- description : Apache Jena
- author :
- email : shlim@repia.com
- 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
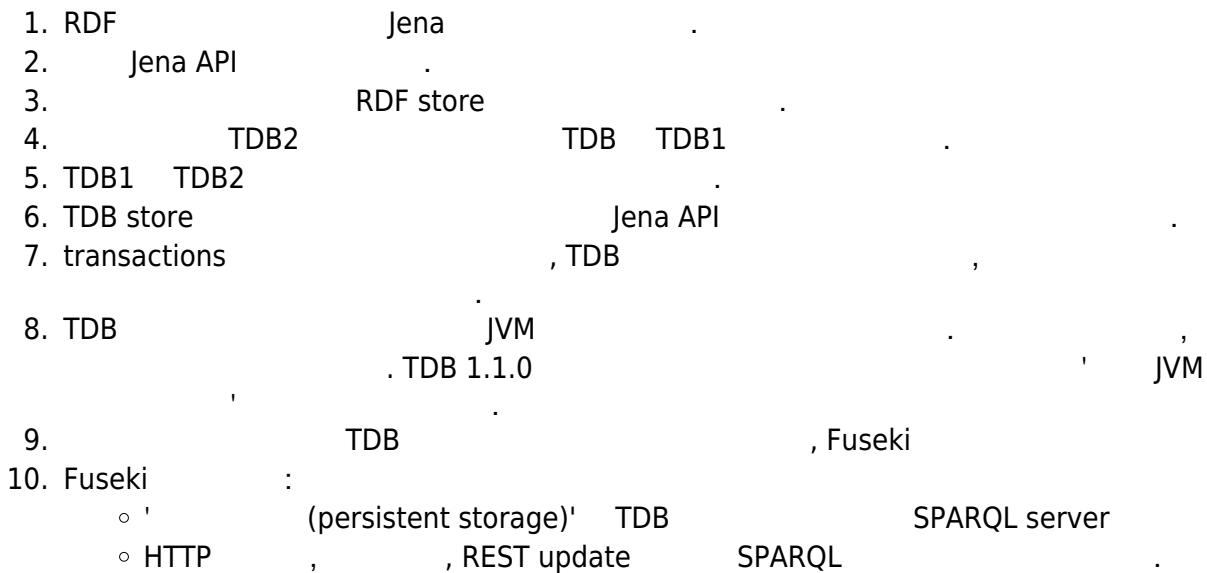- RDFS RDF vocabularies .
- 😀 RDFS

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
-

Ref

[What is Jena?](#)

Eclipse   Jena

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

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