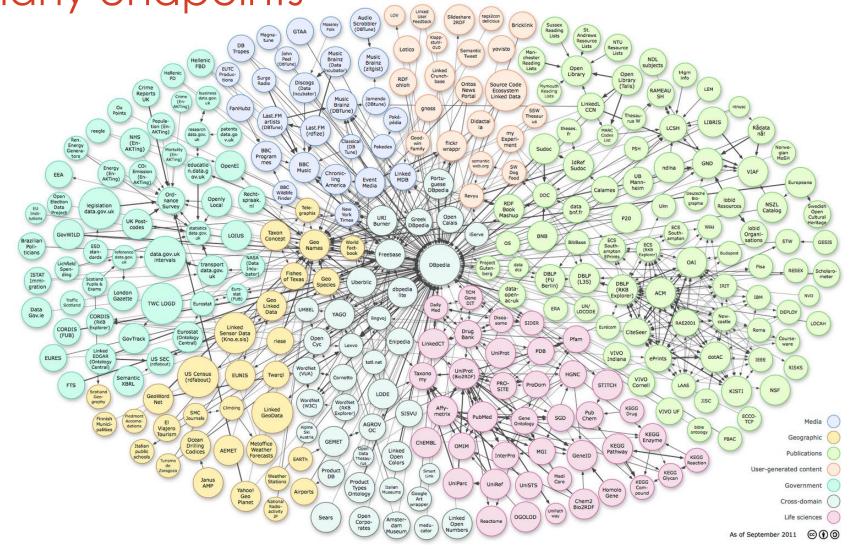


Mohamed Sherif Fabian Salcher Kai Schlegel Robert Blair Serge Tymaniuk

Outline



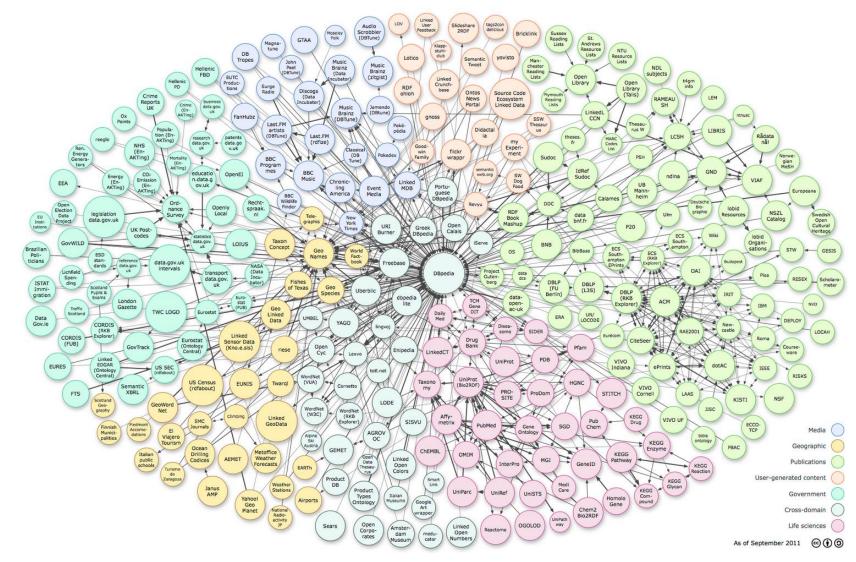
Linking Open Data cloud – many endpoints

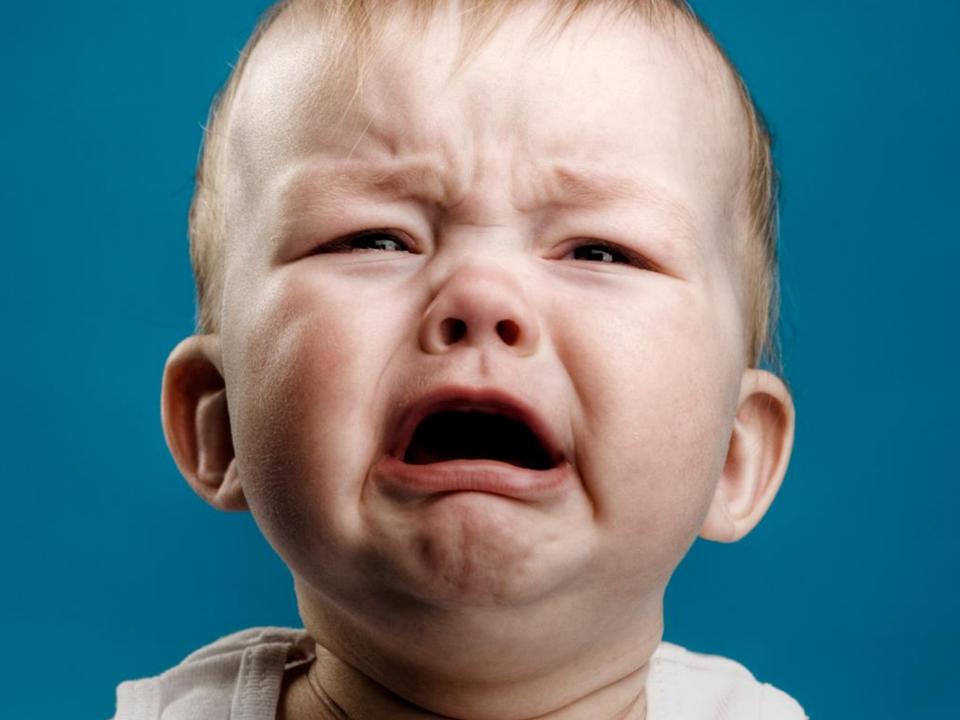




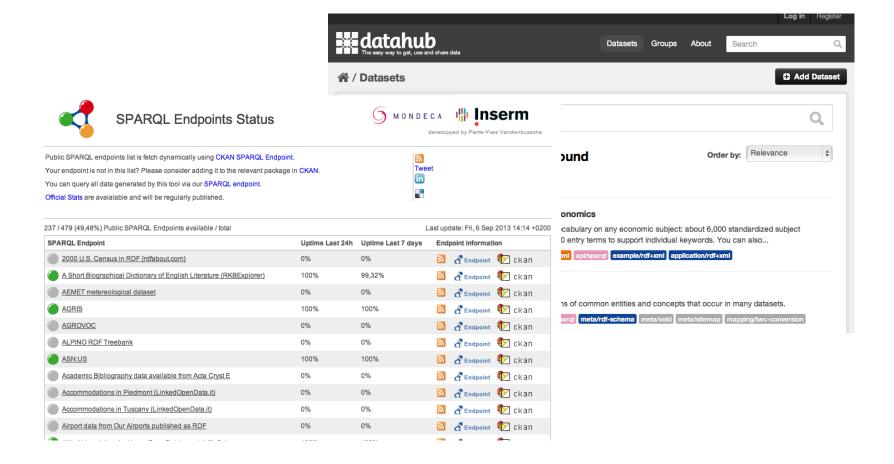


Linking Open Data cloud – many endpoints





There is help!



SPARQL Features provided by Endpoints

- SPARQL standards
 - SPARQL 1.1: subqueries, property paths, binding, values
- Best Practice
 - keyword search, variety of different syntax
- Lack of full compliance

Developer wastes time!

Objectives

Overall: Develop a practical solution to detect SPARQL features of an endpoint

- 1. Accessible to developers (humans)
- 2. Accessible to machines (non-humans)
- 3. Utilize community expertise

Solution:

Automated Feature Check

- Check query for SPARQL features
- Interrogate endpoint automatically
- function matrix (color coded)

 RDF output (using VoID)
- Community enriched solutions



Scenario

Developer requirements:

- query Linked-Open-Data using SPARQL
- Preliminary selection of endpoints

 Identify features of each endpoint to exploit modern SPARQL standard

Feature Detection

Summary:

SPARQL compliance Vs. endpoint functionality

- Endpoint selection
- Query adaption
- Community collaborative solutions

Outlook:

- Publish benchmark vocabulary
- Community solution rating system
- Endpoint syntax variation layer

If we knew what it was we were doing, it would not be called research, would it?

- Albert Einstein

Thank you!