



WEB TECHNOLOGIES

XML vs. JSON

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- XML stands for “extensible markup language”.
- XML was designed in 1996 and officially became a W3C standard in 1998.
- It was created to better represent data formats with a hierarchical structure.

XML vs. JSON

JSON



- JSON stands for (Javascript Object Notation).
- It was invented in 2001 and became popularized by Yahoo and Google in 2005 and 2006.
- It was created as an alternative to XML. Like XML, however, it represents hierarchical data with the use of commas, curly braces and brackets.

XML vs. JSON

Format

XML

```
<empinfo>
  <employees>
    <employee>
      <name>James Kirk</name>
      <age>40</age>
    </employee>
    <employee>
      <name>Jean-Luc Picard</name>
      <age>45</age>
    </employee>
    <employee>
      <name>Wesley Crusher</name>
      <age>27</age>
    </employee>
  </employees>
</empinfo>
```

JSON

```
{ "empinfo" :
  {
    "employees" : [
      {
        "name" : "James Kirk",
        "age" : 40,
      },
      {
        "name" : "Jean-Luc Picard",
        "age" : 45,
      },
      {
        "name" : "Wesley Crusher",
        "age" : 27,
      }
    ]
  }
}
```

XML vs. JSON

Differences

JSON	XML
Based on JavaScript language	Derived from SGML
Way of representing objects	Markup language to represent data items
No support for namespaces	Supports namespaces
Support arrays	Doesn't support arrays
Files are very easy to read as compared to XML	Documents are comparatively difficult to read and interpret
Doesn't use end tag	Has start and end tags
Less secure	More secured than JSON
Doesn't supports comments	Supports comments
Supports only UTF-8 encoding	Supports various encoding



THANK YOU

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