




Cellar

The semantic repository of the Publications Office

(and the API of EUR-Lex and OP Portal)

Data	API	Options	Formats
 ANNOUNCEMENTS	RSS/Atom	Ingestion, authority tables, ontology	XML
 METADATA	RESTful	Tree, branch, object Authority tables EuroVoc	XML RDF/XML JSON
	SPARQL	Query	XML, JSON, etc.
 CONTENT	RESTful	Per MIME-type, zipped Formex	PDF Formex (XML, ZIP) HTML + images

If you want to know
more please download
our booklet:
<http://europa.eu/ljd63xy>

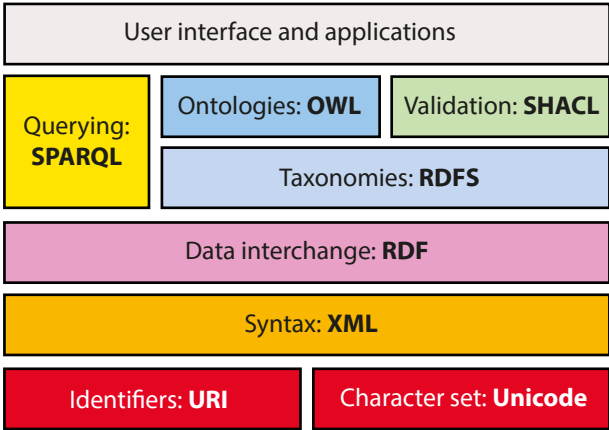


Publications Office
of the European Union



What is the semantic web?

The semantic web is an evolution of the World Wide Web that allows tasks to be automated on the web, letting computers talk to each other. In order to do so, data must follow common formats, structures and standards known by all participating systems. That group of standards is called the semantic web and a few of them are shown in this figure.



Example:

What is the EU legislation in force concerning the EuroVoc concept 'climate change'?

The screenshot shows the Virtuoso SPARQL Query Editor interface. The query text is as follows:

```
prefix cdm: <http://publications.europa.eu/ontology/cdm#>
select distinct ?work
where
{
  ?work cdm:resource_legal_in-force "true"^^<http://www.w3.org/2001/XMLSchema#boolean> ;
  a cdm:legislation_secondary;
  cdm:work_is_about_concept_eurovoc <http://eurovoc.europa.eu/5482> .
}
```

The results are displayed in JSON format, showing a list of works related to the concept 'climate change'.

Results in JSON:

```
File Edit Options Encoding Help
{ "head": { "link": [], "vars": [ "work" ] },
  "results": { "distinct": false, "ordered": true, "bindings": [
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/e683ece5-4564-410c-8dbf-f9637b4839ad" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/96e9d2d4-ff06-4da6-8789-97d94b340454" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/174ef6bb-5ada-469a-9a4e-c0ef6d284a2" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/0fcd340ae-d802-11e2-bfa7-01aa75ed71a1" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/e45557e1-2027-4d87-9c68-1374d3667d26" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/33d8c146-6fbc-11e4-b593-01aa75ed71a1" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/530b03fb-dff1-11e3-8c3d-01aa75ed71a1" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/ea33f31b-eb42-11e5-8a81-01aa75ed71a1" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/a4a592af-571a-11e7-a5ca-01aa75ed71a1" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/e28d0932-d8df-430c-8701-ba9092e99635" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/15b46927-ea68-11e3-8c3d-01aa75ed71a1" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/778de48e-a19c-4011-8209-7bc97834bf96" } },
    { "work": { "type": "uri", "value": "http://publications.europa.eu/resource/cellar/9785daa9-44c8-4d97-a962-799a5836b19f" } },
  ]
}
```