SparqlExplorer
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Context use case

Here is my great data following W3C standards!

Looks great, but I can’t read RDF or write SPARQL queries.
SparqlExplorer

Navigate a SPARQL endpoint like you would navigate the Web.
Basic Behaviour

**Home Page** Basic text search, list of classes.

**Navigation** URL Based navigation

**Default display** Very classical tabular view of triples
Using a View Server

“Basic” display is often not user-friendly enough.

We would like the tool to propose a visualisation based on the data relative to an URL.
Introducing Views

SPARQL Endpoint URL → Data retrieval → VIEW

URL of the resource to display → VIEW

Is Applicable? (Yes or No)

render → HTML

JavaScript logos: React, Angular, and Vue
View selection

Visualizing URI urn:123 on SPARQL endpoint http://example.org/sparql with view server http://view-server.com
View selection

Visualizing URI `urn:123` on SPARQL endpoint `http://example.org/sparql` with view server `http://view-server.com`

ASK `{ <urn:123> ... }`
View selection

Visualizing URI `urn:123` on SPARQL endpoint `http://example.org/sparql` with view server `http://view-server.com`

```
ASK { <urn:123> ... }
```

Storage access.

`http://example.org/sparql`
View selection

Visualizing URI `urn:123` on SPARQL endpoint `http://example.org/sparql` with view server `http://view-server.com`
View rendering

Visualizing URI urn:123 on SPARQL endpoint http://example.org/sparql with view server http://view-server.com

Retrieve necessary data about <urn:123>
Visualizing URI \texttt{urn:123} on SPARQL endpoint \url{http://example.org/sparql} with view server \url{http://view-server.com}
Small demonstration

SparqlExplorer: https://open-source.pages.logilab.fr/SemWeb/sparqlexplorer

SPARQL Endpoint: https://data.idref.fr/sparql

View Server: https://open-source.pages.logilab.fr/SemWeb/generic-views
Pros and Cons

👍 Pros

- A tool on the web for browsing SPARQL endpoints
- Web interfaces on-shelf for data producers
- A first view server for standard vocabularies
- An API to create your own view server

👎 Cons

- Performance issues (text search) on large datasets
- Requires that more view servers are developed to be wider-scoped
Thank you

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Don’t hesitate to contribute to this libre/free software!
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