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JSON Objects

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Object Syntax

Example

```
{ "name":"John", "age":30, "car":null }
```

JSON objects are surrounded by curly braces {}.

JSON objects are written in key/value pairs.

Keys must be strings, and values must be a valid JSON data type (string, number, object, array, boolean or null).

Keys and values are separated by a colon.

Each key/value pair is separated by a comma.

Accessing Object Values

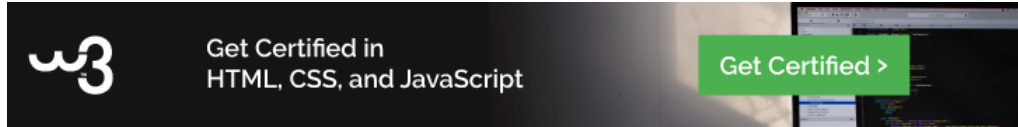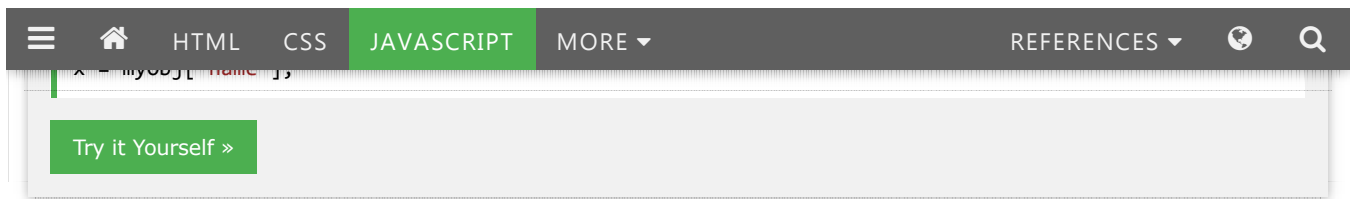You can access the object values by using dot (.) notation:

Example

```
myObj = { "name":"John", "age":30, "car":null };
x = myObj.name;
```

Try it Yourself »

You can also access the object values by using bracket ([]) notation:

Example

x = myObj[name];

Try it Yourself »

Looping an Object

You can loop through object properties by using the for-in loop:

Example

```
myObj = { "name":"John", "age":30, "car":null };
for (x in myObj) {
    document.getElementById("demo").innerHTML += x;
}
```

Try it Yourself »

In a for-in loop, use the bracket notation to access the property *values*:

Example

```
myObj = { "name":"John", "age":30, "car":null };
for (x in myObj) {
    document.getElementById("demo").innerHTML += myObj[x];
}
```
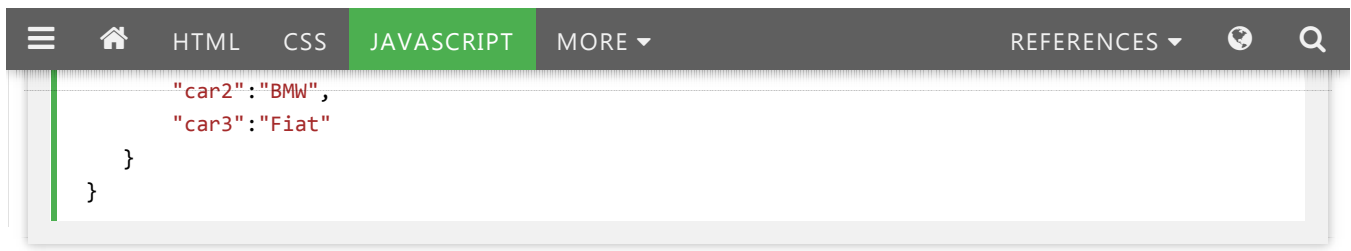
Try it Yourself »

Nested JSON Objects

Values in a JSON object can be another JSON object.

Example

```
myObj = {
    "name":"John",
    "age":30,
```

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```
        "car2":"BMW",
        "car3":"Fiat"
    }
}
```

You can access nested JSON objects by using the dot notation or bracket notation:

Example

```
x = myObj.cars.car2;
//or:
x = myObj.cars["car2"];
```

Try it Yourself »

Modify Values

You can use the dot notation to modify any value in a JSON object:

Example

```
myObj.cars.car2 = "Mercedes";
```

Try it Yourself »

You can also use the bracket notation to modify a value in a JSON object:

Example

```
myObj.cars["car2"] = "Mercedes";
```

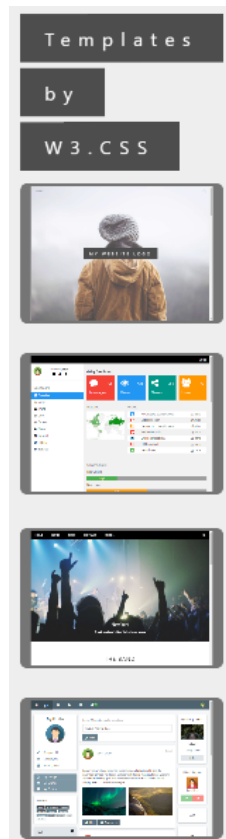Try it Yourself »

Delete Object Properties

Use the delete keyword to delete properties from a JSON object:

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```
delete myObj.cars.car2;
```

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