

## DataTables四种数据源

DataTables是一款非常简单的前端表格展示插件，它支持排序，翻页，搜索以及在客户端和服务端分页等多种功能。官方介绍：

DataTables is a plug-in for the jQuery Javascript library. It is a highly flexible tool, based upon the foundations of progressive enhancement, and will add advanced interaction controls to any HTML table.

它的数据源有很多种：主要有HTML (DOM)数据源，Ajax数据源，JavaScript数据源以及服务器端数据源。这里分别介绍一下这四种数据源的使用。

首先需要在你的html代码引入以下的js和css文件：jquery-1.11.1.min.js、jquery.dataTables.min.js以及jquery.dataTables.css。

### 一、HTML (DOM) sourced data

HTML表格数据如下：

```
<table id="example" class="display" cellspacing="0" width="100%">
  <thead>
    <tr>
      <th>Name</th>
      <th>Position</th>
      <th>Office</th>
      <th>Age</th>
      <th>Start date</th>
      <th>Salary</th>
    </tr>
  </thead>

  <tbody>
    <tr>
      <td>Tiger Nixon</td>
      <td>System Architect</td>
      <td>Edinburgh</td>
      <td>61</td>
      <td>2011/04/25</td>
      <td>$320,800</td>
    </tr>
    <tr>
```

```

        <td>Garrett Winters</td>
        <td>Accountant</td>
        <td>Tokyo</td>
        <td>63</td>
        <td>2011/07/25</td>
        <td>$170,750</td>
    </tr>
</tbody>
</table>

```

然后加入JavaScript代码：

```

$(document).ready(function() {
    $('#example').dataTable();
});

```

| Name               | Position                    | Office        | Age | Start date | Salary    |
|--------------------|-----------------------------|---------------|-----|------------|-----------|
| Tiger Nixon        | System Architect            | Edinburgh     | 61  | 2011/04/25 | \$320,800 |
| Garrett Winters    | Accountant                  | Tokyo         | 63  | 2011/07/25 | \$170,750 |
| Ashton Cox         | Junior Technical Author     | San Francisco | 66  | 2009/01/12 | \$86,000  |
| Cedric Kelly       | Senior Javascript Developer | Edinburgh     | 22  | 2012/03/29 | \$433,060 |
| Airi Satou         | Accountant                  | Tokyo         | 33  | 2008/11/28 | \$162,700 |
| Brielle Williamson | Integration Specialist      | New York      | 61  | 2012/12/02 | \$372,000 |
| Herrod Chandler    | Sales Assistant             | San Francisco | 59  | 2012/08/06 | \$137,500 |
| Rhona Davidson     | Integration Specialist      | Tokyo         | 55  | 2010/10/14 | \$327,900 |
| Colleen Hurst      | Javascript Developer        | San Francisco | 39  | 2009/09/15 | \$205,500 |
| Sonya Frost        | Software Engineer           | Edinburgh     | 23  | 2008/12/13 | \$103,600 |
| Jena Gaines        | Office Manager              | London        | 30  | 2008/12/19 | \$90,560  |

```
$(document).ready(function() { $('#example').dataTable(); } );
```

## 二、 Ajax sourced data

Datatable可以解析来自Ajax的Json数据：  
HTML代码如下：

```
<table id="example1" class="display" cellspacing="0" width="100%">
  <thead>
    <tr>
      <th>Name</th>
      <th>Position</th>
      <th>Office</th>
      <th>Extn.</th>
      <th>Start date</th>
      <th>Salary</th>
    </tr>
  </thead>

  <tfoot>
    <tr>
      <th>Name</th>
      <th>Position</th>
      <th>Office</th>
      <th>Extn.</th>
      <th>Start date</th>
      <th>Salary</th>
    </tr>
  </tfoot>
</table>
```

JavaScript代码：

```
$(document).ready(function() {
  $('#example1').dataTable( {
    "ajax": '/wp-content/themes/yusi2.0/dataTable/arrays.txt'
  } );
});
```

| Name | Position | Office | Extn. | Start date | Salary |
|------|----------|--------|-------|------------|--------|
| Name | Position | Office | Extn. | Start date | Salary |

```
$(document).ready(function() { $('#example1').dataTable( { "ajax": '/wp-content/themes/yusi2.0/dataTable/arrays.txt' } ); });
```

### 三、Javascript sourced data

在很多时候，我们的数据都是动态生成的，dataTable支持读取和解析JavaScript中的数组。我们只需要将JavaScript数组传递给dataTable的data属性即可。  
JavaScript代码：

```
<table cellpadding="0" cellspacing="0" border="0" class="display" id="example2"></table>
var dataSet = [
    ['Trident','Internet Explorer 4.0','Win 95+', '4','X'],
    ['Trident','Internet Explorer 5.0','Win 95+', '5','C'],
    ['Trident','Internet Explorer 5.5','Win 95+', '5.5','A'],
    ['Trident','Internet Explorer 6','Win 98+', '6','A'],
    ['Trident','Internet Explorer 7','Win XP SP2+', '7','A'],
    ['Trident','AOL browser (AOL desktop)','Win XP', '6','A'],
    ['Gecko','Firefox 1.0','Win 98+ / OSX.2+', '1.7','A'],
    ['Gecko','Firefox 1.5','Win 98+ / OSX.2+', '1.8','A'],
    ['Gecko','Firefox 2.0','Win 98+ / OSX.2+', '1.8','A'],
    ['Gecko','Firefox 3.0','Win 2k+ / OSX.3+', '1.9','A'],
    ['Gecko','Camino 1.0','OSX.2+', '1.8','A'],
];

$(document).ready(function() {
    $('#example2').dataTable( {
        "data": dataSet,
        "columns": [
            { "title": "Engine" },
            { "title": "Browser" },
            { "title": "Platform" },
            { "title": "Version", "class": "center" },
            { "title": "Grade", "class": "center" }
        ]
    });
});
```

```
var dataSet = [ ['Trident','Internet Explorer 4.0','Win 95+', '4','X'], ['Trident','Internet Explorer 5.0','Win 95+', '5','C'], ['Trident','Internet Explorer 5.5','Win 95+', '5.5','A'], ['Trident','Internet Explorer 6','Win 98+', '6','A'], ['Trident','Internet Explorer 7','Win XP SP2+', '7','A'], ['Trident','AOL browser (AOL desktop)','Win XP', '6','A'], ['Gecko','Firefox 1.0','Win 98+ / OSX.2+', '1.7','A'] ];
$(document).ready(function() { $('#example2').dataTable( { "data": dataSet, "columns": [ { "title": "Engine" }, { "title": "Browser" }, { "title": "Platform" }, { "title": "Version", "class": "center"
```

```
}, { "title": "Grade", "class": "center" } ] } ); } );
```

## 四、Server-side processing

这种是最常见的数据来源，我们在服务器端生成需要的数据（一般都是Json格式的），然后返回给前端。而且这种情况我们可以利用dataTable的服务器端翻页。JavaScript代码：如下：HTML代码如下：

```
<table id="example" class="display" cellspacing="0" width="100%">
  <thead>
    <tr>
      <th>Name</th>
      <th>Position</th>
      <th>Office</th>
      <th>Extn.</th>
      <th>Start date</th>
      <th>Salary</th>
    </tr>
  </thead>

  <tfoot>
    <tr>
      <th>Name</th>
      <th>Position</th>
      <th>Office</th>
      <th>Extn.</th>
      <th>Start date</th>
      <th>Salary</th>
    </tr>
  </tfoot>
</table>
```

```
$(document).ready(function() {
  $('#example').dataTable( {
    "processing": true,
    "serverSide": true,
    "ajax": "../processing.php"
  });
});
```

更详细的介绍请参见官方文档:[http://www.datatables.net/examples/data\\_sources/](http://www.datatables.net/examples/data_sources/)

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