7 Problems uniquely solved by OpenLink Virtuoso

OPENLINK® VIRTUOSO UNIVERSAL SERVER

Virtuoso unleashes the power and promise of:

- Conversational Agents when loosely coupled with Knowledge Graphs.
- Knowledge Graphs deployed using Linked Data Principles.
- Semantic Layering over Data represented as Tables or Graphs, accessible via HTTP, ODBC, or JDBC.

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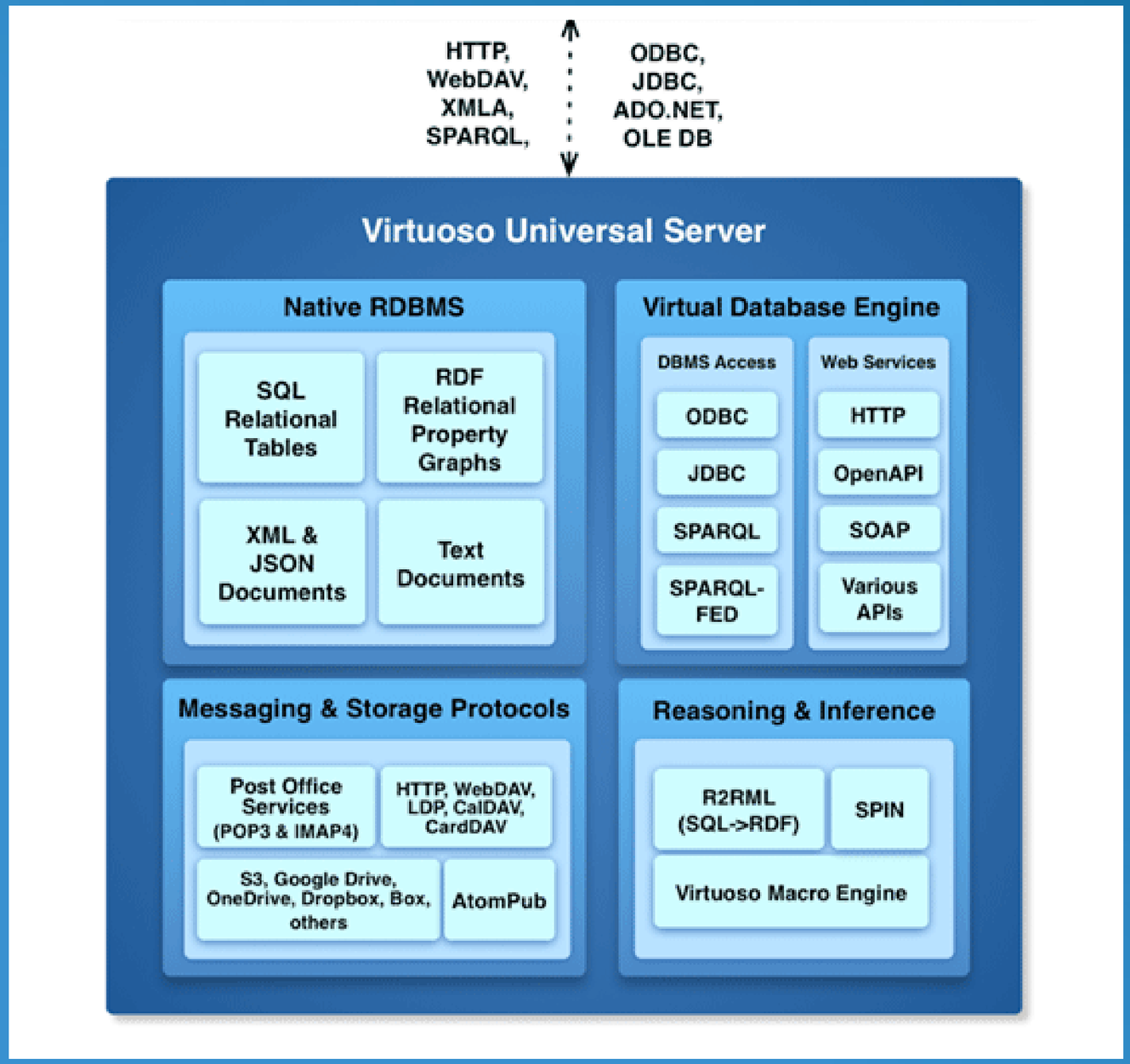

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Only Virtuoso lets you fully utilize —

- Multi-Model data interactions using SQL, SPARQL, or GraphQL over line-of-business data sources
- Conceptual Integration of Data from Disparate Data Sources via a Semantic Layer
- Open standards such as HTTP, ODBC, or JDBC, for loosely-coupled Data Access between front-end Applications and DBMS back-ends
- Data Security using fine-grained Attribute-based Access Controls (ABAC), at Web and Internet scales
- Faceted Search & Browsing at Web-scale
- Reasoning & Inference at Web-scale

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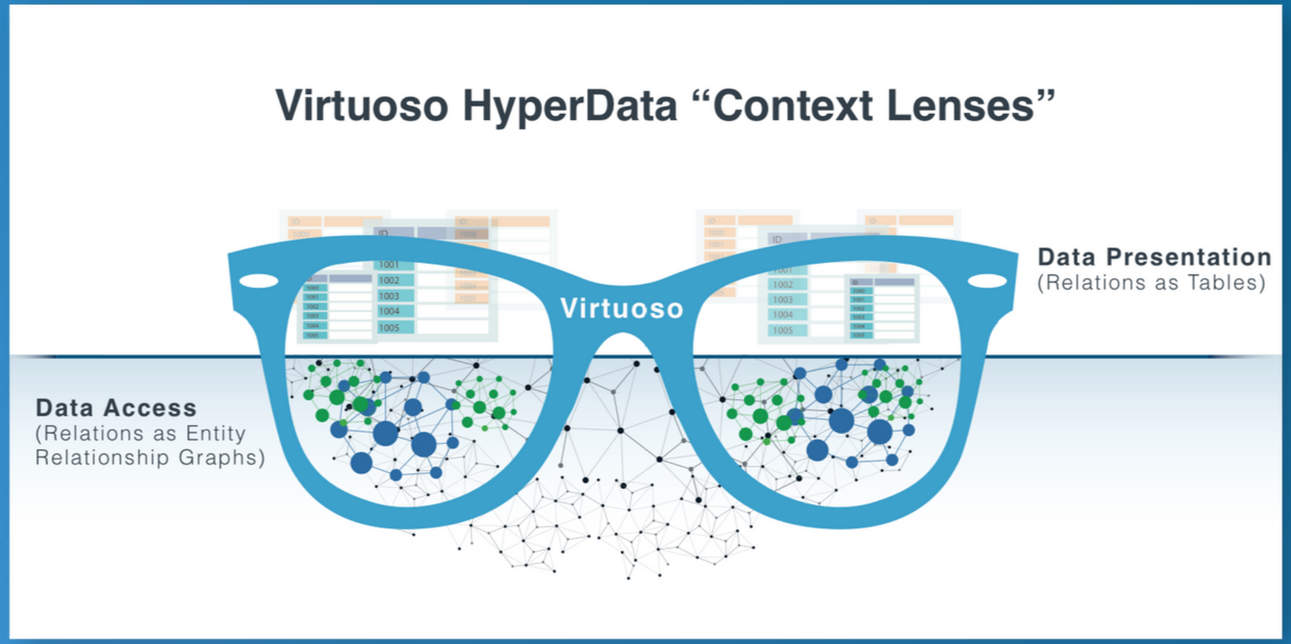
Powerful Multi-Model Data Access, Integration, and Management

By supporting Declarative Data Definition and Data Manipulation operations scoped to Tables and/or RDF Graphs.



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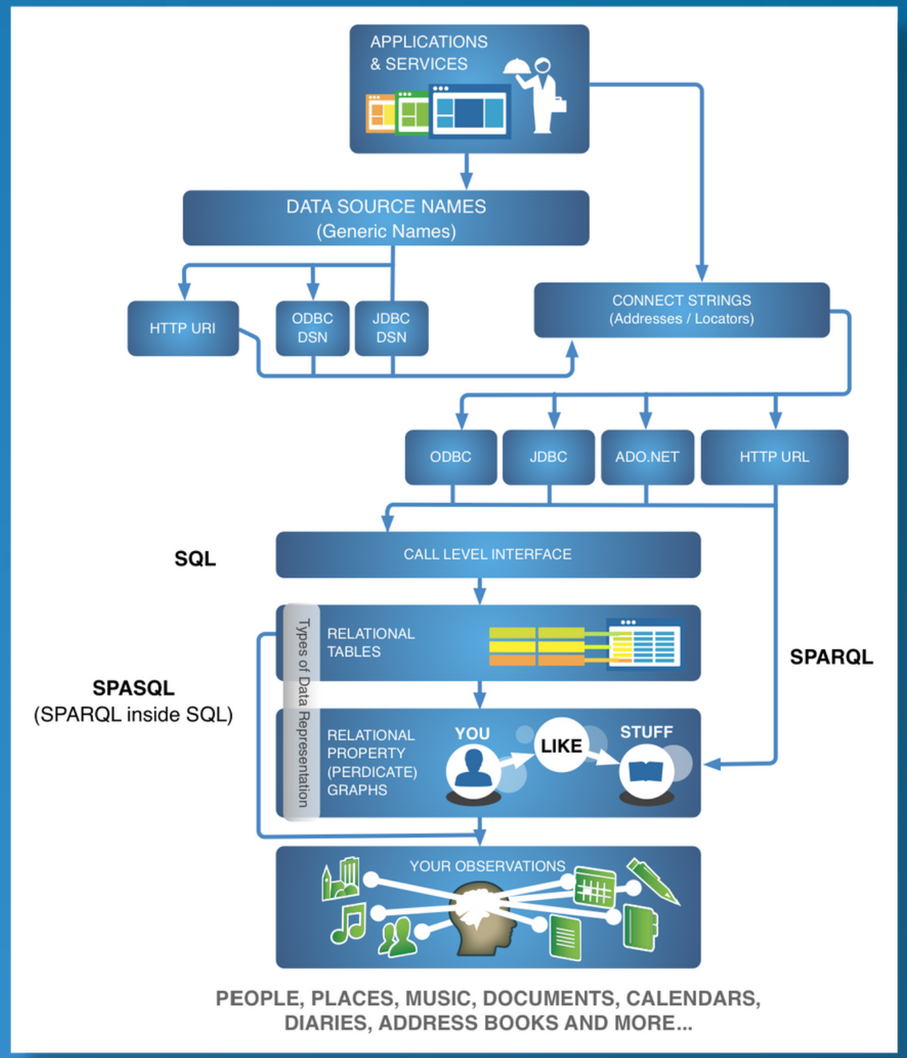
Conceptually Integrate Data from Disparate Data Sources

Use Conceptual Data Virtualization to blend data from different databases with SQL and/or SPARQL as the basis for predefined query templates that aid hallucination minimization in AI-based Smart Agents (Assistants & CoPilots).



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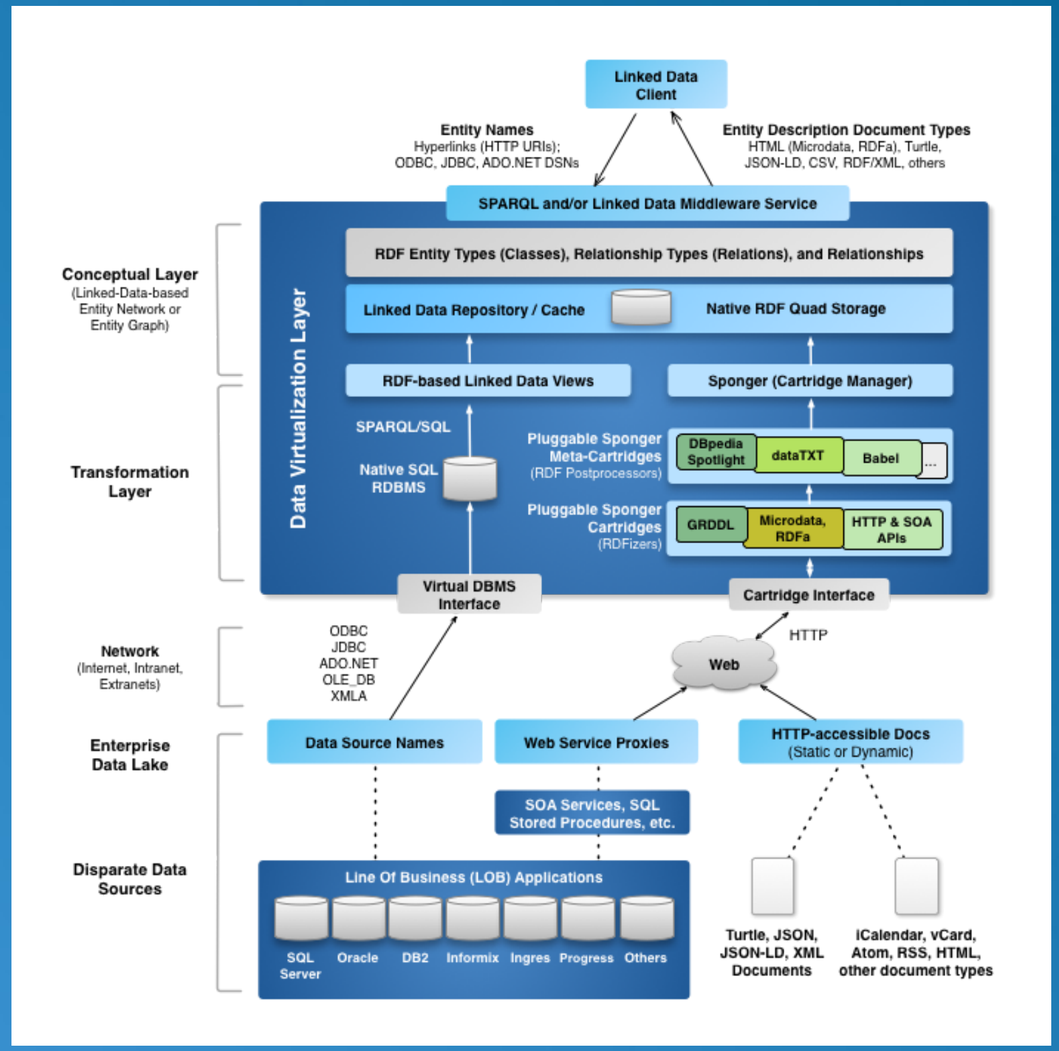
Use ODBC, JDBC, ADO.NET, and/or OLE DB connections from existing Applications and Services

Access local and public remote Knowledge Graphs across private data silos or across the massive Linked Open Data Cloud comprising reference data sources likes of DBpedia, Wikidata, and many more.



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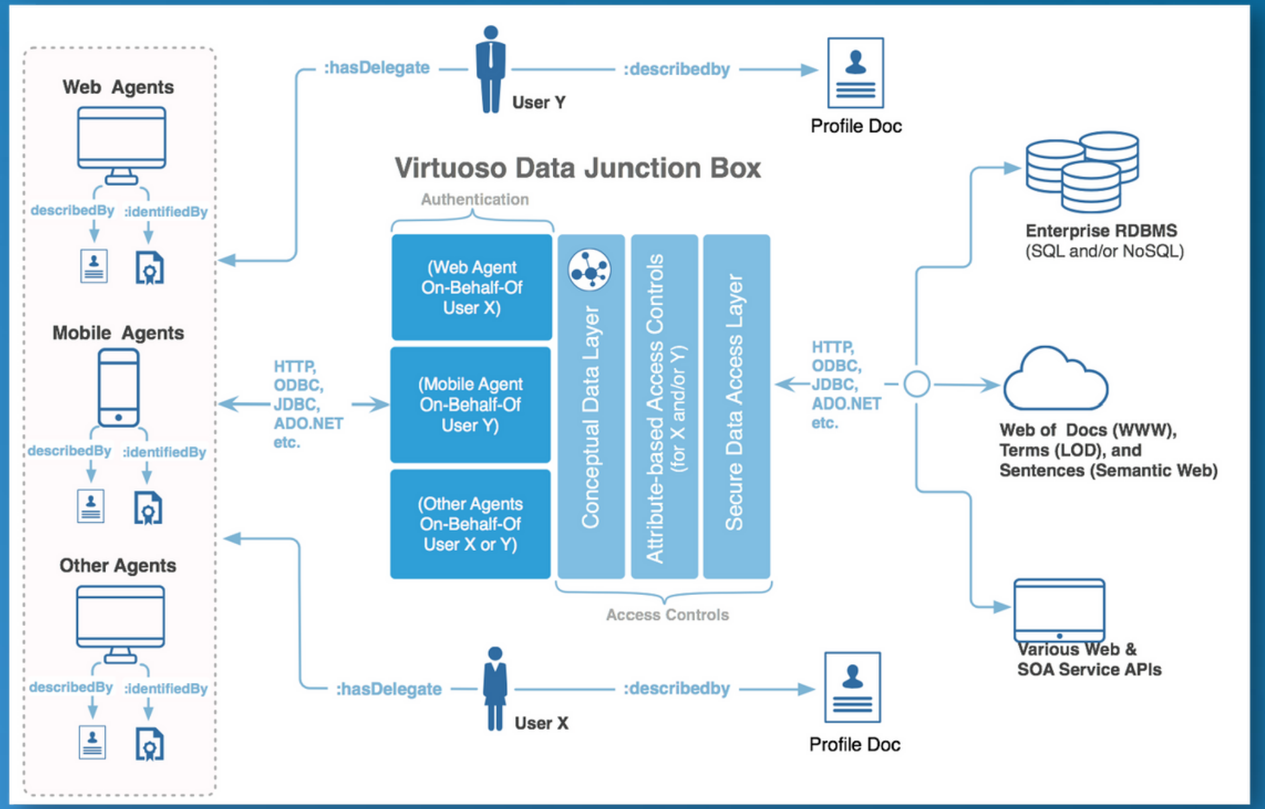
User Controlled Identity Authenticity

Use Profile oriented Knowledge Graphs to inform Data Access Policies in the form of Attribute-based Access Controls (ABAC), rather than Role-based Access Controls (RBAC).



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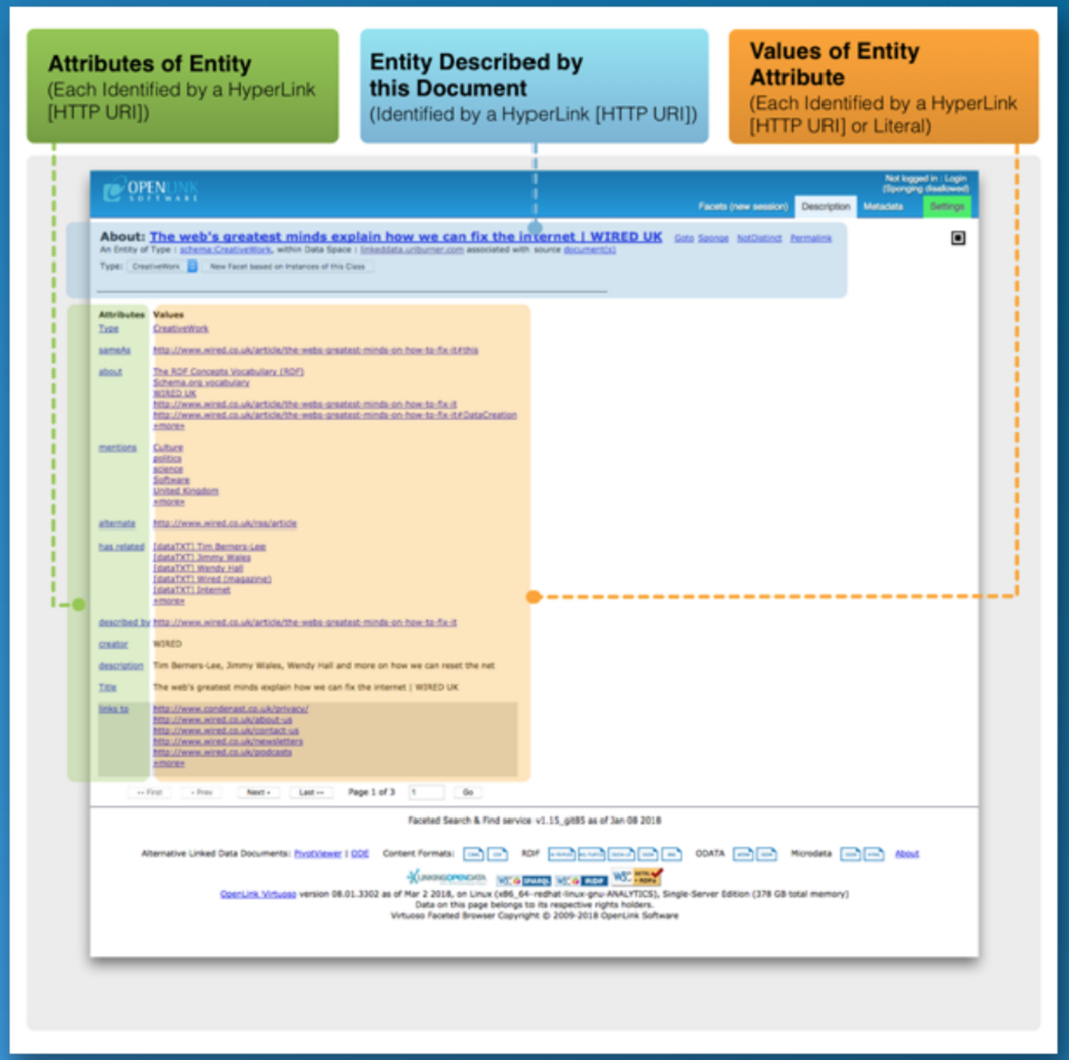
Employ Faceted Search & Browsing, at Web-Scale

Utilize high-performance and scalable Faceted Search and Browsing over Knowledge Graphs that are constructed progressively, as you explore.



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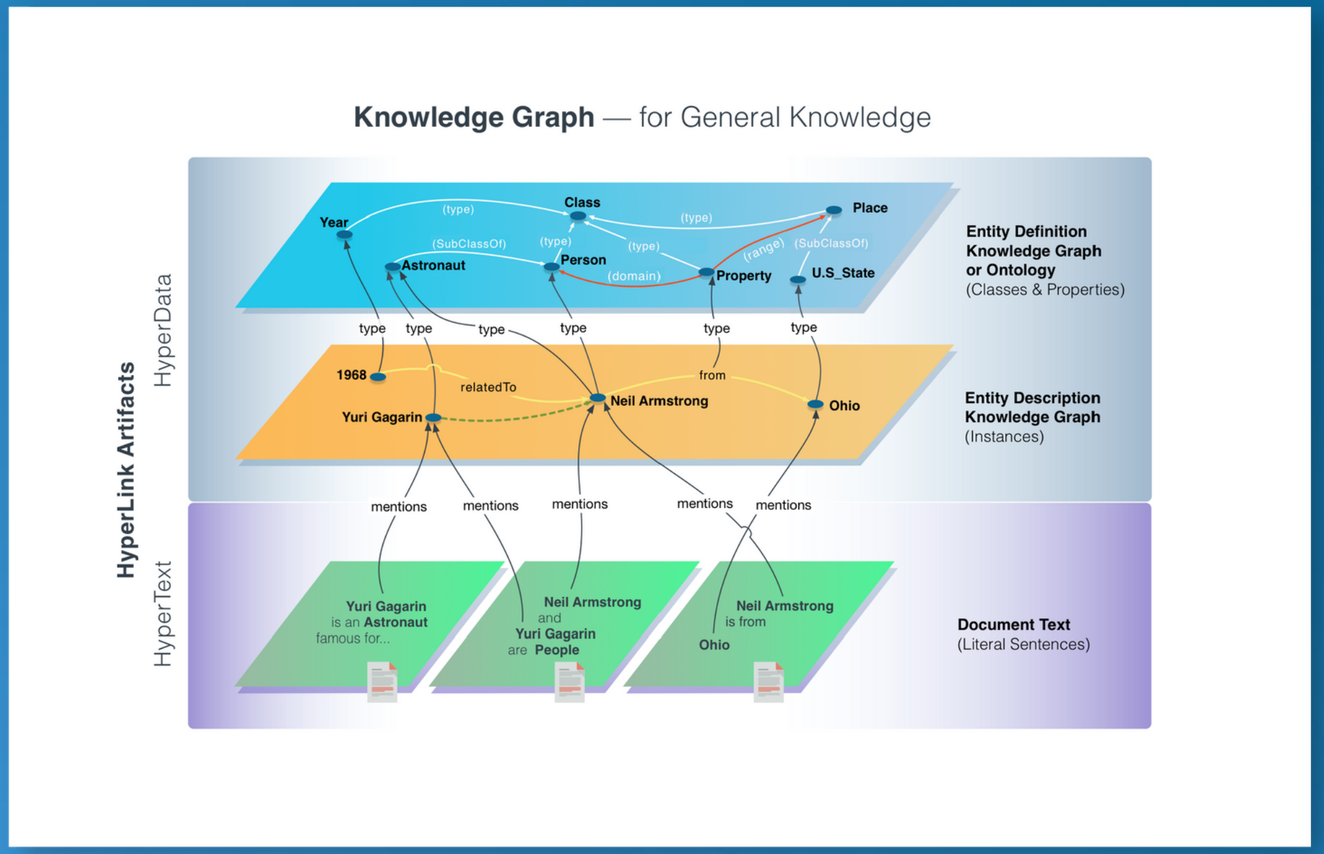
Gain Insight through Reasoning & Inference, at Web-Scale

Use Ontologies to inform high-performance and scalable reasoning and inference.



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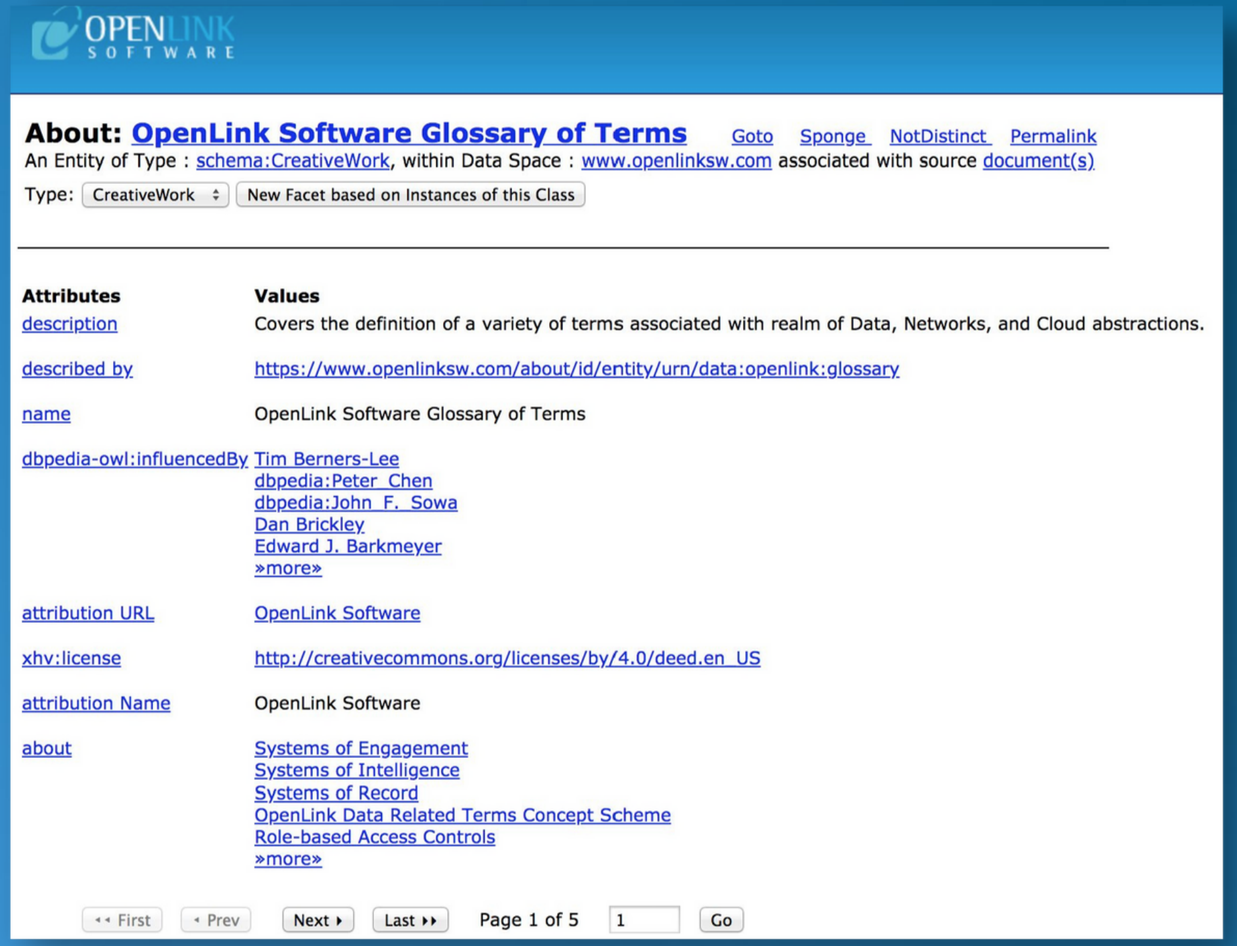
Build Glossaries

Build powerful glossaries of terminology that leverage Linked Data principles for easy look-ups and cross-referencing — enabling enhanced sharing of information and knowledge.



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HOW DO I GET GOING?

- **On Premise** — get installer and 30-day Free Evaluation licenses from our Download Site
- **Docker Container** — get various containers from Docker Hub
- **Cloud** — launch Bring-Your-Own License (BYOL) or Pay-As-You-Go (PAGO) instances in the Amazon Web Services (AWS) or Microsoft Azure Clouds

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ADDITIONAL INFORMATION

- Virtuoso Home Page
- Virtuoso Weblog
- Virtuoso Community Forum

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