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# **Apache Jena**

• description : Apache Jena

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# **Apache Jena**

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 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.
- RDF store
- 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**

## rule-based inference engine

## Ref

What is Jena?

Eclipse Jena

, Jena, Java-framework, Semantic-Web

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