

SOLENT
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METADATA ENRICHING & FILTERING FOR ENHANCED COLLECTION DISCOVERABILITY

GETANEH ALEMU, PHD

ISKO UK AGM MEETING: METADATA, TAXONOMIES AND RETRIEVAL
LONDON, APRIL 5TH 2019



WHY METADATA?

- The Library of Congress > 164 million information objects
- The British library > 150 million items
- Europeana.eu > 58,207,042 artworks, artefacts, books, films & music from EU's GLAMs
- The Digital Public Library of America > 20,597,354 items
- Project Gutenberg > 56,000 free and public domain e-books
- World Digital Library > 19,147 items
- The Internet Archive > 15 petabytes of webpages

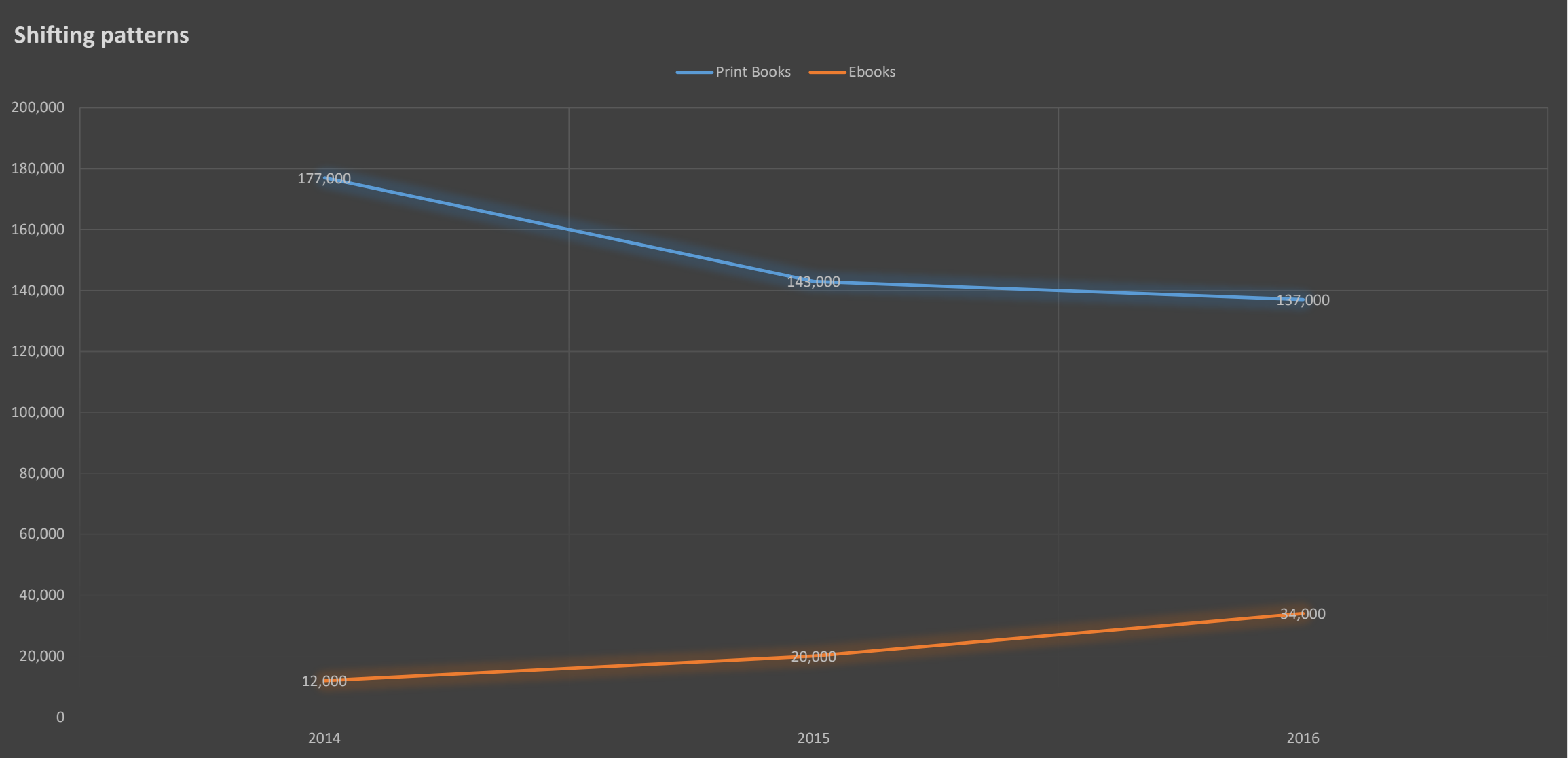
WHY METADATA?



“Metadata liberates knowledge.”

David Weinberger

WHY METADATA?



WHY METADATA?

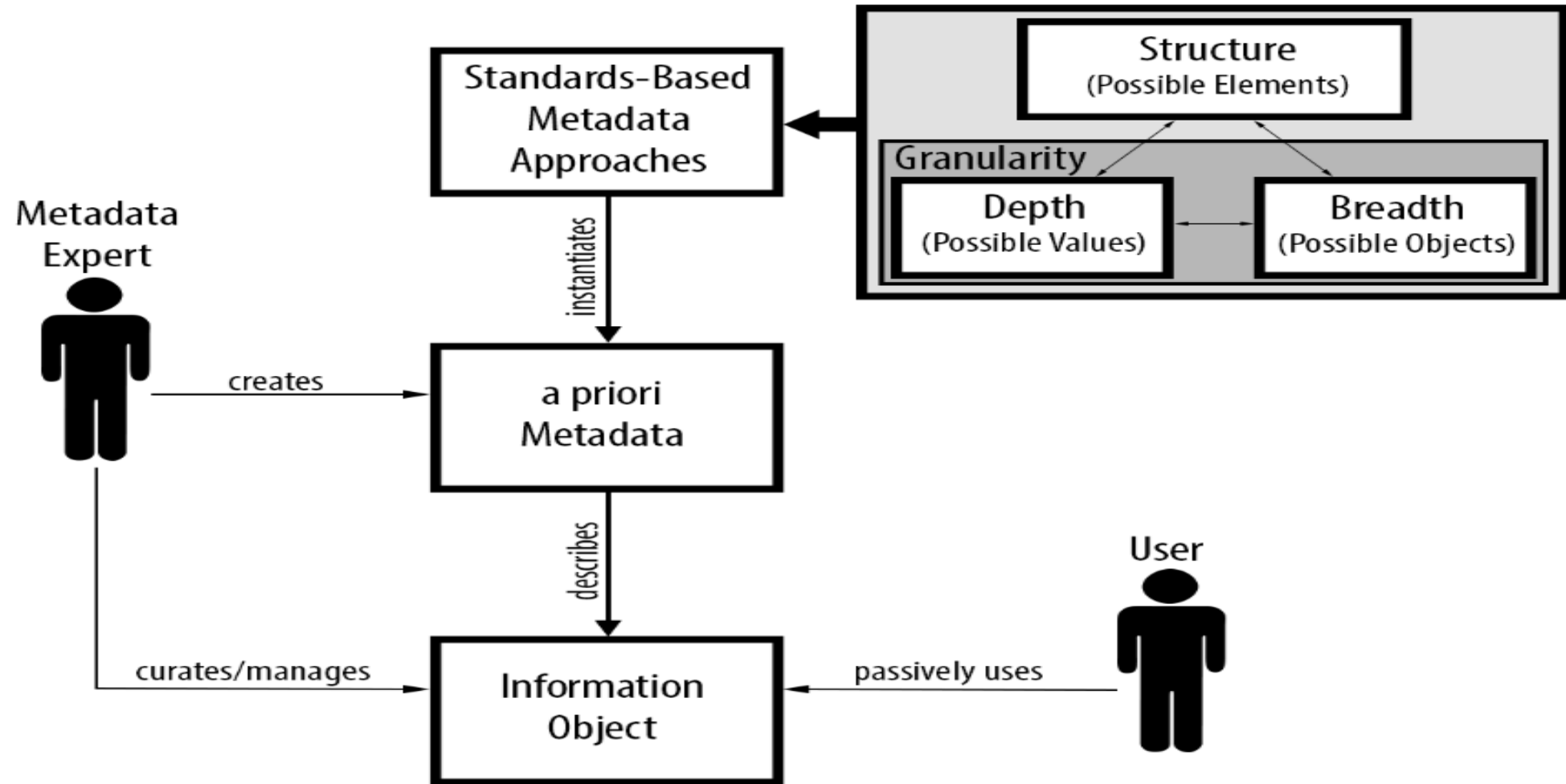
- Knowledge organisation : *“We categorise, distinguish, name and relate things in ways that are meaningful and useful, and help us learn. We deploy classification, indexing, taxonomies, data mining, semantic analysis, linked data, and other emerging technologies to reveal patterns and make sense of the knowledge landscape.”* (ISKO - UK)
- Metadata theory (Panizzi, Otlet, Cutter, Dewey, Ranganathan, Lubetzky, Svenonius)
- Metadata principles of sufficiency and necessity, user convenience, representation and standardisation
- Tools: Taxonomies, thesauri, classification schemes and ontologies
- Standards - ISBD, AACR2, RDA, FRBR, Dublin Core, MARC, BIBFRAME
- Systems: LMS, Discovery, knowledge-base systems, DBs, research data management systems, reading lists, etc.

PRINT ERA CATALOGUING PRINCIPLES

- The principle of sufficiency and necessity (*“Keep It Simple”*)
- The principle of user convenience (*Cataloguer knows better for you*)
- The principle of representation (*The title page is all what matters*)
- The principle of standardisation (*coalescing into a single standard*)

(Svenonius, 2000; IFLA, 2009)

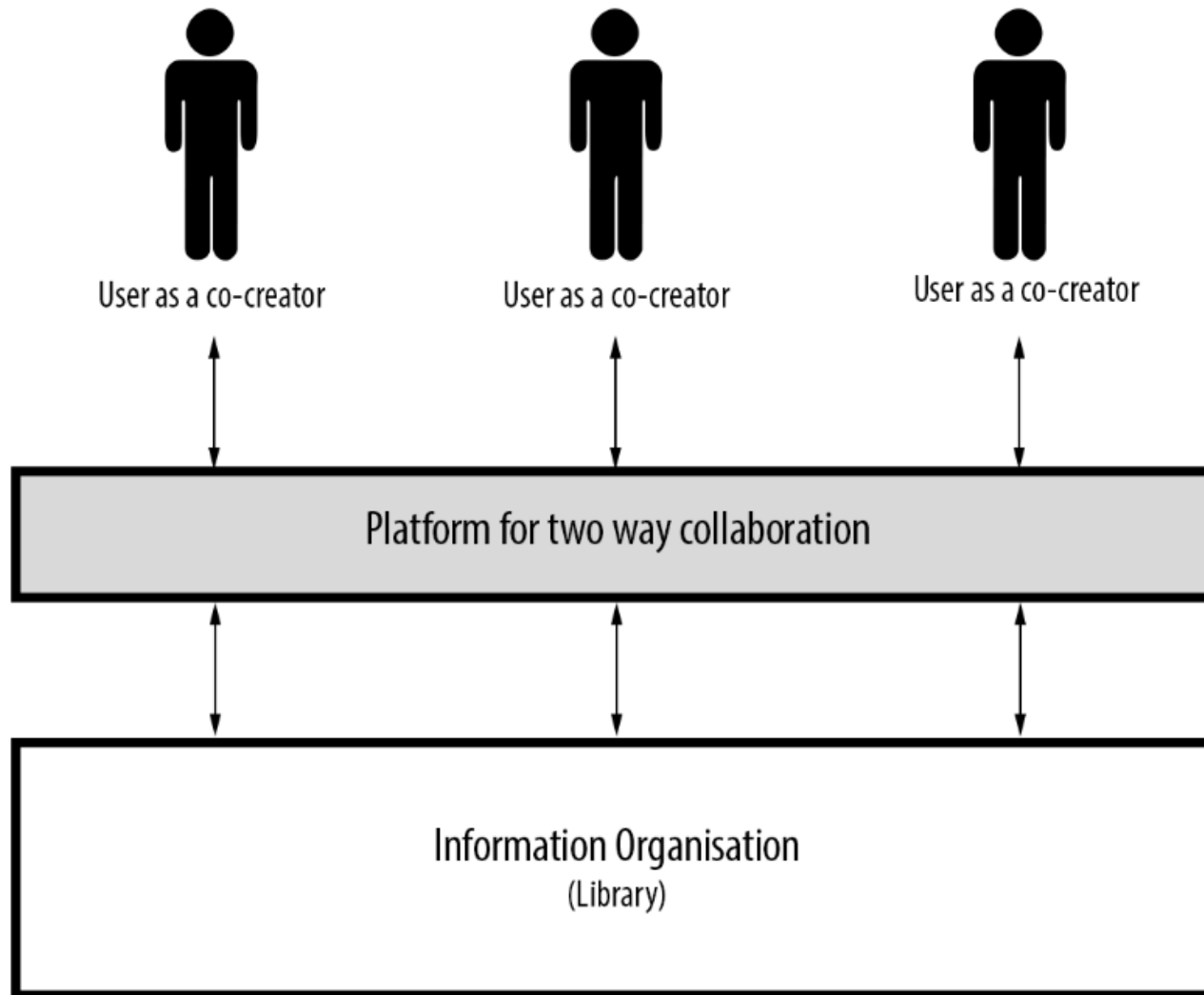
EXISTING METADATA STANDARDS



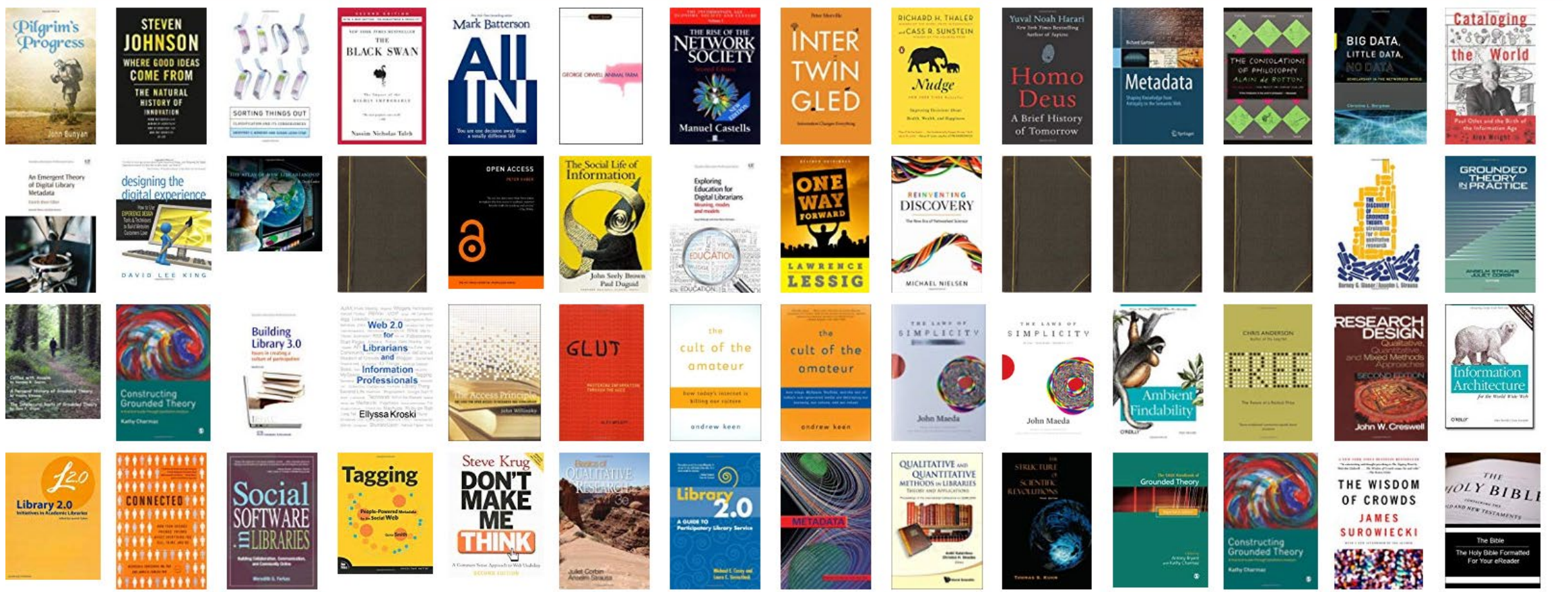
CHALLENGES

- Expert-created metadata fails to adequately represent *USERS' TERMINOLOGIES*
- Metadata experts might not anticipate the *DIVERSE INTERPRETATIONS* inherent in users
- Disparity between *CONTROLLED TERMINOLOGIES* and terminologies used by users
- Human beings by nature *DO NOT ALWAYS AGREE ON A SINGLE ABOUT-NESS, INTERPRETATION* and classification of things (Shirky, 2008; Weinberger, 2007)
- Classification and metadata are affected *BY SOCIO-CULTURAL, LINGUISTIC AND POLITICAL FACTORS* hence metadata (Bowker & Star, 1999)
- Whilst people, places, objects and events are real objective (verifiable) facts, the metadata that describes them is a *SOCIAL CONSTRUCT* hence could be intensely subjective (Gartner, 2016)

USER-GENERATED METADATA



WEB 2.0 & METADATA



THE SOCIAL SPACE OF BOOKS



Too Big To Know: Rethinking Knowledge Now That the Facts Aren't the Facts,...

by David Weinberger

Members	Reviews	Popularity	Average rating	Mentions
345	10	45,679	★★★★½ (3.66)	2

getaneha's review

Stars: ★★★★★

In this book, David Weinberger offers yet his staunchest critique on well established conceptual and theoretical foundations of knowledge including the **DIKW** pyramid that most computer science and library science have incorporated in their curriculum in their foundations course. Another concept he took aim is information overload. Popularised by the technology futurist Alvin Toffler, the phrase resonates in the minds of librarians who for so long have hinged their value proposition on solving the problem of having too-much-information. In *Too Big To Know*, in what seems a disruptive argument, Weinberger tells that too much information is actually a good thing. To support his argument, he cites Clay Shirky, who argues that "it is not information overload. It is filter failure". By providing several examples and writing rather beautifully, Weinberger contrasts the long-form argument of the Age of Books with the loosely connected webs of the Age of Networks in which he argues, the long form argument is a constraint inherited from the medium of print. Our thought process, nonetheless, works not in a simplistic, linear and long form ways but in an intricate web of links and associations which is better reflected in the Age of Networks. Scientists work in private in the Age of Books, after-the-fact peer-review is the norm, but in the Age of Networks, he argues, the filtering process is immediate, open and on the cloud. In short, he argues the abundance of crap and good that is generated through the network gets filtered by the network itself.

Reading this book, one can surmise that Weinberger is for Open Access. He is for Open Internet. He is for Open Data. He is for Linked Data. Such an open ecology, Weinberger argues, provides a fertile ground for innovation and creativity. Weinberger seems to suggest that the influence of the Age of Books is fading and the time has come for the Age of Networks. Hence, he argues, knowledge is now residing in the network, not in any one genius skull. In many respects, Weinberger's *Too Big To Know*, is in agreement with arguments put forward by James Surowiecki's *The Wisdom of Crowds* and Clay Shirky's *Here Comes Everybody*. Perhaps a slight oversight in the book may be the notion of 'informal' Allen in his book *Getting Things Done* (2002).

Review language: English (change)

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All member reviews

English (9) Italian (1) All languages (10)

Showing 9 of 9

No great discoveries here, but a consistently interesting look at the impact of the internet on knowledge. (★★)

ATHurman | Dec 7, 2014 |

I finished this on the plane heading into LA. I really, really enjoyed reading the book, but it is going to take me so mixed. It did not suffer from the flaws attributed to it, I thought. Instead, I think the reviewers were expected to decline (wisely, IMHO) to engage in.

Epistemologically speaking, Weinberger just assumes that the critiques raised by continental thinkers such as Kant be justified. His critics seem to want him to rehash and re-argue these critiques. Instead of doing this, Weinberger points to new ways data is being stored and new ways that people are creating knowledge out of these data as examples of how these critiques do a better job of explaining knowledge in today's contexts than do uncritical correspondence

LibraryThing Author



David Weinberger is a LibraryThing Author, an author who lists their personal library on LibraryThing.

[profile page](#) | [author page](#)

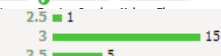
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- CD Audiobook (0 editions)
- Project Gutenberg (0 editions)
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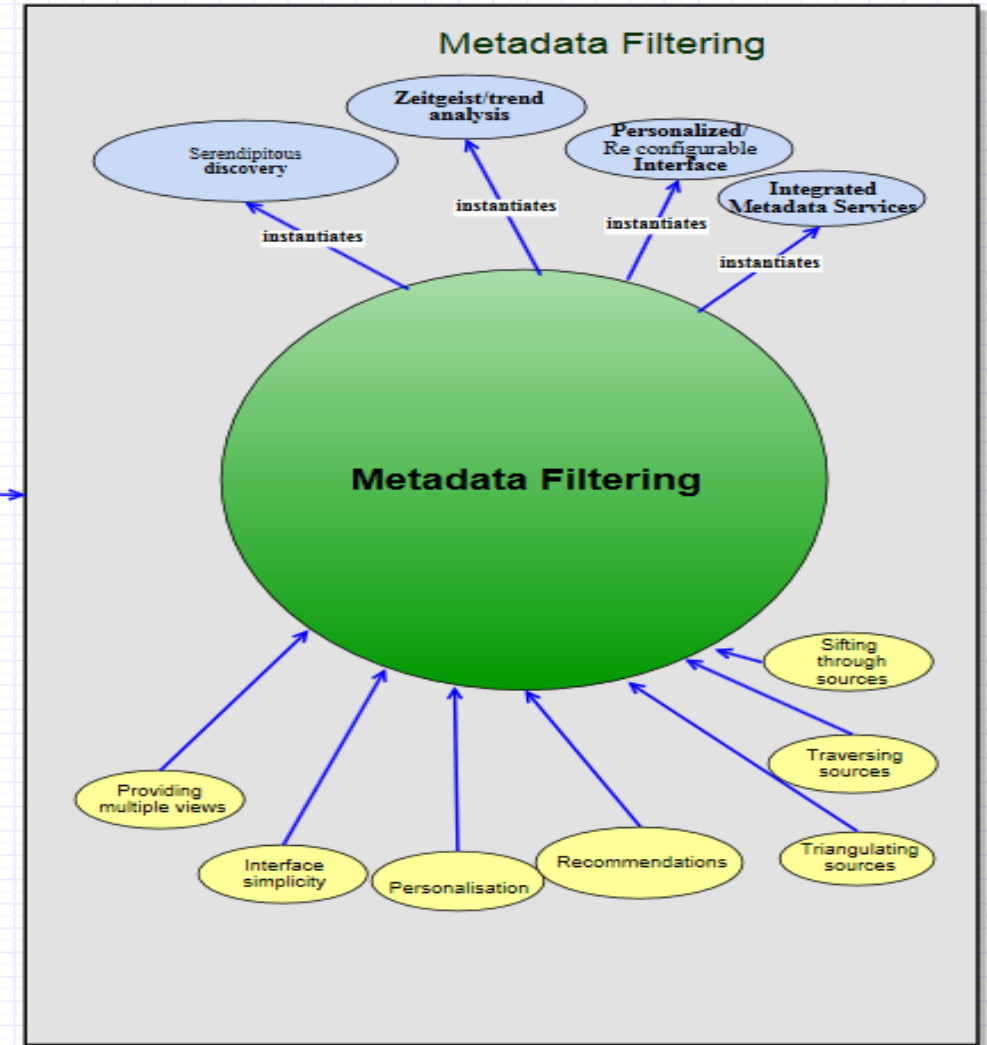
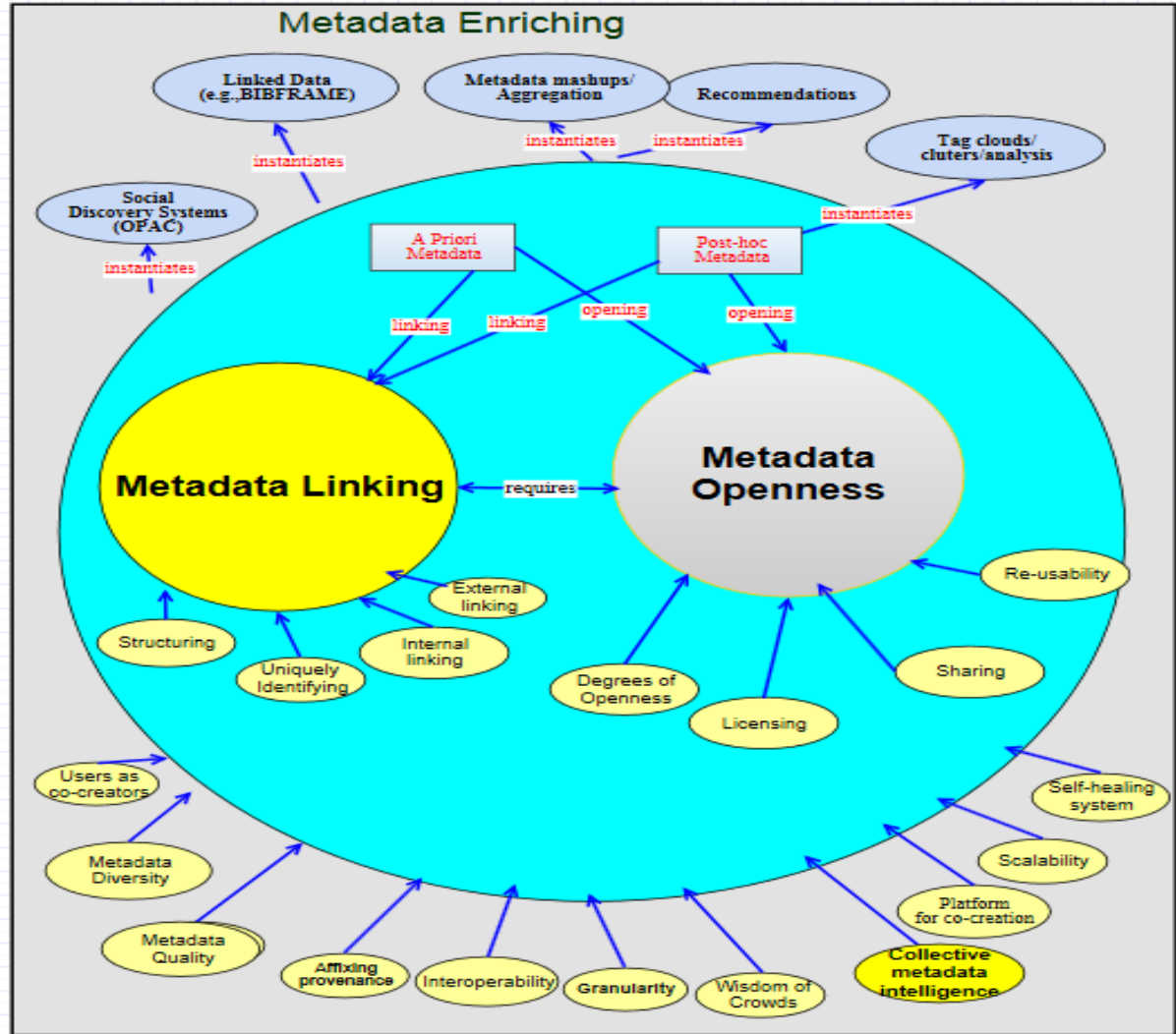
Tags: 2012, adult, computers, ebook, education, epistemology, General, goodreads, information, information society, information, technology, internet, Internet -- Social aspects, Kindle, knowledge, library, linked data, metadata, networks, non-fiction, read, science, social aspects, social science, sociology, sociology of knowledge, technology, to-read, unread, wishlist

LibraryThing Recommendations



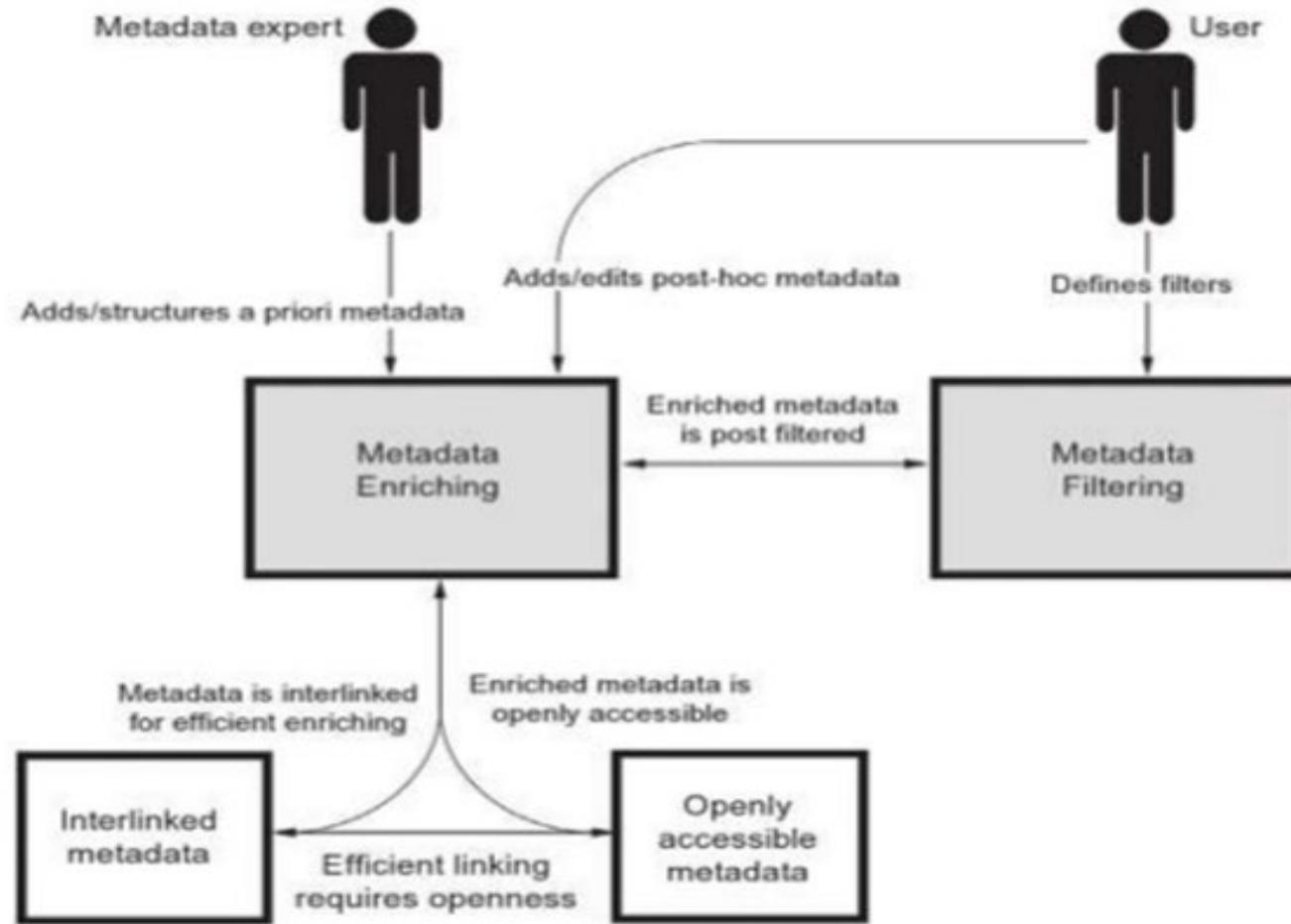
- Main page
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- Work details
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- Reviews (10)
- Recommendations
- Members
- Descriptions (4)
- Conversations (2)
- Common Knowledge
- Popularity
- Editions

EMERGING PRINCIPLES



Platform of metadata co-creation and components (Alemu, 2014)

METADATA ENRICHING & FILTERING



METADATA ENRICHING & FILTERING

- From expert-provided metadata to *a mixed metadata approach where both the experts and users continually enhancing metadata*
- From the principle of metadata simplicity *to the principle of metadata enriching*
- From human-readable metadata *to structured, uniquely identified and interlinked metadata (metadata linking)*
- From metadata silos *to metadata openness enabling metadata sharing and re-use (metadata openness)*

SUBJECT HEADINGS & AUTHORITY CONTROL

Vocabulary Name	Code	Type	Family	Description	Authority Heading Rule	
... lacnaf	LACNAF	NAME	MARC21	Library and Archives Canada name authority file	-	...
... LCGFT	LCGFT	SUBJECT	MARC21	-	-	...
... lcmpt	LCMPT	SUBJECT	MARC21	Library of Congress Medium of Performance Thesaurus for Music (LCMPT)	-	...
... Library of Congress name authority recor...	LCNAMES	NAME	MARC21	The authorized form of the name of a person responsible for a work or a group responsible for a wor...	-	...
... Library of Congress Subject Headings	LCSH	SUBJECT	MARC21	Subject headings for books, serials, and other types of material in the Library of Congress	-	...
... NLI	NLI	NAMES_AND_...	MARC21	National Library of Israel Authority File	-	...

TO INDEX OR NOT TO INDEX

Tag 245

Type Variable

Repeatable No

Mandatory Yes No

Description TITLE STATEMENT

Help URL

Subfields

1 - 12 of 12

SubField	Description	Mandatory	Repeatable	Controlled Vocabulary	
1 6	Linkage	No	No	-	...
2 8	Field link and sequence number	No	Yes	-	...
3 a	Title	No	No	-	...
4 b	Remainder of title	No	No	-	...
5 c	Statement of responsibility, etc.	No	No	-	...

“BIRDS OF A FEATHER”

Title: Metadata : shaping knowledge from antiquity to the semantic web

Creator

[Gartner, Richard](#)

Description

This book offers a comprehensive guide to the world of metadata, from its origins in the ancient cities of the Middle East, to the Semantic Web of today. The author takes us on a journey through the centuries-old history of metadata up to the modern world of crowdsourcing and Google, showing how metadata works and what it is made of. The author explores how it has been used ideologically and how it can never be objective. He argues how central it is to human cultures and the way they develop. Metadata: Shaping Knowledge from Antiquity to the Semantic Web is for all readers with an interest in how we humans organize our knowledge and why this is important. It is suitable for those new to the subject as well as those who know its basics. It also makes an excellent introduction for students of information science and librarianship.

Publisher

Cham, Switzerland : Springer

Identifier

ISBN : 9783319408910

Creation Date

2016

Subject

[Libraries](#)

[Metadata](#)

[Digital libraries -- Collection development](#)

[Enriching](#)

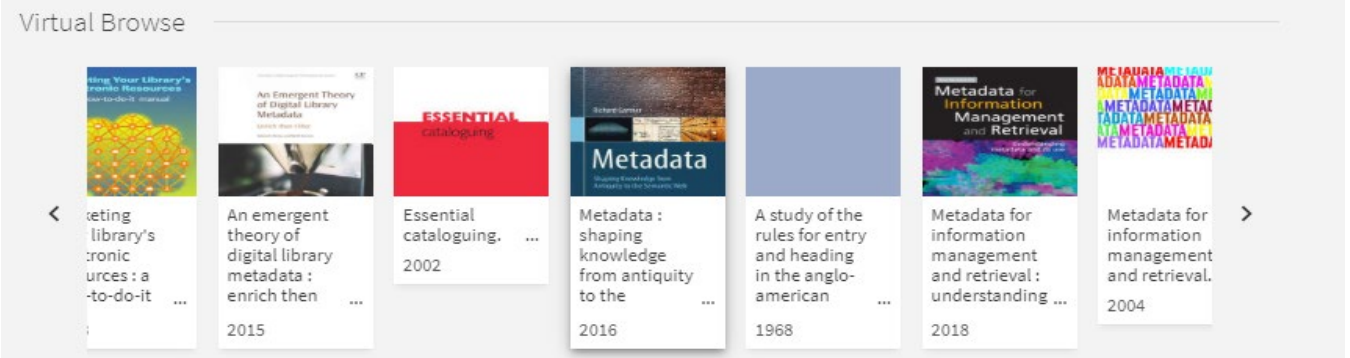
[Filtering](#)

Contents

What Metadata is and why it Matters -- Clay, Goats and Trees: Metadata before the Byte -- Metadata Becomes Digital -- Metadata as Ideology -- The Ontology of Metadata -- The Taxonomic Urge -- From Hierarchies to Networks -- Breaking the Silos -- Democratizing Metadata -- Knowledge and Uncertainty.

Format

viii, 114 pages : illustrations (black and white) ; 24 cm.



FRBR GROUPINGS

- Selwyn, Norman
- Selwyn, NM
- Selwyn, Norman M

264 1 \$a Abingdon : \$b Routledge, \$c 2015.

<Abingdon, Oxfordshire> : (1)

Abingdon (6)

Abingdon : (2778)

Abingdon ; : (1)

Abingdon ; (10)

Abingdon ; : (11)

Abingdon [England] : (1)

Abingdon [England] ; (2)

Abingdon, Oxfordshire : (46)

Abingdon, Oxfordshire [etc.] (3)

Abingdon, Oxfordshire, Eng. : (1)

Abingdon, Oxfordshire, England : (14)

Abingdon, Oxfordshire, U.K. : (4)

The man without a face : the unlikely rise of Vladimir Putin

Gessen, Masha

London : Granta 2014

● Available at Mountbatten Library Floor 2B, History (947.0862092 GES)

Locations

Details

Library admin

Reviews & tags



Cite!

Title: The man without a face : the unlikely rise of Vladimir Putin**Author:** [Gessen, Masha](#)**Statement of Responsibility:** Masha Gessen.**ISBN:** 9781847084231

Description: Handpicked in 1999 by the 'Family' surrounding an ailing and increasingly unpopular Boris Yeltsin, Vladimir Putin, with very little governmental or administrative experience beyond having served as deputy mayor of St Petersburg, seemed like the perfect choice in the eyes of an oligarchy bent on moulding the president's successor to its own designs. Suddenly the boy who had scrapped his way through post-war Leningrad schoolyards, dreaming of ruling the world, was a public figure, and his popularity soared. Russia and an infatuated West were determined to see the progressive leader of their dreams, even as with ruthless efficiency Putin dismantled the country's media, wrested control and wealth from the country's burgeoning business class, and decimated the fragile mechanisms of democracy. Within a few brief years, virtually every obstacle to his unbridled control was removed and every opposing voice silenced, with political rivals and critics driven into exile or to the grave. As a journalist living in Moscow, Masha Gessen experienced this history firsthand, and for *The Man Without a Face* she has drawn on information and sources no other writer has tapped. Her horrifying and spellbinding account of how this 'faceless' man manoeuvred his way into absolute - and absolutely corrupt - power will stand as a classic of narrative non-fiction. Since coming to power in 1999, Vladimir Putin has ruthlessly seized control of media, exiled or killed political rivals, and dismantled Russia's fragile electoral system.

City of Publication: London**Publisher:** Granta**Creation Date:** 2014**Language:** English**Format:** 325 pages ; 20 cm.**Subjects:** [HISTORY](#); [BIOGRAPHY](#); [POLITICS](#); [POLITICIANS](#); [RUSSIA](#); [SOVIET UNION](#); [COMMUNISM](#); [Putin, Vladimir Vladimirovich, 1952-](#); [Russia \(Federation\) -- Politics and government -- 1991-](#)**Notes:** Previous ed.: New York: Riverhead; London: Granta, 2012.

Contents: The accidental president; The election war; The autobiography of a thug; Once a spy; A coup and a crusade; The end of a reformer; The day the media died; The dismantling of democracy; Rule of terror (Polonium, FSB); Insatiable greed; Back to the USSR, Oligarchs and The mafia state. People, places and organisations mentioned include Alexander [Litvinenko](#), Anna Politkovskaya, Boris Berezovsky, Alexander Goldfarb, Evgeny Lebedev, Mikhail Gorbachev, Boris Yeltsin, Dmitry Medvedev, Mikhail Khodorkovsky, Moscow, Kremlin, Chechnya, Beslan school siege, European Union, KGB, Soviet Union. Variations in spelling - Vladimir Vladimirovich Putin; Vladimir Vladimirovič Putin; Vladimir V Putin.

ENRICHING...

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Corporate manslaughter in the maritime and aviation industries

Daniels, Simon

Abingdon : Informa Law from Routledge 2016

Online access

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Actions

Title: Corporate manslaughter in the maritime and aviation industries

Author: Daniels, Simon

Statement of Responsibility: Simon Daniels.

ISBN: 1315677873

9781315677873

Description: This text provides expert analysis of the application of the evolving law in corporate manslaughter as it relates to the maritime and aviation industries. It will prove to be a useful tool for practitioners and students in this specialised area, as well as those working in the maritime and aviation industries, such as those who will be accountable under the Corporate Manslaughter Act 2007; the masters and pilots who manage the risks; and the insurers who underwrite the cost of the risks.

Series: Lloyd's practical shipping guides.

City of Publication: Abingdon

Publisher: Informa Law from Routledge

Creation Date: 2016

Copyright Date: ©2017.

Language: English

Format: 1 online resource (xiv, 157 pages).

Subjects: EBOOKS; LAW; CRIMINAL LAW; CORPORATE RESPONSIBILITY; CORPORATE CRIME; CORPORATE LIABILITY; EMPLOYER LIABILITY; MANSLAUGHTER; MARITIME LAW; AERONAUTICS; AVIATION; Aeronautics, Commercial -- Law and legislation; Maritime law; Criminal liability of juristic persons -- Great Britain

Contents: Examining the bottom line, A comparative study of the key players, The evolution of corporate accountability, The analysis of reform, What society wanted, and what society got: The Corporate Manslaughter and Corporate Homicide Act 2007, The Corporate Manslaughter Act – Critical review by case study, So near ... the Costa Concordia disaster, Sentencing in corporate manslaughter, Domestic guidance, global consequence, Crisis in civil aviation accountability, Lessons to be shared and In hazard: The next generation in the High Arctic.

Links

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- > Abstract/Table of contents



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METADATA LINKING

Too big to know : rethinking knowledge now that the facts aren't the facts, experts are everywhere, and the smartest person in the room is the room / David Weinberger .

Edit Record

Holdings

...

Book (Book - Physical) text; unmediated; volume By Weinberger, David, (New York : Basic Books, 2014.)

Subject: Knowledge management. Information technology--Management. Information technology--Social aspects. and others

Language: English

ISBN: 9780465085965

ISBN (13): 9780465085965

Record number: (UkSoSU)009683702SSU01

Update Date: 29/03/2019

 **Orders:** 1

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Linked Data

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dct:subject	http://id.loc.gov/authorities/subjects/sh85133143	technological change
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dct:subject	http://id.loc.gov/authorities/subjects/sh2013002090	Linked Data

METADATA LINKING

< Record View

Back

Edit

Too big to know : rethinking knowledge now that the facts aren't the facts, experts are everywhere, and the smartest person in the room i...



MARC

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100	10 a Weinberger, David, d 1950- 4 aut
245	10 a Too big to know : b rethinking knowledge now that the facts aren't the facts, experts are everywhere, and the smartest person in the room is the
264	_1 a New York : b Basic Books, c 2014.
300	__ a xiv, 231 pages.
336	__ a text 2 rdacontent
337	__ a unmediated 2 rdamedia
338	__ a volume 2 rdacarrier
504	__ a Includes bibliographical references and index.
520	8_ a This book describes the World Wide Web-enabled shift in the production, transmission, reception, and storage of knowledge in the early 21st century. Weinberger discusses topics such as expertise, echo chambers, open government, the WELL, Debian, the U.S. Army's Center for the Advancement of Leader Development and Organizational Learning; and the writing of Charles Darwin (On the Origin of Species) and Nicholas G. Carr ("Is Google Making Us Stoopid?"). He argues that "networked knowledge brings us closer to the truth about knowledge.
505	0_ a Prologue : the crisis of knowledge --Knowledge overload --Bottomless knowledge --The body of knowledge : an introduction to the rest of the book --The expertise of clouds --A marketplace of echoes? --Long form, Web form --Too much science --Where the rubber hits the node --Building the new infrastructure of knowledge.
650	_0 a Knowledge management.
650	_0 a Information technology x Management.
650	_0 a Information technology x Social aspects.
650	_0 a Personal information management.
650	_0 a Information resources management.
650	_0 a Society
650	_0 a technological change
650	_0 a Information society
650	_0 a Digital technology

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BIBFRAME ONTOLOGY




































Class:	Work
URI:	http://id.loc.gov/ontologies/bibframe/Work
Label:	Work
Definition:	Resource reflecting a conceptual essence of a cataloging resource.
Used with:	instanceOf hasExpression expressionOf eventContent
Properties include:	content originPlace musicMedium instrument ensemble voice geographicCoverage hasInstance hasExpression expressionOf eventContentOf
SubClassed As:	Text Cartography Audio NotatedMusic NotatedMovement Dataset StillImage MovingImage Object Multimedia MixedMaterial
Change Notes:	2016-04-21 (New)

Class:	Identifier
URI:	http://id.loc.gov/ontologies/bibframe/Identifier
Label:	Identifier
Definition:	Token or name that is associated with a resource, such
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Properties include:	identifies
SubClassed As:	ShelfMark Ansi AudioIssueNumber AudioTake Barcode Coden CopyrightNumber DissertationIdentifier Doi Ean Fingerprint Gtin14Number Hdl Isan Isbn Ismn Isni Iso Isrc Issn IssnL Istc Iswc LcOverseasAcq Lccn Local MatrixNumber MusicDistributorNumber MusicPlate MusicPublisherNumber Nbn PostalRegistration PublisherNumber ReportNumber Sici StockNumber Strn StudyNumber Upc Urn VideoRecordingNumber

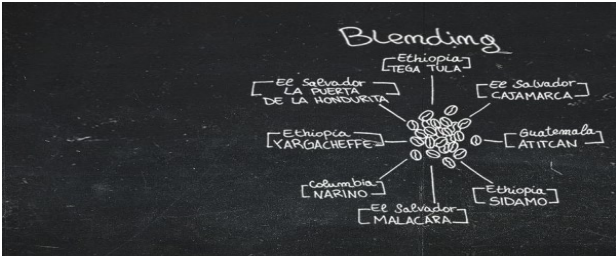
http://id.loc.gov/ontologies/bibframe.html#c_Identifier

BIBFRAME ONTOLOGY

RDA Work

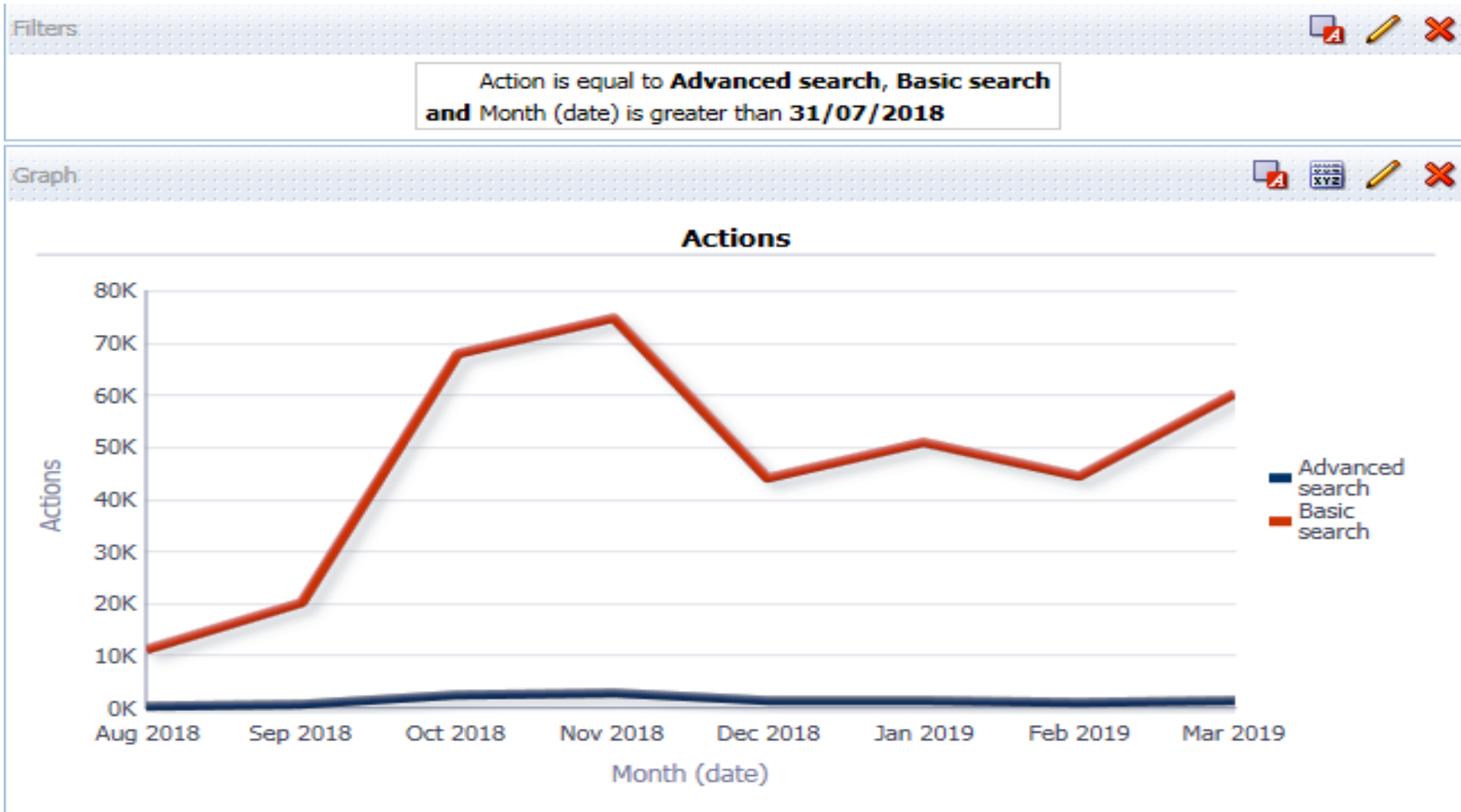
Creator of Work (RDA 19.2)	<table><thead><tr><th>Principal Creator</th><th>Other Creators</th></tr></thead><tbody><tr><td colspan="2">Shakespeare, William, 1564-1616  </td></tr></tbody></table>	Principal Creator	Other Creators	Shakespeare, William, 1564-1616  		Nature of the Content (RDA 7.2)	Nature of the Content (RDA 7.2) Quarto  	ISBN
Principal Creator	Other Creators							
Shakespeare, William, 1564-1616  								
Preferred Title for the Work (RDA 6.2.2)	Title Romeo & Juliet  	Coverage of the Content (RDA 7.3)	Coverage of the Content (RDA 7.3) It is unknown when exactly Shakespeare w...  	Note on Title (RDA 2.17.2)				
Variant Title for the Work (RDA 6.2.3)	Title Romeo & Juliet  	Intended Audience (RDA 7.7)	Intended Audience (RDA 7.7) Young, adult  	Issue, Part, or Iteration Note (RDA 2.17.13)				
Form of Work (RDA 6.3)	Form of Work play  	Dissertation or Thesis Information (RDA 7.9)	Dissertation or Thesis Information (RDA 7.9)	Other Note on Manifestation (RDA 2.17)				
Date of Work (RDA 6.4)	Date of Work (RDA 6.4) 1623  	Other Person, Family, or Corporate Body Associated With a Work (RDA 19.3)	Other Person, Family, Corporate Body Associated With a Work	Media type (RDA 3.2) video 				
Place of Origin of the Work (RDA 6.5)	Place Stratford-upon-Avon (England)  	Subject of the Work (RDA Chapter 23)	Subjects RDA Work Tragedy   Fiction   Literature  	Carrier Type (RDA 3.3) volume  online resource 				
		DDC Classification (RDA Chapter 23)	Dewey Classification Information 23  	Extent (RDA 3.4)				
				Dimensions (RDA 3.5)				
				Uniform Resource Locator (RDA 4.6) http://dx.doi.org/10.5040/9781580819015...  				
				Call Number				

METADATA FILTERING



- Separation of metadata content (enriching) and interface (filtering)
- Enriching as a continuous process
- From user-centred to user-driven metadata enriching and filtering
- Metadata diversity better conforming to users' needs
- Seamless linking
- 'Useful' rather than 'perfect' metadata
- Post-hoc user-driven filtering

USERS: *HOW DO THEY SEARCH?*



USERS: METADATA USAGE

	A	B	C	D	E	F
1	Popular Searches since August 2018					
2						
3	Search String	Searches	Results	Signed In		
4	research methods	523	1,363,177	170		
5	intel	439	1,222	64		
6	exploring strategy	426	10,796	56		
7	leadership	361	297,471	94		
8	psychology	280	299,794	84		
9	marketing	263	480,137	62		
10	critical thinking	259	33,472	47		
11	motivation	229	285,307	82		
12	fashion	220	711,656	36		
13	social media	217	376,030	55		
14	organisational behaviour	207	50,876	67		
15	sportdiscus	196	55	22		
16	physical education	184	190,542	51		
17	economics	178	51,502	1		
18	criminology	176	18,857	52		
19	reflective writing	166	2,991	20		
20	football development	162	26,641	43		
21	brexit	160	31,385	41		
22	human resource management	158	76,720	34		
23	social media marketing	158	106,585	39		
24	comparative criminology	157	6,090	56		
25	jones 2015	156	19,933	6		
26	football	154	160,380	48		
27	westlaw	153	672	10		
28	personality	148	112,343	39		
29	photography	146	113,073	26		
30	maritime economics	145	2,746	25		
31	presentation skills	143	24,359	40		

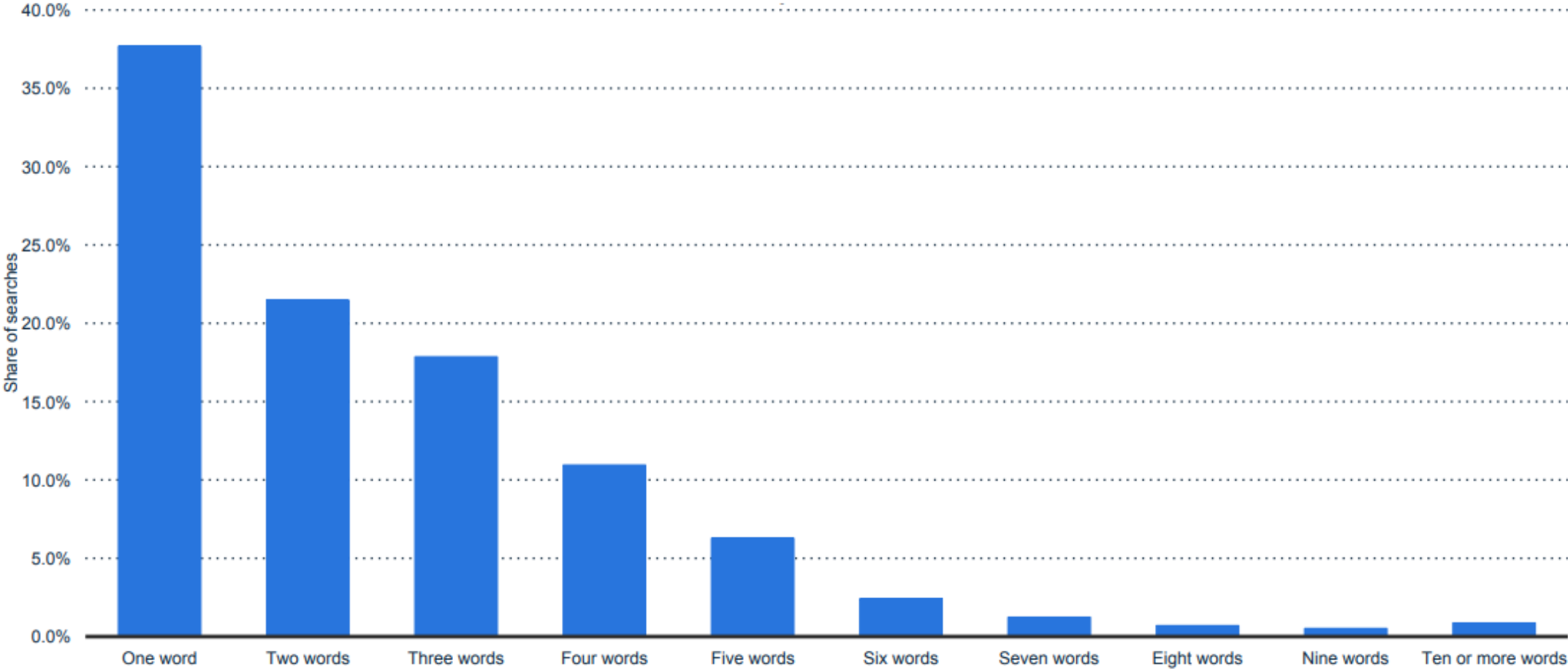
BREXIT

USERS: SEARCHES BY WORD COUNT

Words in Search Term	Row Parentage
1	33.11% Leadership
2	43.39% Research methods
3	12.75% Human resource management
4	5.22%
5	3.29%
6	1.21%
7	0.26%
8	0.33%
9	0.08%
10	0.08%
11	0.15%
12	0.05%
13	0.03%
14	0.02%
15	0.03%

USERS: SEARCHES BY WORD COUNT

Online search query size in the United States 2017, by number of keywords



Source: (Statista)

USERS: HOW OFTEN DO THEY CLICK ON FACETS?

Facet Type	Facet Value	Facets Selected
Top level	Full Text Online	13,385
Top level	Peer Reviewed Journals	5,725
Resource Type	Books	3,769
Topic		2,961
Date Slider		1,876
Resource Type	Journals	1,751
Resource Type	Articles	1,325
Resource Type	Newspaper Articles	385
Language		316
Author		307
Resource Type	lynda	307
Resource Type	newspapers	10
Resource Type	Patents	9
Resource Type	Scores	8
Resource Type	Databases	7
Resource Type	Research Data Sets	7
Resource Type	Technical Reports	7
Resource Type	Reference Entries	3

Refine your results

Sort by Relevance ▾

Availability ▲

- Physical Resources
- Online Resources

Resource Type ▲

- Books (11,711)
- Journals (3,300)
- Online Tutorials (1,514)
- Show More

Library ▾

Printed Collection ▾

Topic ▾

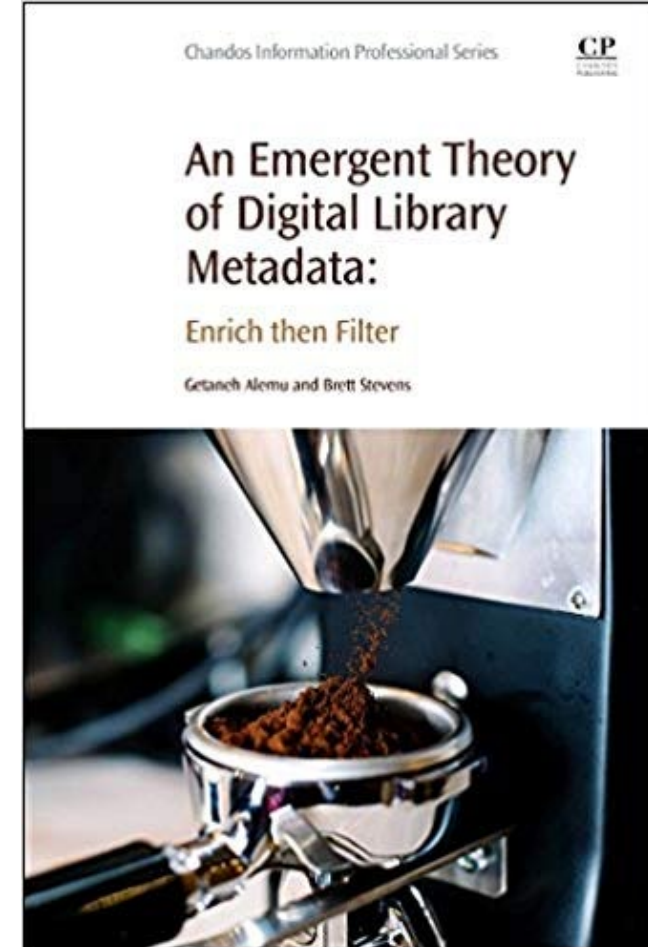
Author ▾

Publication Date ▾

Language ▾

ENRICH *THEN* FILTER

- ✓ Keep the metadata enriched
- ✓ Keep the interface simple
- ✓ Keep users happy 😊
- ✓ Keep maximising usage & impact



THE FUTURE OF METADATA:

ENRICHED, LINKED, OPEN AND FILTERED

BIBLIOGRAPHY

- Alemu, G., & Stevens, B. (2015). *An emergent theory of digital library metadata: Enrich then filter*. Waltham, Massachusetts: Chandos Publishing.
- Anderson, C. (2006). *The long tail: How endless choice is creating unlimited demand*. London: Random House Business Books.
- Boulton, J. (2014). In J. Boulton, *100 ideas that changed the web*. London, UK: Laurence King. Retrieved from <http://search.credoreference.com/content/entry/lkingideas/metadata/0>
- Bush, V. (1945). *As we may think*. *The Atlantic Monthly* (July 1945 issue). Retrieved from: <https://www.theatlantic.com/magazine/archive/1945/07/as-we-may-think/303881/>
- Calhoun, K. (2014). *Exploring digital libraries: Foundations, practice, prospects*. London: Facet Publishing.
- Cameron, F., & Kenderdine, S. (2007). *Theorizing digital cultural heritage: A critical discourse*. Cambridge, Mass. ; London: Mit.
- Carletti, L. (2016). *Participatory heritage: Scaffolding citizen scholarship*. *International Information & Library Review*, 48(3), 196-203. doi:10.1080/10572317.2016.1205367
- Casey, M. E., & Savastinuk, L. C. (2006). *Web 2.0: Service for the next-generation library*. *Library Journal*,
- Chan, L. M., & Zeng, M. L. (2006). *Metadata interoperability and standardization - A study of methodology part I :Achieving interoperability at the schema level*. *D-Lib Magazine*, 12(6).
- Charmaz, K. (2006). *Constructing grounded theory: A practical guide through qualitative analysis*. London: SAGE Publications.
- de Boer, V., Melgar, L., Inel, O., Ortiz, C. M., Aroyo, L., & Oomen, J. (2017). *Enriching media collections for event-based exploration*. In E. Garoufallou, S. Virkus, R. Siatiri & D. Koutsomiha (Eds.), *Metadata and semantic research: 11th international conference, MTSR 2017, tallinn, estonia, november 28 - december 1, 2017, proceedings* (pp. 189-201). Cham: Springer International Publishing. doi:10.1007/978-3-319-70863-8_18
- EU (2017). *Decision (EU) 2017/864 of The European Parliament and of The Council of 17 May 2017 on a European Year of Cultural Heritage (2018)*. *Official Journal of the European Union*, L 131/1. Available from <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017D0864&from=EN>
- Floridi, L. (2000). *On defining library and information science as applied philosophy of information*. *Social Epistemology*, 16(1), 37-49.
- Gartner, R. (2008). *Metadata for digital libraries: State of the art and future directions*. (). Bristol: JISC Technology & Standards Watch.
- Gartner, R. (2016). *Metadata: Shaping knowledge from antiquity to the semantic web*. Cham, Switzerland: Springer.
- Gruber, T. (2007). *Ontology of folsonomy: A mash-up of apples and oranges*. *International Journal on Semantic Web & Information Systems*, 3(2)
- Haynes, D. (2018). *Metadata for information management and retrieval : Understanding metadata and its use*. London: Facet Publishing.
- Hedstrom, M., Ross, S., Ashley, K., Christensen-Dalgaard, B., Duff, W., Gladney, H., . . . Neuhold, E. (2003). *Invest to save: Report and recommendations of the NSF-DELOS working group on digital archiving and preservation*.
- Howard, K. (2015) *Educating cultural heritage information professionals for Australia's galleries, libraries, archives and museums: A grounded Delphi study*. PhD thesis, Queensland University of Technology. Retrieved from <http://apo.org.au/system/files/57651/apo-nid57651-60986.pdf>
- Howe, J. (2009). *Crowdsourcing: Why the power of the crowd is driving the future of business*. New York: Three Rivers Press.
- Kefalidou, Genovefa, Mercurios Georgiadis, Bryn Alexander Coles and Suchith Anand. 'Crowdsourcing Our Cultural Heritage'. In: Clare Mills, Michael Pidd and Esther Ward. *Proceedings of the Digital Humanities Congress 2012*. *Studies in the Digital Humanities*. Sheffield: HRI Online Publications, 2014. Available online at: <https://www.dhi.ac.uk/openbook/chapter/dhc2012-kefalidou>

BIBLIOGRAPHY

- Kalay, Y. E., Kvan, T., & Affleck, J. (2008). *New heritage: New media and cultural heritage*. London: Routledge. Retrieved from <http://lib.myilibrary.com?id=106295&entityid=https://idp1.solent.ac.uk/idp/shibboleth>; <http://portal.solent.ac.uk/library/help/eresources/ebooks-help.aspx>
- Kärberg, T. and Saarevet. K. (2016). Transforming User Knowledge into Archival Knowledge D-Lib Magazine, Vol. 22, No. 3/4. Retrieved from: <http://www.dlib.org/dlib/march16/karberg/03karberg.html>
- Lagoze, C. (2010). *Lost identity: The assimilation of digital libraries into the web* Available from *Lost Identity: the Assimilation of Digital Libraries into the Web*.
- Lankes, R. D. (2016). *The new librarianship field guide*. Cambridge, Massachusetts: The MIT Press.
- Lim, S., & Liew, C. L. (2010). (2010). GLAM metadata interoperability. Paper presented at the *The Role of Digital Libraries in a Time of Global Change*, 140-143.
- Lim, S., & Liew, C. L. (2011). Metadata quality and interoperability of GLAM digital images. *Ap*, 63(5), 484-498. doi:10.1108/00012531111164978
- Lourdi, I., Papatheodorou, C., Doerr, M.: Semantic integration of collection description. *D-Lib Magazine*. 15 (2009) retrieved from <http://www.dlib.org/dlib/july09/papatheodorou/07papatheodorou.html>
- Maness, J. M. (2006). Library 2.0 theory: Web 2.0 and its implications for libraries. *Webology*, 3(2)
- Miller, P. (2005). Web 2.0: Building the new library. *Ariadne*, 45
- NISO. (2004). Understanding metadata. Retrieved from: https://www.lter.uaf.edu/metadata_files/UnderstandingMetadata.pdf
- O'Reilly, T. (2005). *What is web 2.0: Design patterns and business models for the next generation of software*.
- Shirky, C. (2005). *Ontology is overrated: Categories, links, and tags*. Clay Shirky's Writings about the Internet,
- Shirky, C. (2008). *Here comes everybody: The power of organizing without organizations*. London: Allen Lane.
- Smith-Yoshimura, Karen and Cyndi Shein. 2011. *Social Metadata for Libraries, Archives and Museums Part 1: Site Reviews*. Dublin, Ohio: OCLC Research. <http://www.oclc.org/research/publications/library/2011/2011-02.pdf>.
- Surowiecki, J. (2004). *The wisdom of crowds : Why the many are smarter than the few*. London: Abacus.
- Svenonius, E. (2000). *The intellectual foundation of information organization*. Cambridge, Mass. ; London: MIT Press.
- Tamaro, A. M. (2016). Heritage curation in the digital age: Professional challenges and opportunities. *International Information & Library Review*, 48(2), 122-128. doi:10.1080/10572317.2016.1176454
- UNESCO. (2003). Charter on the preservation of digital heritage. Retrieved from http://portal.unesco.org/en/ev.php-URL_ID=17721&URL_DO=DO_TOPIC&URL_SECTION=201.html
- Vander Wal, T. (2007, February 2). Folksonomy coinage and definition [Web log post]. Retrieved from <http://vanderwal.net/folksonomy.html>
- Weinberger, D. (2005). *Tagging and Why It Matters*. Retrieved from <http://cyber.law.harvard.edu/sites/cyber.law.harvard.edu/files/07-WhyTaggingMatters.pdf>
- Weinberger, D. (2007). *Everything is miscellaneous: The power of the new digital disorder*. New York, N.Y.: Henry Holt.
- Weinberger, D. (2014). *Too big to know: Rethinking knowledge now that the facts aren't the facts, experts are everywhere, and the smartest person in the room is the room*. New York: Basic Books.
- Wright, A. (2014). *Cataloging the world: Paul Otlet and the birth of the information age*. New York: Oxford University Press.
- Wright, A. (2007). *Glut: Mastering information through the ages*. Washington, District of Columbia: Joseph Henry Press.
- Zeng, M. L., & Qin, J. (2016). *Metadata (2nd ed.)*. London: Facet Publishing.



THANK YOU