

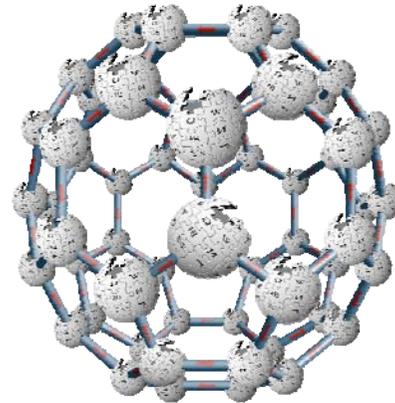


Max Völkel, Markus Krötzsch, Denny Vrandečić,  
Heiko Haller, Rudi Studer  
AIFB and FZI Karlsruhe, Germany

@WWW2006, 26.05.2006



AIFB



# Semantic Wikipedia

[ [enhances : : [Wikipedia](#) ] ]

## Wikipedia today

- A free online encyclopædia
- 16th most accessed web site on earth
  - According to Alexa.com
- > 4 mio articles
- over 30.000 active contributors
  - contributed 5 times or more per month in Nov 2005

# Wikipedia today



The image shows a screenshot of the Wikipedia website for the article "Coffee". The browser address bar shows "http://en.wikipedia.org/wiki/Coffee". The page features the Wikipedia logo, navigation links, a search box, and the main article text. The article text describes coffee as a beverage, its production, and its status as a commodity. An image of a cup of coffee is included, with a caption "Coffee in beverage form". Below the image is an edit link and a section header "Etymology and history".

Wikipedia  
The Free Encyclopedia

navigation

- Main Page
- Community Portal
- Featured articles
- Current events
- Recent changes
- Random article
- Help
- Contact Wikipedia
- Donations

search

Go Search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

article discussion edit this page history

Sign in / create account

Your continued donations keep Wikipedia running!

## Coffee

From Wikipedia, the free encyclopedia

**Coffee** is a [beverage](#), served hot or with [ice](#), prepared from the roasted [seeds](#) of the [coffee plant](#). These seeds are almost always called **coffee beans**. Coffee is the second most commonly traded [commodity](#) in the world, trailing only [petroleum](#). A total of 6.7 million tonnes of coffee were produced annually in 1998-2000, forecast to rise to 7 million tonnes annually by 2010.<sup>[1]</sup> ☞ Coffee is one of humanity's chief sources of [caffeine](#), a [stimulant](#). Its potential benefits and hazards have been, and continue to be, widely studied and discussed.



Coffee in beverage form

[edit]

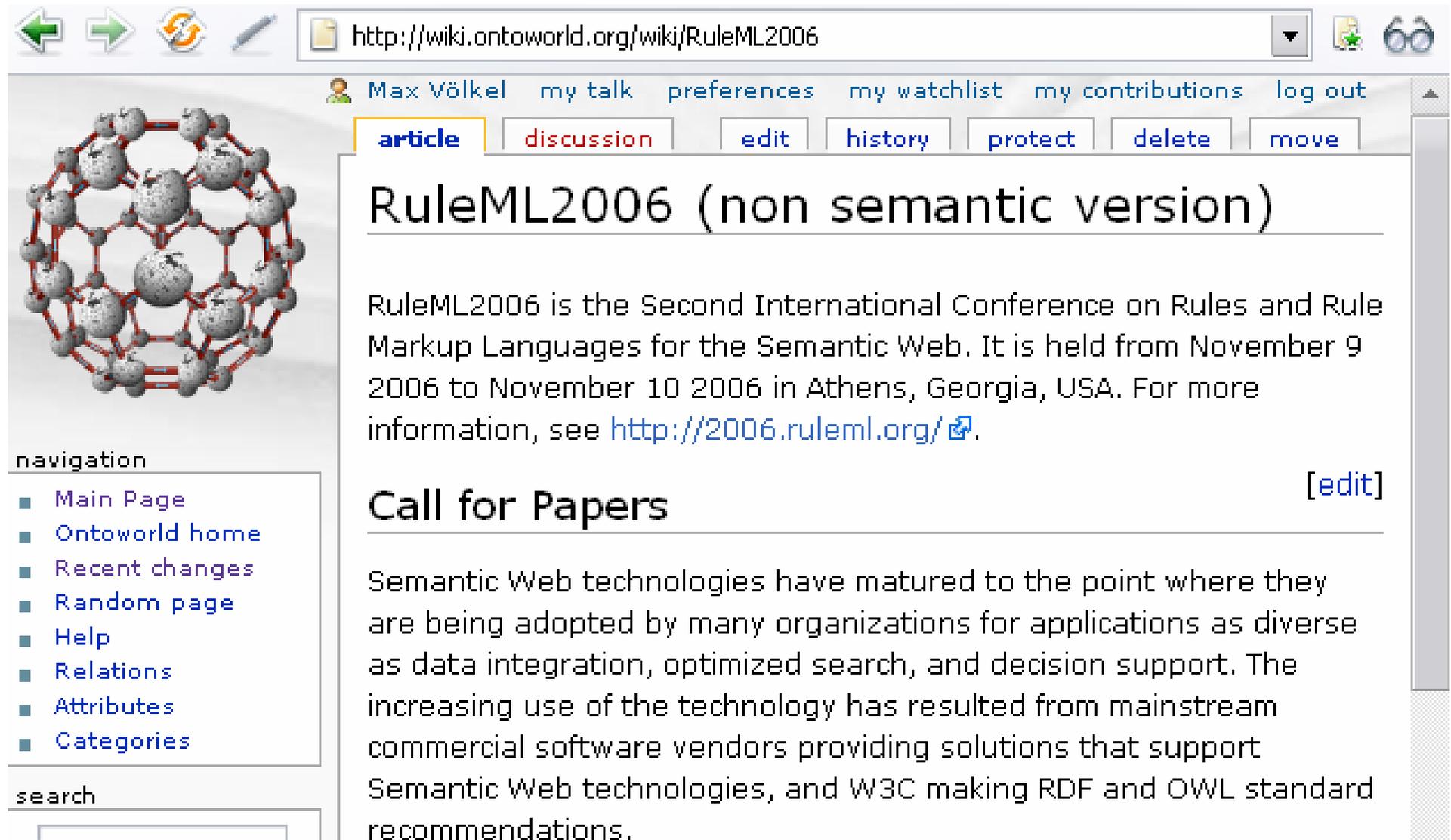
### Etymology and history

The word entered English in 1598 via Italian *caffè*, via Turkish *kahve*, from Arabic *qahwa*, meaning "to have no appetite," as in to have no appetite for sleep. Its ultimate

**Contents** [hide]

- 1 Etymology and history
- 2 Coffee bean types
- 3 Economics of coffee
- 4 Health and pharmacology of

# Wikipedia soon: An article about the RuleML conference in 2006



http://wiki.ontoworld.org/wiki/RuleML2006

Max Völkel my talk preferences my watchlist my contributions log out

article discussion edit history protect delete move

## RuleML2006 (non semantic version)

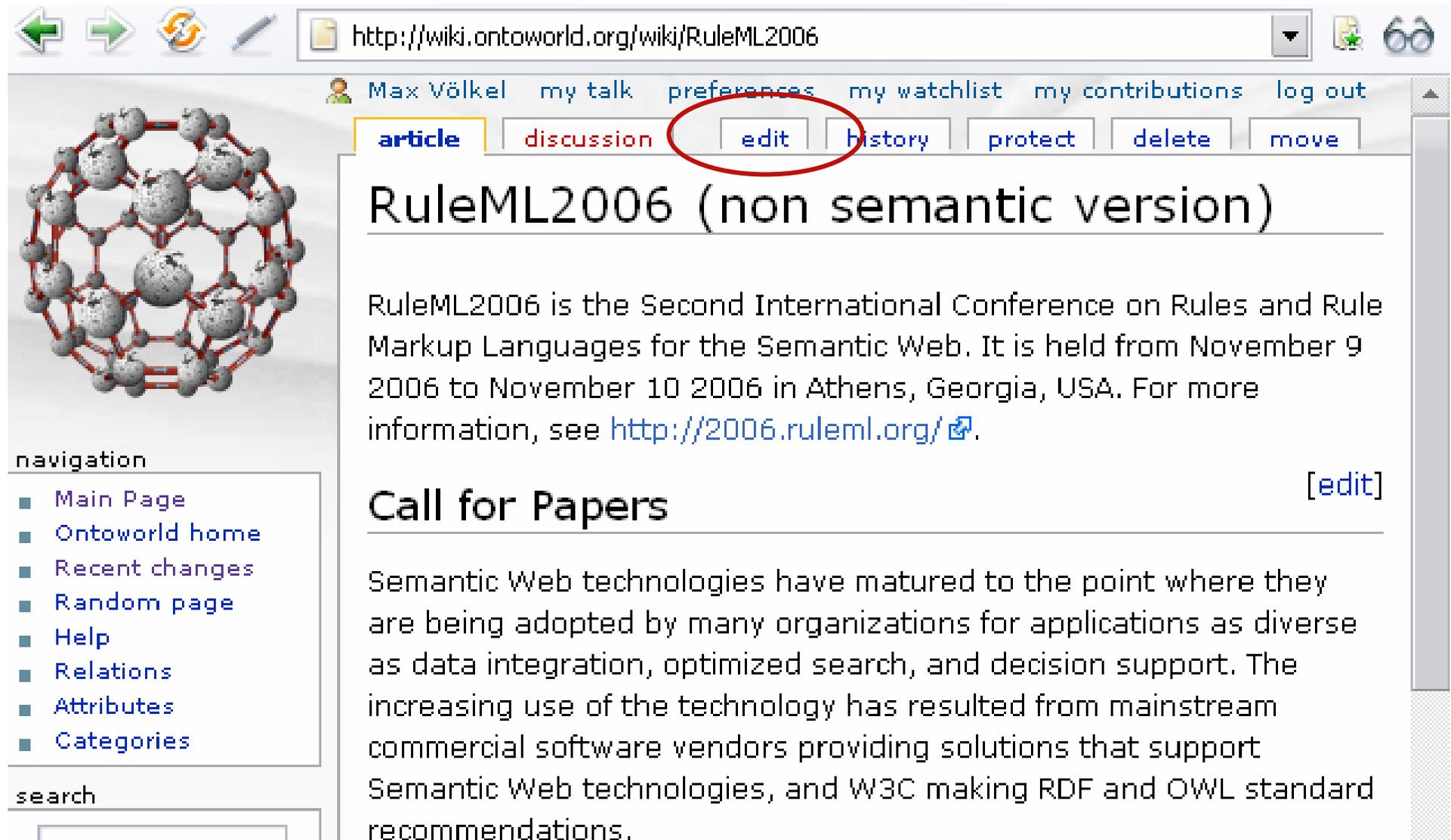
RuleML2006 is the Second International Conference on Rules and Rule Markup Languages for the Semantic Web. It is held from November 9 2006 to November 10 2006 in Athens, Georgia, USA. For more information, see <http://2006.ruleml.org/>.

[edit]

### Call for Papers

Semantic Web technologies have matured to the point where they are being adopted by many organizations for applications as diverse as data integration, optimized search, and decision support. The increasing use of the technology has resulted from mainstream commercial software vendors providing solutions that support Semantic Web technologies, and W3C making RDF and OWL standard recommendations.

# Wikipedia today: Consume



http://wiki.ontoworld.org/wiki/RuleML2006

Max Völkel my talk preferences my watchlist my contributions log out

article discussion **edit** history protect delete move

## RuleML2006 (non semantic version)

RuleML2006 is the Second International Conference on Rules and Rule Markup Languages for the Semantic Web. It is held from November 9 2006 to November 10 2006 in Athens, Georgia, USA. For more information, see <http://2006.ruleml.org/>.

[edit]

### Call for Papers

Semantic Web technologies have matured to the point where they are being adopted by many organizations for applications as diverse as data integration, optimized search, and decision support. The increasing use of the technology has resulted from mainstream commercial software vendors providing solutions that support Semantic Web technologies, and W3C making RDF and OWL standard recommendations.

# Wikipedia today: Consume and Contribute

Everybody can edit (almost) every page

http://wiki.ontoworld.org/wiki/RuleML2006

Max Völkel my talk preferences my watchlist my contributions log out

article discussion **edit** history protect delete move

## Editing RuleML2006 (non semantic version)

**B** / Ab **A**

RuleML2006 is the Second International Conference on Rules and Rule Markup Languages for the Semantic Web. It is held from November 9 2006 to November 10 2006 in [[Athens, Georgia]], [[USA]]. For more information, see <http://2006.ruleml.org/>.

== Call for Papers ==

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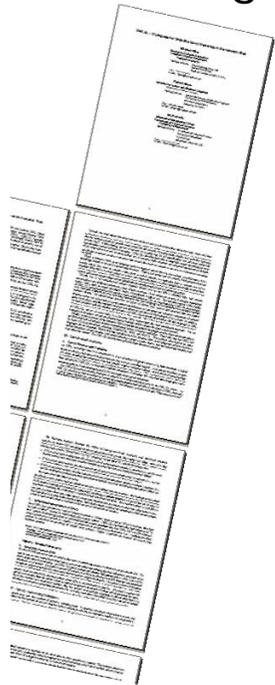
navigation

- [Main Page](#)
- [Ontoworld home](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)
- [Relations](#)
- [Attributes](#)
- [Categories](#)

search

# Using Wikipedia

- Where can I publish my p on Semantic Web query languages?



## Articles in category "Conference"

There are 15 articles in this category.

### A

- [ASWC2006](#)

### C

- [CEC/EEE2006](#)

### E

- [ECAI2006](#)
- [ESWC2006](#)
- [ETRICS2006](#)

### F

- [FOIS2006](#)

### I

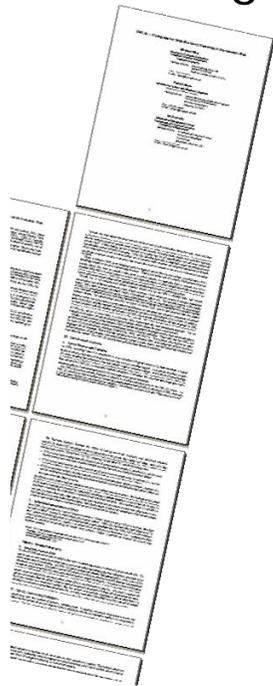
- [I-KNOW2006](#)
- [IAWTIC2006](#)
- [ICCS2006](#)
- [ICSOC2006](#)

### K

- [KR2006](#)

# Using Wikipedia

- Where can we find information on Semantic Web languages?



## Articles in category "Conference"

There are 15 articles in this category.

[article](#) [discussion](#) [edit](#) [history](#) [protect](#) [delete](#) [move](#) [watch](#) [refresh](#)

### ASWC2006

ASWC2006 is the 1st Asian Semantic Web Conference. It is held from September 3 2006 to September 7 2006 in [aswc2006.org](http://www.aswc2006.org).

### Topics

Semantic Web applications and technologies.

*more needed*

### Workshops

The 1st Asian Semantic Web Conference will host seven workshops:

- Making the Semantic Web Services Relevant to the Industry
- Semantic e-science
- Semantic Web Education and Training
- Semantic Technologies, Educational Standards, eLearning ApplicationVocabularies, and OpenCourseWare
- Semantic Web Applications and Tools Workshop
- Web Search Technology - from Search to Semantic Search
- Service Discovery on the WWW

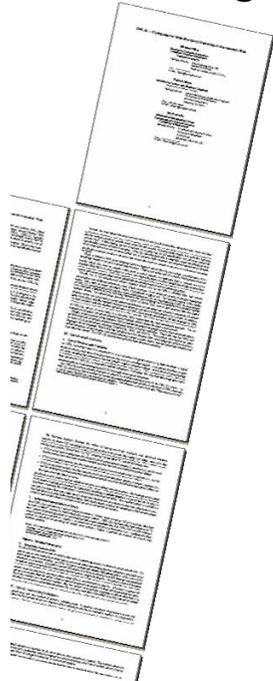
The call for papers is open. For more info see <http://www.aswc2006.org/workshops.php>

### Organisation

Marco Ronchetti - Dipartimento di Informatica e Telecomunicazioni - Universita' degli Studi di Trento

# Using Wikipedia

- Where can we find information on Semantic Web languages?



## Articles in category "Conference"

There are 15 articles in this category.

article discussion edit history protect delete move watch refresh

### ASWC2006

ASWC2006 is the 1st Annual Semantic Web Conference, which will be held on October 2-8, 2006 in Berlin, Germany. It is the first conference in the Semantic Web series.

article discussion edit history protect delete move watch refresh

### RuleML2006

RuleML2006 is the Second International Conference on Rules in Artificial Intelligence for the Semantic Web. It is held from November 9-10, 2006 in Berlin, Germany.

**Call for Papers**

Semantic Web technologies have a wide range of applications as diverse as data integration, information transformation and knowledge discovery. It is widely recognized that rules and rule-based technology has resulted from mainstream Web technologies, and W3C making the integration, transformation and knowledge discovery in a transparent manner.

The rules landscape features three aspects of rule markup; engineering, semantics and logic. Recent Rules Interchange Format (RIF) and Rule Markup Languages (RML) complement and extend ontologies as a means to specify ontologies. Rules are also used to describe events, discover patterns, and support public guidelines and policies, merge and maintain rulebases, and more.

**Call for Papers**

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Ware

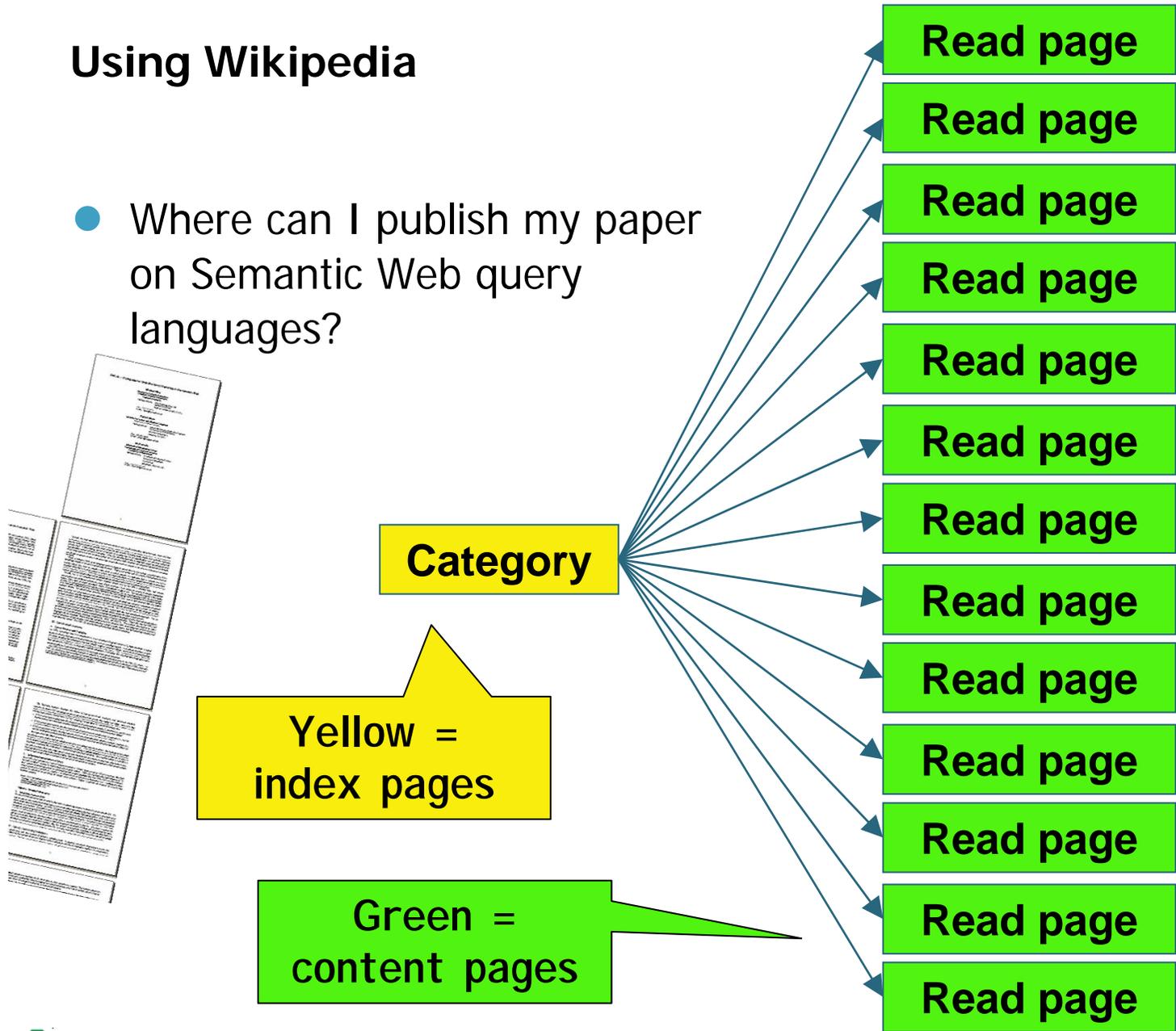
[edit]

### Meeting Format

The RuleML-2006 Conference is aimed to be the premier scientific forum for exchanging ideas on all aspects of rules for the Semantic Web. It follows on the heels of three successful workshops on the topic, in 2002, 2003, and 2004, and the first RuleML conference that took place in 2005. Like its precursors, RuleML-2006 will be held in collaboration with the International Semantic Web Conference (<http://iswc2006.semanticweb.org/>) and will be co-located with it. The RuleML-2006 Conference will consist of both an academic track and an industry track.

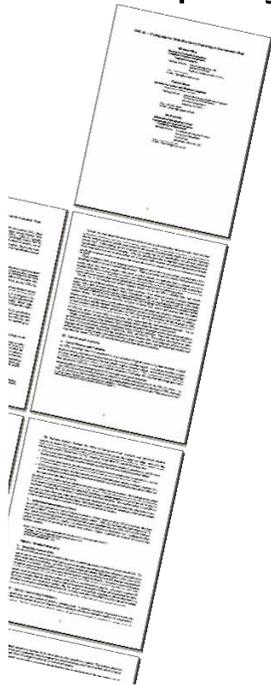
# Using Wikipedia

- Where can I publish my paper on Semantic Web query languages?



# Using Wikipedia

- Where can I publish my paper on Semantic Web query languages?



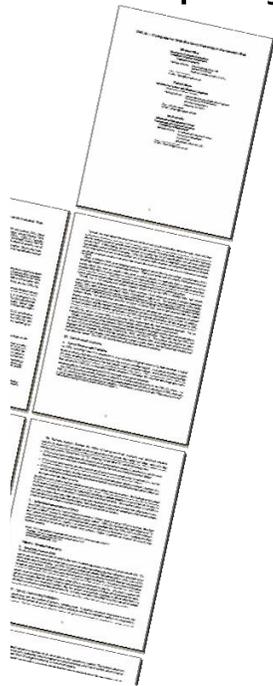
article discussion edit history

## List of events

- [AST2006](#)
- [ASWC2006](#)
- [CEC/EEE2006](#)
- [Collaborative Web Tagging 2006](#)
- [Conference](#)
- [Data Collection 2006](#)
- [Demo session](#)
- [ECAI2006](#)
- [EON2006](#)
- [ESWC2006](#)
- [ETRICS2006](#)
- [FOIS2006](#)
- [HotWeb2006](#)
- [I-KNOW2006](#)
- [IAWTIC2006](#)
- [ICCS2006](#)
- [ICSOC2006](#)
- [IEDR2006](#)
- [IIWeb2006](#)
- [IPTV2006](#)
- [IRW2006](#)
- [IWI2](#)
- [IntraWebs 2006](#)

# Using Wikipedia

- Where can I publish my paper on Semantic Web query languages?



article discussion edit history

## List of events

article discussion edit history protect delete move watch

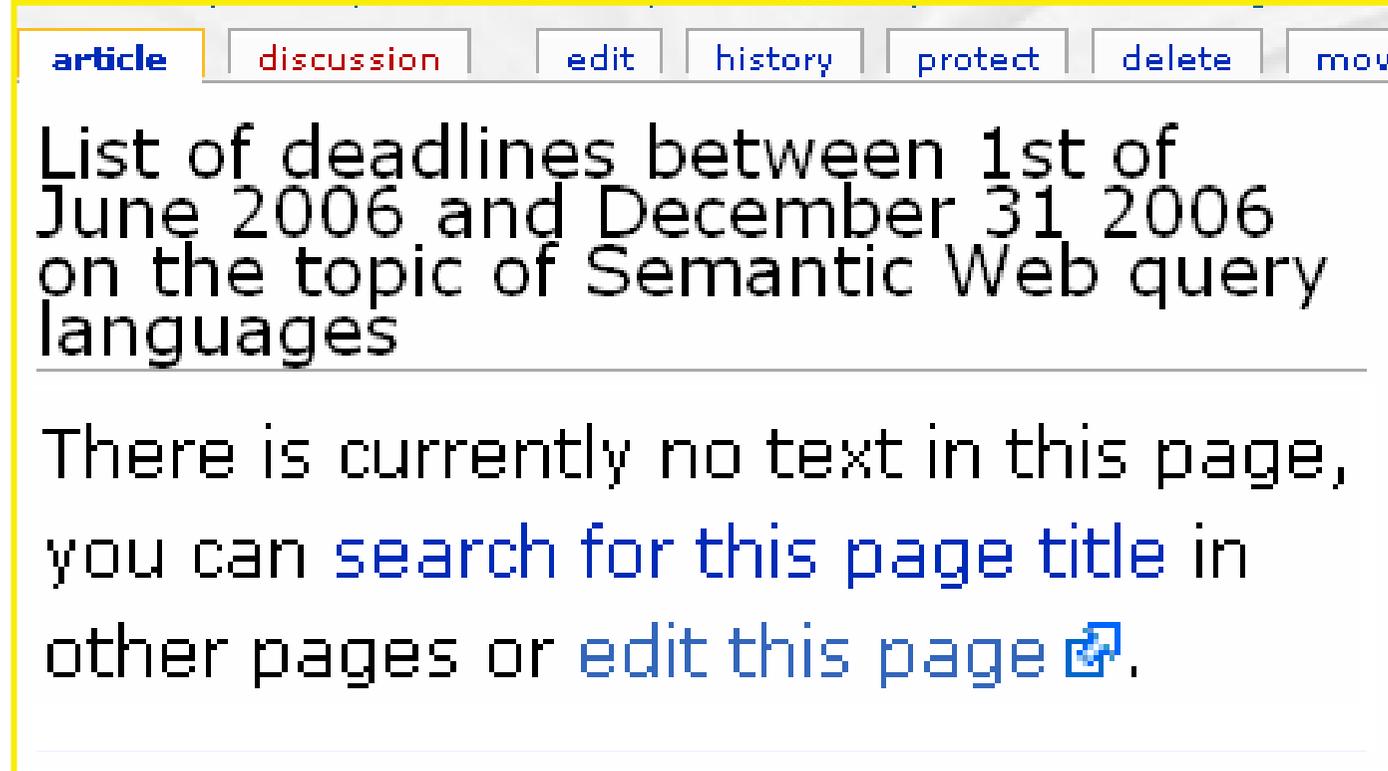
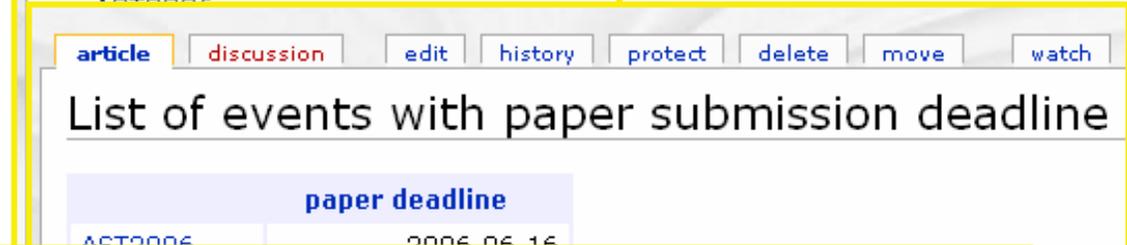
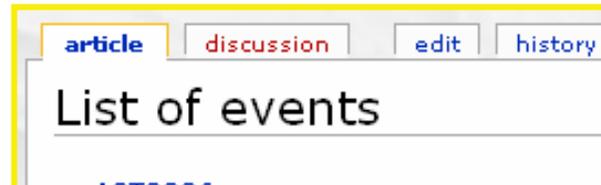
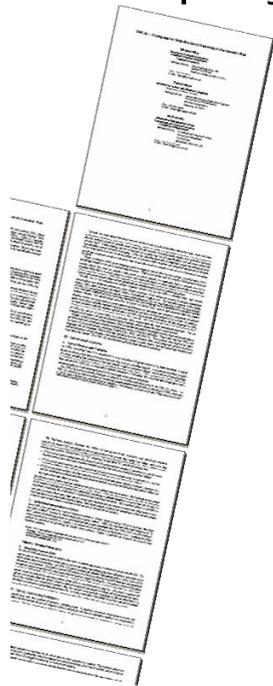
## List of events with paper submission deadline

	paper deadline
<a href="#">AST2006</a>	2006-06-16
<a href="#">ESWC2006</a>	2005-11-28
<a href="#">HotWeb2006</a>	2006-06-15
<a href="#">I-KNOW2006</a>	2006-04-17
<a href="#">IAWTIC2006</a>	2006-07-17
<a href="#">ICSOC2006</a>	2006-06-19
<a href="#">OWLED2006</a>	2006-08-01 09:59:00
<a href="#">PAKM2006</a>	2006-07-10
<a href="#">RoW2006</a>	2006-02-10
<a href="#">RuleML2006</a>	2006-06-05
<a href="#">SEBIZ2006</a>	2006-07-07
<a href="#">VORTE2006</a>	2006-06-16
<a href="#">WONTO2006</a>	2006-06-13

- [IRW2006](#)
- [IWI2](#)
- [IntraWebs 2006](#)

## Using Wikipedia

- Where can I publish my paper on Semantic Web query languages?

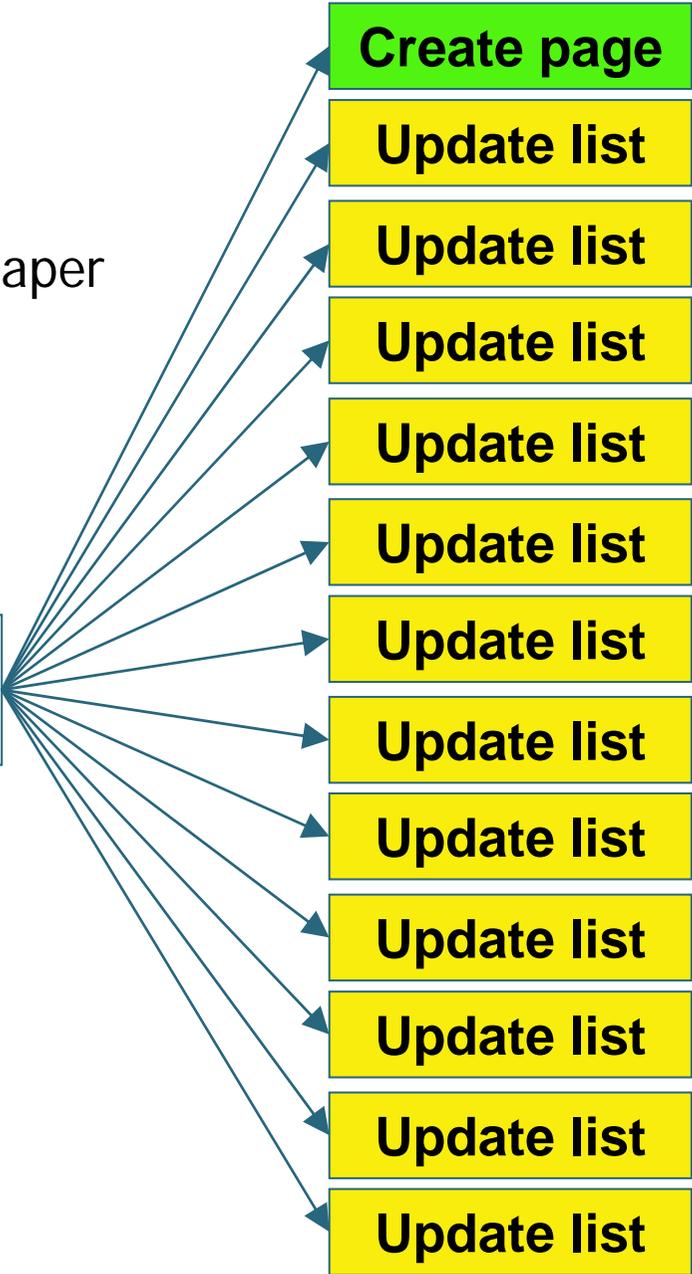


# Using Wikipedia

- Where can I publish my paper on Semantic Web query languages?



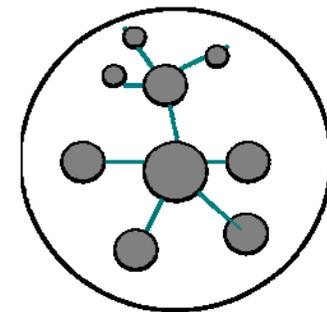
**New  
Conference**



## Wikipedia is not perfect

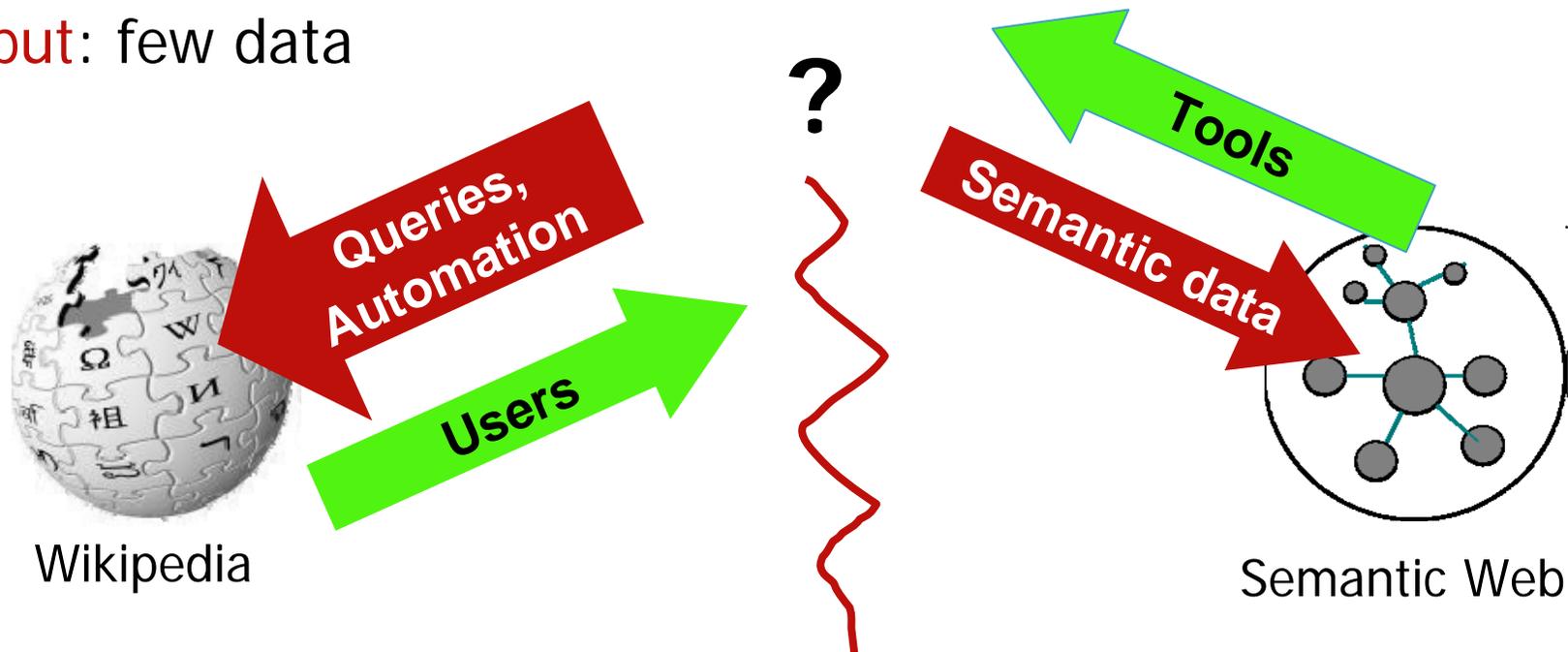
- Using Wikipedia means reading articles
  - Manual indexes are no real solution ([List of coffee companies](#), European cities, [List of asteroids named after people](#), ...)
- Inconsistencies between different language versions
  - Find inconsistencies between different language versions, e.g. Population of [Edinburgh](#) (as of 17.05.2006)
    - En: 448,624, no date
    - De: 435.790 in 2005
    - Fr: 448 624 in 2001
    - Dk: 453.670 in 2004
- Problem: No access to **data** in articles

# Can the Semantic Web help?



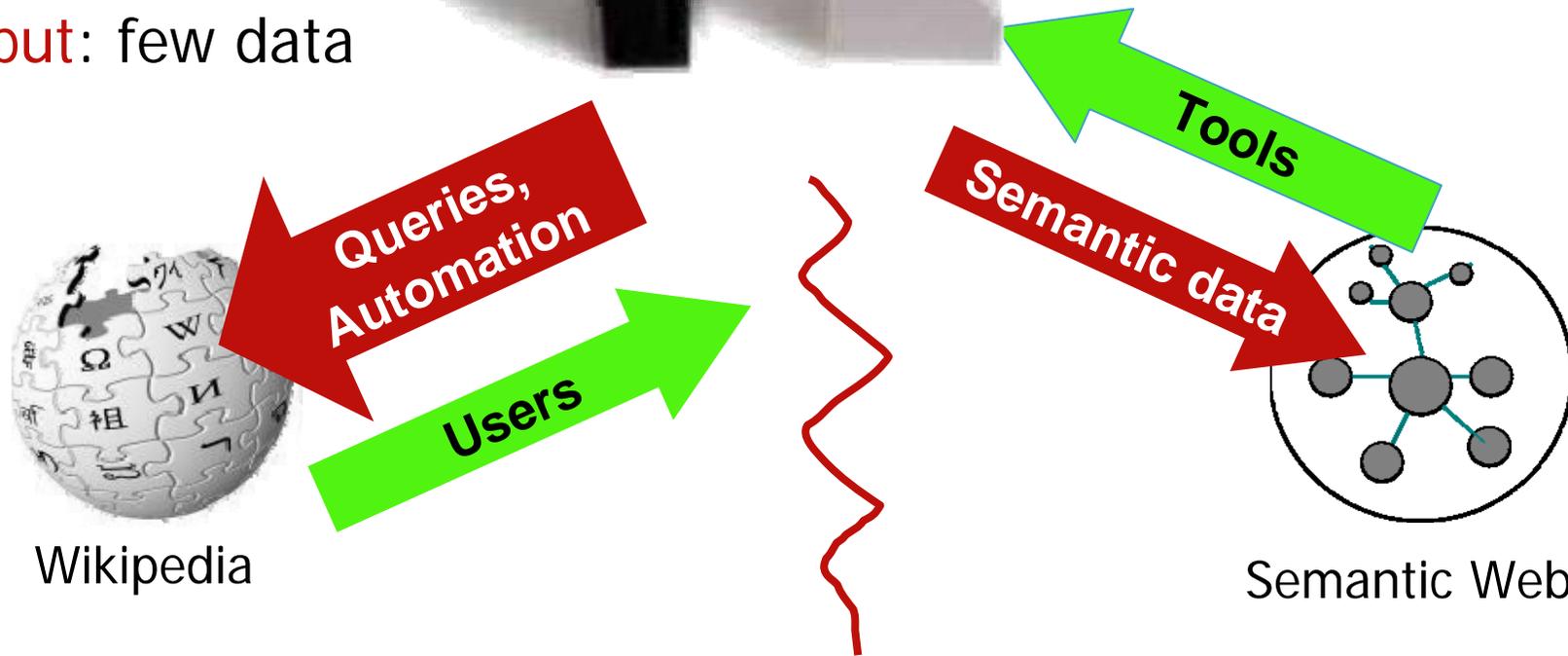
# Analysis

- Wikipedia has many users and data,  
**but**: many manual processes, only text-based search
- Semantic Web has tools for information processing,  
sophisticated queries,  
**but**: few data



# Goal: Marrying Wikipedia and the Semantic Web

- Wikipedia has many users and articles, **but**: many manual processes and text-based search
- Semantic Web has sophisticated information processing, **but**: few data



# Requirements for



- Wikipedia:

- Must be very easy to use
- Must have immediate benefit for the users
  - Lists, Inconsistencies, Better Search
- Must be efficiently implemented
  - Currently 12,000 hits/second

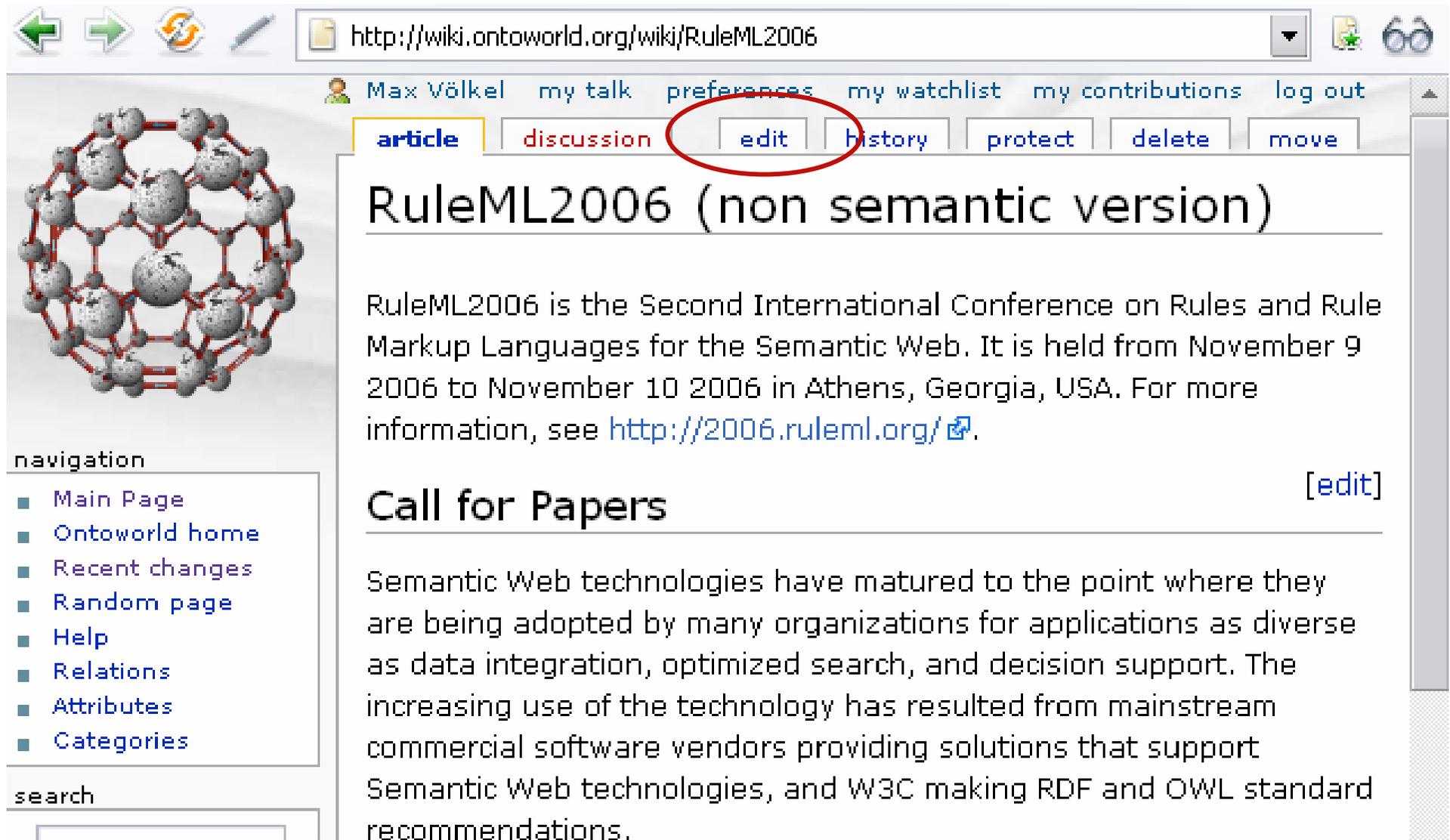


- Semantic Web:

- Must have export of semantic data
- Nice to have SPARQL access
- Must integrate with existing vocabularies



We go to the article on the RuleML2006 conference ...



http://wiki.ontoworld.org/wiki/RuleML2006

Max Völkel my talk preferences my watchlist my contributions log out

article discussion **edit** history protect delete move

## RuleML2006 (non semantic version)

RuleML2006 is the Second International Conference on Rules and Rule Markup Languages for the Semantic Web. It is held from November 9 2006 to November 10 2006 in Athens, Georgia, USA. For more information, see <http://2006.ruleml.org/>.

[edit]

### Call for Papers

Semantic Web technologies have matured to the point where they are being adopted by many organizations for applications as diverse as data integration, optimized search, and decision support. The increasing use of the technology has resulted from mainstream commercial software vendors providing solutions that support Semantic Web technologies, and W3C making RDF and OWL standard recommendations.

... and edit it

← → ↻ ✎

http://wiki.ontoworld.org/wiki/RuleML2006

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article discussion **edit** history protect delete move

## Editing RuleML2006 (non semantic version)

**B** / Ab **A**  $\sqrt{n}$

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navigation

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- [Random page](#)
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- [Categories](#)

search

## Editing RuleML2006 (non semantic version)



RuleML2006 is the Second International Rules and Rules for the Semantic Web. It is held from November 9 2006 to November 10 2006 in [[Athens, Georgia]], [[USA]].

There is already an ordinary link to the article of „Athens, Georgia“

For more information, see <http://2006.ruleml.org/>.

## Editing RuleML2006 (semantic version)



**RuleML2006 is the Second International Rules and Rules for the Semantic Web. It is held from November 9 2006 to November 10 2006 in [[located in::Athens, Georgia]], [[USA]]. For more information, see <http://2006.ruleml.org/>.**

Just say what the relation between this page (RuleML2006) and „Athens, Georgia“ is.

located in::Athens, Georgia

From links ...

```
... in [[Athens, Georgia],  
[[USA]]. ...
```

---

... to typed links

```
... in [[located in::Athens,  
Georgia]], [[USA]]. ...
```

From values ...

**... It is held from November  
9 2006 to November 10 2006  
in...**

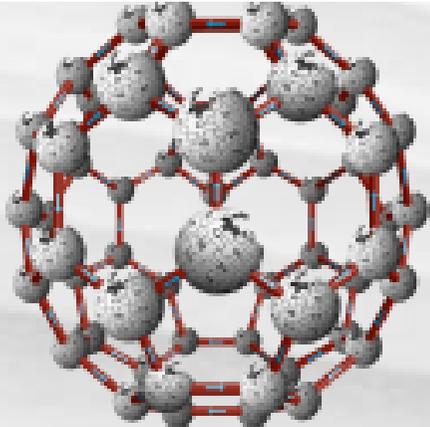
---

... to attributes

**... It is held from `[[start  
date:=November 9 2006]]` to  
`[[end date:=November 10  
2006]]` in...**

---

Save.



article discussion edit history protect delete

## Editing RuleML2006 (simple semantic version)

**B** / Ab  **A**    $\sqrt{\pi}$    

navigation

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- [Attributes](#)
- [Categories](#)

RuleML2006 is the Second International Conference on Rules and Rule Markup Languages for the Semantic Web.  
It is held from `[[start date:=November 9 2006]]` to `[[end date:=November 10 2006]]` in `[[has location::Athens, Georgia]], [[USA]]`.  
For more information, see `http://2006.ruleml.org`.

`[[Category:Conference]]`

## It looks exactly the same as before



http://wiki.ontoworld.org/index.php/RuleML2006\_(simple\_semantic\_version)

Max Völkel my talk preferences my watchlist my contributions log out

**article** discussion edit history protect delete move

### RuleML2006 (simple semantic version)

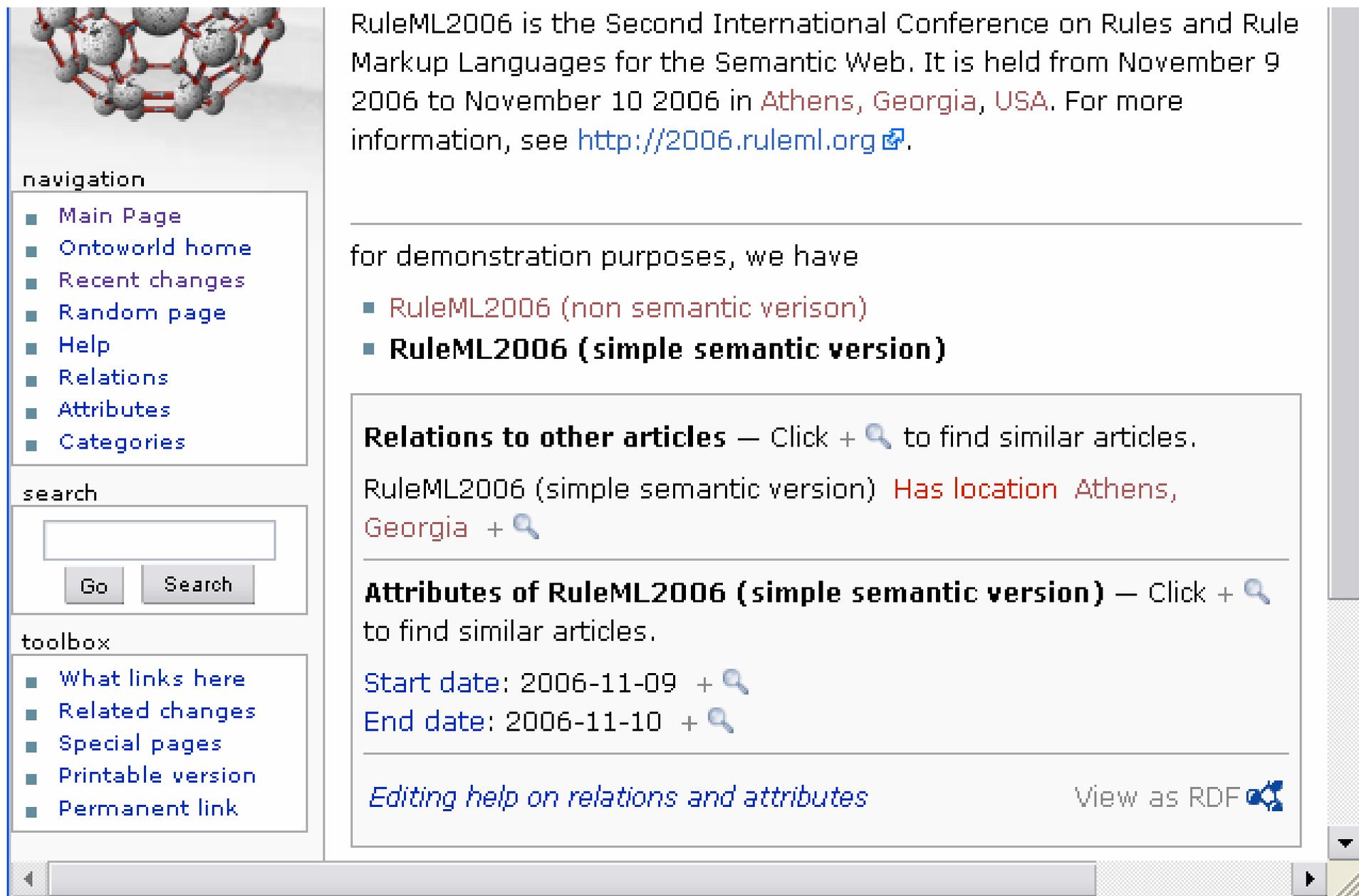
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navigation

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search

## What the humans see, when they scroll down





navigation

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- [Ontoworld home](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)
- [Relations](#)
- [Attributes](#)
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search

toolbox

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

RuleML2006 is the Second International Conference on Rules and Rule Markup Languages for the Semantic Web. It is held from November 9 2006 to November 10 2006 in [Athens, Georgia, USA](#). For more information, see <http://2006.ruleml.org> .

---

for demonstration purposes, we have

- [RuleML2006 \(non semantic version\)](#)
- **[RuleML2006 \(simple semantic version\)](#)**

**Relations to other articles** — Click +  to find similar articles.

RuleML2006 (simple semantic version) [Has location Athens, Georgia](#) + 

---

**Attributes of RuleML2006 (simple semantic version)** — Click +  to find similar articles.

[Start date: 2006-11-09](#) + 

[End date: 2006-11-10](#) + 

---

[Editing help on relations and attributes](#) [View as RDF](#) 

## What the humans see, when they scroll down

**Relations to other articles** — Click +  to find similar articles.

RuleML2006 (simple semantic version) **Has location** Athens, Georgia + 

---

**Attributes of RuleML2006 (simple semantic version)** — Click +  to find similar articles.

Start date: 2006-11-09 + 

End date: 2006-11-10 + 

---

*[Editing help on relations and attributes](#)*

[View as RDF](#) 

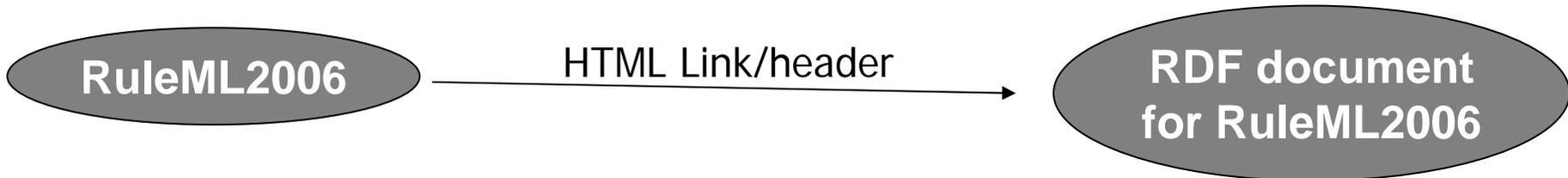
## What the machines see



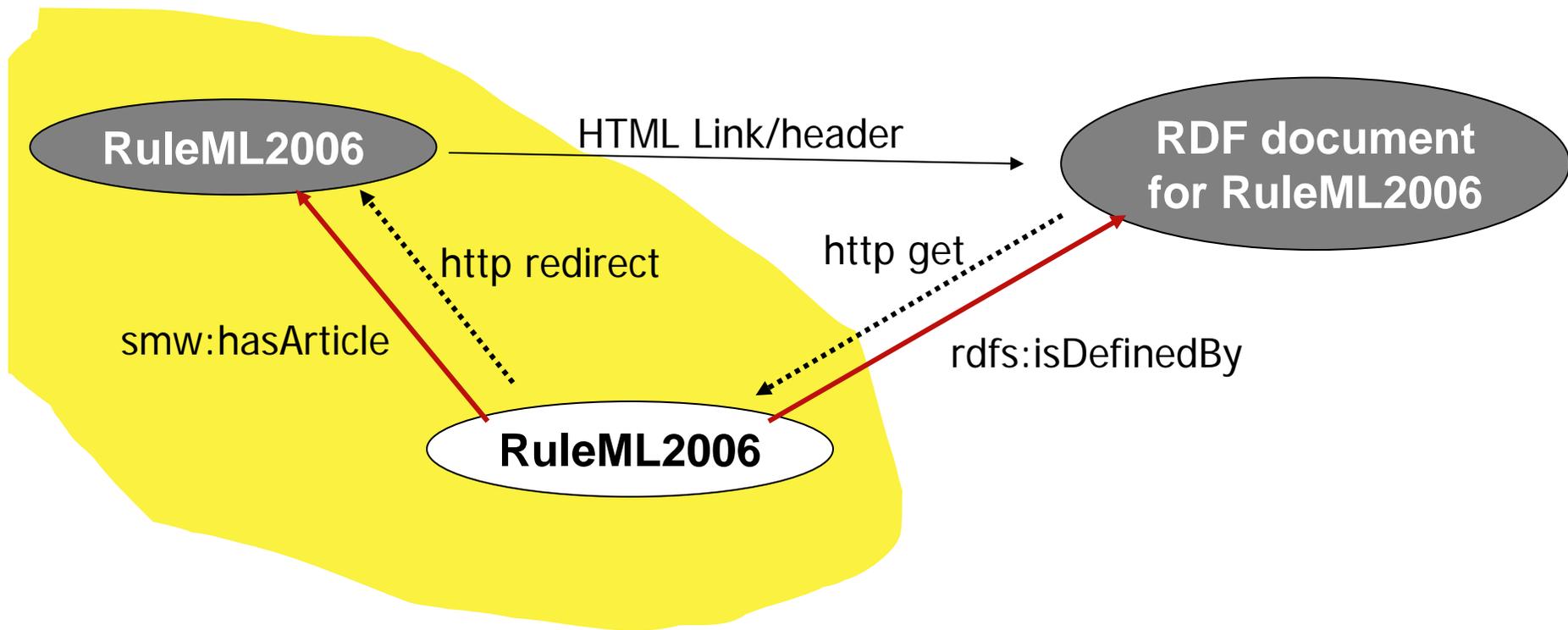
<http://wiki.ontoworld.org/index.php/Special:ExportRDF/RuleML2006>

```
- <rdf:RDF>
  <!-- reference to the Semantic MediaWiki schema -->
  - <rdf:Description rdf:about="http://smw.ontoware.org/2005/smw#hasArticle">
    <rdfs:isDefinedBy rdf:resource="http://smw.ontoware.org/2005/smw"/>
  </rdf:Description>
  - <rdf:Description rdf:about="http://smw.ontoware.org/2005/smw#Thing">
    <rdfs:isDefinedBy rdf:resource="http://smw.ontoware.org/2005/smw"/>
  </rdf:Description>
  <!-- exported page data -->
  - <smw:Thing rdf:about="http://wiki.ontoworld.org/index.php/_RuleML2006">
    <rdfs:label>RuleML2006</rdfs:label>
    <smw:hasArticle rdf:resource="http://wiki.ontoworld.org/index.php/RuleML2006"/>
    <rdfs:isDefinedBy rdf:resource="http://wiki.ontoworld.org/index.php/Special:ExportRDF/RuleML2006"/>
    <rdf:type rdf:resource="http://wiki.ontoworld.org/index.php/_Category-3AConference"/>
    <rdf:type rdf:resource="http://wiki.ontoworld.org/index.php/_Category-3ATopic_Semantic_Web_query_languages"/>
    <rdf:type rdf:resource="http://wiki.ontoworld.org/index.php/_Category-3ATopic_Semantic_Web_rule_languages"/>
    <rdf:type rdf:resource="http://wiki.ontoworld.org/index.php/_Category-3ATopic_semantic_interoperability"/>
    <rdf:type rdf:resource="http://wiki.ontoworld.org/index.php/_Category-3ATopics_missing"/>
    <relation:Has_PC_member rdf:resource="http://wiki.ontoworld.org/index.php/_Sidney_Bailin"/>
    <relation:Has_PC_member rdf:resource="http://wiki.ontoworld.org/index.php/_Ruediger_Klein"/>
    <relation:Has_PC_member rdf:resource="http://wiki.ontoworld.org/index.php/_Ralph_Traphoener"/>
```

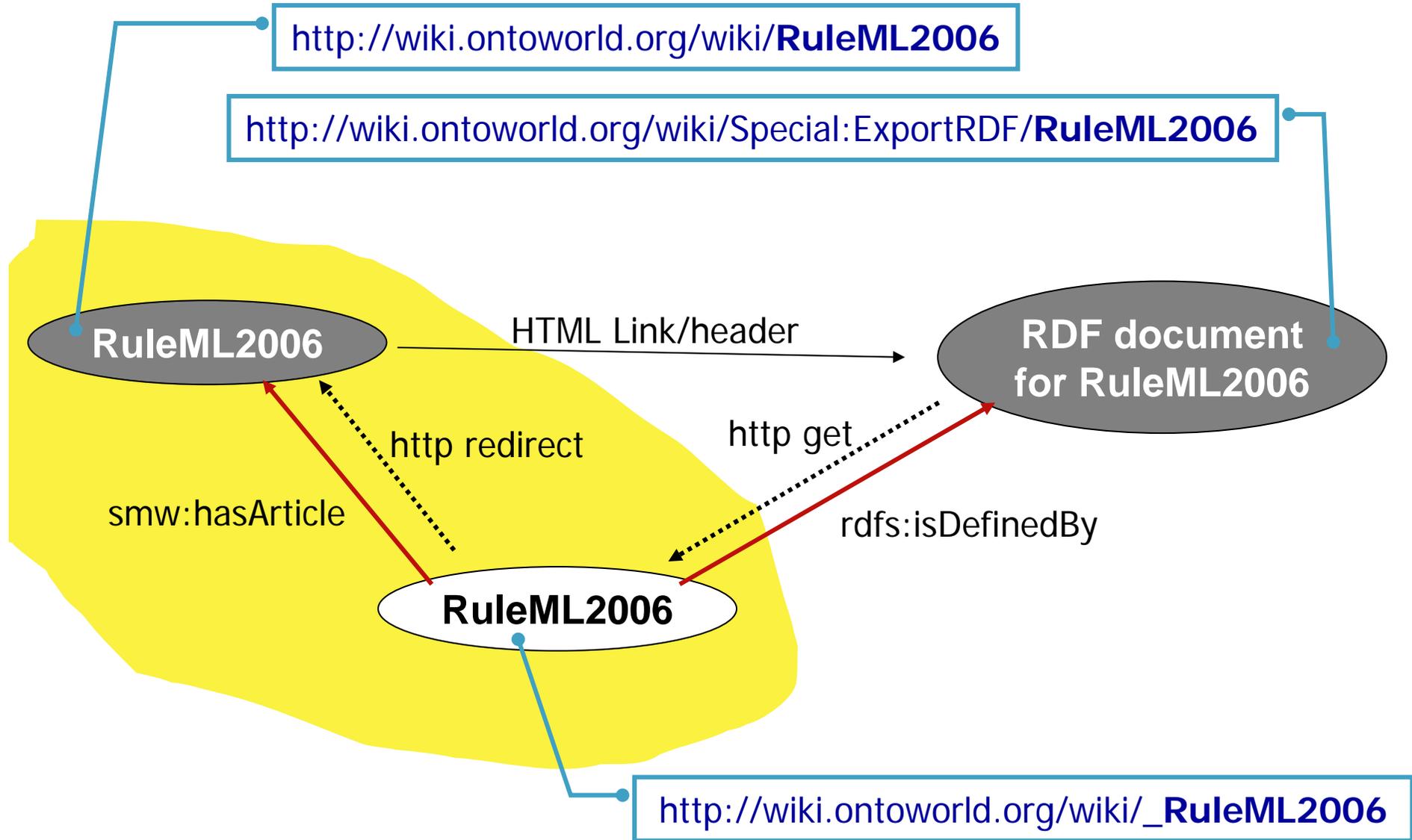
# Information resources vs. abstract concepts (http range-14)



# Information resources vs. abstract concepts (http range-14)



# Information resources vs. abstract concepts (http range-14)



## Did I get that right?

- Everybody can create any relation or attribute?
  - Yes
- Each relation and each attribute have their own wiki-article
  - Relation:located in
  - Attribute:population
- Can I have class hierachies, datatypes and all this?

## Mapping Wiki Concepts to OWL

Semantic MediaWiki	Syntax	OWL
Link	[[Scotland]]	-
Relation	[[located in::Scotland]] [[contains::Caffeine]]	owl:ObjectProperty
Attribute	[[population:=5,062,011]] [[length:=17 km]]	owl:DatatypeProperty
Category	[[Category:Monarchies]]	owl:Class

## Why typed links?

- Cheap annotations
  - Content (links, values) is already there, just mark them up
- Content and annotations are one
  - DRY – don't repeat yourself
  - Metadata doesn't get out of sync
- Defined annotation process
  - Authors are annotators
- Locality of annotation
- User interface
  - No new tool to learn
  - Total control over annotations
- Wiki-style: No structure imposed
  - All relations and attributes can be used

## Benefits for the Semantic Web

- Wikipedia as URI source (see Workshop IRW2006)
  - Simple social process: Prefix article name with an underscore
- RDF/OWL Data export
  - Header links to RDF file (PiggyBank, OINK, Tabulator)
  - Per page or bulk
  - Everything has an rdf:label
  - All properties have rdfs:isDefinedBy
  - XSD datatypes fully supported
- Semantic Web food chain
  - SPARQL endpoint
  - SPARQL tools (SNORQL)

## Benefits for Wikipedians: <ask> for your data

- Inline queries allow for questions like ...
  - ... movies from the 70s starring Sean Connery
  - ... **list of events (all conferences and workshops)**

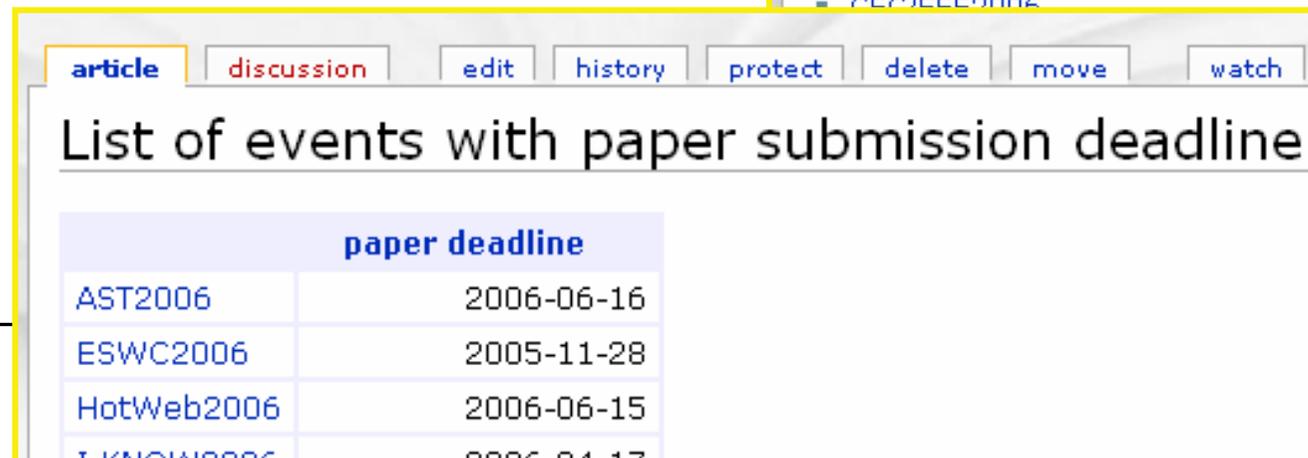
```
<ask format="ul" link="all">  
  [ [Category:Event] ]  
</ask>
```



# Benefits for Wikipedians: <ask> for your data

- Inline queries allow for questions like ...
  - ... movies from the 70s starring Sean Connery
  - ... **list of events with their deadline**

```
<ask format="ul" link="all">  
  [[Category:Event]]  
  [[paper deadline:=*]]  
</ask>
```



## Benefits for Wikipedians: <ask> for your data

```
<ask format="ul" link="all">  
  [[Category:Event]]  
  [[paper deadline:=>June 1 2006]]  
  [[paper deadline:=<December 31 2006]]  
  [[title:=*]]  
  [[paper deadline:=*]]  
  [[Category:Topic Semantic Web query  
languages]]
```

</ask>

	title	paper deadline
<a href="#">RuleML2006</a>	Second International Conference on Rules and Rule Markup Languages for the Semantic Web	2006-06-05

# Applications

- Automatic tables and lists
  - E.g. Countries sorted by area, population, alphabet, ...
- **Maintenance** with hand crafted checks
  - Does every country have one capital?
- Integration in applications
  - `latte = wikipedia.get("Latte Macchiatto");`  
`print latte["contains"]`
- Visualization and browsing
- ... And many unexpected ones

## Who is using Semantic MediaWiki?

- Our research group

- Wikicompany [🔗](#) ~ 9.000 pages, 227 user accounts
- The Bible Wiki [🔗](#) ~ 40.000 pages, 156 user accounts
- WWW2006 Social Wiki [🔗](#) ~ 40 pages, 34 user accounts
- Semantic eGovernment Community Portal [🔗](#), ~ 30 pages
- ScubaWiki [🔗](#), ~ 170 pages, 33 user accounts
- NeOn Wiki [🔗](#) ~10 pages
- this wiki = Wiki.Ontoworld.org [🔗](#) ~400 pages, 158 user accounts
- SounceryForge [🔗](#) ~1864 pages, 272 user accounts

## Features

- Linking of concepts with external URIs
    - `[[equivalent URI:= ... ]]`
    - → owl:equivalentClass, owl:equivalentProperty, owl:sameAs
  - OWL import (generates pages from ontology)
  - All relations and attributes can be documented
  - Re-use of existing Category-system
  - Annotating templates for a quick win
  - Correct RDF export
- Flexible system for collaboratively creating content with semantic annotations

## Future Work

- Performance
- Performance
- Scalability
  
- More Expressiveness
  - Transitive, symmetric, and inverse relations
- User Interface
  - Suggested relations and attributes
- Evaluation

## Conclusions

- **Annotation for the masses**
- **“Soft” introduction**
  - People are often scared about Semantic Web
  - Semantic features can be ignored
- **Content and metadata are one**
- **Linking to existing ontologies**
- ***Create the egg of the chicken-and-egg problem***

# Thank You!

