

JSON PARSE & STRINGIFY

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JSON

- **JavaScript Object Notation**
- **Used for structuring data**
- **Transmits data between a server and web applications**
- **Alternative to XML**

```
1 <!--JSON-->
2 "family":
3 {
4     "husband": "Michael",
5     "wife": "Ashley",
6     "age": 33,
7     "kids": [
8         { "name": "Grant", "age": 6 },
9         { "name": "Remi", "age": 4 },
10        { "name": "Sawyer", "age": 2 },
11        { "name": "Hyrum", "age": 0 },
12        { "name": "Spencer", "age": 0 }
13    ]
14 }
```

```
1 <!--XML-->
2 <family>
3     <husband>Michael</husband>
4     <wife>Ashley</wife>
5     <kids>
6         <kid>
7             <name>Grant</name><age>6</age>
8         </kid>
9         <kid>
10            <name>Remi</name><age>4</age>
11        </kid>
12        <kid>
13            <name>Sawyer</name><age>2</age>
14        </kid>
15        <kid>
16            <name>Hyrum</name><age>0</age>
17        </kid>
18        <kid>
19            <name>Spencer</name><age>0</age>
20        </kid>
21     </kids>
22 </family>
```

JSON VS XML

Both are readable, hierarchical, used by lots of programming languages

- XML has to parsed with XML parser
- JSON parsed by JavaScript function
- JSON quicker to read and write
- JSON uses more data types

JSON DATA TYPES AND SYNTAX

```
{
```

```
  "info" : { "name" : "Michael" ,
```

```
    "age" : 33 ,
```

```
    "internship" = null ,
```

```
    "married" = true ,
```

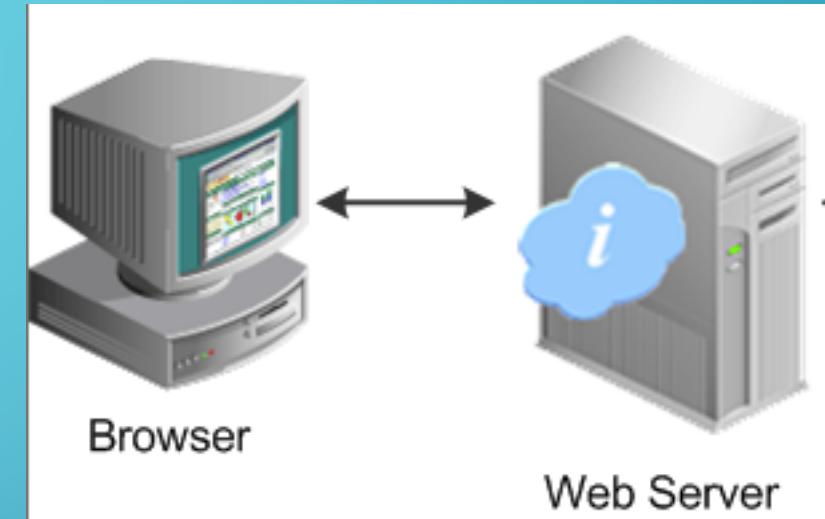
```
    "hobbies": [ "guitar", "sports", "film" ] }
```

```
}
```

PARSE & STRINGIFY

**JSON most commonly used to transfer data
to and from the web server.**

The data must be in the form of string.



JSON.parse() converts the data to a JavaScript object

JSON.stringify() converts a JavaScript object into a string

```
var info = { "name": "Michael",
            "age": 33,
            "internship" = null,
            "married" = true,
            "hobbies": [ "guitar", "sports", "film" ] }
```

```
var obj = JSON.parse(info);
var myJSON = JSON.stringify(info);
```