

Views: desktop mobile print

STANDARDS

PARTICIPATE

MEMBERSHIP

ABOUT W3C

Q

Semantic Web

SEMANTIC WEB



Skip

On this page →

technology topics

news

upcoming events and talks

In addition to the classic "Web of documents" W3C is helping to build a technology stack to support a "Web of data," the sort of data you find in databases. The ultimate goal of the Web of data is to enable computers to do more useful work and to develop systems that can support trusted interactions over the network. The term "Semantic Web" refers to W3C's vision of the Web of linked data. Semantic Web technologies enable people to create data stores on the Web, build vocabularies, and write rules for handling data. Linked data are empowered by technologies such as RDF, SPARQL, OWL, and SKOS.

Linked Data

The Semantic Web is a
Web of data — of dates
and titles and part
numbers and chemical
properties and any other

At times it may be important or valuable to organize data. Using OWL (to build vocabularies, or "ontologies") and SKOS

Query

Query languages go hand-in-hand with databases. If the Semantic Web is viewed as a global database, data one might conceive of. RDF provides the foundation for publishing and linking your data. Various technologies allow you to embed data in documents (RDFa, GRDDL) or expose what you have in SQL databases, or make it available as RDF files.

(for designing knowledge organization systems) it is possible to enrich data with additional meaning, which allows more people (and more machines) to do more with the data.

then it is easy to
understand why one
would need a query
language for that data.
SPARQL is the query
language for the Semantic
Web.

Inference

Near the top of the Semantic Web stack one finds inference — reasoning over data through rules. W3C work on rules, primarily through RIF and OWL, is focused on translating between rule languages and exchanging rules among different systems.

Vertical Applications

W3C is working with different industries — for example in Health Care and Life Sciences, eGovernment, and Energy — to improve collaboration, research and development, and innovation adoption through Semantic Web technology. For instance,

by aiding decision-making in clinical research,
Semantic Web technologies will bridge many forms of biological and medical information across institutions.

News

For review: Time & date, Essential concepts

17 June 2016

from Internationalization Activity Blog » w3cSemanticWeb

A draft of a new article, **Time & date, Essential concepts** is out for wide review. We are looking for comments **by 22 June**.

This article introduces a number of basic concepts needed to understand other articles that deal with time zones and handling of dates and times on the Web.

Please send any comments as github issues by clicking on the link "Leave a comment" at the bottom of the article. (This will add some useful information to your comment.)

Note that some links don't work because this is in a test location. No need to report those.

 Publication of the final OntoLex specification: lexicon model for ontologies (lemon)

20 May 2016

from Internationalization Activity Blog » w3cSemanticWeb

Unicode Conference speaker submission deadline 4 April

30 March 2016

from Internationalization Activity Blog » w3cSemanticWeb

Putting Linguistic Linked Data Standards in Action: Webinar on the FREME Framework

04 February 2016

from Internationalization Activity Blog » w3cSemanticWeb

Unicode Tutorial Workshop in Oman (Feb 14-16, 2016)

12 January 2016

from Internationalization Activity Blog » w3cSemanticWeb

 Video published: Linguistic Linked Data and the LIDER project explained

16 November 2015

from Internationalization Activity Blog » w3cSemanticWeb

New First Public Working Draft: Internationalization Best Practices for Spec Developers

21 October 2015

from Internationalization Activity Blog » w3cSemanticWeb

Best Practices for working with Multilingual Linked Data

05 October 2015

from Internationalization Activity Blog » w3cSemanticWeb

2nd Call: Linguistic Linked Data for Digital Humanities and Linguistics: 7th LIDER roadmapping workshop in Madrid, 20th October 2015

14 September 2015

from Internationalization Activity Blog » w3cSemanticWeb

Linguistic Linked Data for Digital Humanities and Linguistics: 7th LIDER roadmapping workshop in Madrid, October 2015

31 July 2015

from Internationalization Activity Blog » w3cSemanticWeb

TALKS AND APPEARANCES

EVENTS

None. See <u>full list of W3C Talks and</u> Appearances.



WWW2017

Perth, Australia



Permissions & Obligations Expression WG

London

Thomson Reuters

The POE WG will meet F2F in London, taking advantage of many related events there that week. The group's primary deliverables are expected to advance to CR shortly after this meeteing



WWW2018 Lyon, France

See full list of W3C Events.

NAVIGATION CONTACT W3C W3C UPDATES

Home	Contact
Standards	Help and FAQ
Participate	Sponsor / Donate
Membership	Site Map
About W3C	Feedback



Copyright © 2015 W3C ® (MIT, ERCIM, Keio, Beihang) Usage policies apply.