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# **Apache Jena**

• description : Apache Jena

• author:

email : shlim@repia.comlastupdate : 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( )
```

#### **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
- W RDFS

#### **RDFa**

- RDFa: RDF in Attributes, [RDF]
  RDFa HTML5, XHTML, XML (attributes)
- 👙 RDFa

#### **OWL**

• OWL : Web Ontology Language, [

- (Semantic Web Language)
- OWL
- OWL
- <sup>@</sup> OWL

## **SPARQL**

- SPARQL: Query Language for RDF
- RDF
- SPARQL

#### **TDB**

- 1. RDF Jena
- 2. Jena API
- 3.
- 4. TDB2 TDB1

RDF store

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

#### **XSD**

- XML Schema Definition: XML
- XML (element) (attribute) 가

 $\mathsf{XML}$ 

- XSD by TCP SCHOOL.com
- •

## **Triples**

## rule-based inference engine

## Ref

### What is Jena?

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Eclipse

Jena

, Jena, Java-framework, Semantic-Web

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