**Data interoperability and Semantics - self-assessment**

**https://ci.mines-stetienne.fr/i2si/interop/**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| ***Answer may be yes/no, 1-5 (low-high), or number*** | |
| You understand the importance of using structured, open, interoperable, data formats; |  |
| You know that many data formats exist, you can recognize some of them; |  |
| You know what Mediatypes are, the history, where they are registered |  |
| You know how Mediatypes are structured. type, subtype, parameters |  |
| You know how Mediatypes are used on the web |  |
| You know about different formats for Dates and Times |  |
| You know about the epoch |  |
| You know about the XML Datatypes 1.1 for dates and times |  |
| You know about Base64, Base32, Base16 literals |  |
| You know the pros and cons of these datatypes |  |
| You know about different tabular data formats |  |
| You know what is CSV, TSV, and what the acronym means |  |
| You know about the various CSV and TSV dialects, the parameters |  |
| You can count the number of rows and columns in a CSV file |  |
| You know what JSON is and what the JSON acronym means |  |
| You can recognize JSON files, and identify format errors |  |
| You can write JSON documents and model simple situations wisely in JSON |  |
| You know which are the primitive JSON datatypes and when to use them |  |
| You know how and when to use JSON arrays and objects |  |
| You know what XML is and what the XML acronym means |  |
| You can recognize XML files, and identify format errors |  |
| You can write XML documents and model simple situations wisely in XML |  |
| You know when to use a new tag or attribute |  |
| You know when to group elements |  |
| You know what YAML is and what the YAML acronym means |  |
| You can recognize YAML files, and identify format errors |  |
| You can write YAML documents and model simple situations wisely in YAML |  |
| You can tell where are the lists, and the key-value pairs, in a YAML doc |  |
| You understand the importance and interest of using JSON-LD |  |
| You know what JSONSchema is and what it is used for |  |
| You can recognize JSONSchema documents, and validate a JSON document against the JSONSchema |  |
| You know what JSONPath is and what it is used for |  |
| You can recognize JSONPath queries, and identify format errors |  |
| You can tell what a JSONPath query would match on a given JSON document |  |
| You can write JSONPath queries to answer simple questions on a given JSON document |  |
| You know what XPath is and what it is used for |  |
| You can recognize XPath queries, and identify format errors |  |
| You can write XPath queries to answer simple questions on a given XML document |  |
| You can tell what a XPath query would match on a given XML document |  |
| You know why and how JSON and XML documents can be mapped to Java objects |  |