

Schema and data visualization

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A project of

Learning objectives

Loading SPHN ontology and mock data into GraphDB

Different types of visualization tasks and techniques

Exploring/visualizing ontology and data with GraphDB

The process of querying and aggregating data for visualization

Mock-data overview



SubjectPseudIdentifier



AllergyEpisode



Substance



snomed:762952008



LabResult



LOINC:6690-2



'Leukocytes'



'Bld'

Visualization tasks and techniques¹

Comparisons

- Bar and pie chart



Hierarchies and relationships

- Circle packing
- Chord diagram
- Node-link visualizations



Temporal or geographical events

- Timeline
- Maps



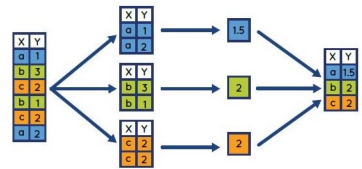
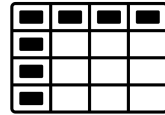
Analysis of multi-dimensional data

- radar and bubble chart



¹Adapted from [Euclid Chapter 4: Interaction with Linked Data](#)

Querying and aggregating data for visualization



Further Information

GraphDB Documentation

- Loading data: <https://graphdb.ontotext.com/documentation/8.4/free/loading-data.html>
- Exploring data: <https://graphdb.ontotext.com/documentation/8.4/free/exploring-data.html>

SPHN Documentation

- Exploratory data analysis with triplestores:
https://sphn-semantic-framework.readthedocs.io/en/latest/user_guide/data_exploration.html

Internet Pages or Courses

- Interaction with Linked Data: <https://euclid-project.eu/modules/chapter4.html>

Thank you for your attention



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