during the past four decades. To document America's "royal family," he conducted interviews with family members and their intimates, such people as Eunice Kennedy Shriver, Oleg Cassini, Robert McNamara, Pierre Salinger, Arthur Schlesinger Jr., and numerous confidential sources. He also relied heavily on the 40 years of personal correspondence between Jackie Kennedy and Lady Bird Johnson. There's a parade of triumphs and tragedies, along with an insider's view of family dynamics in crises both public and private: financial negotiations before Jackie's marriage to Onassis; family interference in Pat Lawford's troubled marriage; Ted Kennedy's bad behavior at Chappaquiddick, and his support of Caroline's abortive Senate run to carry on the "family dynasty." Tarakobrelli has a fine flair for turning dry facts into dramatic descriptions so that many oft-told stories take on a new perspective. Meticulous multilayered details breathe life into remarkable recreations of family gatherings.
   Academic Journal
   PDF Full Text (8.3MB)

2. Evaluation and comparison of discovery tools: an update
   Academic Journal
   Article images cannot be displayed to guests.
   PDF Full Text

   Academic Journal
   Article images cannot be displayed to guests.
   PDF Full Text (180KB)

1. UK boosts discovery tools
by Sinha, Gunjan
Nature Biotechnology, 02/2014, Volume 32, Issue 2
Permalink

2. UK boosts discovery tools
by Sinha, Gunjan
Nature Biotechnology, 02/2014, Volume 32, Issue 2
Permalink

3. From quarks to the cosmos: tools of discovery
by Lederman, Leon M; Schramm, David N
Scientific American Library series, 1989
Permalink

4. MRM as a discovery tool?
by Rudnick, Paul A
Proteomics, 04/2015, Volume 15, Issue 7
Permalink
This or That

Google
- Free Range Information
- Relevancy
  - Adds
  - Search Patterns
  - Credibility?
- Functionality
  - Google Scholar

Discovery Tools
- Fee Based Information**
- Relevancy
  - Institutionally Approved**
  - Filtering Options
  - No History
  - Credible Sources**
- Functionality
  - Filters

**Internet Sources can be included
Describing your Search - "rose for Emily" south culture
Describing Your Search

Useful Information
discovery tools

Articles (include patents)  Case law

My updates: recommended based on My Citations

Schools going mobile: A study of the adoption of mobile handheld technologies in Western Australian independent schools

See all updates

Stand on the shoulders of giants
Google Knows

Google compiles enough data to build comprehensive portfolios of most users—who they are, where they go and what they do—and the information is all available at google.com/dashboard. Here are just a few things WSJ reporter Tom Gara found out about himself.

- **GMAIL**: 134,966 All of Tom's emails since he first got a Gmail account in 2004. Google also stores his 6,147 chats.
- **CONTACTS**: 2,702 Google knows the people that Tom emails the most. At the top is a friend in Egypt.
- **YOUTUBE**: 9,220 Videos Tom has watched, listed in chronological order, including some reviewed in June about canoes.
- **GOOGLE PLAY**: 117 That's how many apps Tom has downloaded from Google's store.
- **PASSWORDS**: 35 Number of website passwords saved in Google's Chrome browser.
- **LOCATION**: Willunga, South Australia Due to an unknown glitch, Google bases Tom's location from one of his old Android phones, which he gave to his mother in Australia.

**What Google Knows**

- **GOOGLE SEARCH**: 64,019 Google thinks Tom performs most of his searches around 8 a.m. ET, but this is probably skewed by years spent outside the U.S.
- **ANDROID DEVICES**: 3 All of Tom's synched Android phones, including the old Nexus 5 phone that he gave to his mom.
- **WALLET**: 3 Credit cards, two expired, saved in Google Wallet, plus two shipping addresses and 13 itemized purchases since June 2009.
- **DOCS**: 855 Documents Tom has created, plus the 115 he has opened that belong to other people.

*Graphic by Alberto Cervantes/The Wall Street Journal*
Proof in the Outcome…

Current Events

About 26,900,000 results (0.25 seconds)

In the news

MH370 search: Malaysian experts on way to island to study plane debris - live
Telegraph.co.uk - 1 hour ago
Dai Shuqin, the sister of a Flight 370 passenger says she is sceptical that the crusty wing ...

MH370: Boeing officials think Reunion debris could be from 777, source says
CNN - 14 hours ago

Finding on Whether Debris Is From Malaysia Airlines Flight 370 May Take a Week
New York Times - 3 hours ago

More news for malaysia flight 370

Debris looks like part of Boeing 777, source says - CNN.com
www.cnn.com/2015/07/29/africa/mh370-debris-investigation/  CNN - 14 hours ago - Debris found off the coast of Reunion Island is being examined to see if it is related to the 2014 disappearance of Malaysia Airlines Flight 370.

Debris Is Thought to Come From Malaysia Airlines Flight 370
www.nytimes.com/.../malaysia-airlines-flight-370-sear...  The New York Times - 17 hours ago - Malaysia’s transport minister, Liow Tiong Lai, said on Wednesday afternoon that it was too early to know if the debris was from Flight 370 but ...

Finding on Whether Debris Is From Malaysia Airlines Flight ...
www.nytimes.com/.../too-early-to-conclude-debris-is-...  The New York Times - 3 hours ago - Debris Is Thought to Come From Malaysia Airlines Flight 370 JULY 29, ... Prime Minister Najib Razak of Malaysia said in a statement that his ...

Malaysia Airlines Flight 370 - Wikipedia, the free encyclopedia
The folly of thinking we know: the painful hunt for Malaysia Airlines Flight 370

Malaysia flight MH370 hunt sees suspicion and cooperation

Legal considerations about the missing Malaysia airlines flight MH 370
SA. Kaiser - Air and Space Law, 2014 - kluwerlawonline.com

The hunt for MH370
M. McNutt - Science, 2014 - sciencemag.org

Lost at sea
D. Normile - Science, 2014 - sciencemag.org

The search for MH370: time for stronger ASEAN cooperation
DM. Loh - 2014 - dr.ntu.edu.sg
1. The loss of Malaysia Flight 370
   by Arnold Barnett
   OR-MS Today, 02/2015, Volume 42, Issue 1
   Permalink
   Given that no one knows what happened to Malaysia Airlines flight 370 (MH 370), it could well seem presumptuous to discuss the meaning of the disaster...
   Journal Article, Full Text Online

2. The loss of Malaysia Flight 370: an analytical look at what it means and doesn't mean about aviation safety
   by Barnett, Arnold
   OR-MS Today, 02/2015, Volume 42, Issue 1
   Permalink
   Journal Article, Full Text Online

3. These are all the Internet’s ‘best’ theories on MalaysiaFlight370’s disappearance: Aliens, cloaking devices and a 2012 Pitbull song —
   by Caitlin Dewey
   Washington Post - Blogs, 03/2014
   Permalink
   ... As the search for the missing Malaysia Airlines flight drag into its 11th day without tangible progress, Internet sleuths are looking for answers. Any...
   Web Resource: Available Online

4. Where is Malaysia Airlines Flight 370? [Updated]
   by Joel Achenbach
   Washington Post - Blogs, 03/2014
   Permalink
Critical Thinking

Google
- Evaluating Credibility
- Timeliness
- Media resources
  - Social media
  - Broadcast Media
- Museums/Archives

Discovery Tools
- Content Analysis
- Reinforcing Credibility
  - Author
  - Scholarly Review
- Professional
User profiles for michelangelo
  Michelangelo Mangano - Verified email at corn.ch - Cited by 92472
  michelangelo mancuso - Verified email at ac-pisa.toscana.it - Cited by 7325

[HTML] Review of particle physics
K Hagiwara, K Hikasa, K Nakamura, M Tanabashi... - Physical review..., 2002 - iopscience.iop.org
This biennial Review summarizes much of Particle Physics. Using data from previous editions, plus 2205 new measurements from 667 papers, we list, evaluate, and average measured properties of gauge bosons, leptons, quarks, mesons, and baryons. We also ... Cited by 9679 Related articles All 4 versions Cite Save More

[PDF] from arxiv.org

ALPGEN, a generator for hard multiparton processes in hadronic collisions
ML Mangano, F Piccinini, AD Polosa... - Journal of High..., 2003 - iopscience.iop.org
Abstract: This paper presents a new event generator, ALPGEN, dedicated to the study of multiparton hard processes in hadronic collisions. The code performs, at the leading order in QCD and EW interactions, the calculation of the exact matrix elements for a large set of ... Cited by 3734 Related articles All 22 versions Cite Save More

[HTML] from tandfonline.com

Guidelines for the use and interpretation of essays for monitoring autophagy
DJ Klionsky, FC Abdalla, H Abolovich, RT Abraham... - Autophagy, 2012 - Taylor & Francis
In 2008 we published the first set of guidelines for standardizing research in autophagy. Since then, research on this topic has continued to accelerate, and many new scientists have entered the field. Our knowledge base and relevant new technologies have also ... Cited by 2022 Related articles All 84 versions Cite Save More

[PDF] from usda.gov

Fast and easy multiresidue method employing acetonitrile extraction/partitioning and “dispersive solid-phase extraction” for the determination of pesticide residues in ... M Anastasiades, SJ Lehotay... - Journal of AOAC..., 2003 - ingentaconnect.com
A simple, fast, and inexpensive method for the determination of pesticide residues in fruits and vegetables is introduced. The procedure involves initial single-phase extraction of 10 g sample with 10 mL acetonitrile, followed by liquid-liquid partitioning formed by addition of ... Cited by 2094 Related articles All 11 versions Cite Save More

Increased proteasome-dependent degradation of the cyclin-dependent kinase inhibitor p27 in aggressive colorectal carcinomas
M Loda, B Cukor, SW Tam, P Lavin, M Fiorentini... - Nature medicine., 1997 - nature.com
Michelangelo di Lodovico Buonarroti Simoni (6 March 1475 – 18 February 1564), commonly known as Michelangelo, was an Italian Renaissance sculptor, painter, architect, poet, and engineer who exerted an unparalleled influence on the development of Western art. Despite making few forays beyond the arts, his versatility in the disciplines he took up was of such a high order that he is often considered a contender for the title of the archetypal Renaissance man, along with fellow Italian Leonardo da Vinci.
Michelangelo

For other uses, see Michelangelo (disambiguation).

Michelangelo di Lodovico Buonarroti Simoni (6 March 1475 – 18 February 1564), commonly known as Michelangelo (Italian pronunciation: [miˈʃɛllaŋdʒelo]), was an Italian sculptor, painter, architect, poet, and engineer of the High Renaissance who exerted an unparalleled influence on the development of Western art.[1] Considered as the greatest living artist in his lifetime, he has since been held as one of the greatest artists of all time.[1] Despite making few forays beyond the arts, his versatility in the disciplines he took up was of such a high order that he is often considered a contender for the title of the archetypal Renaissance man, along with his fellow Italian Leonardo da Vinci.

A number of his works in painting, sculpture, and architecture rank among the most famous in existence.[1] His output in every field during his long life was prodigious, when the sheer volume of correspondence, sketches, and reminiscences that survive is also taken into account, he is the best-documented artist of the 16th century.

Two of his best-known works, the Pietà and David, were sculpted before he turned thirty. Despite his low opinion of painting, Michelangelo also created two of the most influential works in fresco in the history of Western art: the scenes from Genesis on the ceiling and The Last Judgment on the altar wall of the Sistine Chapel in Rome. As an architect, Michelangelo pioneered the Mannerist style at the Laurentian Library. At the age of 74 he succeeded Antonio da Sangallo the Younger as the architect of St. Peter's Basilica. Michelangelo transformed the plan, the western end being finished to Michelangelo's design, the dome being completed after his death with some modification.

In a demonstration of Michelangelo's unique standing, he was the first Western artist whose biography was published while he was alive.[2] Two biographies were published of him during his lifetime; one of them, by Giorgio Vasari, proposed that he was the pinnacle of all artistic achievement since the beginning of the Renaissance, a viewpoint that continued to have currency in art history for centuries.

In his lifetime he was also often called Il Divino ("the divine one").[3] One of the qualities most admired by his contemporaries was his terribilità, a sense of awe-inspiring grandeur, and it was the attempts of subsequent artists to imitate.[4] Michelangelo's impassioned and highly personal style that resulted in Mannerism, the next major movement in Western art after the High Renaissance.
Winner of Search Smackdown

- No Clear Winner
  - Critical Thinking
  - Evaluating Sources
- Google
  - Recent Info & Media
- Discovery Tools
  - Scholarly Info & Filtering functions
Figure 12: Difficulties with Steps during the Course-Related Research Process

- Getting started is difficult: 84%
- Defining a topic: 66%
- Narrowing down a topic: 62%
- Filtering irrelevant results: 61%
- Knowing if good job done: 46%
- Finding articles in library databases: 42%
- Knowing how to cite sources: 41%
- Determining credibility: 41%
- Reading materials: 40%
- Writing about what is found: 38%
- Deciding if done: 37%
- Finding up-to-date sources: 37%
- Figuring if use constitutes plagiarism: 35%
- Creating search terms: 31%
- Finding Web sources: 31%
- Integrating information from different sources: 30%
- Know when to cite: 29%
- Figuring out where to find sources: 29%
- Evaluating sources: 26%
- Taking notes: 21%

Results are ranked from most to least agreed statements about student difficulties with research. Responses for "strongly agreed" and "somewhat agreed" have been conflated into a new category of "agreed." See Appendix B for complete data sets.
Questions
Bibliography