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Sort a JSON Array Programmatically by a Property



Sibeesh Passion, 16 Jun 2015

CPOL

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Sort a JSON Array Programmatically by a Property



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Introduction

In this post, we will learn how to sort a JSON object by its property. We will be using normal jQuery features to do this. I hope you will like it.

Background

Yesterday, I had a situation where I needed to sort my JSON object that I am creating using server data. So I thought of sharing that with you all.

Using the Code

First of all, we will add a jQuery reference as in the following:

Hide Copy Code

```
<script src="jquery-2.1.4.min.js"></script>
```

Now we need some, data right? Please have a look at the following JSON data.

Hide Copy Code

```
var data = [&lt;{&quot;name:&quot;:2014,&quot;data:&quot;:[{&quot;x:&quot;:1&Prime;,&quot;y:&quot;:222808746.81}],&quot;name:&quot;:2013,&quot;data:&quot;:[{&quot;x:&quot;:2&Prime;,&quot;y:&quot;:289647045.18}],&quot;name:&quot;:2014,&quot;data:&quot;:[{&quot;x:&quot;:2&Prime;,&quot;y:&quot;:285136890.07}]}],&quot;name:&quot;:2013,&quot;data:&quot;:
```

```
[{"name": "2014", "data": 370853178.74}, {"name": "2012", "data": 403272964.28}, {"name": "2010", "data": 217294031.36}, {"name": "2008", "data": 224715039.94}, {"name": "2006", "data": 249034460.23}, {"name": "2004", "data": 215978054.15}, {"name": "2002", "data": 241211810.92}]]>
```

Next, we need some UI elements. Am I right?

[Hide](#) [Copy Code](#)

```
<div id="unsorted"></div>
<div id="sorted"></div>
<button id="makemesort">Make Me Sort</button>
```

What next? We need to show this data to our UI, right? For that, I am calling a function in our document ready function.

[Hide](#) [Copy Code](#)

```
var jsonObject;
$(function () {
    $("#sorted").hide();
    loadUnsorted();
    $("#makemesort").click(function () {
        loadSorted();
        $("#makemesort").hide();
        $("#sorted").show();
    });
});
```

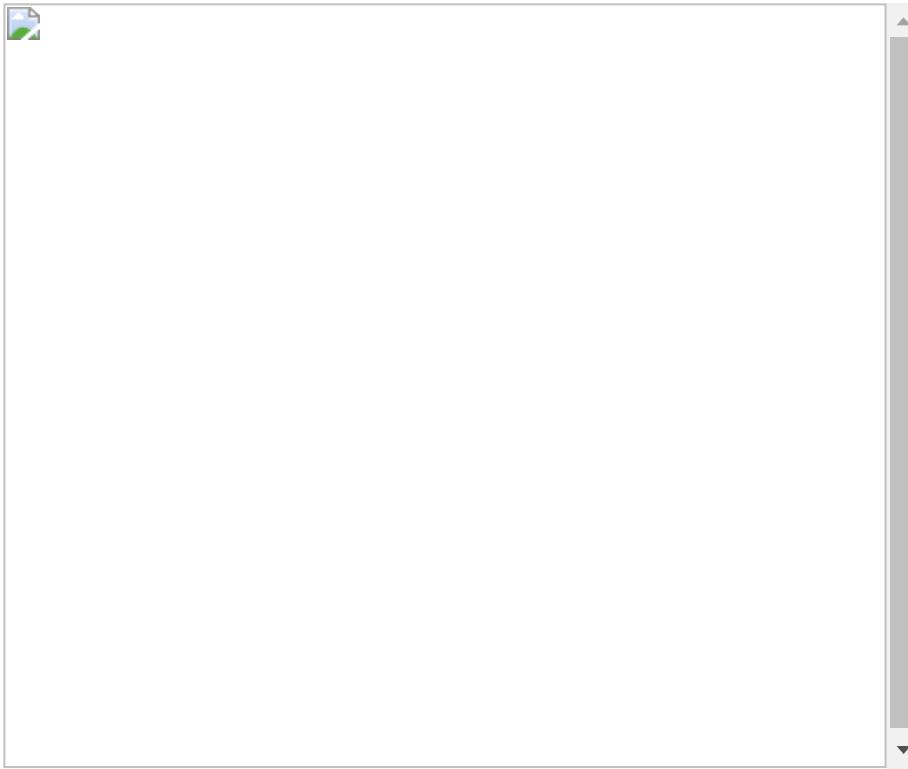
The following is the function definition for the **loadUnsorted()** function.

[Hide](#) [Copy Code](#)

```
function loadUnsorted() {
    jsonObject = $.parseJSON(data);
    var html = "<table><thead><th>Year</th>
```

What we are doing here is parsing our data and appending the data to our UI element using a **for** loop.

Now if you run it, you will get output as follows:



Now we have successfully formatted our data and shown it to our UI. Cool, right?

So shall we go and sort our data? I guess you said "Yes". Awesome.

Now, we will create a click event for our "Make me sort" button as in the following:

[Hide](#) [Copy Code](#)

```
$(&lsquo;#makemesort&rsquo;).click(function () {  
    loadSorted();  
    $(&lsquo;#makemesort&rsquo;).hide();  
    $(&lsquo;#sorted&rsquo;).show();  
});
```

So here is the definition for the **loadSorted()** function.

[Hide](#) [Copy Code](#)

```
function loadSorted() {  
    jsonObject.sort(SortMe);  
    var html = &lsquo;<table><th>Year</th>
```

Now, I guess you could determine the difference of both the **loadSorted()** and **loadUnsorted()** functions. Yeah, you are right. I am calling a sort function "**sortMe**" there.

[Hide](#) [Copy Code](#)

```
function SortMe(a, b) {  
    if (b.name != null && b.name != undefined && a.name != null && a.name != undefined) {  
        var First = a.name.toString().toLowerCase();  
        var Second = b.name.toString().toLowerCase();  
        return ((First < Second) ? -1 : ((First > Second) ? 1 : 0));  
    }  
}
```

What our "**sortMe**" function does is, it will take two objects at a time and compare those by the property "**name**" of each object.

[Hide](#) [Copy Code](#)

```
(First < Second) ? -1 : ((First > Second) ? 1 : 0)
```

Now, shall we look into the complete code? We have done everything folks.

Complete Code

```

<!DOCTYPE html>
<html>
<head>
    <title>Sort JSON Object by its property and show demo &ndash; Sibeesh Passion</title>
    <script src="jquery-2.1.4.min.js"></script>
    <style>
        #unsorted {
            border: 1px solid #999;
            width: 220px;
            padding: 10px;
            float: left;
        }
        #sorted {
            border: 1px solid #999;
            width: 220px;
            padding: 10px;
            float: left;
        }
        td {
            border: 1px solid #ccc;
            padding: 5px;
            text-align: center;
        }
    </style>
    <script>
        var data = [&lsquo;[{"name": "2014", "data": [{"x": 1, "y": 222808746.81}], "name": "2013", "data": [{"x": 2, "y": 289647045.18}], "name": "2014", "data": [{"x": 2, "y": 285136890.07}], "name": "2013", "data": [{"x": 3, "y": 370853178.74}], "name": "2014", "data": [{"x": 3, "y": 403272964.28}], "name": "2012", "data": [{"x": 4, "y": 217294031.36}], "name": "2013", "data": [{"x": 4, "y": 224715039.94}], "name": "2014", "data": [{"x": 5, "y": 249034460.23}], "name": "2012", "data": [{"x": 5, "y": 215978054.15}], "name": "2013", "data": [{"x": 5, "y": 241211810.92}]}]&rsquo;;
        var jsonObject;
        $(function () {
            $('#sorted').hide();
            loadUnsorted();
            $('#makemesort').click(function () {
                loadSorted();
                $('#makemesort').hide();
                $('#sorted').show();
            });
        });
        function loadUnsorted() {
            jsonObject = $.parseJSON(data);
            var html = '<table><thead><th>Year</th><th>X Value</th><th>Y Value</th></thead><tbody>';
            for (i = 0; i < jsonObject.length; i++) {
                html += '<tr><td>' + jsonObject[i].name +
                    '</td><td>' + jsonObject[i].data[0].x + '</td><td>' + jsonObject[i].data[0].y + '</td></tr>';
            }
            html += '</tbody></table>';
            $('#unsorted').append(html);
        }
        function loadSorted() {
            jsonObject.sort(SortMe);
            var html = '<table><thead><th>Year</th><th>X Value</th><th>Y Value</th></thead><tbody>';
            for (i = 0; i < jsonObject.length; i++) {

```

```

        html += &lsquo;<tr><td>&rsquo; +
        jsonObject[i].name + &lsquo;</td><td>&rsquo; +
        jsonObject[i].data[0].x + &lsquo;</td><td>&rsquo; +
        jsonObject[i].data[0].y + &lsquo;</td></tr>&rsquo;;
    }
    html += &lsquo;</table>&rsquo;;
    $(&lsquo;#sorted&rsquo;).append(html);
}
function SortMe(a, b) {
    if (b.name != null && b.name != undefined &&
    a.name != null && a.name != undefined) {
        var First = a.name.toString().toLowerCase();
        var Second = b.name.toString().toLowerCase();
        return ((First < Second) ? -1 : ((First > Second) ? 1 : 0));
    }
}
</script>
</head>
<body>
    <div id=&ldquo;unsorted&rdquo;></div>
    <div id=&ldquo;sorted&rdquo;></div>
    <button id=&ldquo;makemesort&rdquo;>Make Me Sort</button>
</body>
</html>

```

So now, it is time to see our output. I am eager to see it.



You can find we have sorted our object and shown it in a separate table. Cool.
That is all for the day. I will return with another article soon.

Conclusion

I hope you liked this article. Please share your valuable thoughts and comments. Your feedback is always welcome. Thanks in advance. Happy coding!

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Thanks a lot dear 😊



=====!!!=====

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Kindest Regards

Sibeesh

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