Featr
SPARQL Feature Detection

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Co-op Research
Outline

- Motivation
- Objectives
- Solution
- Scenario & Demo
Linking Open Data cloud – many endpoints
Lots of potential!
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
- Output
  - 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
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!