

Assignment 1 – Semantic Web

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Answer 1.1

1.1

(2.5 points)



Please indicate for each of the following statements whether they are true or false.

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- ☒ true ☐ false “Jaguar” in the context of cars and “Jaguar” in the context of animals have the same syntax but different semantics.
- ☐ true ☐ false The Semantic Web replaces the traditional HTML-based Web.
- ☒ true ☐ false XML data carries formal semantics.
- ☐ true ☒ false All URIs are also URL.
- ☐ true ☒ false New vocabularies can be defined by only using RDF.

Answer 1.2

1.2

(2.5 points)



Complete the following sentences, which refer to building blocks of the Semantic Web layer cake.

URIs are used for **providing a universal naming system for web resources**

XML is used for **describing semi-structured data and is used as an common interchange format**

RDF is used for **describing relationships between URIs using "triples"**

RDF-S and OWL are used for **providing basic vocabulary for relations**

SPARQL is used for **querying RDF data**

Answer 2.1

http://dbpedia.org/person/Ada_Lovelace
http://dbpedia.org/resource/Ada_Lovelace

404

200

404 refers to the url that we are trying to access is not found on server,

200 means that the url has been successfully found on server,

url has been fetched from server and served to the user

Answer 2.2

Source URI	Property URI	Target URI
https://dbpedia.org/page/Chocolate	http://dbpedia.org/ontology/wikiPageWikiLink	http://dbpedia.org/resource/Aztecs
http://dbpedia.org/resource/Aztecs	http://www.w3.org/2000/01/rdf-schema#seeAlso	http://dbpedia.org/resource/Aztec_Empire
http://dbpedia.org/resource/Aztecs	http://dbpedia.org/ontology/wikiPageWikiLink	http://dbpedia.org/resource/Aztec_Empire