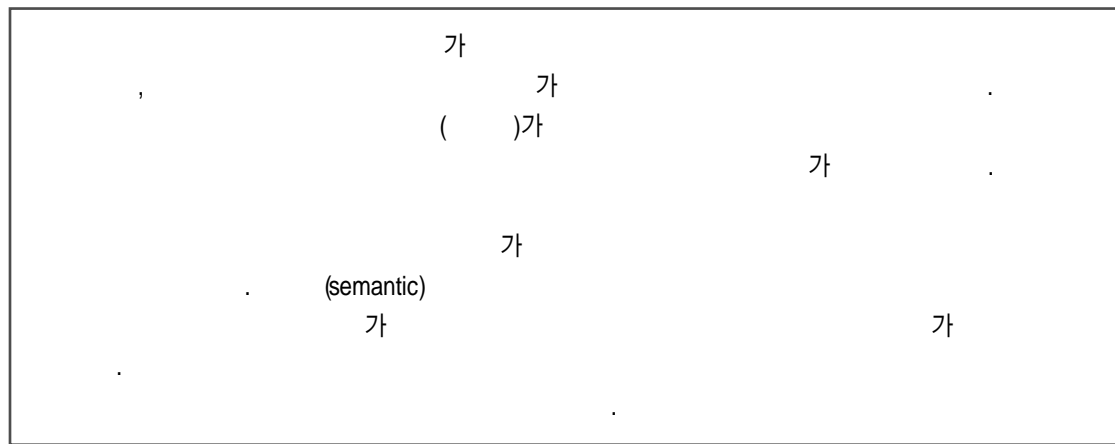


Semantic Web-based utilization of Health information

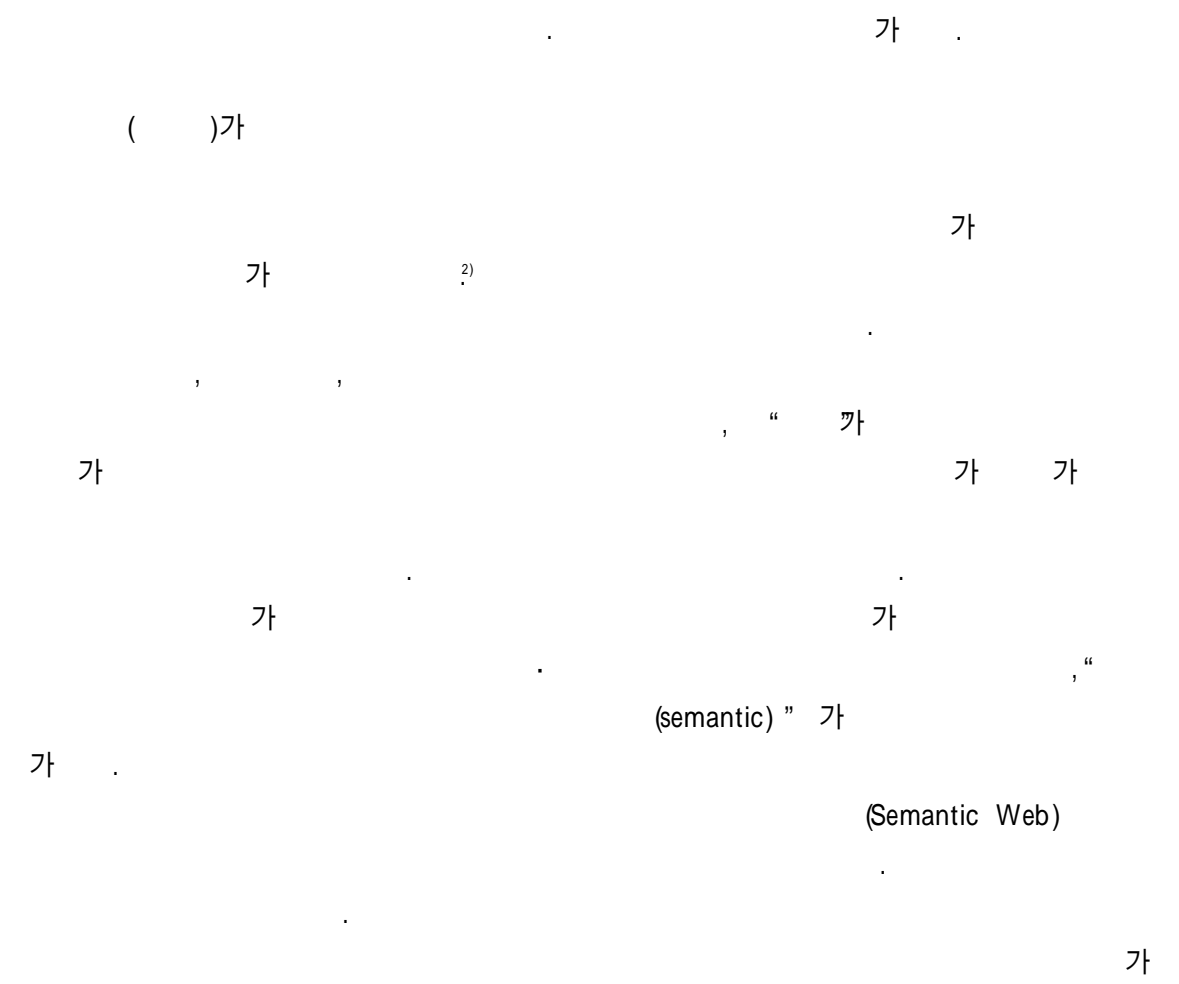
宋泰玟



1.

ARPANET¹⁾
 1989 - 가
 (Tim Berners-Lee)가
 (world-wide-web:) 가
 10
 2000
 2

1) 1969 가 ARPANET "DARPA Internet"



2.

가
 - 1998 가
 2)
 가

HTML

[1]

(layered structure)

RDF, RDFS,

Ontology

Description Framework)

RDF XML

⁴⁾

(metadata)³⁾

RDF(Resource

(

가

(data about data)'

RDF

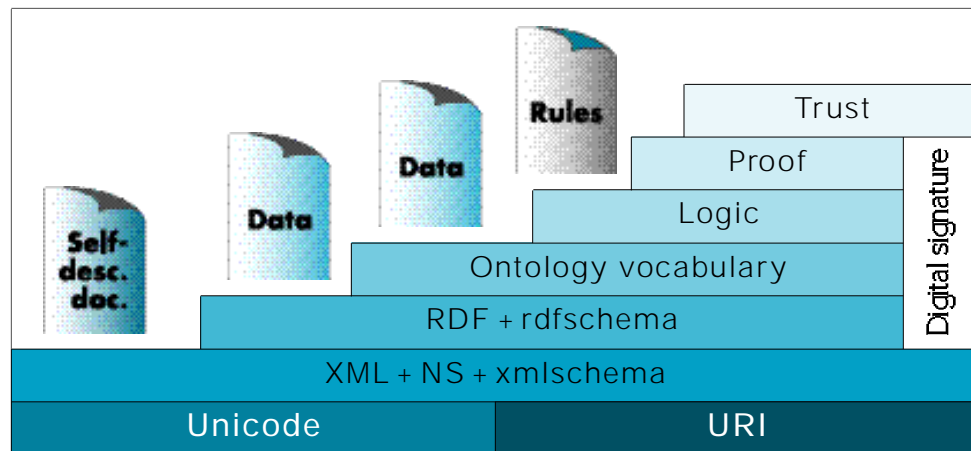
(data describing

web resources)'

RDF

W3C(World Wide Web Condortium)

1.



: www.w3.org/Talks/2001/07/30-swws/slide21-o.html

3)'

가

4) XML

.RDF

(semantics),

(structure),

(syntax)

(Schema)

가

RDF

RDF

(term)

(interoperability)

RDF

RDF

RDF

RDF

,RDF

.RDF

.RDF

RDF

(resource),

(property),

(value)

가

RDF

URI

3)

(Ontology)

(Ontology: on-to-knowledge)

2) RDF

RDF

XML 가

Gruber⁵⁾

(shared conceptualization)

가

(formal and explicit specification)

()

(interpretation)

RDF

XML

5) Gruber, T., "A translation approach to portable ontologies," Knowledge Acquisition, Vol. 5, No. 2, 1993, pp. 199 ~ 220.

6)

(domain) 가 가

가 . 가

가 가 7)

(ontology language) 가 8)

3. 2)

(quality) 가 (metadata)

가

1)

가

9)

6) . , 2003.

7) Jadad & Gagliardi(1998, 2002) 51 (1998 47 , 2002 51)

가

8) (1999) 47 가 가 (, , ,) 가

(2000) 가 7가

(2001, 2002, 2003) 가

10 (2002, 2003) 가

10

9) 1995 (Dublin)

(, , / , , ,)

가 4.

RDF 가

(2003) URL,

가

가

(

25

(2002)

URL,

(),

(),

(), (), 17 1)

10)

10) 2003 12 15)

URN(Uniform Resource Names)

URN

8

UCI(Universal Content Identifier) (UCI,

HTML (meta tag) RDF 가 가

2) RDF 가

(syntax) [2] RDF (text, image, video, link)

2. RDF

```

<rdf:RDF>
  <?xml version=" 1.0 " ?>
  <rdf:RDF xmlns:rdf=" http://www.w3.org/1999/02/22-rdf-syntax-ns# "
    xmlns:rdfs=" http://www.w3.org/2000/01/rdf-schema# ">
    <rdf:description rdf:about=" http://healthguide.or.kr/index.html ">
      <rdfs:title> </rdfs:title>
      <rdfs:creator> </rdfs:creator>
      <rdfs:subject>
        <rdf:Seq>
          <rdf:li> </rdf:li>
          <rdf:li> </rdf:li>
          ...
        </rdf:Seq>
      </rdfs:subject>
    </rdf:description>
  </rdf:RDF>

```

* title, creator, subject

11)

RDF [3] (Class) ' ' 가

subclass ' ; ' ;

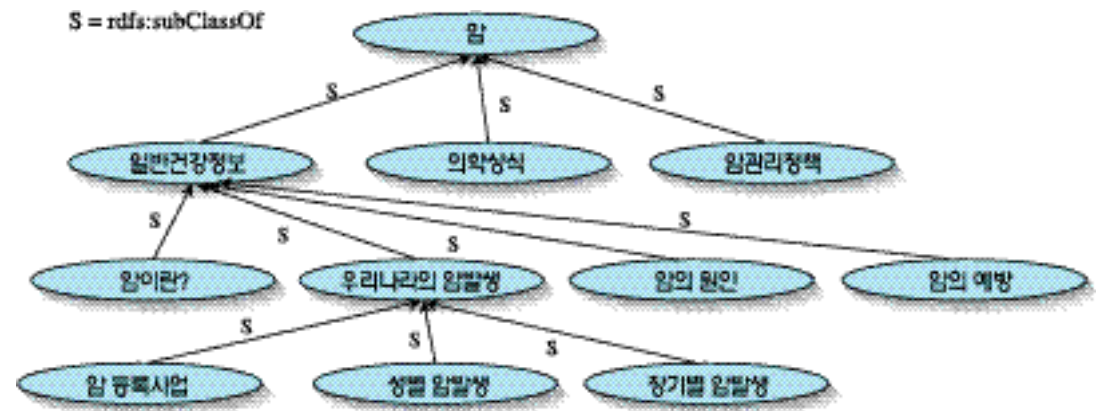
subclass ' ? ; ' ;

subclass ' ; ' ; MeSH (Medical Subject Headings), MEDLINE (Medical Document Retrieval System)

RDF [4] [4] RDF SNOMED (Systematized Nomenclature of Medicine)

가 ' ' ' KM-Tree(Korean Medical Subject

3. () RDF



4. Subclass() RDF (serialization syntax)

```

<rdf:Description ID=" " >
  <rdf:type resource=" http://www.w3.org/2000/01/rdf-schema # Class "/>
  <rdfs:subClassOf
    rdf:resource=" http://www.w3.org/2000/01/rdf-schema # Resource "/>
</rdf:Description>
<rdf:Description ID=" " >
  <rdf:type resource=" http://www.w3.org/2000/01/rdf-schema # Class "/>
  <rdfs:subClassOf rdf:resource=" # " />
</rdf:Description>
<rdf:Description ID=" " >
  <rdf:type resource=" http://www.w3.org/2000/01/rdf-schema # Class "/>
  <rdfs:subClassOf rdf:resource=" # " />
</rdf:Description>
<rdf:Description ID=" " >
  <rdf:type resource=" http://www.w3.org/2000/01/rdf-schema # Class "/>
  <rdfs:subClassOf rdf:resource=" # " />
</rdf:Description>

```

1.

--	--	--

Heading) 가 MeSH 4.

가

12)

가

12)

5.

```

<Ontology>
  <OntoDef>
    <OntoName> </OntoName>
    <Features/>
    <Relation/>
    <Constraints/>
    <OntoDef>
    <OntoName> </OntoName>
    <Features> , , , , </Features>
    <Relation/>
    <Constraints/>
  </Ontology>

```

가

가

가

가

