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Website Templates







JSON Syntax





The JSON syntax is a subset of the JavaScript syntax.

JSON Syntax Rules

JSON syntax is derived from JavaScript object notation syntax:

- Data is in name/value pairs
- Data is separated by commas
- · Curly braces hold objects
- Square brackets hold arrays

JSON Data - A Name and a Value

JSON data is written as name/value pairs.

A name/value pair consists of a field name (in double quotes), followed by a colon, followed by a value:

Example

"name":"John"

JSON names require double quotes. JavaScript names don't.

JSON - Evaluates to JavaScript Objects

The JSON format is almost identical to JavaScript objects.

In JSON, keys must be strings, written with double quotes:



JSON Values

In JSON, values must be one of the following data types:

- a string
- a number
- an object (JSON object)
- an array
- a boolean
- null

In JavaScript values can be all of the above, plus any other valid JavaScript expression, including:

- a function
- a date
- undefined

In JSON, string values must be written with double quotes:

```
JSON
{ "name":"John" }
```

In JavaScript, you can write string values with double $\it or$ single quotes:

```
JavaScript
{ name:'John' }
```



Because JSON syntax is derived from JavaScript object notation, very little extra software is needed to work with JSON within JavaScript.

With JavaScript you can create an object and assign data to it, like this:

```
Example
var person = { "name":"John", "age":31, "city":"New York" };
```

You can access a JavaScript object like this:

```
Example

// returns John
person.name;

Try it Yourself »
```

It can also be accessed like this:

```
Example

// returns John
person["name"];

Try it Yourself »
```

Data can be modified like this:

```
Example
person.name = "Gilbert";

Try it Yourself »
```

It can also be modified like this:

```
Example
person["name"] = "Gilbert";
```



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