Semantic Web Technologies II
SS 2009

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Semantic Web 2.0 II – Semantic MediaWiki

Dr. Sudhir Agarwal   **Markus Krötzsch**
Dr. Stephan Grimm
Dr. Peter Haase
PD Dr. Pascal Hitzler
Denny Vrandečić

Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft

Universität Karlsruhe (TH)
Forschungsuniversität · gegründet 1825

Ausblick

- Nächsten Mittwoch: Semantic Web 2.0 im Allgemeinem

- Prüfung: Mündlich, Anmeldung jetzt (bis 13.7.)
  https://team.uni-karlsruhe.de/institute/aifb/pvw/pages/Pr%C3%BCfung.aspx

- Lehrevaluationsbögen

Semantic Web 2.0 / Web 3.0

- A World Wide Web (of data)
- Bottom-up, user-centred approach
- "A little semantics goes a long way"

Semantic Web 2.0

Example: Semantic MediaWiki

Wikipedia today

Brač is a [Croatian](#) island in the [Adriatic Sea](#). The island has a population of 13,000, living in numerous little towns, ranging from the 'main town' [Supetar](#), with more than 2,500 inhabitants, to [Novo Selo](#), where only a dozen people live.

Today, Brač lives mostly on [tourism](#), but [fishing](#) and [agriculture](#) (especially [wine](#) and [olives](#)) are very important too, as is selling its precious, white stone (which was used in building [Diocletian's Palace](#) in [Split](#), and is built into the [White House](#) in [Washington, DC](#), too).

Category: [Croatian Island](#)

How are they linked?

Brač	belongs to	Croatia
Brač	located in	Adriatic Sea
Brač	has town	Supetar
Brač	has town	Novo Selo
Brač	lives on	tourism
Brač	lives on	fishing
Brač	lives on	agriculture

Annotations

- Extend wiki text with annotations

- Computer "understands" the annotations

```
Brač is a
[[belongs to::Croatia]]n
island with an area of
[[area::396 km²]].
```
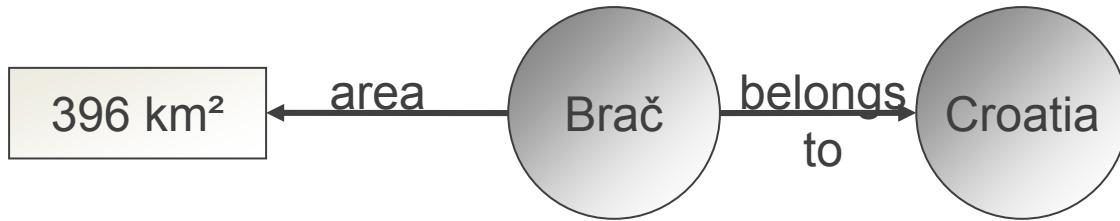
Mapping of OWL to SMW (rough)

`owl:Individual`	Article
`owl:Class`	Category
`owl:ObjectProperty`	Property with type page
`owl:DatatypeProperty`	Property with other types
Object property instance	Typed link `[[`*property*`::`*object*`]]`
Datatype property instance	`[[`*property*`::`*value*`]]`
`rdf:type` *class* Class instantiation	`[[Category:`*class*`]]` (on article page)
`rdfs:subClassOf` *class* Subsumption	`[[Category:`*class*`]]` (on category page)
`rdfs:subPropertyOf` *prop* Property subsumption	`[[Subproperty of:`*prop*`]]` (on category page)

How does it look like?

Brač

Brač is a Croatian island in the Adriatic Sea. The island has a population of 13,000, living in numerous little towns, ranging from the 'main town' Supetar, with more than 2,500 inhabitants, to Novo Selo, where only a dozen people live. It has an area of 396 km².

Today, Brač lives mostly on tourism, but fishing and agriculture (especially wine and olives) are very important too, as is selling its precious, white stone (which was used in building Diocletian's Palace in Split, and is built into the White House in Washington, DC, too).

Category: Croatian island

Brač

Brač is a Croatian island in the Adriatic Sea. The island has a population of 13,000, living in numerous little towns, ranging from the 'main town' Supetar, with more than 2,500 inhabitants, to Novo Selo, where only a dozen people live. It has an area of 396 km².

Today, Brač lives mostly on tourism, but fishing and agriculture (especially wine and olives) are very important too, as is selling its precious, white stone (which was used in building Diocletian's Palace in Split, and is built into the White House in Washington, DC, too).

Category: Island

Island

Facts about Brač ⓘ

RDF feed

Area	396,000,000 m² (396 km², 3,960 ha, 152.896 miles²) + 🔍
Country	Croatia + 🔍
Lives on	Tourism + 🔍, Fishing + 🔍, and Agriculture + 🔍
Location	Adriatic Sea + 🔍
Population	13,000 + 🔍

Lives on Tourism

A list of all pages that have a relation "Lives on" to the page "Tourism"

- Budva + ⓘ
- Brač + ⓘ
- Croatia + ⓘ
- Las Vegas, Nevada + ⓘ
- Rio de Janeiro + ⓘ
- Busan + ⓘ
- Dubai + ⓘ

Relation | Lives on | To | Tourism | | Find results |

```xml
<owl:Class rdf:about="&smw;Thing">
        <rdfs:isDefinedBy rdf:resource="http://smw.ontoware.or
</owl:Class>
<!-- exported page data -->
<smw:Thing rdf:about="&thing;Bra-C4-8D">
        <rdfs:label>Brač</rdfs:label>
        <smw:hasArticle rdf:resource="&wikiurl;Bra%C4%8D"/>
        <rdfs:isDefinedBy rdf:resource="&wikiurl;Special:Expor
        <rdf:type rdf:resource="&thing;Category-3AIsland"/>
        <relation:Belongs_to rdf:resource="&thing;Croatia"/>
        <relation:Located_in rdf:resource="&thing;Adriatic_Sea
        <relation:Has_town rdf:resource="&thing;Supetar"/>
        <relation:Has_town rdf:resource="&thing;Novo_Selo"/>
        <relation:Lives_on rdf:resource="&thing;Tourism"/>
        <relation:Lives_on rdf:resource="&thing;Fishing"/>
        <relation:Lives_on rdf:resource="&thing;Agriculture"/>
        <attribute:Population rdf:datatype="http://www.w3.org/
        <attribute:Area-23m-26sup2-3B rdf:datatype="http://www
</smw:Thing>
<!-- auxilliary definitions -->
<owl:Class rdf:about="&thing;Category-3AIsland">
        <rdfs:label>Category:Island</rdfs:label>
        <smw:hasArticle rdf:resource="&wikiurl;Category:Island
        <rdfs:isDefinedBy rdf:resource="&wikiurl;Special:Expor
</owl:Class>
```

Syntax im Semantic MediaWiki

- Das Wiki beachtet Groß- und Kleinschreibung – Ausnahme: erster Buchstabe eines Links

- Das Wiki ist Unicode-basiert

- ''' drei Apostrophe''' machen den Text **fett**

- '' zwei Apostrophe ''' machen den Text *kursiv*

- [[Text in zwei eckigen Klammern]] ist ein <u>Link</u> zu der Seite mit dem Text in den Klammern

- [[Ziel Link|Text Link]] wird einen Link anzeigen, dass wir der <u>Text Link</u> aussieht, aber zum <u>Ziel Link</u> verlinkt

- Alle weiteren Informationen über Semantic MediaWiki und Wiki Syntax unter:

- <u>http://semantic-mediawiki.org/wiki/Semantic_MediaWiki</u>

- <u>http://de.wikipedia.org/wiki/Hilfe:Formatieren</u>

Overview of semantic markup

- To add a page P to category C type [[Category:C]] on page P

- To make a typed link of type R from page P1 to page P2 type [[R::P2]] on page P1

- To state the value V of an attribute A on page P type [[A::V]] on page P

Editing Busan

Busan is a city in [[located in::Korea]] with a population of [[population::3,635,389]].

[[Category:City]]

Data values and types

- Attributes like [[birthdate::February 27 1978]] or [[population::3,635,389]] must know the *type* of the value

- This is done by adding [[has type::T]] on the page of the attribute

- Available, predefined types:

- Annotation URI
- Boolean
- Code
- Date
- Email
- Geographic coordinate

- Number
- Page
- String
- Temperature
- Text
- URL

Advantages

KIT – die Kooperation von Forschungszentrum Karlsruhe GmbH und Universität Karlsruhe (TH)

Automatic tables and lists

- Many pages answer questions
  - list of female tennis players
  - asteroids named after people
  - countries sorted by area, population, …
- They can be generated automatically
- Less maintenance tasks
- Higher consistency

Inline queries

```
{{#ask:
  [[Category:Country]]
  [[located in::Africa]]
  [[population::>1,000,000]]
  [[population::<10,000,000]]
|?population
|?area=km²
|?borders
}}
```

Editing Africa

Preview

This is only a preview; changes have not yet been saved!

Africa is a continent of the Earth, south to Europe and southwest of Asia.

List of African countries

⋈	⋈ Population	⋈ Area	⋈ Borders
Benin	8,439,000	112,620 km²	Burkina Faso Niger Nigeria Togo
Botswana	1,765,000	600,370 km²	Namibia South Africa Zambia Zimbabwe
Burundi	7,548,000	27,830 km²	Democratic Republic of the Congo Rwanda Tanzania
Central African Republic	4,038,000	622,984 km²	Cameroon Chad

Editing Africa

Preview

This is only a preview; changes have not yet been saved!

Africa is a continent of the Earth, south to Europe and southwest of Asia.

List of African countries

⊠	⊠ Population	⊠ Area	⊠ Borders
Benin	8,439,000	43,482.825 miles²	Burkina Faso Niger Nigeria Togo
Botswana	1,765,000	231,804.153 miles²	Namibia South Africa Zambia Zimbabwe
Burundi	7,548,000	10,745.223 miles²	Democratic Republic of the Congo Rwanda Tanzania
Central African Republic	4,038,000	240,535.467 miles²	Cameroon Chad Democratic Republic of the Congo

Query examples

- [[population::>1,000,000]] anything with a population of over a Million

- [[located in::Korea]] anything that is located in Korea

- [[affiliation::+]] anything that has any stated affiliation

- [[Category:Tutor]] all tutors

- [[Category:Tutor||Student]] all tutors and students (logical or)

- [[Category:Tutor]] [[Category:Student]] everyone who is both

Querying and social aspects

- **Querying can only be done on aligned vocabularies**
  - If half of the people use "affiliation" and the other half "works for" you cannot query the knowledge easily
- **Inside SMW, information integration usually happens with social tools, not with technology**
- **Gardening tools can help with aligning vocabularies, but not replace them**
  - Tools that allow you to rename a property throughout the wiki
  - Or to join two different names
- **Can also be solved with reasoning**

Main Page

The **Semantic Web** is the extension of the World Wide Web that enables people to share *content* beyond the boundaries of applications and websites. It has been described in rather different ways: as a *utopic vision*, as a *web of data*, or merely as a *natural paradigm shift* in our daily use of the Web. Most of all, the Semantic Web has inspired and engaged many people to create innovative semantic technologies and applications. **semanticweb.org** is the common platform for this community.

You can extend semanticweb.org. Make sure that your favourite semantic tool, *event, or* ontology *is here!*

Events [Cal. 2008]

ICCS2008 (Toulouse, 7 July 2008, subevents: CS-TIW2008), ICCHP2008 (Linz, 9 July 2008), AAAI2008 (Chicago, 13 July 2008), SIWN 2008 (Glasgow, 22 July 2008), ECAI2008 (Patras, 21 July 2008) *view all events …*

Tools [RSS]

The following Semantic Web tools have been recently released: ARC (Version 2, 4 July 2008), QuASAR (verification tool) (30 June 2008), BOWiki (Version 0.14, 23 June 2008), Tabulator (Version 0.8.4, 18 June 2008), and SWiM (Version 0.2.1, 17 June 2008) *view all tools …*

News

- **June 23 2008.** semanticweb.org now provides contact data for all people in vCard format. To import contacts into your address book, select the *vCard* link in the upper right corner of personal info boxes. vCard support is provided by SMW's new vCard format for semantic queries, i.e. any query result can be obtained as vCard easily. Examples are found on pages of institutions such as AIFB.

SemanticWeb

semanticweb.org

Upcoming conferences, etc.: WWW2007 (Banff, 8 May 2007), XTech2007 (Paris, 15 May 2007), ICIW2007 (Morne, 13 May 2007), SemTech 2007 (San Jose, California, 20 May 2007), ESTC 2007 (Vienna, 31 May 2007) *full list*

Upcoming submission deadlines: Semantics4ws2007 (15 May 2007), ISWC2007 (18 May 2007), KOST2007 (21 May 2007), I-KNOW2007 (21 May 2007), FAInt-07 (8 June 2007), CentiarePrize2007 (30 June 2007), Hypertext 2007 (2 July 2007) *full list*

Timeline

The following timeline shows the next 25 events with articles in this wiki.
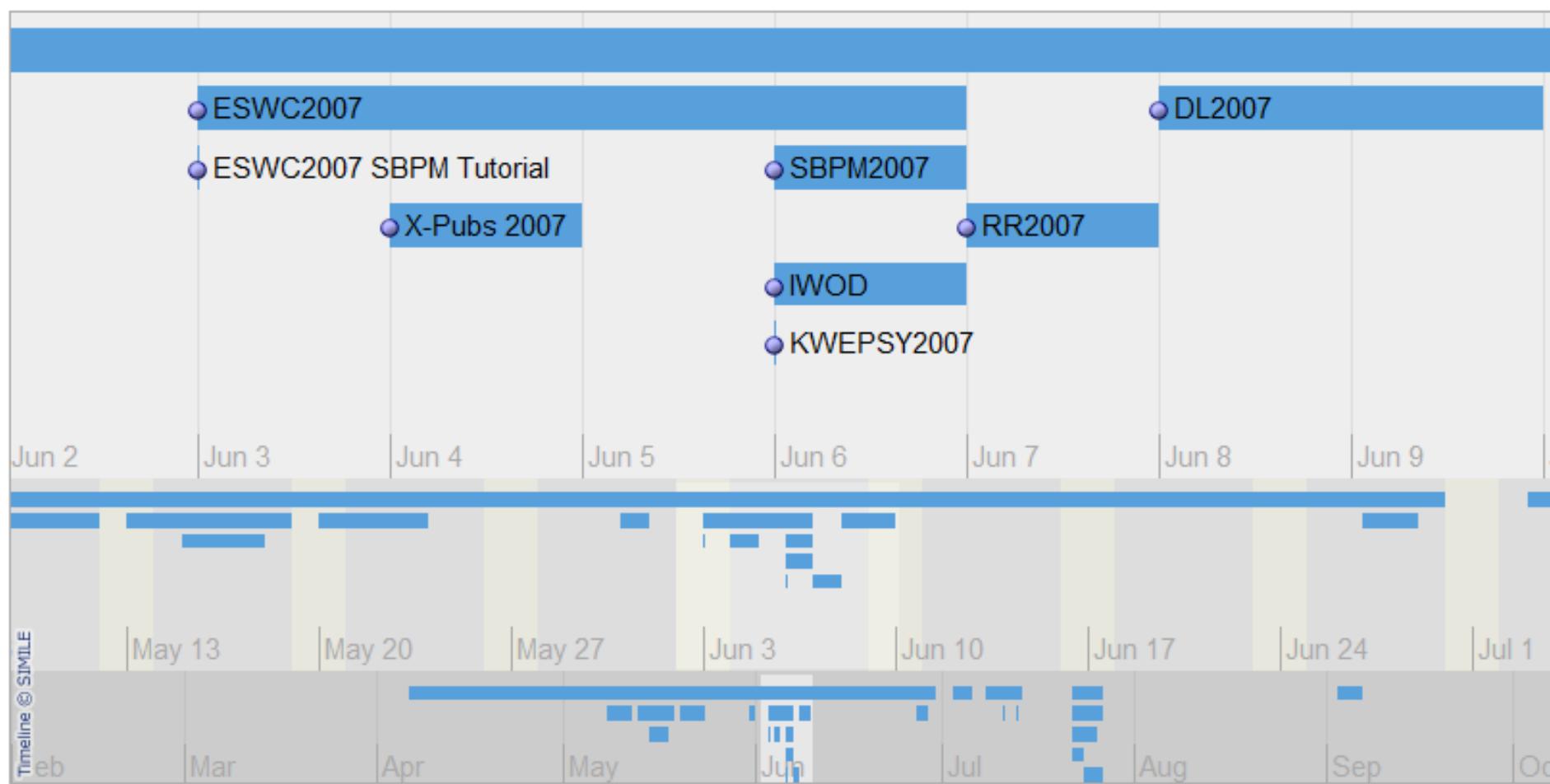
List of upcoming events

A link to further results is found at the end of this list.

⊠	⊠ Name	⊠ City	⊠ Country	⊠ Start date	⊠ End date

This is a mirror of the English Wikipedia running on Semantic MediaWiki. We put this up for experimental reasons. Read more.

Oscar winner timeline

From Wikipedia, the free encyclopedia

The **Academy Awards**, popularly known as the **Oscars**, are the most prominent film awards in the United States and most watched awards ceremony in the world.

The timeline of the birth of winners of an Academy Award.
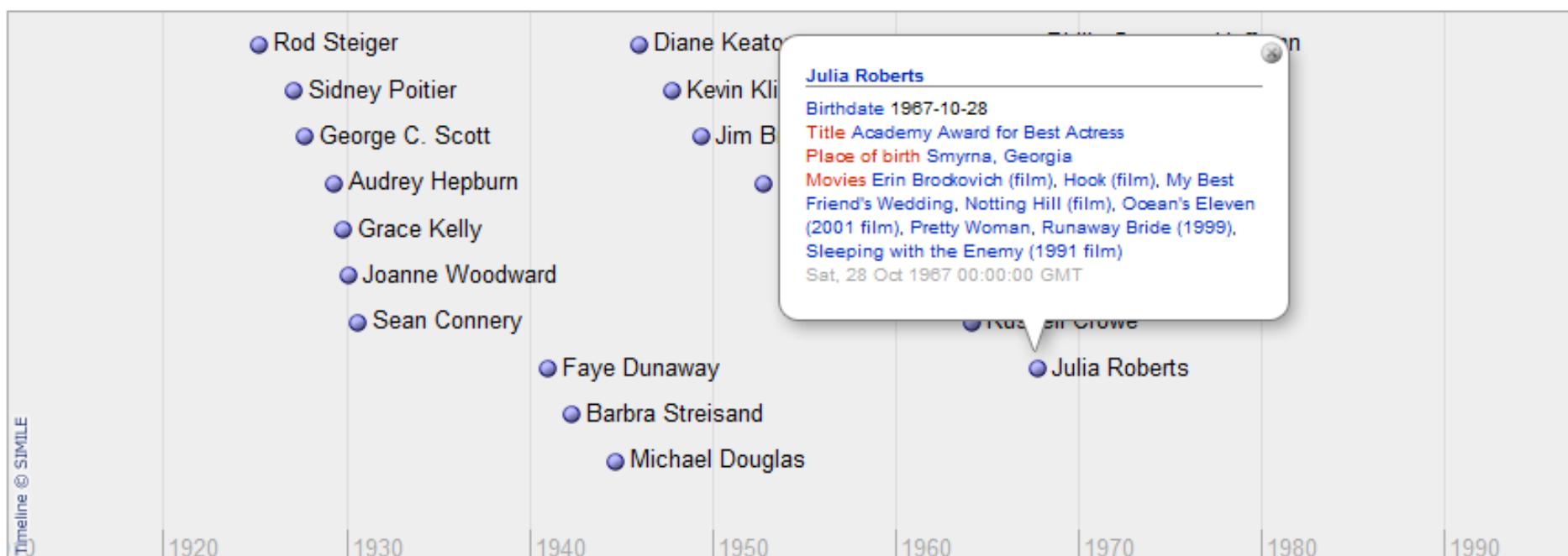
The Awards are granted by the Academy of Motion Picture Arts and Sciences, a professional honorary organization, which as of 2003 had a voting membership of 5,816. Actors (with a membership of 1,311) make up the largest voting bloc. The votes have been tabulated and certified by the auditing firm PricewaterhouseCoopers for 72 years, close to the awards' inception. [1] ⊠ They are intended for the films and persons the Academy believes have the top achievements of the year. [2] ⊠

Hand crafted checks

- Does every country have one capital?

- Is there a person with more than one mother?

- Is every person born before dying?

- Does the population density fit to population and size?

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Multilinguality

- Automatic check of consistency over language boundaries

- Generating pages for smaller Wikipedias

- Browsing information in different languages

- Localizations
  - Arabic
  - German
  - English
  - French
  - Italian
  - Korean
  - Dutch
  - Polish
  - Russian
  - Slovak
  - Simplified Chinese
  - Traditional Chinese
  - Javanese
  - Norwegian
  - Portuguese
  - Occitan
  - Afrikaans
  - Bulgarian
  - Esperanto
  - Spanish
  - Hebrew
  - Suomi
  - Hindi
  - Haitian
  - Luxembourgian
  - Marahi
  - Polish
  - Swedish
  - Vietnamese

Reuse vocabulary

- Existing vocabulary can be mapped
- Wiki directly usable as data source
    - No external mapping required
- Define vocabulary and mapping
- But: no complex mappings

Enrico Motta

Enrico Motta is an Italian who is a professor at Open University.

He knows Miriam Fernandez, Tom Heath, Saartje Brockmans, Sean Bechhofer, Natasha Noy, Asun Gomez-Perez, my mom, Michele Pasin, Marta Sabou, Vanessa Lopez, and many others.

Facts about Enrico Motta — Click +🔍 to find similar pages.   View as RDF 🔗

Relations to other articles

Nationality	Italy +🔍
Affiliation	Open University +🔍
Knows	Miriam Fernandez +🔍, Tom Heath +🔍, Saartje Brockmans +🔍, Sean Bechhofer +🔍, Natasha Noy +🔍, Asun Gomez-Perez +🔍, mom +🔍, Michele Pasin +🔍, Marta Sabou +🔍, and Vanessa Lopez +🔍

Categories: Person | Man | Professor

```xml
<rdf:RDF
        xmlns:rdf="&rdf;"
        xmlns:rdfs="&rdfs;"
        xmlns:owl ="&owl;"
        xmlns:smw="&smw;"
        xmlns:wiki="&wiki;"
        xmlns:thing="&thing;"
        xmlns:relation="&relation;"
        xmlns:attribute="&attribute;"
        xmlns:foaf="http://xmlns.com/foaf/0.1/">
        <!-- exported page data -->
        <smw:Thing rdf:about="&thing;Enrico_Motta">
                <rdfs:label>Enrico Motta</rdfs:label>
                <smw:hasArticle rdf:resource="&wikiurl;Enrico_Motta"/>
                <rdfs:isDefinedBy rdf:resource="&wikiurl;Special:ExportRDF/Enrico_Motta"/>
                <rdf:type rdf:resource="&thing;Category-3AMan"/>
                <rdf:type rdf:resource="http://xmlns.com/foaf/0.1/Person"/>
                <rdf:type rdf:resource="&thing;Category-3AProfessor"/>
                <relation:Nationality rdf:resource="&thing;Italy"/>
                <relation:Affiliation rdf:resource="&thing;Open_University"/>
                <foaf:knows rdf:resource="&thing;Miriam_Fernandez"/>
                <foaf:knows rdf:resource="&thing;Tom_Heath"/>
                <foaf:knows rdf:resource="&thing;Saartje_Brockmans"/>
                <foaf:knows rdf:resource="&thing;Sean_Bechhofer"/>
                <foaf:knows rdf:resource="&thing;Natasha_Noy"/>
                <foaf:knows rdf:resource="&thing;Asun_Gomez-2DPerez"/>
                <foaf:knows rdf:resource="&thing;Mom"/>
                <foaf:knows rdf:resource="&thing;Michele_Pasin"/>
                <foaf:knows rdf:resource="&thing;Marta_Sabou"/>
                <foaf:knows rdf:resource="&thing;Vanessa_Lopez"/>
        </smw:Thing>
        <!-- auxilliary definitions -->
        <owl:Class rdf:about="&thing;Category-3AMan">
                <rdfs:label>Category:Man</rdfs:label>
                <smw:hasArticle rdf:resource="&wikiurl;Category:Man"/>
```

Web ecosystem

Wikipedia as a vocabulary

- Semantic Wikipedia as a resource of URIs
    - Maintaining good URIs is hard

- Documented
- Multilingual labels
- Enables easier mapping
    - Reuse for common terms
    - Helps in mapping the rest structurally

Cool URIs

http://en.wikipedia.org/id/Romeo_and_Juliet

Shakespeare

Romeo and Juliet

author → Shakespeare

about

author → JSmith 42
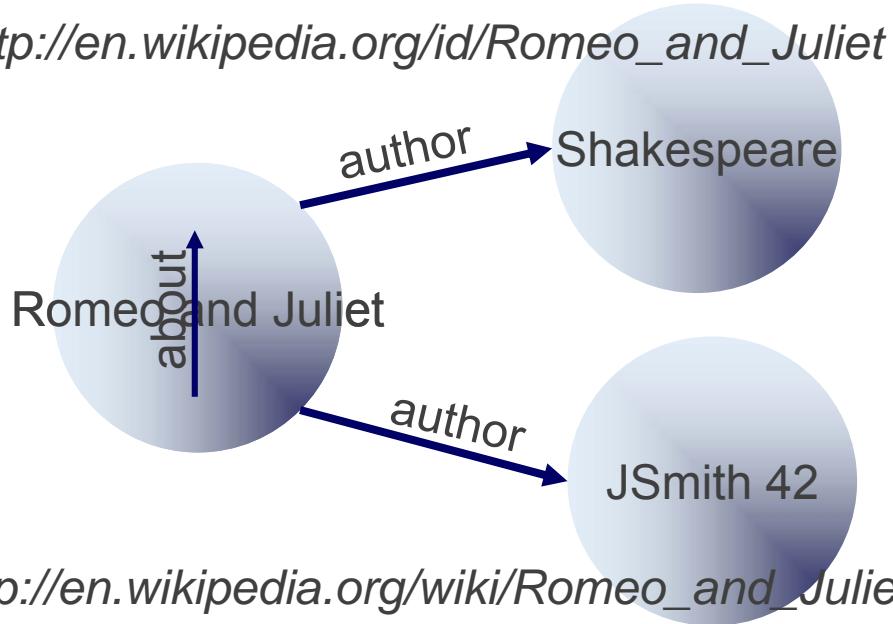
http://en.wikipedia.org/wiki/Romeo_and_Juliet

- Is "Romeo and Juliet" the book, or the article about the book?

- One URI for each

- Redirects in browser

Data reuse

- Machines can understand wiki content
  - Knowledge based applications
  - Amarok Media Player

- Simple to do
  - RDF packages in many languages
    - Java, JavaScript, Ruby, Haskell, C/C++,   .Net, PHP, Common Lisp, Prolog, Python…

- All standards: RDF, OWL, SPARQL…

```python
import SemanticMediaWiki

ow = SemanticMediaWiki.SMW(
"http://semanticweb.org/wiki/Special:ExportRDF/",
"http://ontoworld.org/id/")

country = ow.load("Angola")
print country
print country.located_in

bordered = country.borders

print len(bordered)
for b in bordered: print b
```

SPARQL : RDF Query Lang

```
PREFIX rdfs:
  <http://www.w3.org/2000/01/rdf-schema#>
PREFIX thing:
  <http://semanticweb.org/id/>
PREFIX relation:
  <http://semanticweb.org/id/Relation-3A>


SELECT ?label
WHERE {
  thing:Angola relation:Located_in ?c.
  ?c rdfs:label ?label
}
```

Semantic MediaWiki Installationen

- WikiMaas
- Sydney Directory
- LIOWiki – Internal KM
- Wikicompany
- VaniSource
- SpieleWiki – German, on games
- ArchiPlanet
- Bionik-Wiki
- Bible Wiki
- BO Wiki (Medizin)
- CASE Wiki
- Centiare
- Chemistry SW
- Chickipedia
- Creative Commons
- Discourse DB

- Eureka Science Journal Watch
- Gothic Almanach
- Human Cell
- iNature
- JurisPedia
- MathWeb
- Yugioh@Wikia
- Northern Ireland Gov't Wiki
- PhiloWiki
- Placeography
- Reformed Word
- ScubaWiki
- OneWorldWiki
- MIT Simile
- TechPresentations
- See more complete list

Wikia bietet es als Option an

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Universität Karlsruhe (TH)
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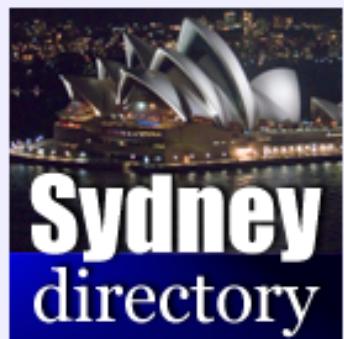
Main Page

Location search

Location

Category   Education

Maximum distance   1 km

Search

Entertainment   [edit]

- Cinemas
- Theaters

Restaurants

- German
- French
- Italian
- Korean
- Japanese
- Seafood
- Thai

Travel   [edit]

- Attractions
- Hotels

Services

- Child care
- Free WiFi Hots
- Medical

Main Page

Wikicompany is a *free*, worldwide *business directory* that *anyone can edit*.

Creating a **new company profile** is easy, fast and free.

Wikicompany v Wikipedia describes the differences between Wikipedia and Wikicompany.

Wikicompany profiles are now also part of the exciting Linking Open Data and DBPedia projects. These projects provide free, structured data sets and software tools for developing innovative Semantic Web

Featured companies

Gallery of West Indian Art for over thirty ye have tried to share our own passion for Haitia Cuban art and Jamaican art with others, and like to invite you to peruse our selection of wo Haitian artists, Cuban artists, and Jamaican artists.

The islands of Cuba, Jamaica and Haiti are amongst the most beautiful and intere the Caribbean, each one brimming with artistic talent. We hope you will enjoy yo look forward to hearing from you.

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Providing operations and maintenance service delivering capital programmes for several wate companies. Operate a gas network and provi multi-utility metering and connections.

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Explore

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Developer Portal

CC Salons

CC FAQ

Content Directories

iNature.info

טבע ונופים בישראל

שמורות טבע וגנים לאומיים

זהו שער המידע על שמורות טבע, גנים לאומיים ואתרים לאומיים בישראל, וכן קישורים לאתרים דומים בעולם.

מטרת האתר היא להיות מאגר מידע בסיסי על כל שמורות הטבע, הגנים הלאומיים והאתרים הלאומיים בישראל.

דפים חדשים נוספים למערכת באופן שוטף, לפרטים ראו "חדש באתר". יש לציין שהנתונים המוצגים חלקיים. ייתכן שנוספו הצעות חדשות או שהצעות קיימות בוטלו.

אם ידוע לכם על אתר ספציפי שחסר או שבוטל, או לחילופין על מידע נוסף לגבי אתר ספציפי/טעות במידע לגבי אתר קיים, אשמח לקבל עדכון.

המידע באתר מעודכן לפברואר 2007, וחלק לא מבוטל מהאתרים אינם מתוארים בספרים שיצאו בעבר בנושא שמורות טבע בישראל.

רוב השמורות והגנים מסומנים במפות סימון שבילים מעודכנות, אך חלק מהאתרים עדיין אינם מסומנים במפות אלו.

באתר הישן טרם השדרוג היו למעלה מ- 300 דפי מידע על שמורות טבע, גנים לאומיים ואתרים לאומיים.

עקב גודלו של מאגר המידע, הוא יועלה בשלבים.

קישורים

מהם שמורות טבע, גנים לאומיים ואתרים לאומיים?

תהליך הכרזת שמורות טבע וגנים לאומיים

הצעות ישנות לשמורות וגנים שהוסרו מסדר היום

שמורות ופארקים במזרח התיכון

שמורות ופארקים ברחבי העולם

רשימת שמורות הטבע והגנים הלאומיים באתר

שטח ⋈	כניסה ⋈	אזור ⋈	⋈
3	ללא תשלום	הנגב המערבי	אתר לאומי בית הביטחון בצאלים
3.2	ללא תשלום	גוש דן	אתר לאומי בית הראשונים ביהוד
0.198	ללא תשלום	הכרמל	אתר לאומי בריכת בנימין
1.05	ללא תשלום	השרון הצפוני	אתר לאומי מגדל המים בנווה חיים
0.8	ללא תשלום	צפון השפלה	אתר לאומי פינת הגרעינים פאלד

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Post-invasion Iraq

For more information, see the Wikipedia article "Post-invasion Iraq, 2003–2006 ⧉"

This is a topic, with start date May 1, 2003 and end date unknown.

Its theme(s) are Middle East, War.

Positions are shown reverse-chronologically, by their earliest opinion item.

Summary of positions for this topic

- Iraqi government should crack down on Shiite militias (8 items)
- Iraq Study Group's recommendations should be followed (48 items)
- Iraqis should vote on troop pullout (2 items)
- United States should change its approach (7 items)
- United States should fight more ruthlessly (15 items)
- United States should negotiate with Syria (22 items)
- United States should increase troop levels (84 items)
- United States should negotiate with Iran (38 items)
- Coalition troops should pull out (190 items)
- Iraq should be split up (30 items)

Full listing

Click on position names to view quotes from each listed item.

Iraqi government should crack down on Shiite militias

For

Don't prejudge the surge by Jack Kelly (*Pittsburgh Post-Gazette*, 2007-01-28) (view ⧉)

A Plausible Plan B by Charles Krauthammer (*The Washington Post*, 2007-01-19) (view ⧉)

The Leadership Gap by The Times editorial board (*The Times*, 2007-01-18) (view ⧉)

Bush's Last Stand: Is president's new Iraq strategy too little, too late? by The Dallas Morning News editorial board (*The Dallas Morn* (view ⧉)

Pressure Iraqis by Orlando Sentinel editorial board (*Orlando Sentinel*, 2007-01-11) (view ⧉)

Squeezing Baghdad by Chicago Tribune editorial board (*Chicago Tribune*, 2007-01-11) (view ⧉)

Against

Of Course the Iranians Are Adding Fuel to the Shiite Militias by Trey Ellis (*The Huffington Post*, 2007-02-11) (view ⧉)

There is no military solution for Iraq, only a political one by Jonathan Steele (*The Guardian*, 2007-01-12) (view ⧉)

DISCOURSE DB

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DISCOURSE

DB

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commentary

special page

Add item

To add an item to the site:

- Fill out the fields in the form below. The fields in the "Opinion" section are optional.
- Hit "Preview".
- This will take you to the main "preview" page, which shows you how the item will appear on the site. Make sure that it looks alright; you can change any of the fields on that page, by editing the template that appears below the preview.
- When you want to save the item, scroll down to the bottom of that screen and hit "Save page".

Title: [   ]

Author: [   ]

Source: [   ]

Date: [May   ▼] [   ] [2007]

URL: [   ]

Quote (quotation marks will be automatically appended):

[   ]

Opinion 1 (this is an optional field):

Topic: [I]

Iranian nuclear crisis

Positio   Illegal immigration to the United States

⊙ For   Israel-Palestine

Opinion 2 (this is an optional field):

Topic: [   ]

Position: [   ]

⊙ For   ○ Against   ○ Mixed

- N-ary relations
  - "Ronald Reagan was US president from 1980 to 1988"

- Concepts
  - Think saved queries
  - Think Concept Description in Description Logics
  - ISWC-Paper = Papers accepted by a conference in the ISWC series

NLP and Semantic Wikipedia

- Suggestion / learning of relationships
  - Based on patterns
  - Statistical
  - Background knowledge
- Active learning / Semi-automatic
- Good playground for evaluations

Welcome!

This is the SMW Research Wiki. It is actually a copy of the English Wikipedia[1] on which we are doing experiments with Semantic MediaWiki. Our researc
adding semantics to wikis. This will allow people to make better use of the wiki's context through sharing, searching and automatically processing wiki content
maintaining the ease of use of wikis (learn more).

The initial experiments are over. But you can still play around with the system.. We set up this wiki to learn semantics automatically (learn more). Tha
wiki textual content and finds out important facts to store them in a semantically valuable manner. Now, it wouldn't be a wiki if the users didn't have all the pow
content. Yet, we want adding semantic information to be quick and easy. So, we make the system **ask you a couple of questions on the bottom of each**
Please answer them, and see what happens: As you answer the question, the result will be stored as a semantic annotation in article and pops up in the page
At the same time, your answer is fed back into the learning system and helps improving its future output.

If you like, take your time and answer a bunch of these questions. You can check the facts using the links provided or any other source. If you feel like answe
questions at a time, check out this page.

Many thanks,

Markus Krötzsch

Sebastian Blohm

Please help improve SMW Research Wiki

Was John Ponsonby born in the year 1713?

○ yes ○ no ○ don't know

Question asked by: Pronto | Comments?

Was John Cairncross born in the year 1913?

○ yes ○ no ○ don't know

Question asked by: Pronto | Comments?

Was John Ewasew born in the year 1922?

○ yes ○ no ○ don't know

Question asked by: Pronto | Comments?

Is Renault 6 a product or brand of Renault?

○ yes ○ no ○ don't know

Question asked by: Pronto | Comments?

Is Steven Curtis Chapman an album or song interpreted, written or covered by Real Life Conversations?

○ yes ○ no ○ don't know

Question asked by: Pronto | Comments?

Submit

Semantic MediaWiki

- Very flexible system for creating data

- "Soft" introduction

  - People often scared about Semantic Web

  - You can still use it as a standard wiki

  - Immediate benefit

- "The simplest database that could work"

- Data is there – play with it!

Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft

Universität Karlsruhe (TH)
Forschungsuniversität · gegründet 1825

Ausblick

- Nächsten Mittwoch: Semantic Web 2.0 im Allgemeinem

- Prüfungen: Mündlich, Anmeldung jetzt (bis 13.7.)

  https://team.uni-karlsruhe.de/institute/aifb/pvw/pages/Pr%C3%BCfung.aspx

- Lehrevaluationsbögen

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