



Normalization for Semantic Web with Authority Data in Alma and Primo VE

IGELU 2024, 11.09.2024, Hans Schürmann & Jeanette Isele

Agenda

- 1 Relevance of normalization and semantic networks in libraries**
- 2 Current situation in swisscovery**
- 3 Chances and challenges**
- 4 Ideas, goals and vision**

1. Relevance of normalization and semantic networks in libraries



Relevance of normalization and semantic networks in libraries

Normalization

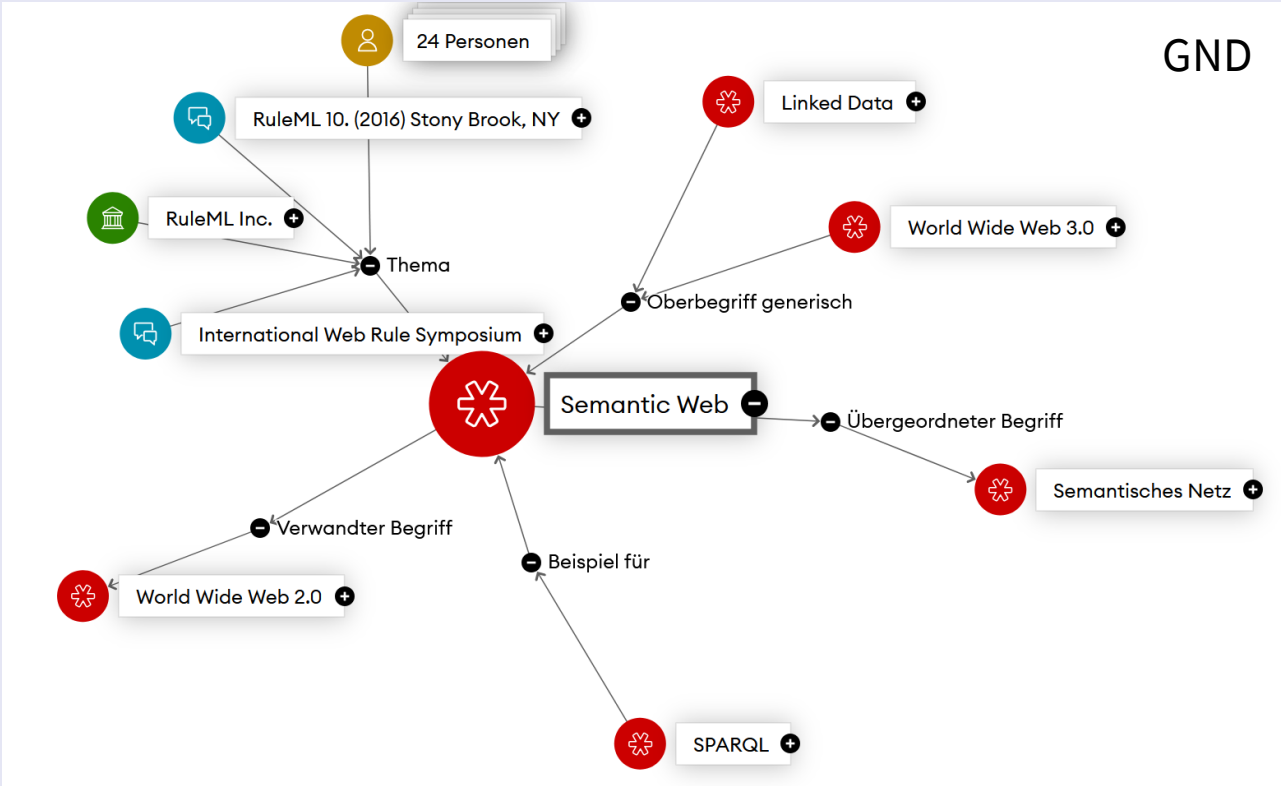
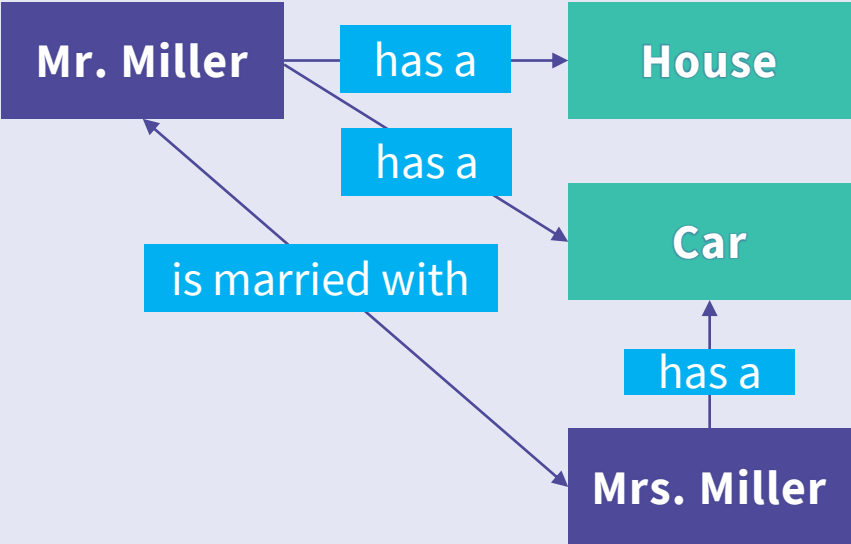
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Relevance of normalization and semantic networks in libraries

Semantic networks

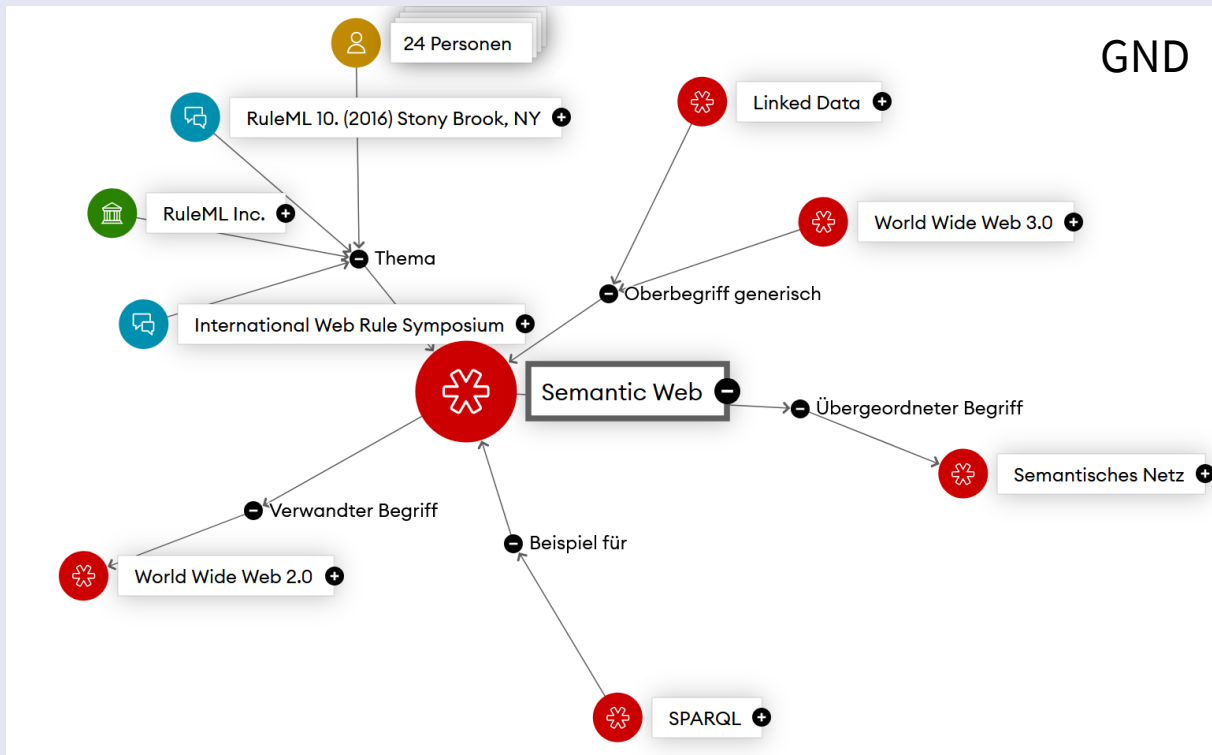


GND



Relevance of normalization and semantic networks in libraries

Semantic networks – semantic web



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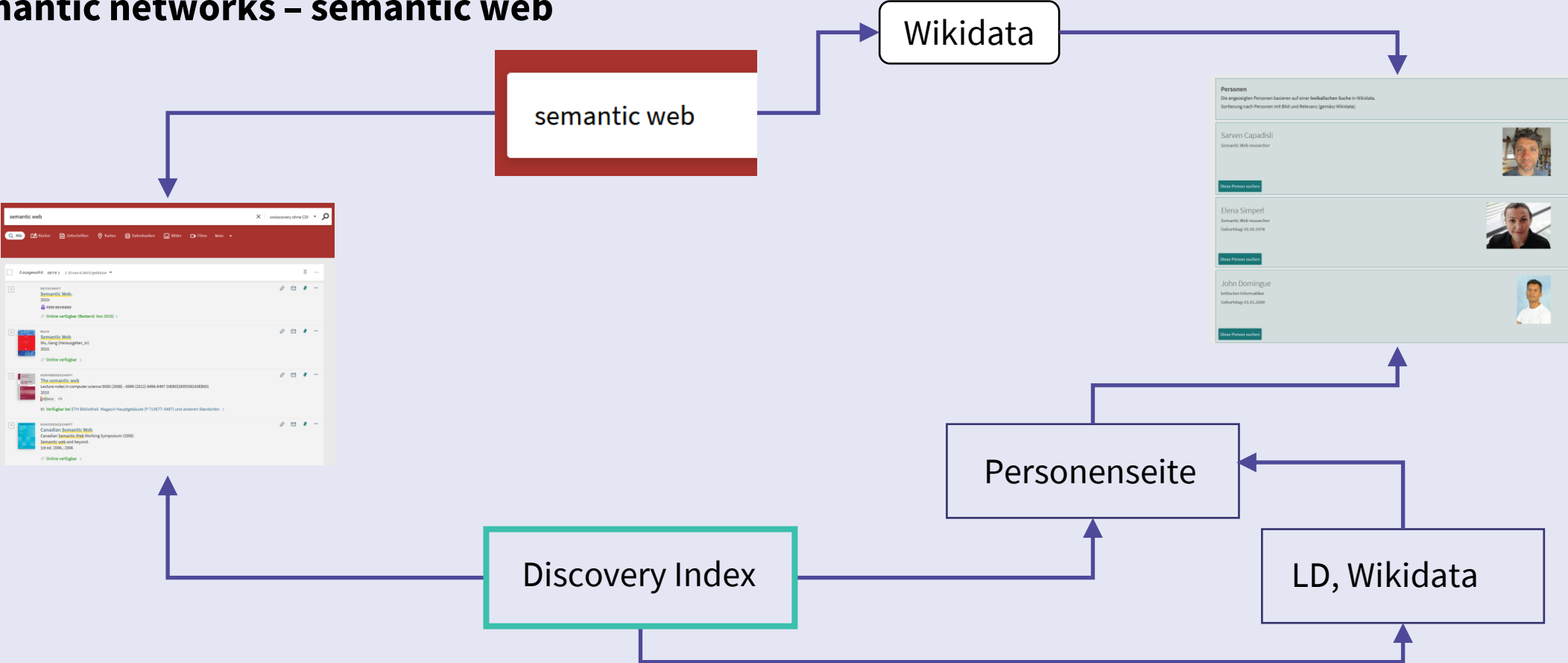
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Relevance of normalization and semantic networks in libraries

Semantic networks – semantic web





2. Current situation in swisscovery



Current situation in swisscovery

Multilinguality

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Current situation in swisscovery

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Current situation in swisscovery

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Current situation in swisscovery

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338		nc rdacarrier
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520		The papers presented in this volume advance the state-of-the-art research on digital marketing and social media, mobile computing and responsive web design, semantic technologies and recommender systems, augmented and virtual reality, electronic distribution and online travel reviews, MOOC and eLearning, eGovernment and sharing economy. This book covers the most significant areas contributed by prominent scholars from around the world and is suitable for both academics and practitioners who are interested in the latest developments in eTourism. SBT/15.02.2016/BUL/ID
650	7	Tourisme (IDREF)02726520X idref
650	7	Technologies de l'information et de la communication (IDREF)052499103 idref
650	7	Communication (IDREF)027321657 idref
650	7	Information (IDREF)027803945 idref
650	7	Tourismus (DE-588)4018406-7 gnd
650	7	Informationstechnik (DE-588)4026926-7 gnd
650	7	Kommunikationstechnik (DE-588)4031888-6 gnd
655	7	Actes de congrès (IDREF)02886431X idref
655	7	Konferenzschrift Bilbao 2016 gnd-content
691		338.47910285 Beni e servizi. Turismo. Applicazioni dell'elaboratore usi-TE
700	1	Schegg, Roland Albert (IDREF)180458043
700	1	880-03 Inversini, Alessandro Herausgeber
	1	700-03 Inversini, Alessandro (RERO)A026006856
710	1	International Federation for IT and Travel & Tourism (IFITT)
710	1	International Conference on Information and Communication Technologies in Tourism (SBT11)000013419
711	2	International Conference on Information and Communication Technologies in Tourism 23 2016 Bilbao, España (RERO)A026460084

Details	
Title	Information and communication technologies in tourism 2016 : proceedings of the International Conference in Bilbao, Spain, February 2-5, 2016
Attribution	Alessandro Inversini, Roland Schegg editors
Publication	Cham : Springer
Edition, date	[2016]
Format	xv, 792 Seiten : Illustrationen
Language	English
Notes	Includes bibliographical references
Description	The papers presented in this volume advance the state-of-the-art research on digital marketing and social media, mobile computing and responsive web design, semantic technologies and recommender systems, augmented and virtual reality, electronic distribution and online travel reviews, MOOC and eLearning, eGovernment and sharing economy. This book covers the most significant areas contributed by prominent scholars from around the world and is suitable for both academics and practitioners who are interested in the latest developments in eTourism.
	Show All
Subject	Tourisme > Technologies de l'information et de la communication > Communication > Information > Tourismus > Informationstechnik > Kommunikationstechnik >
Classifications	338.486 (UDC) QQ 955 (RVK) ST 690 (RVK) QT 950 (RVK)
Publication form	Actes de congrès > Konferenzschrift Bilbao 2016 >
Identifier	ISBN : 9783319282305 (Print)
Author	ENTER 23 2016 Bilbao >
Contributor	Schegg, Roland Albert > Inversini, Alessandro (editor) > International Federation for IT and Travel & Tourism (IFITT) > International Conference on Information and Communication Technologies in Tourism > International Conference on Information and Communication Technologies in Tourism 23 2016 Bilbao, España > Inversini, Alessandro >
Display in the GND	ENTER Bilbao 2016 23 Tourismus Informationstechnik Kommunikationstechnik
Display in IdRef	Tourisme Technologies de l'information et de la communication Communication Information Schegg, Roland Albert



Current situation in swisscovery

Community zone

Details	
Title	Semantic Web
Attribution	edited by Gang Wu.
Publication	[Place of publication not identified] : IntechOpen,
Edition, date	2010.
Format	1 online resource (318 pages)
Language	English
Language note	English
Notes	Includes bibliographical references and index.
Description	Having lived with the World Wide Web for twenty years, surfing the Web becomes a way of our life that cannot be separated. From latest news, photo sharing, social activities, to research collaborations and even commercial activities and government affairs, almost all kinds of information are available and processible via the Web . While people are appreciating the great invention, the father of the Web , Sir Tim Berners-Lee, has started the plan for the next generation of the Web , the Semantic Web . Unlike the Web that was originally designed for reading, the Semantic Web aims at a more intelligent Web severing machines as well as people. The idea behind it is simple: machines can automatically process or “understand” the information, if explicit meanings are given to it. In this way, it facilitates sharing and reuse of data across applications, enterprises, and communities. According to the organisation of the book, the intended readers may come from two groups, i.e. those whose interests include Semantic Web and want to catch on the state-of-the-art research progress in this field; and those who urgently need or just intend to seek help from the Semantic Web . In this sense, readers are not limited to the computer science. Everyone is welcome to find their possible intersection of the Semantic Web .
	<input type="button" value="Show All"/>
Subject	World Wide Web >
Classifications	025.04 (Dewey)
Identifier	ISBN : 953-51-5745-0
Author	Wu, Gang (editor) >
Contributor	Wu, Gang >

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100 1#$aWu, Gang $4edt
245 00$aSemantic Web / $cedited by Gang Wu.
260 ##$bIntechOpen $c2010
264 #1$a[Place of publication not identified] : $bIntechOpen, $c2010.
300 ##$a1 online resource (318 pages)
336 ##$atext $btxt $2rdacontent
337 ##$acomputer $bc $2rdamedia
338 ##$aonline resource $bcr $2rdacarrier
588 ##$aDescription based on: online resource; title from PDF information screen (InTech, viewed October 15, 2022).
504 ##$aIncludes bibliographical references and index.
520 ##$aHaving lived with the World Wide Web for twenty years, surfing the Web becomes a way of our life that cannot
546 ##$aEnglish
650 #0$aWorld Wide Web.
653 ##$aWeb services
776 ##$z953-7619-54-0
700 1#$aWu, Gang, $eeditor.
906 ##$aBOOK
```



Current situation in swisscovery

Identifier \$0 is not indexed for Primo VE Facets:

- One facet for all authorities
- One facet for all identical main entries

Example:

Facet “Meier, Petra” contains

- Meier, Petra (GND: 1078249768)
- Meier, Petra (GND: 123245761)
- Meier, Petra (GND: 143374621)
- Meier, Petra (IdRef: 087986825)



Current situation in swisscovery

Primo VE Views -> general index and local fields:

9	format	Format	ex_impl	...
10	frequency	Frequency	ex_impl	...
11	genre	Genre	ex_impl	...
12	identifier	Identifier	ex_impl	...
13	ispartof	Is Part Of	admin	...
14	language	Language	ex_impl	...
15	local_field_01	General Index	admin	...
16	local_field_02	System number (035)	admin	...
17	local_field_03	Display in the GND	admin	...

- General index (out of the box fields: creator, contributor, subject): only one index, non-preferred-terms indexed, multilingual parameter: yes
- Local index: each vocabulary with own index, non-preferred-terms not indexed, multilingual parameter: no



Current situation in swisscovery

Primo VE Views -> multilingual configuration:

Subfield	Source	Operator	Value	Interface Language	
1 9	Bib	Contains	ger	German	...
2 9	Authority	Contains	fre	French	...
3 9	Authority	Contains	fre	Italian	...
4 9	Authority	Contains	eng	English	...
5 9	Authority	Contains	ger	German	...

- Currently not configured, because language is not customizable concerning the Primo VE language



3. Chances and challenges



Chances and challenges

Advantages:

1. For each authority file a semantic network can be created and used

The screenshot displays the ETH Zürich swisscovery search interface. On the left, there is a search bar with the text "Suchen Sie ..." and a dropdown menu for "Sortieren nach Relevanz". Below the search bar, there are filters for "Zeige nur" (In swisscovery-Bibliotheken verfügbar, Online verfügbar, Open Access, Weitere anzeigen) and "Ressourcentyp" (Bücher (5.716)).

The main content area is divided into two sections:

- Verwandte ETH-Schlagworte oder Orte**: This section provides a list of related terms and locations, each with a green progress bar and a right-pointing arrow. The terms include: SEMANTISCHE NETZWERKE (INFORMATIONSSYSTEME), DENOTATIONELLE SEMANTIK (MATHEMATISCHE LOGIK), SEMANTIK, SEMANTIK (MATHEMATISCHE LINGUISTIK), BEDEUTUNGSWOERTERBUECHER (WORTERKLAERUNGEN), SEMANTIK LOGISCHER SPRACHEN (MATHEMATISCHE LOGIK), SEMANTIK VON PROGRAMMIERSPRACHEN + SYNTAX VON PROGRAMMIERSPRACHEN, VERBUNDKATALOGE (BIBLIOTHEKSWESEN), SEMANTISCHE SPRACHMODELLE (MATHEMATISCHE LINGUISTIK), SPRACHWISSENSCHAFT + LINGUISTIK, SYNTAX (SPRACHWISSENSCHAFT), INDUKTIVES SCHLUSSEVERFAHREN (PHILOSOPHISCHE LOGIK), VERNETZTES DENKEN, KONZEPTUELLE STRUKTUREN (KÜNSTLICHE INTELLIGENZ), BERÜHRUNGSLOSE ENERGIEÜBERTRAGUNG (ELEKTROTECHNIK), ONTOLOGIEN (KÜNSTLICHE INTELLIGENZ), DEDUKTIVES SCHLUSSEVERFAHREN + SYLLOGISMUS (PHILOSOPHISCHE LOGIK), INTERNET + WORLD WIDE WEB (COMPUTERSYSTEME), INDUKTIVE LOGIK (MATHEMATISCHE LOGIK), and SPERNER-LEMMA (TOPOLOGIE).
- Personen**: This section displays a list of people based on a lexical search in Wikidata. It includes the name "Sarven Capadisi" (Semantic Web researcher) and "Elena Simperl" (Semantic Web researcher, Geburtstag: 01.05.1978). Each entry has a small profile picture and a button labeled "Diese Person suchen".



Chances and challenges

Advantages:

2. If subject headings in French/german are in the bib record, the record/item can be found if the user enters French and if he enters German

Details	
Title	Information and communication technologies in tourism 2016 : proceedings of the International Conference in Bilbao, Spain, February 2-5, 2016
Attribution	Alessandro Inversini, Roland Schegg editors
Publication	Cham : Springer
Edition, date	[2016]
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Language	English
Notes	Includes bibliographical references
Description	The papers presented in this volume advance the state-of-the-art research on digital marketing and social media, mobile computing and responsive web design, semantic technologies and recommender systems, augmented and virtual reality, electronic distribution and online travel reviews, MOOC and eLearning, eGovernment and sharing economy. This book covers the most significant areas contributed by prominent scholars from around the world and is suitable for both academics and practitioners who are interested in the latest developments in eTourism. Show All
Subject	Tourisme > Technologies de l'information et de la communication > Communication > Information > Tourismus > Informationstechnik > Kommunikationstechnik >
Classifications	338.486 (UDC) QQ 955 (RVK) ST 690 (RVK) QT 950 (RVK)
Publication form	Actes de congrès > Konferenzschrift Bilbao 2016 >
Identifier	ISBN : 9783319282305 (Print)
Author	ENTER 23 2016 Bilbao >
Contributor	Schegg, Roland Albert > Inversini, Alessandro (editor) > International Federation for IT and Travel & Tourism (IFITI) > International Conference on Information and Communication Technologies in Tourism > International Conference on Information and Communication Technologies in Tourism 23 2016 Bilbao, España > Inversini, Alessandro >
Display in the GND	ENTER Bilbao 2016 23 > Tourismus > Informationstechnik > Kommunikationstechnik >
Display in IdRef	Tourisme > Technologies de l'information et de la communication > Communication > Information > Schegg, Roland Albert >



Chances and challenges

Advantages:

3. Facets: all authorities are considered (as identifiers are not indexed)

The screenshot displays the swisscovery search interface. At the top, the search bar contains the query "Urheber_in enthält (exakt) Meier, Petra überall enthält Suchbegriff eingeben". The search results are displayed in a list format. The first result is "Hochbegabte Kinder: ... in KiGa KiTa erkennen und fördern" by Krause, Ulrike. The second result is "La professionnalisation des luttes pour l'égalité : genre et féminisme" by Louvain-la-Neuve: Academia-L'Harmattan. The third result is "The symbolic representation of gender : a discursive approach" by Lombardo, Emanuela; Meier, Petra. The fourth result is "Au-Delà et en deçà de L'Etat : Le Genre Entre Dynamiques Transnationales et Multi-Niveaux." by Paris: Academia-Bruylant. The fifth result is "Zeitreise : Gedichte" by Rosenberger, Werner. The search results are filtered by "Urheber in" (Author) with "Meier, Petra" selected, showing 100 results. The interface also includes a sidebar with filters for "Ergebnisse optimieren", "Sortieren nach", "Zeige nur", "swisscovery Network", "Ressourcentyp", and "Urheber in".

Chances and challenges

Disadvantages:

1. Discovery: identifiers are not indexed for facets

The screenshot shows the swisscovery search interface. At the top, there is a search bar with the criteria: "Urheber_in enthält (akt) Meier, Petra UND überall enthält Suchbegriff eingeben". The search results are displayed in a list format. The first result is "Hochbegabte Kinder: ... in KiGa KiTa erkennen und fördern" by Krause, Ulrike. The second result is "La professionnalisation des luttes pour l'égalité : genre et féminisme" by Louvain-la-Neuve: Academia-L'Harmattan. The third result is "The symbolic representation of gender : a discursive approach" by Lombardo, Emanuela, Meier, Petra. The fourth result is "Au-Delà et en deçà de L'Etat : Le Genre Entre Dynamiques Transnationales et Multi-Niveaux." by Paris: Academia-Brnylant. The fifth result is "Zeitreise : Gedichte" by Rosenberger, Werner. On the left side, there is a sidebar with filters. The "Urheber_in" filter is expanded, showing "Meier, Petra [1/1]" selected. The "Ressourcentyp" filter is also expanded, showing "Artikel [84]" selected.



Chances and challenges

Disadvantages:

2. If parallel entries or authority links are missing -> it cannot be searched in all languages

Details	
Title	Semantic Web
Attribution	edited by Gang Wu.
Publication	[Place of publication not identified] : InTechOpen,
Edition, date	2010.
Format	1 online resource (318 pages)
Language	English
Language note	English
Notes	Includes bibliographical references and index.
Description	Having lived with the World Wide Web for twenty years, surfing the Web becomes a way of our life that cannot be separated. From latest news, photo sharing, social activities, to research collaborations and even commercial activities and government affairs, almost all kinds of information are available and processible via the Web . While people are appreciating the great invention, the father of the Web , Sir Tim Berners-Lee, has started the plan for the next generation of the Web , the Semantic Web . Unlike the Web that was originally designed for reading, the Semantic Web aims at a more intelligent Web severing machines as well as people. The idea behind it is simple: machines can automatically process or "understand" the information, if explicit meanings are given to it. In this way, it facilitates sharing and reuse of data across applications, enterprises, and communities. According to the organisation of the book, the intended readers may come from two groups, i.e. those whose interests include Semantic Web and want to catch on the state-of-the-art research progress in this field; and those who urgently need or just intend to seek help from the Semantic Web . In this sense, readers are not limited to the computer science. Everyone is welcome to find their possible intersection of the Semantic Web .
<input type="button" value="Show All"/>	
Subject	World Wide Web >
Classifications	025.04 (Dewey)
Identifier	ISBN : 953-51-5745-0
Author	Wu, Gang (editor) >
Contributor	Wu, Gang >

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100 1#$aWu, Gang $4edt
245 00$aSemantic Web / $cedited by Gang Wu.
260 ##$bIntechOpen $c2010
264 #1$a[Place of publication not identified] : $bIntechOpen, $c2010.
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338 ##$aonline resource $bcr $2rdacarrier
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504 ##$aIncludes bibliographical references and index.
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546 ##$aEnglish
650 #0$aWorld Wide Web.
653 ##$aWeb services
776 ##$z953-7619-54-0
700 1#$aWu, Gang, $eeditor.
906 ##$aBOOK
```

Chances and challenges

Disadvantages:

3. Effort to always create the parallel entries in all three languages



3. Ideas, goals and vision



Ideas, goals and vision

GND ID	4688372-1
subject named as	Semantic Web
scope note	Definition: 1. Das Semantische Web ist eine W3C Activity zur computerlesbaren Darstellung von Informationen im World Wide Web derart, dass sie von Maschinen nicht nur für Präsentationszwecke benutzt werden können, sondern zur Automatisierung, Integration u. Wiederverwendung quer über Anwendungen hinweg. Für das Semantische Web relevante Technologien sind z.B. Beschreibungslogiken, Ontologien, Metadaten, Regelsysteme u. Informationsextraktion. 2. Eine Erweiterung des heutigen Web um Metadaten zur Bedeutungsanreicherung. 3. Eine konkrete, in der Entwicklung befindliche Implementierung eines verteilten semantischen Netzes. (German)
broader concept	semantic network
▶ 1 reference	

edia (44 entries) ^

- ويب دلالي
- Semantik veb
- Семантична мрежа
- সেম্যান্টিক ওয়েব
- Web semàntic
- Sémantický web
- Semantisk web
- Semantic Web
- Σημαιολογικός Ιστός
- Semantic Web
- Semantika Reto
- Web semántica
- Web semantiko
- وب معنایی
- Semantinen Web
- Web sémantique

Ideas, goals and vision

Notice SH2002-000569

Titre : **Web sémantique**

Éditeur : **Library of Congress**

Classification : **SH2002-000569**

Langue : **Anglais**

Statut : **Actif**

Notes : **Le Web sémantique est une extension du Web qui vise à faciliter l'échange de données entre les applications informatiques. Il s'agit d'un modèle de données qui permet de représenter des informations de manière structurée et de les relier entre elles. Ce modèle est basé sur des ontologies et des graphes de connaissances.**

Équivalent dans un autre référentiel

Terme équivalent dans un autre système : **Semantic Web**

Date de consultation du référentiel ou de la classification externe : **2017-02-09**

URI : **http://id.loc.gov/authorities/subjects/sh2002000569**

Code du système ou de la classification utilisé : **LCSH**

Notice FAMEAU

Titre : **Web sémantique**

Éditeur : **Library of Congress**

Classification : **SH2002-000569**

Langue : **Anglais**

Statut : **Actif**

Notes : **Le Web sémantique est une extension du Web qui vise à faciliter l'échange de données entre les applications informatiques. Il s'agit d'un modèle de données qui permet de représenter des informations de manière structurée et de les relier entre elles. Ce modèle est basé sur des ontologies et des graphes de connaissances.**

LIBRARY OF CONGRESS

Search id.loc.gov

Semantic Web

URI: <http://id.loc.gov/authorities/subjects/sh2002000569>

Subject Of Works

- Advances in knowledge discovery and management
- Advances in ontology design and patterns
- Advances in semantic media adaptation and personalization
- Advancing information management through Semantic Web concepts and ontologies
- Allexis, H. P. Thinking on the Web
- Allexis, H. P. Thinking on the Web
- Allexis, H. P. Thinking on the Web
- Allexis, H. P. Thinking on the Web
- Annotation for the semantic web

GND ID: **4688372-1**

subject named as: **Semantic Web**

scope note: **Definition: 1. Das Semantische Web ist eine W3C Activity zur computerlesbaren Darstellung von Informationen im World Wide Web derart, dass sie von Maschinen nicht nur für Präsentationszwecke benutzt werden können, sondern zur Automatisierung, Integration u. Wiederverwendung quer über Anwendungen hinweg. Für das Semantische Web relevante Technologien sind z.B. Beschreibungssprachen, Ontologien, Metadaten, Regelsysteme u. Informationsextraktion. 2. Eine Erweiterung des heutigen Web um Metadaten zur Bedeutungsanreicherung. 3. Eine konkrete, in der Entwicklung befindliche Implementierung eines verteilten semantischen Netzes. (German)**

broader concept: **semantic network**

1 reference

WIKIDATA

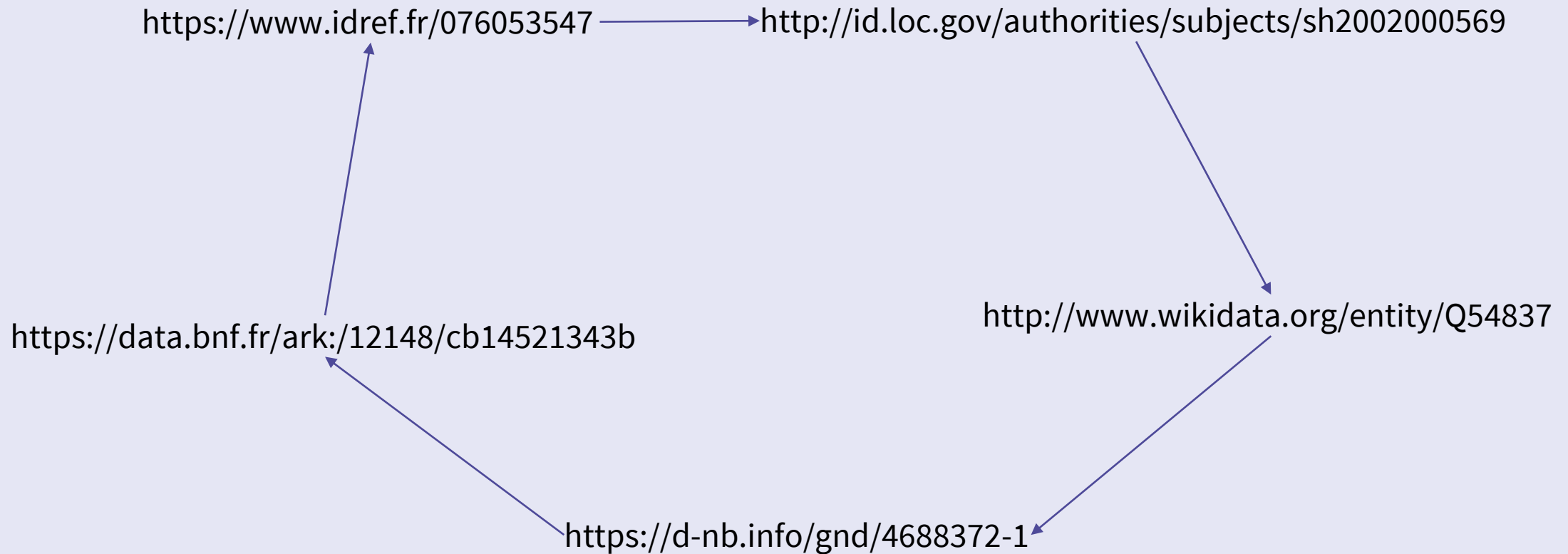
Semantic Web (Q54837)

extension of the Web to facilitate data exchange

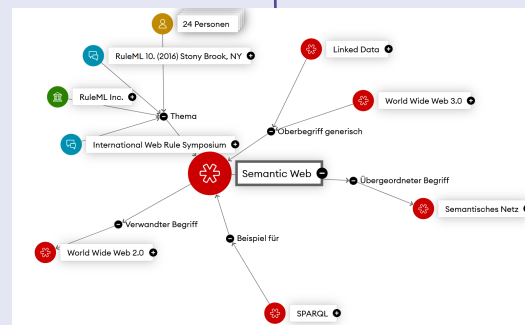
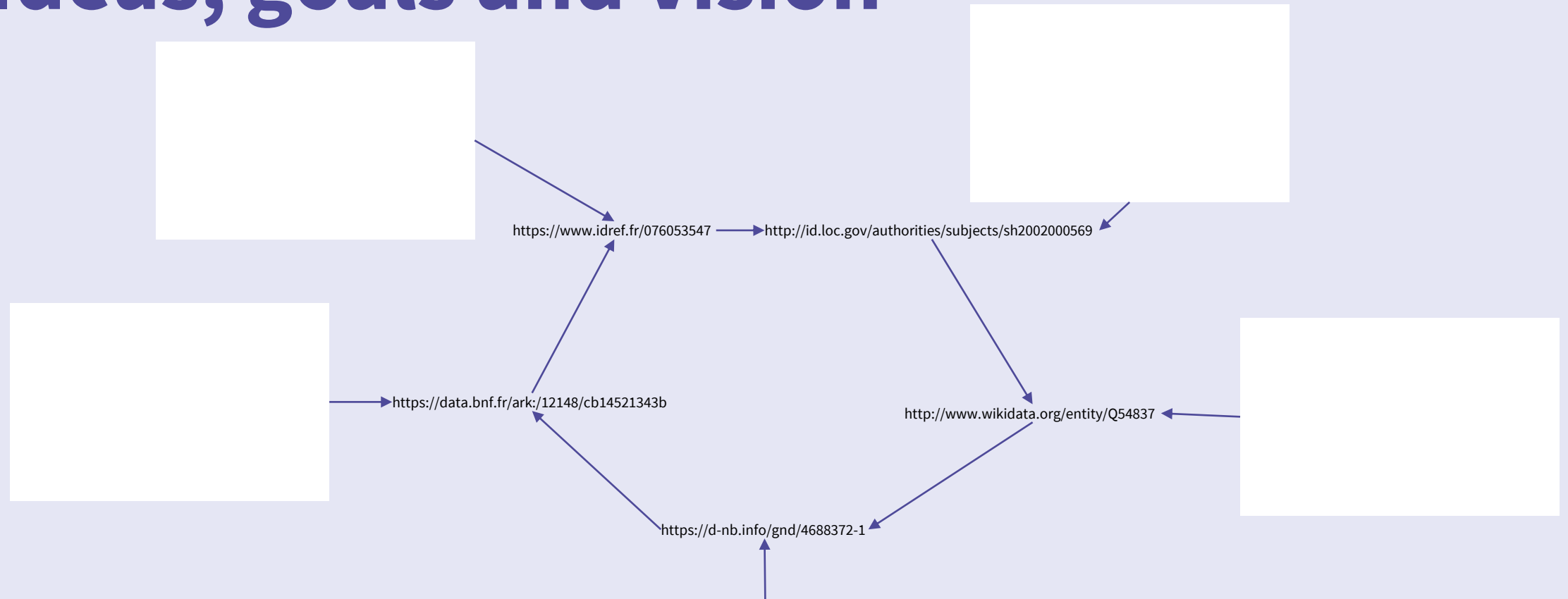
Language	Label	Description	Also known as
English	Semantic Web	extension of the Web to facilitate data exchange	SemWeb Sem Web semantic web Semantic Web Technologies
German	Semantic Web	formales Modell von Begriffen und ihren Beziehungen	Semantisches Web Wissensnetz
Alemannic	Semantic Web	No description defined	
French	Web sémantique	réseau de concepts interdépendants, où les dépendances sont classifiées en types distincts avec des interprétations spécifiques	Web des données

- Exact Matching Concepts from Other Schemes**
- [semantic web](#)
- Closely Matching Concepts from Other Schemes**
- [Semantic Web](#) (Label from public data source Wikidata)
 - [Semantic Web](#)
 - [Semantic Web](#)
 - [semantinnen web](#)
 - [Web semántica](#)
 - [Web semantico](#)
 - [Web sémantique](#)
 - [セマンティックウェブ](#)

Ideas, goals and vision



Ideas, goals and vision



Ideas, goals and vision

- Linked data as a semantic network opens the world for discovery
- Possible ways:
 - Link the bibliographic record to each vocabulary
 - Link the bibliographic record to a vocabulary which is linked to all the other vocabularies
 - Link the bibliographic record to a vocabulary which is linked to a vocabulary which is linked to another vocabulary...
- The success depends on the possibilities in the discovery tool



Ideas, goals and vision

Let's find together the best way to discover the world

