- description : Apache Jena
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- lastupdate : 2020-07-24

Apache Jena

- 2000   (Bristol)   HP Labs(HP   )   .
-            (semantic web)   Java   .
-          W3C   RDF, RDFS, RDFa, OWL, SPARQL
                      Java   .
- Jena   OWL   RDFS   '   (a rule-based inference engine)'
                      RDF triples(   )   .

OWL

- OWL : Web Ontology Language, [   ]
-         ,   ,   '
        (Semantic Web Language)'   .
- OWL   .
-                     OWL   ,
                                .
- 😀 OWL

RDF

- Resource Description Framework [   ]
- RDF   .
- RDF is a directed, labeled graph data format for representing information in the Web.
- 😊 RDF

RDFS

- RDF Schema : RDF Vocabulary Description Language 1.0
- RDFS   RDF vocabularies   .
- 😊 RDFS

RDFa

- RDFa : RDF in Attributes, [RDF   ]

- RDFa   HTML5, XHTML, XML   (attributes)
  .

- 😄 RDFa

rule-based inference engine

SPARQL

- SPARQL : Query Language for RDF
- RDF   .
- 😵 SPARQL

TDB

1. RDF   Jena   .
2.   Jena API   .
3.   RDF store   .
4.   TDB2   TDB   TDB1   .
5. TDB1   TDB2   .
6. TDB store   Jena API   .
7. transactions   , TDB   ,
   .
8. TDB   JVM   .   ,
              . TDB 1.1.0   '   JVM
          '   .
9.   TDB   , Fuseki
10. Fuseki   :
    - '   (persistent storage)'   TDB   SPARQL server   .
    - HTTP   ,   , REST update   SPARQL   .

Triples

TURTLE

- Turtle =⇒ Terse RDF Triple Language (RDF   )
- RDF
- Turtle document =⇒ RDF   .
  -          : A Turtle document is a textual representations of an RDF graph.

XSD

- XML Schema Definition : XML
- XML   (element)   (attribute)
                          XML
- XSD   by TCP SCHOOL.com
-

SOH

- SOH : SPARQL Over HTTP
- SPARQL 1.1   .
- HTTP   SPARQL1.1
      .

Ref

[What is Jena?](#)

                    Eclipse   Jena

   , [Jena](#), [Java-framework](#), [Semantic-Web](#)