

SPARQL: QUERYING RDF(S)

OBJECTIVES

Learn the basics on SPARQL. Specifically:

- Learn the SPARQL Syntax,
- Understand the main principle behind SPARQL's pattern matching,
- Learn about the SPARQL Entailment Regimes for RDFS,
- Understand how to explore a dataset you are not familiar with by means of querying its schema information.

ACTIVITIES

- Go to the last version of the RDF Query Language document by the W3c: <http://www.w3.org/TR/2013/REC-sparql11-query-20130321/> and read the following sections:
 - 4. SPARQL Syntax,
 - 5. Graph Patterns,
 - 7. Matching Alternatives,
 - 8. Negation,
 - 9. Property Paths (equivalent to Navigational Pattern Matching: i.e., regular expressions on paths),
 - 10. Assignment,
 - 11. Aggregates,
 - 12. Subqueries and
 - 16. Query forms.

Check this material and look for additional resources if it is not enough to grasp the main concepts of SPARQL.

- It is optional, but highly advisable you read about the SPARQL 1.1 entailment regimes (to support RDFS).
 - Section 5 from:

<http://www.w3.org/TR/2013/REC-sparql11-overview-20130321/>

- Section 4 from:

<http://www.w3.org/TR/sparql11-entailment/#RDFSEntRegime>

DELIVERABLES

- **Before** the next lecture (see the deadline), upload the solution to the SPARQL exercise (attached to this event).