

[IT ] (Semantic Web)

1998 10

(<http://www.w3.org/DesignIssues/Semantic.html>)

, , 8 W3C

. 2004 2 RDF(Resource Description Framework;  
) OWL(Ontology Web Language; )

1 , 2

SPARQL, GRDDL, RIF(Rule Interchange Format; )

RDF/OWL

. RDF/OWL

가

RDF OWL

가

RSS(RDF Site Summary, Rich Site Summary; RDF )

RDF

, RSS

RSS

RDF

(domain)

, RDF OWL

가

XHTML

가

, XHTML

RDF/OWL

가

가

가 가 (machine-processable)

가

XHTML

RDF

XHTML

2006

W3C / , GRDDL, RDFa HTML  
 , SPARQL RDF

- GRDDL(Gleaning Resource Descriptions from Dialects of Languages) : XHTML  
 RDF XSLT
- RDFa : XHTML (attribute)  
 XHTML. RDF XHTML 가
- SPARQL : W3C RDF Data Access WG RDF

GRDDL XML (transform) XHTML  
 FOAF(Friend-of-a-Friend), , RSS, hDoap(DOAP(Description of a Project)  
 HTML ) RDF ,  
 XHTML . W3C GRDDL

(<http://www.w3.org/2003/11/rdf-in-xhtml-demo>)

XHTML GRDDL

```
<html xmlns="http://www.w3.org/1999/">
  <head profile="http://www.w3.org/2003/g/data-view">
    <title>Some Document</title>
    <link rel="transformation" href="http:../dc-extract.xsl"/>
    ...
  </head>
  ...
  <span class="date">2006-01-02</span>
  ...
</html>
```

< 1> XHTML GRDDL

```
<rdf:Description rdf:about="...">
  <dc:date>2006-01-02</dc:date>
</rdf:Description>
```

< 2> 1 dc-extract.xsl RDF

GRDDL 1 ,  
 , GRDDL XSLT(XSL Transformation; XSLT)  
 , 2 RDF 가 .

RDFa HTML RDF  
 2006 .

```
<div about="http://uri.to.newstitem">
  <span property="dc:date">March 23, 2004</span>
  <a href="http://www.a.b.c/d.avi" rel="dc:type:MovingImage">
  also video footage</a>...
</div>
```

< 3> XHTML RDFa

```
<http://uri.to.newstitem>
  dc:date "March 23, 2004";
  dc:type:MovingImage <http://www.a.b.c/d.avi>.
```

< 4> 3 RDFa

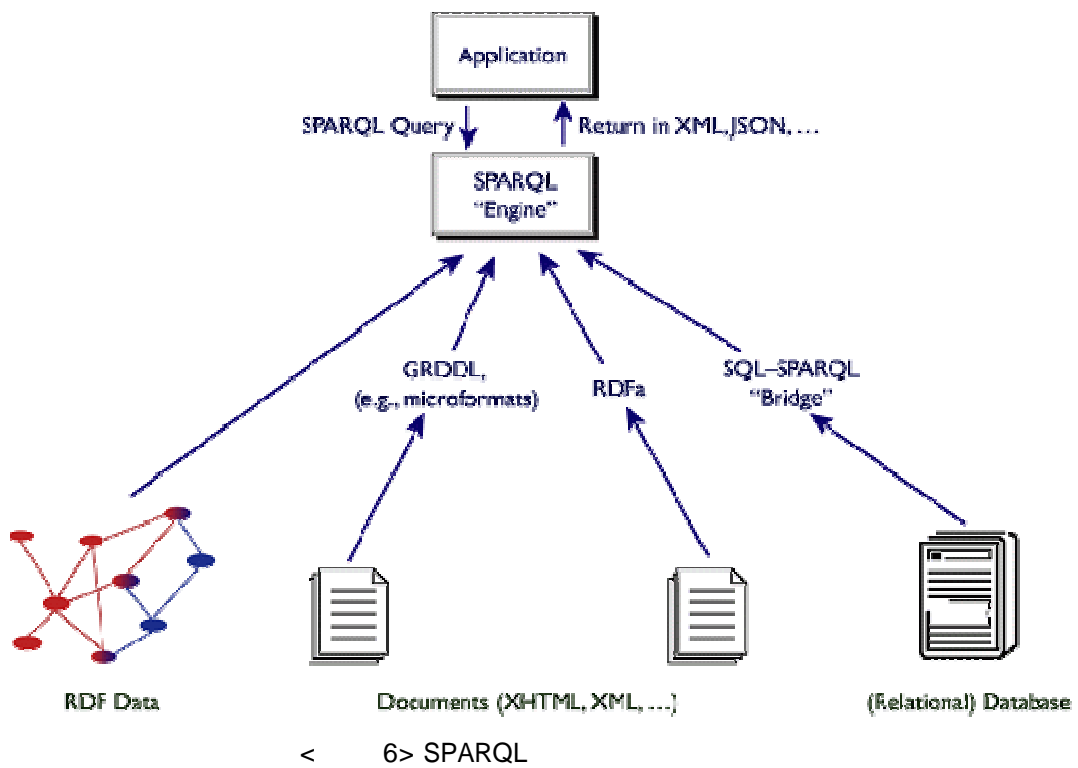
, SPARQL SQL RDF .  
 RDF SELECT , FROM  
 RDF , WHERE .  
 SPARQL http://www.sparql.org/ SPARQL ,  
 SPARQL  
 (http://esw.w3.org/topic/SparqlImplementations) .

```
SELECT DISTINCT ?name ?home ?orgRole ?orgName ?orgHome
FROM <http://www.w3.org/People/Ivan/>
FROM <http://www.w3.org/Member/Mail/>
WHERE {
  ?foafPerson foaf:mbox ?mail;
              foaf:homepage ?home.
}
```

< 5> SPARQL

SPARQL , 가

가 , 가 , W3C  
 SPARQL  
 RDF, RDFa, GRDDL, SPARQL 6  
 SPARQL  
 NCBI(National Center for Biotechnology Information)  
 Alzheimer



“ ”

가 가 , 가 , W3C , XHTML

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( , chan@etri.re.kr)