

The “Semantic Bundle”

Yaron Koren
National Library of Israel
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Semantic MediaWiki

An extension to MediaWiki that allows for storing and querying text in the wiki as data, turning the wiki into a “collaborative database”.

“Semantic Bundle”

A collection of Semantic MediaWiki-based extensions that can be downloaded together – I help to maintain it.

These also represent, in my opinion, the ideal set of extensions to be used jointly with SMW (although there are many other helpful MediaWiki extensions).

Some of the Semantic Bundle extensions

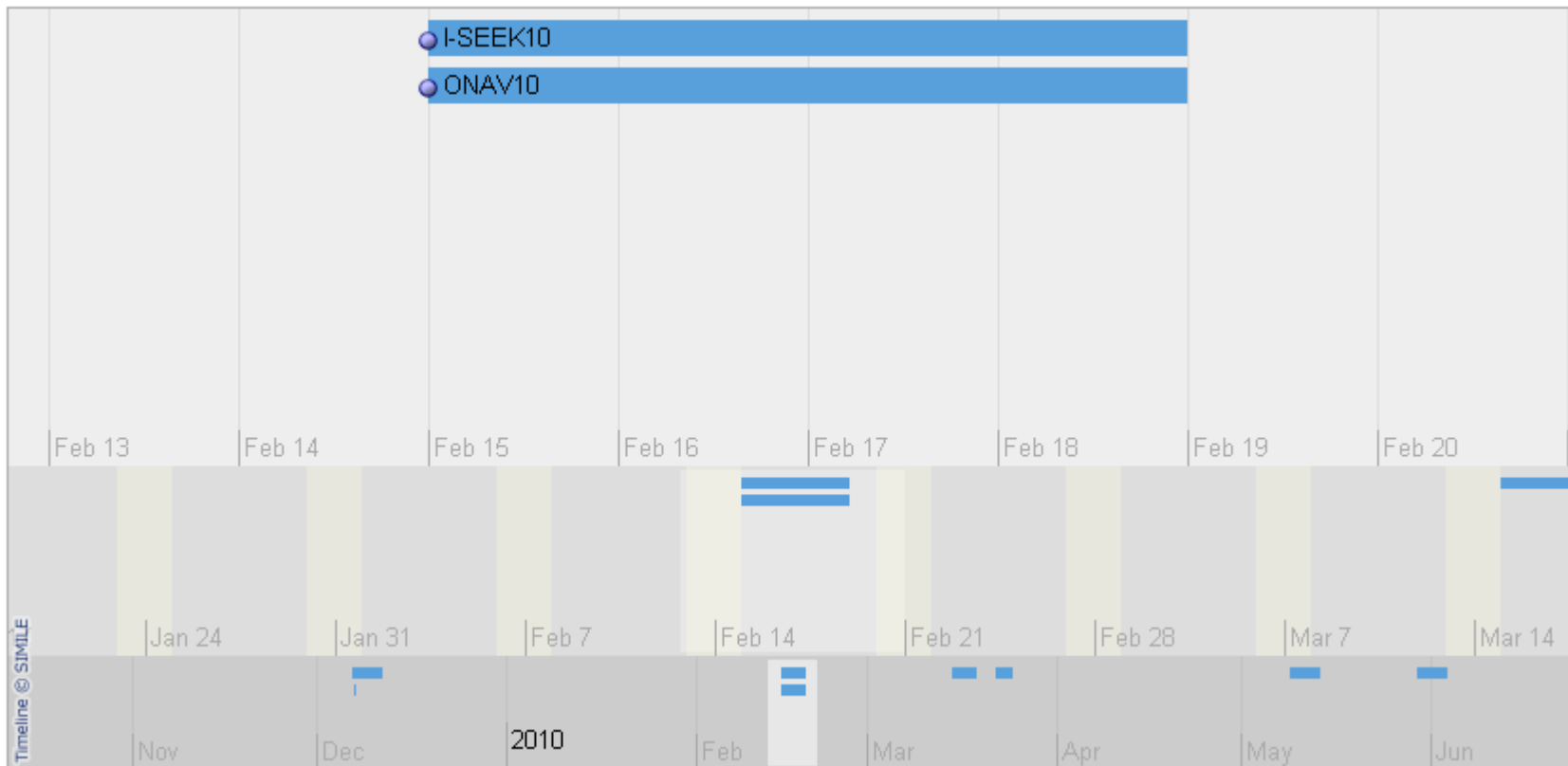
- Semantic MediaWiki
- Semantic Result Formats
- Semantic Maps
- Semantic Compound Queries
- Semantic Forms
- Semantic Drilldown
- Semantic Internal Objects
- External Data
- Data Transfer
- Approved Revs
- ParserFunctions
- Widgets
- Header Tabs
- Replace Text
- Admin Links

Semantic Result Formats

Additional display formats for Semantic
MediaWiki: calendars, graphs, etc.

Semantic Result Formats: timeline format

The following timeline shows the next 50 events with articles in this wiki.



Semantic Result Formats: calendar format

KIT
Karlsruhe Institute of Technology

Institut für Angewandte Informatik und Formale Beschreibungsverfahren (AIFB)

Suchen

Home
Lehre und Prüfung
Personen
Forschungsgruppen
Veröffentlichungen
Veranstaltungen
Projekte
Kooperationen
Stellenmarkt
Kontakt

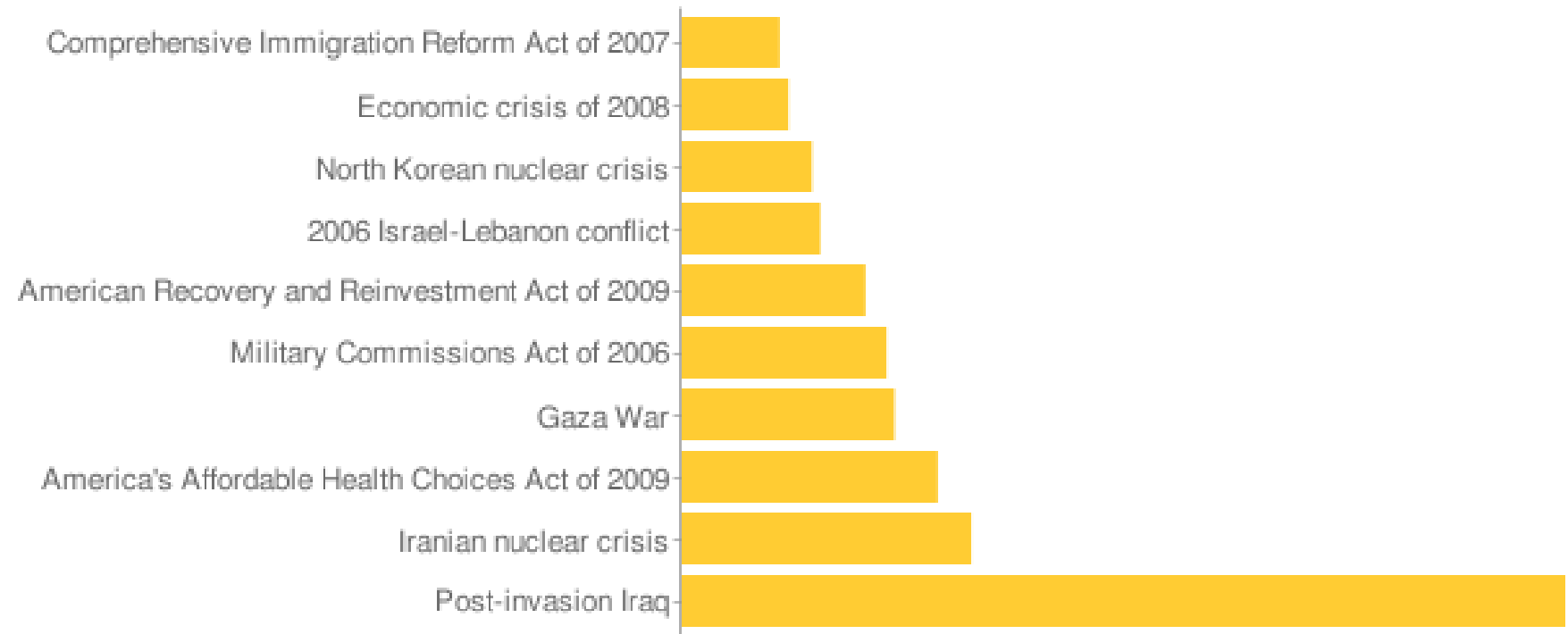
Veranstaltungen

Dezember 2009 ◀ Heute ▶ Dezember ▼ 2009 Gehe zu Monat

Sonntag	Montag	Dienstag	Mittwoch	Donnerstag	Freitag	Samstag
29	30	1	2	3	4	5
6	7	8 Organisches Service-Level- Management in Service-orientierten Architekturen (Graduiertenkolloquium)	9	10 Adaptive and Reactive Rich Internet Applications (Graduiertenkolloquium)	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26

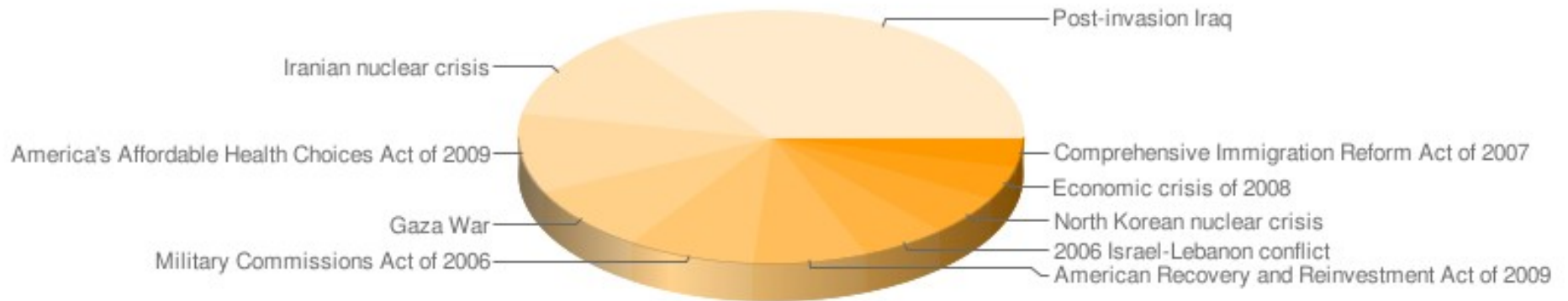
googlebar (Google bar chart) format

The 10 most popular topics:

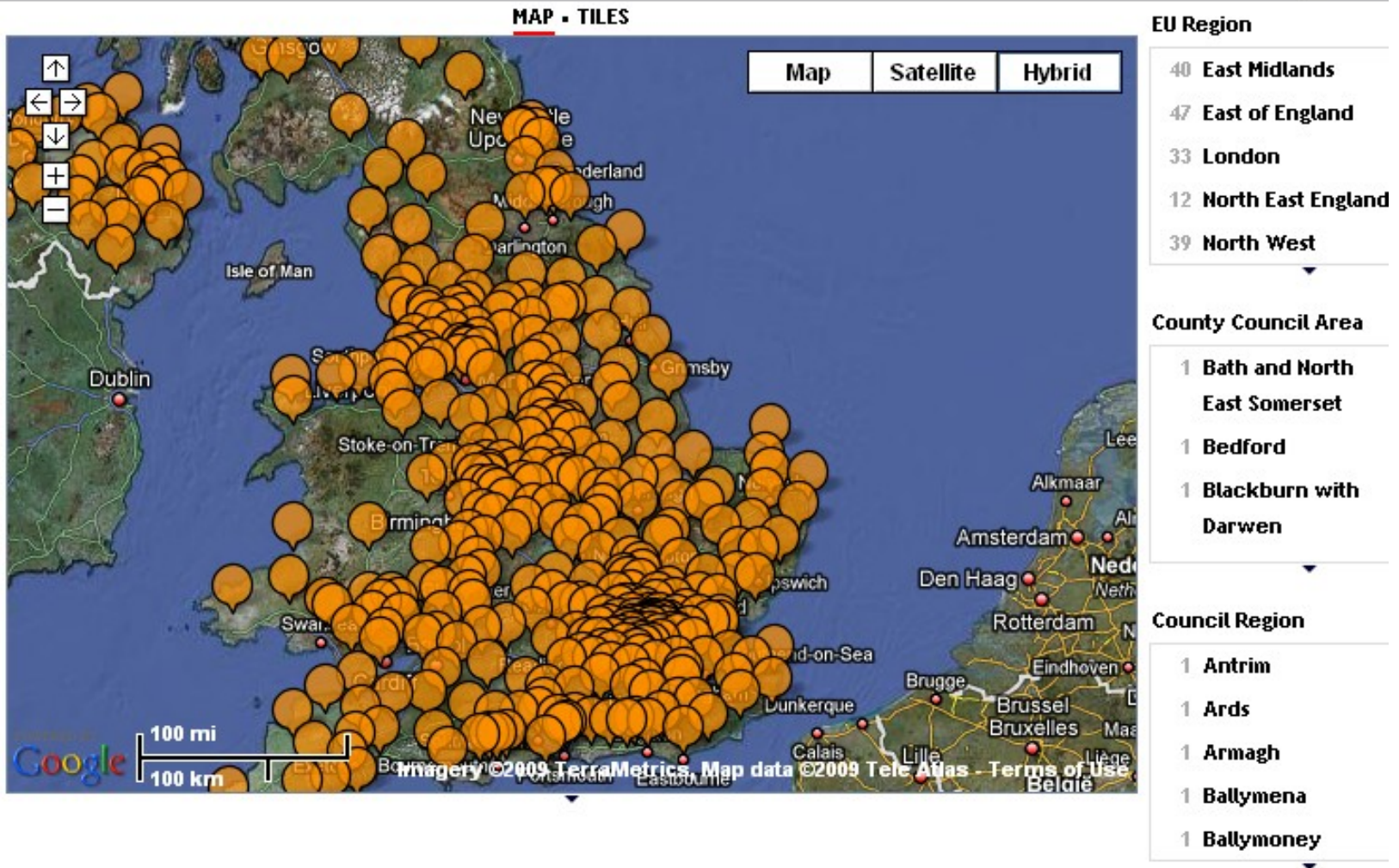


googlepie (Google pie chart) format

The 10 most popular topics:



“exhibit” format



Semantic Maps

Map-based display and input of coordinate data.

Semantic Maps: Google Maps

OpenEI | OPENENERGYINFO

Browse ▾ View ▾ Share ▾ Help ?

Page Discussion View source History

Map of Clean Energy Companies

✚ Add a new Company



The map displays a world map with red location pins indicating the presence of clean energy companies. A dense cluster of pins is located in North America, particularly in the United States. Other individual pins are scattered across Asia, Europe, Africa, and South America. The map interface includes a navigation control on the left, a style selector at the top right (Map, Satellite, Hybrid, Terrain), and a scale bar at the bottom left (5000 miles and 5000 kilometers). The text 'POWERED BY Google' is visible in the bottom left corner, and 'Terms of Use' is in the bottom right corner.

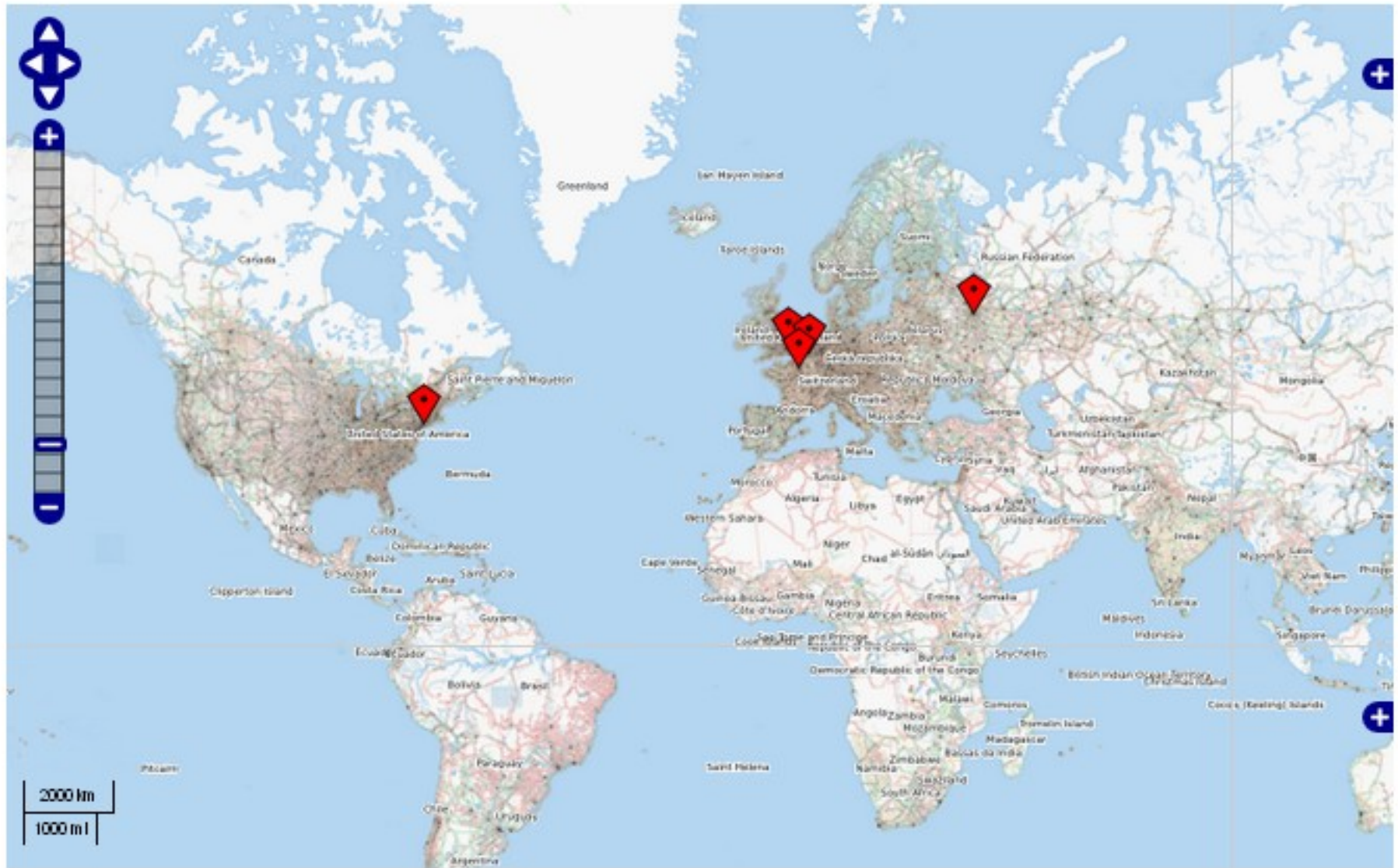
Map Satellite Hybrid Terrain

Asia Europe Africa South America Australia

Indian Ocean Pacific Ocean Atlantic Ocean Indian Ocean

POWERED BY Google 5000 mi 5000 km Terms of Use

Semantic Maps: OpenLayers



Semantic Compound Queries

Can display multiple Semantic MediaWiki queries
at the same time.

Semantic Compound Queries: map

The screenshot displays the website for the European Public Sector Award (EPSA). At the top, there are tabs for 'page' and 'discussion'. The main header features the EPSA logo and the title 'European Public Sector Award'. Below this, a paragraph describes the award as a pan-European learning platform for public administration. A navigation menu on the left includes links to the main page, overview, projects, organizations, countries, timeline, and help. A search bar and a toolbox with various utility links are also present. The central content area includes a link to the help page, information about the 2009 award, and a list of winners. A map of Europe is shown with numerous red pins indicating the locations of award winners across various countries. The map includes a legend for 'Map', 'Satellite', and 'Hybrid' views, and is powered by Google.

page discussion

European Public Sector Award

EPSA 2007 - the European Public Sector Award is the first pan-European learning platform for public administration. It allows organisations to share experiences and best practices and learn from each other. The EPSA brings together the best and most innovative performers from the European public sector. To learn more about EPSA, visit the EPSA Web site at <http://www.eps-award.eu> The projects documented here were submitted to the award 2007 and have previously been released in the [Fact Sheet Booklet](#).

Visit the [help page](#) for a guidance on how to use this site.

For information on EPSA 2009 please visit the [EPSA 2009 Web site](#).

EPSA 2007 award and diploma winners:

Map Satellite Hybrid

powered by Google

Semantic Compound Queries: calendar

October 2008

◀ Today ▶

October 2008

Go to month

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29 A Bailout Is Just a Start A Main Street Rescue Beg, Borrow, or Steal	30 Congressional Neroses	1 McCain for president: A certain leader for uncertain times A Vote Against Rashness	2	3	4
5	6 P-I endorsement: Elect Obama	7	8	9	10 Barack Obama for president	11
12 It's Obama: We need a president who will break with the past	13	14	15 McCain for President: A real leader for America	16	17 Barack Obama for President (Washington Post)	18 We recommend John McCain for president

Semantic Forms

Allows for making forms for creating and editing template-based wiki pages.

Forms can also be used to run search queries.

Semantic Forms

Features include:

- many input types (text, textarea, dropdown, radio button, checkboxes, listbox, combo box, date field)
- autocompletion (single and multiple values)
- other extensions can define additional input types (Semantic Maps defines a map-based input)
- field validation (mandatory fields, etc.)

Semantic Drilldown

Provides a drill-down interface for SMW data.

Semantic Internal Objects

Allows for saving “n-ary data”, such as a table of information, within a wiki page.

External Data

Can query the information from a web-based API, database or LDAP server, and display it (and, using SMW, store it) on a wiki page.

“External Data” on OpenCongress.org

From the Sunlight Foundation API			
Current Office: U.S. House of Representatives			
Title: Rep	First name: Nancy	Middle name:	Last name: Pelosi
Suffix:		Nickname:	
Party: D	State: CA	District: 08 District short: 8	Currently in office:
Gender: F			
Phone: 202-225-4965	Fax: 202-225-8259	Website: http://www.house.gov/pelosi/	Webform email address: http://www.house.gov/pelosi/
DC office: 235 Cannon House Office Building			
Bioguide ID: P000197	Votesmart ID: 26732	FEC ID: H8CA05035	Govtrack ID: 401000
CRP ID: N00007360	Eventful ID: P0-001-000016548-5	Old Sunlight ID:	Twitter ID: nancypelosi
OpenCongress Wiki URL: http://www.opencongress.org/wiki/Nancy_Pelosi		YouTubeID: nancypelosi	Senate class:

Data Transfer

Can import and export template-based information into and out of the wiki, via either XML or CSV.

Approved Revs

Lets administrators mark a certain revision of a page as approved; that revision (and its semantic data) are then displayed to users.

(This is a simpler alternative to the FlaggedRevs extension, used on Wikipedia.)

ParserFunctions

Helpful parser functions for logic (like “#if”),
math, and string manipulation.

Not at all semantic-related, but indispensable!

Widgets

Enables adding pre-set bits of HTML and Javascript to pages, to enable video players, audio players and many others.

Eliminates the need for many 10-line MediaWiki extensions.

Header Tabs

Allows for easily creating tabbed sections in both regular pages and forms.

Replace Text

Global text search-and-replace.

Admin Links

Provides a page of helpful links for administrators.

Admin Links

Special page

Admin links

General

[Statistics](#) · [Version](#) · [Special pages](#) · [System messages](#) · [Edit sidebar](#) · [Edit CSS file](#) · [Edit name of main page](#)
[Approved pages](#) · [Replace text](#) · [Delete batch of pages](#)

Users

[User list](#) · [Create a user](#) · [User rights management](#)

Data structure

[Categories](#) · [Templates](#) · [Properties](#) · [Unused properties](#) · [Forms](#) · [Semantic statistics](#)
[Create a class](#) · [Create a property](#) · [Create a template](#) · [Create a form](#) · [Create a category](#) · [Admin functions for Semantic
Semantic MediaWiki documentation](#)  · [Semantic Forms documentation](#) 

Data display

[Inline queries help](#)  · [Semantic Result Formats documentation](#)  · [Maps documentation](#)  · [Semantic Maps documenta](#)

Browse and search

[All pages](#) · [Search](#)
[Browse wiki](#) · [Semantic search](#) · [Search by property](#)
[Browse data](#) · [Filters](#) · [Create a filter](#) · [Semantic Drilldown documentation](#) 