JSON Function Files

A common use of JSON is to read data from a web server, and display the data in a web page.
This chapter will teach you, in 4 easy steps, how to read JSON data, using function files.

JSON Example

This example reads a menu from **myTutorials.js**, and displays the menu in a web page:

JSON Example

```html
<div id="id01"></div>




<script>

function myFunction(arr) {

    var out = "";

    var i;

    for(i = 0; i<arr.length; i++) {

    out += '<a href="' + arr[i].url + '">' + arr[i].display +
'</a><br>';

    }

    document.getElementById("id01").innerHTML = out;

}
```

```
</script>
```

```
<script src="myTutorials.js"></script>
```

Example Explained

1: Create an array of objects.
Use an **array literal** to declare an **array** of **objects**.
Give each object two properties: **display** and **url**.
Name the array **myArray**:

myArray

```
var myArray = [

{

"display": "JavaScript Tutorial",

"url": "https://www.w3schools.com/js/default.asp"

},

{

"display": "HTML Tutorial",

"url": "https://www.w3schools.com/html/default.asp"

},

{

"display": "CSS Tutorial",
```

```
      "url": "https://www.w3schools.com/css/default.asp"

   }

]
```

2: Create a JavaScript function to display the array.
Create a function **myFunction()** that loops the array objects, and display
the content as HTML links:

myFunction()

```javascript
function myFunction(arr) {

    var out = "";

    var i;

    for(i = 0; i < arr.length; i++) {

     out += '<a href="' + arr[i].url + '">' + arr[i].display +
'</a><br>';

    }

    document.getElementById("id01").innerHTML = out;

}
```

Call **myFunction()** with **myArray** as argument:

Example

```javascript
myFunction(myArray);
```

Try it Yourself »

**3: Use an array literal as the argument (instead of the array
variable):**
Call **myFunction()** with an array **literal** as argument:

Calling myFunction()

```
myFunction([

{

"display": "JavaScript Tutorial",

"url": "https://www.w3schools.com/js/default.asp"

},

{

"display": "HTML Tutorial",

"url": "https://www.w3schools.com/html/default.asp"

},

{

"display": "CSS Tutorial",

"url": "https://www.w3schools.com/css/default.asp"

}

]);
```

4: Put the function in an external js file
Put the function in a file named **myTutorials.js**:

myTutorials.js

```
myFunction([
```

```
{

"display": "JavaScript Tutorial",

"url": "https://www.w3schools.com/js/default.asp"

},

{

"display": "HTML Tutorial",

"url": "https://www.w3schools.com/html/default.asp"

},

{

"display": "CSS Tutorial",

"url": "https://www.w3schools.com/css/default.asp"

}

]);
```

Add the external script to your page (instead of the function call):

Add External Script

```
<script src="myTutorials.js"></script>
```

Try it Yourself »