

JSON

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Introduction

- JSON (JavaScript Object Notation) is a lightweight data-interchange format.
- It is easy for humans to read and write.
- It is easy for machines to parse and generate.
- It is based on a subset of the JavaScript Programming Language.
- JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others.
- These properties make JSON an ideal data-interchange language.
 - Two Structures:
 - A collection of name/value pairs.
 - An ordered list of values.
- Validator: https://jsonformatter.org/?utm_content=cmp-true

https://www.json.org/json-en.html

Datatypes

- Number: a signed decimal number (integer / floating-point).
- { "age":50 }
- String: a sequence of zero or more Unicode characters. Strings are delimited with double quotation marks and support a backslash escaping syntax.
- . { "firstname":"Thomas" }
- Boolean: either of the values true or false
- . { "married":true }
- Array: an ordered list of zero or more elements, each of which may be of any type.
- { "subject" : ["POS", "DBI", "FAA"] }
- Object: a collection of name-value pairs where the names (also called keys) are strings.
- { "partner" : { "name":"Andrea", "age":50 } }
- https://en.wikipedia.org/wiki/JSON null: an empty value using the word null.

```
{"menu": {
  "id": "file",
  "value": "File",
  "popup": {
    "menuitem": [
                                                              JSON
      {"value": "New", "onclick": "CreateNewDoc()"},
      {"value": "Open", "onclick": "OpenDoc()"},
      {"value": "Close", "onclick": "CloseDoc()"}
<menu id="file" value="File">
  <popup>
    <menuitem value="New" onclick="CreateNewDoc()" />
                                                               XML
    <menuitem value="Open" onclick="OpenDoc()" />
    <menuitem value="Close" onclick="CloseDoc()" />
  </popup>
</menu>
                         https://json.org/example.html
```

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