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Developers Track, May 11, 2007

DBpedia

Querying Wikipedia like a Database

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DBpedia

■ DBpedia.org is a community effort to

- extract structured information from Wikipedia
- make this information available on the Web under an open license
- interlink the DBpedia dataset with other datasets on the Web

■ Contributors

- Freie Universität Berlin (Germany)
- Universität Leipzig (Germany)
- OpenLink Software (UK)
- Linking Open Data Community (W3C SWEO)



UNIVERSITÄT LEIPZIG



Outline

1. Extracting Structured Information from Wikipedia
2. The DBpedia Dataset
3. Accessing the DBpedia Dataset over the Web
4. Use Cases
 1. Improving Wikipedia Search
 2. Royalty-Free Data Source for other Applications
 3. Interlinking-Hub for the Emerging Web of Data

Christian Bizer et al: DBpedia – Querying Wikipedia Like a Database (May 11, 2007)

Extracting Structured Information from Wikipedia

- Wikipedia consists of
 - 6.9 million articles
 - in 251 languages
 - monthly growth-rate: 4%
- Wikipedia articles contain structured information
 - infoboxes which use a template mechanism
 - images depicting the article's topic
 - categorization of the article
 - links to external webpages
 - intra-wiki links to other articles
 - inter-language links to articles about the same topic in different languages

Christian Bizer et al: DBpedia – Querying Wikipedia Like a Database (May 11, 2007)

Extracting Infobox Data

```
http://en.wikipedia.org/wiki/Calgary
```

```
<http://dbpedia.org/resource/Calgary>
  dbpedia:native_name "Calgary" ;
  dbpedia:altitude "1048" ;
  dbpedia:population_city "988193" ;
  dbpedia:population_metro "1079310" ;
  mayor_name
    dbpedia:Dave_Bronconnier ;
  governing_body
    dbpedia:Calgary_City_Council ;
  ...
```

- Altogether 9,100,000 RDF triples extracted from 754,000 infoboxes

Calgary



Downtown Calgary.

Government

- Mayor	Dave Bronconnier (Past mayors)
- Governing body	Calgary City Council
- Manager	Owen A. Tobert

Area [1]

- City	726.50 km ² (280.5 sq mi)
- Metro	5,107.43 km ² (1,972 sq mi)
Elevation	1,048 m (3,438.3 ft)

Population (2006) [1]

- City	988,193
- Density	1,360.2/km ² (3,522.9/sq mi)
- Metro	1,079,310
- Population rank	3rd
- Metro rank	5th

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Extracting Other Article Data

- Short and long abstracts in 10 different languages

```
dbpedia:Calgary dbpedia:abstract "Calgary is the largest ..."@en ;
  dbpedia:abstract "Calgary ist eine Stadt ..."@de .
```

- Categorization information

```
dbpedia:Calgary skos:subject dbpedia:Category_Cities_in_Alberta ;
  skos:subject dbpedia:Host_cities_Olympic_Games .
```

- Links to the original Wikipedia articles, pictures and relevant external web pages

```
dbpedia:Calgary
  foaf:page <http://en.wikipedia.org/wiki/Calgary> ;
  dbpedia:wikipage-de <http://de.wikipedia.org/wiki/Calgary> ;
  foaf:depiction <http://upload.wikimedia.org/thumb/3/32/> ;
  dbpedia:reference <http://www.calgary.ca> ;
  dbpedia:reference <http://www.tourismcalgary.com> .
```

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The DBpedia Dataset

- **1,600,000 concepts**
- **including**
 - **58,000 persons**
 - **70,000 places**
 - **35,000 music albums**
 - **12,000 films**
- **described by 93 million triples**
- **using 8,141 different properties.**
- **557,000 links to pictures**
- **1,300,000 links to relevant external web pages**
- **207,000 Wikipedia categories**
- **75,000 YAGO categories**

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Multi-Lingual Abstracts

- The dataset contains a short and a long abstract for each concept.
- Short abstracts
 - English: 1,637,622
 - German: 246,791
 - French: 206,085
 - Dutch: 133,746
 - Polish: 118,874
 - Italian: 113,950
 - Spanish: 112,417
 - Japanese: 106,610
 - Portuguese: 104,842
 - Swedish: 100,267
 - Chinese: 54,991

Property	Value
abstract	『Tschirnhaus-Zentrum』が位置するCalgaryは、カナダ最大の都市であるカルガリーでも最も有名な山岳公園である。面積174リットル平方キロ、海抜約1,040メートルで、美しい湖と渓谷、谷筋、そして中心から約10キロメートル離れたところに位置する。北西はウエストマウンテンズ（North West Mountain Police）の一員。南北、近畿の大半の地域がカルガリー市内である。1941年に大半が石油で構成された石油の天然ガス、从此地で見つかったカルガリーは、世界で人気のある観光地として有名である。特に石油の街として世界で最も有名な都市である。因みに、カルガリー市は世界で最も多くの天然ガスを生産する都市である。しかし、それが主なエネルギー源である。カルガリーは、また、カナダの主要な都市の一つである。カルガリーは、カナダで最も人口の多い都市である。しかし、カナダで最も人口の多い都市は、カルガリーではなく、トロントである。カルガリーは、カナダで最も人口の多い都市ではなく、トロントである。カルガリーは、カナダで最も人口の多い都市ではなく、トロントである。カルガリーは、カナダで最も人口の多い都市ではなく、トロントである。カルガリーは、カナダで最も人口の多い都市ではなく、トロントである。カルガリーは、カナダで最も人口の多い都市ではなく、トロントである。
abstract	Calgary (deutsch für Karren Wasser) ist eine Stadt in Kanada in der Provinz Alberta. Sie ist ein Zentrum und am schnellsten wachsende Großstadt Kanadas und hat 956.078 Einwohner (Stand 2006).
abstract	Calgary es la mayor ciudad de la provincia de Alberta, Canadá. Se ubica en una región rica de colinas y adaptaciones, a aproximadamente 90 km al este de las Montañas Rocosas. Tercera ciudad de Canadá en términos de población, contaba según el censo de abril de 2006 con 991.769 habitantes. La población estimada de su área metropolitana era de 1.060.000 habitantes en 2005 (Greater Region de Calgary). Lo que la convierte en la quinta mayor de Canadá. El "Greater Calgary-Edmonton" es la segunda más grande aglomeración urbana del país, con 3.400.000 habitantes. Actualmente es la tercera ciudad más grande de Canadá. La capital de Alberta es Edmonton. La ciudad de Calgary es un destino muy conocido para los deportes de invierno y el ecoturismo, cerca de la ciudad se sitúa una gran cantidad de importantes lugares de vacaciones. La economía de Calgary se centra sobre todo en la industria petrolífera, aunque la agricultura, el turismo, la construcción y la fabricación también contribuyen significativamente. Los principales festivales de la ciudad son el Stampede, el Folk Music Festival, el Lister Festival, el Oldaffest y el segundo festival de cultura canadiense en importancia del país, el Calfest. En 1990, Calgary se convirtió en la primera ciudad canadiense en acoger los Juegos Olímpicos de Invierno.
abstract	Calgary est la plus grande ville de la province d'Alberta, au Canada. Elle est située dans une région de collines et de plateaux à environ 90 km à l'est des Rocheuses. Troisième ville du Canada, en termes de population, elle comptait selon le recensement d'Avril 2006, 991.769 habitants (1.000.000 avec une agglomération en 2005), ce qui la met au cinquième rang des agglomérations canadiennes. Le « corridor Calgary-Edmonton » est la deuxième plus grande agglomération urbaine du pays, avec 3.400.000 habitants. Actuellement, c'est la troisième ville du Canada. La capitale de l'Alberta est Edmonton. La ville de Calgary est une destination bien connue pour les sports d'hiver et l'écotourisme ; toutefois, l'agriculture, le tourisme, la haute technologie contribuent également au développement économique. Les principaux festivals de la ville sont le Stampede, le Folk Music Festival, le Lister Festival, le Oldaffest et le deuxième festival de culture des Caraïbes en importance au pays (Calfest). En 1990, Calgary devint la première ville canadienne à accueillir les Jeux olympiques d'hiver. Calgary est la ville la plus prospère dans la province la plus riche du Canada. Anciennement, les bois étaient appellés la capitale mondiale des chaussures.
abstract	Calgary är en storstad i provinsen Alberta i Kanada, belägen nära Rocky Mountains. Enligt sista folkräkningen från år 2006 är den nuverande befolkningen 991 769 och är därmed den 10:e största staden i Kanada och det snabbast växande i landet. Det är den tredje största staden i Canadas provins Alberta. Den har cirka 1 000 000 invånare i sin storstadsområde. Det är en viktig handels och industristad, särskilt för oljeproduktionen. Den är också en populär turiststad tack vare sin centrala placering i Kanada och dess gynnsamma klimat. En annan viktig faktor är att det finns många vackra nationalparker och naturreservat runt om i landet.
abstract	Calgary é a cidade mais populosa da província canadense de Alberta, e a terceira mais populosa do país, sendo que sua região metropolitana é a quinta mais populosa da parte. Localiza-se no sul da província, a cerca de 40 quilômetros norte das Montanhas Rochosas. Sua população é de 991.769 habitantes, possuindo aproximadamente 1.060.000 habitantes na área metropolitana. Fundada em 1875, Calgary é atualmente um centro financeiro e comercial, onde estão localizadas as sedes das principais empresas petroleiras do Canadá.
abstract	カルガリー(英語:)は、カナダ・アルバータ州の都市。カルガリーはカナダ最大の都市で1914年に正式でカナダで最初の石油が発見されたから名前を選択した。石油鉱床でカナダの中でも最も重要な位置を占め、大手石油会社の本拠地としても知られる。カナダ・ブロッカーズ鉄道の駅でもある。1988年にはカルガリー冬季オリンピックの開催地となりた。毎年5月の終わりごろ、カルガリーの花祭典「カルガリースターフェスティバル」が開催される。

Christian Bizer et al: DBpedia – Querying Wikipedia Like a Database (May 11, 2007)

Accessing the DBpedia Dataset over the Web

1. SPARQL Endpoint
2. Linked Data Interface
3. RDF Dumps for Download

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The DBpedia SPARQL Endpoint

- <http://dbpedia.org/sparql>
- hosted on a OpenLink Virtuoso server
- can answer SPARQL queries like
 - Give me all Sitcoms that are set in NYC?
 - All tennis players from Moscow?
 - All films by Quentin Tarantino?
 - All German musicians that were born in Berlin in the 19th century?
 - All soccer players with tricot number 11, playing for a club having a stadium with over 40,000 seats and is born in a country with over 10 million inhabitants?
- Provides two extensions to SPARQL
 - free-text search within titles and abstracts
 - COUNT()

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SPARQL Explorer for <http://dbpedia.org/sparql>

SPARQL:

```

PREFIX db: <http://dbpedia.org/resource/>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
PREFIX dbpedia: <http://dbpedia.org/>
PREFIX map: <file:///Users/richard/cyganik/dbpedia-mapping.n3#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX rdfs: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX link: <http://richard.cyganik.de/2006/link#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX w3c: <http://www.w3.org/2001/XMLSchema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT ?name ?birth ?description WHERE (
    ?person dbpedia:birthplace <http://dbpedia.org/resource/city/Berlin> .
    ?person dbpedia:birth ?birth .
    ?person foaf:name ?name .
    ?person rdfs:comment ?description .
    FILTER (?birth < "1900-01-01"^^xsd:date) .
)
ORDER BY ?name

```

Results: [Browse](#) [Go!](#) [Reset](#)

SPARQL results:

name	birth	description
"Adalbert of Prussia"@en	"1811-10-29"^^xsd:date	"Heinrich Wilhelm Adalbert Prince of Prussia (October 29, 1811 in Berlin – June 6, 1873 in Karlsbad) was a Prussian naval theorist and admiral. A son of Prince William, the youngest brother of King Frederick William III, Adalbert was instrumental during the Revolutions of 1848 in founding the first unified German fleet. During the 1850s he helped establish the Prussian Navy."@en
"Adolf von Baeyer"@en	"1835-10-31"^^xsd:date	"Johann Friedrich Wilhelm Adolf von Baeyer (October 31, 1835 - August 20, 1917) was a German chemist who synthesized indigo, and was the 1905 recipient of the Nobel Prize in Chemistry . Born in Berlin, he initially studied mathematics and physics at Berlin University before moving to Heidelberg to study chemistry with Robert Bunsen. There he worked primarily in August Kekulé's laboratory, earning his doctorate (from Berlin) in 1858."@en
"Albert Lortzing"@en	"1801-10-23"^^xsd:date	"Gustav Albert Lortzing (October 23, 1801 - January 21, 1851) was a German composer."@en
"Alexander Gottlieb Baumgarten"@en	"1714-07-17"^^xsd:date	"Alexander Gottlieb Baumgarten (July 17, 1714 – May 26, 1762) was a German philosopher. He was a follower of Leibniz and Christian Wolff, and gave the term aesthetics its modern meaning aesthetics."@en
"Alexander Mitscherlich"@en	"1836-05-28"^^xsd:date	". This article is about the chemist. Go to Alexander Mitscherlich (Psychology) for the psychologist."@en

QBE Advanced Options Help About

Data Source URI: <http://dbpedia.org>

order by

Output format: Table Distinct Get Local Data Only Type: SELECT

Endpoint: /sparql

Query Results

Resource	Property	Property_Value
http://www.w3.org/People/Berners-Lee/FAQ.html	rdfs:label	Tim Berners-Lee FAQ including ENQUIRE information
http://media.web.tufts.edu/rangen/tufts/eneews/snyderlecture_032806.r	rdfs:label	JumboCast's webcast of Sir Tim Berners-Lee at Tufts University

XML JSON JavaScript HTML

The Linked Data Interface

■ The project follows the Linked Data principles

- All concepts are identified using URI references
- All URIs are dereferencable over the Web into a small RDF snippet
- This snippets contain all in-bound and out-bound arcs of a node

■ The Linked Data interface can be used by

- Semantic Web Browsers, like

- DISCO Hyperdata Browser
- Tabulator Browser
- OpenLink RDF Browser

- Semantic Web Crawlers, like

- SWSE (DERI, Ireland)
- Zitgist (Zitgist LLC, USA)
- Swoogle (UMBC, USA)

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Disco - Hyperdata Browser (About)

Berlin

URI: <http://dbpedia.org/resource/city/Berlin>

Property	Value	Sources
population	3398888	G2
type	http://dbpedia.org/City	G2
comment	Berlin is the capital city and one of the sixteen Federal States of Germany. It is the country's largest city in area and population, and the second most populous city in the European Union.	G2
comment	Berlin ist die deutsche Bundeshauptstadt und als Stadtstaat ein eigenständiges Land der Bundesrepublik Deutschland. Berlin ist die bevölkerungsreichste und flächengrößte Stadt Deutschlands und nach Einwohnern die zweitgrößte Stadt der EU.	G2
label	Berlin	G2
sameAs	http://sws.geonames.org/2950159	G2
subject	http://dbpedia.org/resource/category/Berlin	G2
subject	http://dbpedia.org/resource/category/Capitals_in_Europe	G2
subject	http://dbpedia.org/resource/category/Cities_in_Germany	G2
subject	http://dbpedia.org/resource/category/German_state_capitals	G2
subject	http://dbpedia.org/resource/category/Host_cities_of_the_Summer_Olympic_Games	G2
subject	http://dbpedia.org/resource/category/States_of_Germany	G2
sourceURL	Berlin	G1
depiction		G2
page	http://en.wikipedia.org/wiki/Berlin	G2
is birthplace of	Adolf von Baeyer	G2

DBpedia Use Cases

1. Improving Wikipedia Search
2. Royalty-Free Data Source for other Applications
3. Interlinking-Hub for the Emerging Web of Data

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Improving Wikipedia Search

Search DBpedia.org
Explore Linked Data

Calgary

[airport](#) [alumnus](#) [announcer](#) [arboretum](#) [area](#) [asteroid](#) [authony](#) [bay](#) [broadcasting](#) [company](#) [building](#) [cathedral](#) [center](#) [champion](#) [charter school](#) [choice](#) **city club** [coach](#) [coat](#) [company](#) [council](#) [couple](#) [currency](#) [district](#) [duck](#) [educational institution](#) [event](#) [exhibition](#) [family](#) [festival](#) [figure](#) [film festival](#) **fire** [flag](#) [footing](#) [frigate](#) [garrison](#) [goalkeeper](#) [grade school](#) [group](#) [hatchet man](#) [hospital](#) [identical twin](#) [law enforcement agency](#) [law school](#) [league](#) [mayor](#) [medalist](#) [medium](#) [menagere](#) [museum](#) [musician](#) [newspaper](#) [oil company](#) [orchestra](#) [organization](#) [person](#) **player** [playoff](#) [plaza](#) [prospect](#) [public library](#) [publication](#) **regiment** [region](#) [restaurant](#) [retention](#) [rival](#) [school](#) [science museum](#) [season](#) [senior high school](#) [set](#) [singer](#) [site](#) [skyscraper](#) [star](#) [station](#) **team** **town** [undertaking](#) [university](#) **venue** **vicinity** [victim](#) [village](#)

355 results found (1.78125 sec sparql query time), showing 20 results per page

Resultpage: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#)

Calgary [W](#)
 Calgary is the largest city in the province of Alberta, Canada. It is located in the south of the province, in a region of foothills and high plains, approximately 80 km east of the front ranges of the Canadian Rockies. Calgary is the third largest civic municipality, by population, in Canada. As of April 2006, Calgary's population was 991,759.
city

Calgary Flames [W](#)
 The Calgary Flames are a professional ice hockey team based in Calgary, Alberta. They play in the National Hockey League (NHL) in the Northwest Division of the Western Conference. The Flames won the 1989 Stanley Cup.

List of Calgary Flames players [W](#)
This is a list of players who have played at least one game for the Calgary Flames (1980-81 - present) of the National Hockey League (NHL). This list does not include players for the Atlanta Flames.

Improving Wikipedia Search

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Query Wikipedia
This semantic database contains over 10 million statements extracted from the English Wikipedia.

search for queries | [Most popular](#) | [Upcoming](#)

[Tennis players from Moscow](#)
[Sitcoms set in NYC](#)
[Soccer player with tricot nr. 11, playing for a club having a stadium with >40.000 seats, born in a country with >10M inhabitants](#)
[People influenced by Friedrich Nietzsche](#)
[Films longer than 5 hours](#)
[Space Missions](#)
[Film music composer born 1965](#)
[People being 1.80m tall](#)
[List of Web browser software](#)
[Mayors of US cities higher than 100000](#)
[Pictures of American guitarists](#)
[Battles in Saxony](#)
[What connects Innsbruck and Leipzig](#)
[Hip hop CDs from Texas Artists](#)
[Scientists and their doctoral advisors](#)

<< 1 >>

Soccer player with tricot nr. 11, playing for a club having a stadium with >40.000 seats, born in a country with >10M inhabitants

Subject	Predicate	Object
?player	currentclub	?club
?player	clubnumber	11
?player	countryofbirth	?country
?club	capacity	>40000
?country		>10000000
[+]		
GDP_PPP (11)		
population_estimate (10)		
population_census (9)		
established_date2 (8)		
established_date1 (6)		
established_date3 (5)		
GDP_nominal (3)		
acquisitionEUpdate (2)		

Click on a column header

10 results found in 0.00

Nr.	?player	?country	>40000	>10000000
1	Cicinho	Brazil	80354	187560000
2	Gonzalo Fierro	Chile	62000	16432674
3	Lukas Podolski	FC Bayern Munich	69901	38536869
4	Mark González	Liverpool F.C.	45362	47432000
5	Michael Thurk	Eintracht Frankfurt	52000	82438000
6	Ramón Morales	Chivas de Guadalajara	72480	107784179
7	Robin van Persie	Arsenal F.C.	60432	16336346
8	Stefano Mauri	S.S. Lazio	82656	58751711

this page. Results: 10

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Royalty-Free Data Source for other Applications

- DBpedia is published under GNU Free Documentation License
- Example use case: SPARQL generated tables within a webpage that update automatically



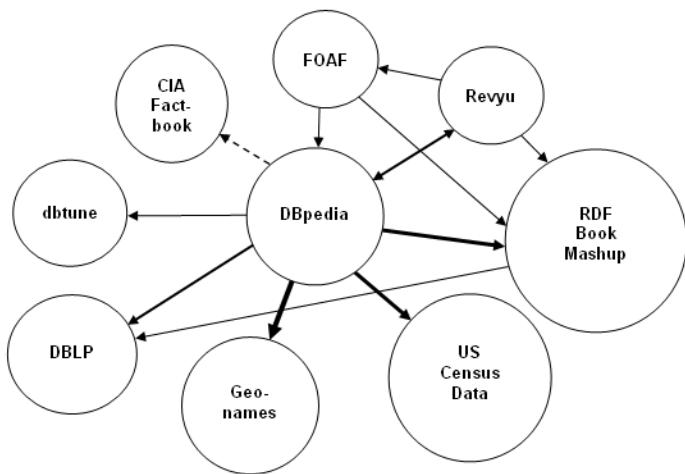
The screenshot shows a search result for "German State Capitals ordered by Population". The table lists cities, populations, and links to their Wikipedia pages. The table is generated via a SPARQL query embedded in the HTML.



The screenshot shows a search result for "Berlin districts". The table lists districts, names, and links to their Wikipedia pages. The table is generated via a SPARQL query embedded in the HTML.

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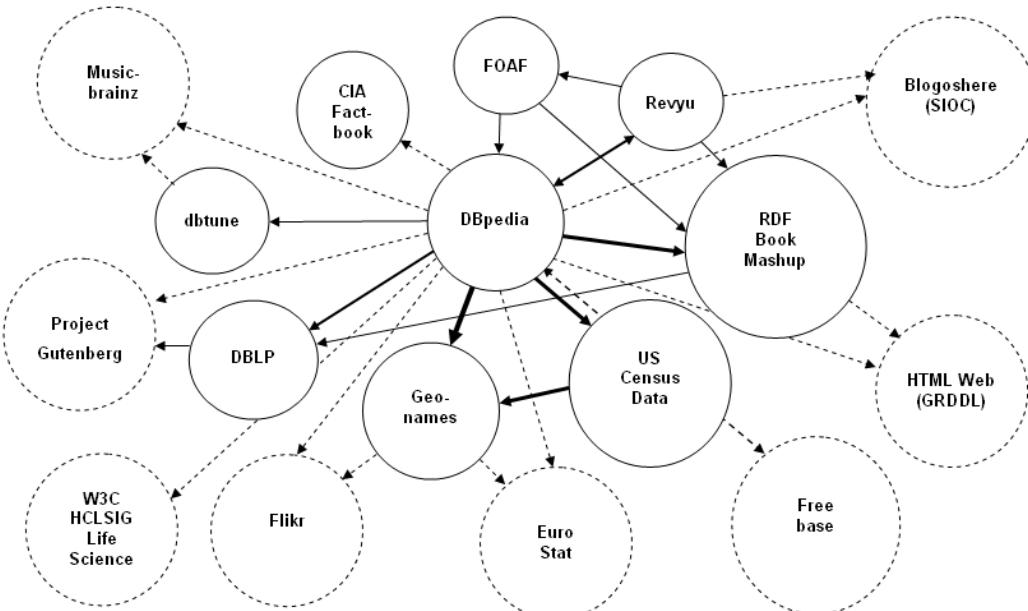
Interlinking-Hub for the Emerging Web of Data



- W3C SWEO Linking Open Data Project
- Over 600 million triples served as Linked Data
- Around 100,000 out-bound RDF links within DBpedia

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Where will the project be in 2 month?



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Participating in the Linking Open Data Project

■ Wiki Page

- <http://esw.w3.org/topic/SweoIG/TaskForces/CommunityProjects/LinkingOpenData>

■ Mailing List

- <http://simile.mit.edu/mailman/listinfo/linking-open-data>

■ Participating in the project

- Put your name on the Wiki page
- Subscribe to the mailing list
- Talk to Kingsley Idehen, Tom Heath or me here at WWW2007
- Publish and interlink open data

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Example RDF Links

■ Out-Bound RDF Link

```
<http://dbpedia.org/resource/Berlin> owl:sameAs  
<http://sws.geonames.org/2950159> .
```

```
<http://dbpedia.org/resource/Tim_Berners-Lee> owl:sameAs  
<http://www4.wiwiiss.fu-berlin.de/dblp/resource/person/100007> .
```

■ In-Bound RDF Links

```
<http://www.w3.org/People/Berners-Lee/card#i> owl:sameAs  
<http://dbpedia.org/resource/Tim_Berners-Lee> .
```

```
<http://richard.cyganiak.de/foaf.rdf#cygri> foaf:topic_interest  
<http://dbpedia.org/resource/Semantic_Web> .
```

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Browsing DBpedia together with Linked Data

The screenshot shows the DBpedia.org search interface. At the top, there is a red header bar with the text "Search DBpedia.org" and "Explore Linked Data". Below the header, a search bar contains the query "Tim Berners-Lee". To the right of the search bar is a "Search" button. The main content area displays a profile for "Tim Berners-Lee". On the left, there is a small thumbnail image of Tim Berners-Lee. To the right of the image is a list of properties and their values, such as "Wikipedia Article: Tim Berners-Lee", "Rdfs.label: Tim Berners-Lee", "Name: Berners-Lee, Tim", etc. Further down, there is a "Description" section containing a bio about Tim Berners-Lee. At the bottom of the profile section, there is a "Disclaimer" note. To the right of the profile, there are two grey boxes labeled "Linked Datasets" and "Linked Data from DBLP". The "Linked Datasets" box contains a list of links related to DBLP, and the "Linked Data from DBLP" box contains a list of links related to Tim Berners-Lee's work at CERN.

Future Work

1. Do a lot of data cleansing
2. Automate the data extraction process
3. Try to improve the classification
4. Interlink DBpedia with more datasets

■ How can I support DBpedia?

- Develop another cool user interface to DBpedia
- Publish more RDF datasets with dereferencable URIs
- Interlink your datasets with DBpedia

- Talk to Kingsley Idehen, Tom Heath or me here at WWW2007 about participating in the Linking Open Data project

Thanks!

DBpedia Website

<http://dbpedia.org/docs/>

Linking Open Data Project Website

[http://esw.w3.org/topic/SweoIG/TaskForces/CommunityProjects/
LinkingOpenData](http://esw.w3.org/topic/SweoIG/TaskForces/CommunityProjects/LinkingOpenData)

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