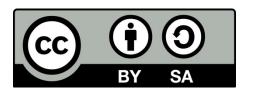


Linked Data Theatre

Slide deck



The challenge

We love our Linked Data!

Linked Data

But it doesn't look good

```
dbpedia:Amersfoort rdf:type dbo:PopulatedPlace;
    rdf:type dbo:City;
    rdf:type dbo:Place;
    rdf:type dbo:Settlement;
    dbp:establishedDate "1259";
    dbp:north n1:Bunschoten;
    dbp:northwest n1:Baarn;
    rdfs:label "Amersfoort"@n1;
    geo:geometry "POINT(5.3833332061768 52.150001525879)";
    dbo:areaCode "033";
.
```

Turtle representation

The Challenge

We want some easy to use front-end application that automatically presents our Linked Data in the prettiest way possible



The Linked Data Theatre

- Responsive UI based on Bootstrap;
- Rich user interface, using jQuery, D3.js and Leaflet.js
- Zero-coding: configuration is 100% Linked Data;
- Multi-channel: PC, smartphone and tablet support;
- Multi-format: html, xml, json, pdf, svg, etc, etc
- Geospatial and graphical support;
- Uses standard web infrastructuur, available for Docker;
- 100% Open source, available on Github, GNU license.

Requests

http://dbpedia.org/resource/Amersfoort

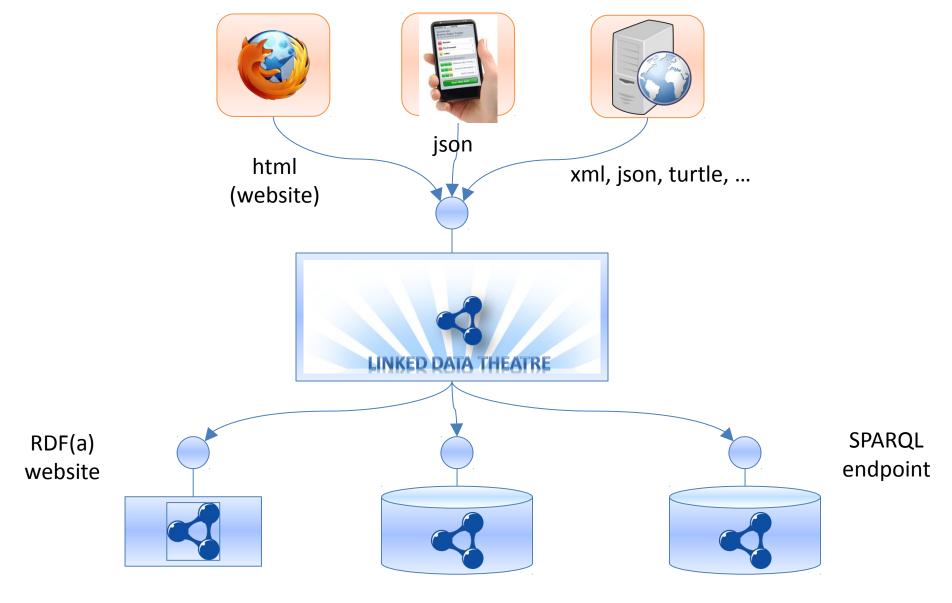
"Dbpedia, do you have some information about Amersfoort?"

http://mysite/resource?subject=http://dbpedia.org/resource/Amersfoort

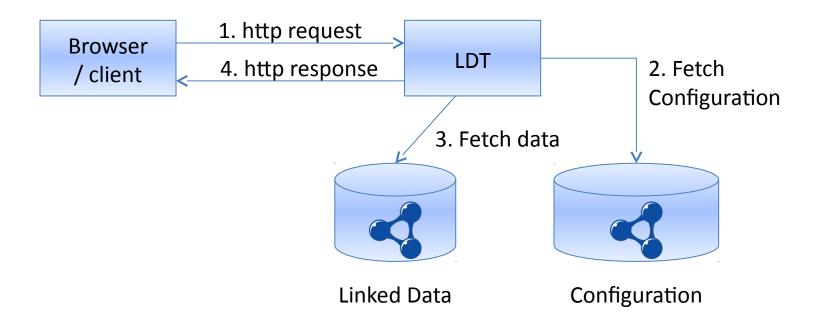
"Mysite, do you have some information about Amersfoort?"

http://mysite/query/birthplaceOf?subject=http://dbpedia.org/resource/Piet_Mondriar "Mysite, could you give me some information about the birthplace of Piet Mondrian?"

Architecture



LDT overview



Two (basic) examples

Zoeken:

Toon 10 ▼ rijen

is injen	Educati.						
elevation J±	place 11						
1880	Durango (stad)						
1881	Walsenburg						
1885	Harar						
1892	Kunming						
1896	Moriarty (New Mexico)						
1900	San Miguel de Allende						
1901	South Lake Tahoe						
1906	Stanley (Idaho)						
1920	Morelia (Mexico)						
1922	Greenhorn (Oregon)						
1 tot 10 van 100 resultaten	Vorige 1 2 3 4 5 10 Volgende						

type	nederzetting			
	stad			
	nederzetting			
	stad			
	bebouwde omgeving			
	plaats			
wikiPageID	45533592			
wikiPageRevisionID	683767952			
sameAs	Lhasa			
areaCode	891			
areaTotalKm	29274			
areaUrbanKm	53			
elevationM	4200			

Site, stage and backstage

A Theatre (site)



http://demo.bp4mc2.org

Mainstage & second stage



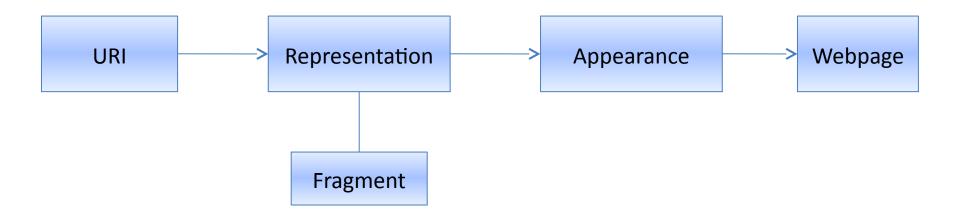
http://demo.bp4mc2.org
http://demo.bp4mc2.org/secondStage

Backstage



http://demo.bp4mc2.org/backstage

Configuration overview



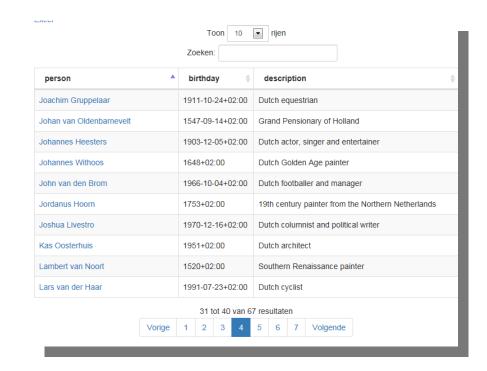
Content appearance

A content appearance is used to represent the result of a CONSTRUCTquery. The resulting triples are displayed using a twocolumn table per unique subject. The first column contains the propertylabel, the second column the object-value.

label	Amersfoort			
subject	http://dbpedia.org/resource/Category:Amersfoort			
	http://dbpedia.org/resource/Category:Populated_places_in_Utrecht_(province)			
	http://dbpedia.org/resource/Category:Olympic_modern_pentathlon_venues			
	http://dbpedia.org/resource/Category:Cities_in_the_Netherlands			
	http://dbpedia.org/resource/Category:1928_Summer_Olympic_venues			
lat	52.15			
long	5.38333			
homepage	http://www.amersfoort.nl			
populationDemonym	Amersfoorter			
settlementType	City and Municipality			
abstract	Amersfoort ['a:.mersfo:rt] is a municipality and the second largest city of the province of Utrecht in central Netherlands. The city is growing quickly but has a well-preserved and protected medieval centre. Amersfoort is one of the largest railway junctions in the country, because of its location on two of the Netherlands' main east-west and north-south rail lines. The city celebrated its 750th birthday in 2009.			
isPrimaryTopicOf	http://en.wikipedia.org/wiki/Amersfoort			

Table appearance

A table appearance is used to represent the result of a SELECT-query. The resulting rows are displayed in paged table. Every variable is displayed as a column.



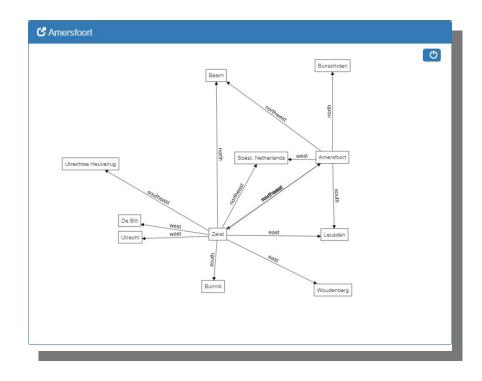
Tree Appearance

 A tree appearance can be used to create a tree of resources, using the link between resources (from a CONSTRUCT query), for example a taxonomy of concepts.



Graph appearance

The graph appearance creates a graphical representation of the linked data, using rectangles for items and arrows for the relations between the items. Users can expand the graph by selecting an item. All relations to and from that item will appear.



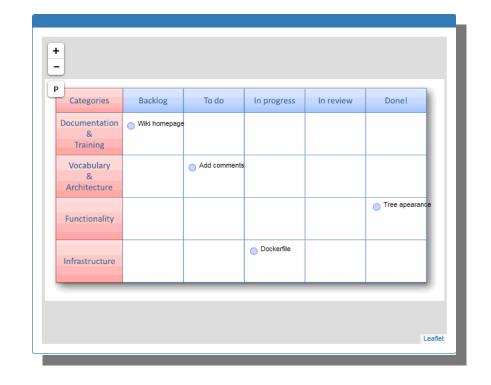
Geo appearance

 The geo appearance shows a map of the world, including reference points from the query result.



Image appearance

- The image appearance uses a custom image as the background instead of a map of the world.
- It can also be used to edit the locations of polygons
- Export to PDF and PNG is also supported



Form appearance

 A form appearance is used to give a user the opportunity to enter data. Support is available for various data types, such as date pickers, text input, file upload and selecting a value from a list.

Name	Rembrandt van Rij			
Birth day	07/15/1607			
Known as	ambassador			
Comment	ambassador architect	van Rijn was a Dutch painter and etcher. He is generally considered		
Attachment	artist	Bladeren		

Text Appearance

For displaying "regular" documents, a text appearance is available.

Wet van 4 juni 1992, houdende algemene regels van bestuursrecht (Algemene wet bestuursrecht)

Hoofdstuk 1. Inleidende bepalingen

Titel 1.1. Definities en reikwijdte

Artikel 1:1

- 1 Onder bestuursorgaan wordt verstaan:
 - een orgaan van een rechtspersoon die krachtens publiekrecht is ingesteld, of
 - b. een ander persoon of college, met enig openbaar gezag bekleed.
- 2 De volgende organen, personen en colleges worden niet als bestuursorgaan aangemerkt:
 - a. de wetgevende macht;
 - b. de kamers en de verenigde vergadering der Staten-Generaal.
 - c. onafhankelijke, bij de wet ingestelde organen die met rechtspraak zijn belast, alsmede de Raad voor de rechtspraak en het College van afgevaardigden;
 - de Raad van State en zijn afdelingen;
 - e. de Algemene Rekenkamer;
 - f. de Nationale ombudsman en de substituut-ombudsmannen als bedoeld in artikel 9, eerste lid, van de Wet Nationale ombudsman, en ombudsmannen en ombudscommissies als bedoeld in artikel 9:17, onderdeel b:
 - g. de voorzitters, leden, griffiers en secretarissen van de in de onderdelen b tot en met f bedoelde organen, de procureur-generaal, de plaatsvervangend procureur-generaal en de advocaten-generaal bij de Hoge Raad, de besturen van de in onderdeel c bedoelde organen alsmede de voorzitters van die besturen, alsmede de commissies uit het midden van de in de onderdelen b tot en met f bedoelde organen;
 - de commissie van toezicht betreffende de inlichtingen- en veiligheidsdiensten, bedoeld in artikel 64 van de Wet op de inlichtingen- en veiligheidsdiensten 2002.
- 3 Een ingevolge het tweede lid uitgezonderd orgaan, persoon of college wordt wel als bestuursorgaan

Navbar appearance

A navbar appearance creates a navbar with drop down menus and menu-items.

Linked Data Podium Graphs Vocabularies Dropdown → Datasets dropdown1					
dropdown1	Linked Data Podium	Graphs	Vocabularies	Dropdown ▼	Datasets
				dropdown1	

Search appearance

A search appearance is normally used with a navbar appearance, and creates an appearance that contains a search entry-field, plus the functionality to retrieve search results from the entered search query.

