Riak & jQuery DataTables Will they blend?



Tutorial Combining Two Awesome Technologies 2015

Agenda

- jQuery DataTables
 - Getting Started
 - Overview of Features
- Riak
 - Overview and Demo
- Will they blend?
- Helpful Resources

What is it?

- DataTables is a plug-in for jQuery JavaScript Library
- Highly flexible tool to add interactive controls to HTML tables
- Open Source MIT license
- Available for free!

Getting Started in 3 Steps

Step 1: Add references to the library

```
<link rel="stylesheet" type="text/css" href="http://cdn.datatables.net/1.10.5/css/jquery.dataTables.css">
        <script type="text/javascript" charset="utf8" src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
        <script type="text/javascript" charset="utf8" src="http://cdn.datatables.net/1.10.5/js/jquery.dataTables.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script
```

Step 2: Create a HTML table

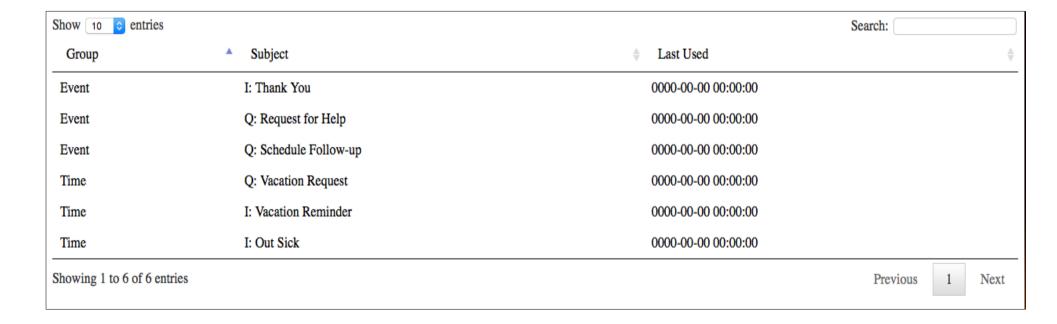
```
<thead>
  Group
   Subject
   Last Used
  </thead>
 Event I: Thank You 0000-00-00 00:00:00
 Event Q: Request for Help 0000-00-00 00:00:00
 Event Q: Schedule Follow-up 0000-00-00 00:00:00
 Time Q: Vacation Request 0000-00-00 00:00:00
 Time I: Vacation Reminder 0000-00-00 00:00:00
 Time I: Out Sick 0000-00-00 00:00:00
```

Getting Started in 3 Steps

Step 3: Activate the library for your table

```
<script>
  $(document).ready(function () {
    $('#myTable').dataTable();
  });
</script>
```

Now, view the results...



Overview of Features

Quickly leverage built-in support for...

- AJAX requests
- Adding a custom look 'n feel
- Pagination
- Row selection
- Customizing Table Cells
- Item counts, Sorting & Searching

AJAX Requests

Dynamically load data into your HTML table.

```
<thead>
    Group
    Group
```

DataTable will make an AJAX call and populate the table rows using the returned JSON data.

```
[
"group":"Time","subject":"Q: Vacation Request","lastUsed":"0000-00-00 00:00:00"},

{"group":"Time","subject":"I: Vacation Reminder","lastUsed":"0000-00-00 00:00:00"},

{"group":"Time","subject":"I: Out Sick","lastUsed":"0000-00-00 00:00:00"},

{"group":"Event","subject":"I: Thank You","lastUsed":"0000-00-00 00:00:00"},

{"group":"Event","subject":"Q: Request for Help","lastUsed":"0000-00-00 00:00:00"},

{"group":"Event","subject":"Q: Schedule Follow-up","lastUsed":"0000-00-00 00:00:00"}

]
```

AJAX Requests (Continued)

Dynamically load data into your HTML table.

```
<script>
  $(document).ready(function () {
     $('#myTable').dataTable({
        "ajax": {
          "url": "02_ajax.txt",
          "dataSrc": "",
       "columns": [
             "data": "group"
             "data": "subject"
          },
ſ
             "data": "lastUsed"
          }]
</script>
```

Adding a Customer Look 'n Feel

Using CSS, adjusting the appearance of your tables is within reach.

```
/* Alternate row colors */

table.dataTable tr.even {
 background-color: #eee;
}
```

```
/* Highlight row under cursor */
table.dataTable tbody tr:hover {
   background-color: #dde;
}
```

/* Blue & white table header */

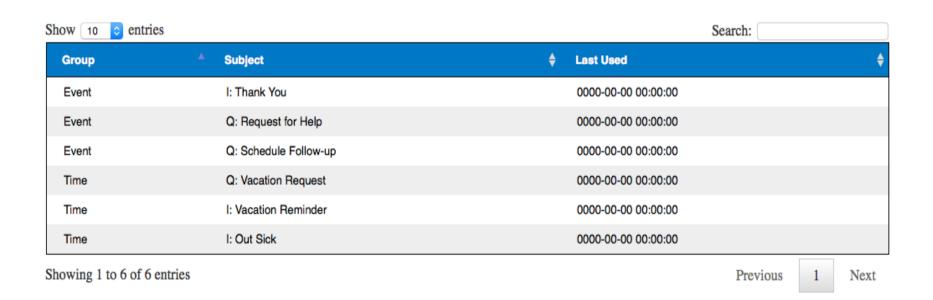
```
table.dataTable thead {
    background-color: #07c;
    color: #fff;
    font-weight: bold;
}
```

/* Update font and border */

```
table.dataTable {
   border: solid 1px #000;
   font-family: sans-serif;
   font-size: 10pt; }
table.dataTable tbody tr td {
   padding-left: 1.5em; }
```

Customer Look 'n Feel (Continue)

Here is what the table looks like after our CSS updates.



Pagination

With a little configuration, you can adjust how many rows are visible on a page. For example to lock how many our displayed to 5 rows per page, you can use the following.

```
<script>
  $(document).ready(function () {
    $('#myTable').dataTable({
       pageLength: 5,
       lengthChange: false,
    });
};
</script>
```

		Search:	
Group	Subject		*
Time	I: Out Sick	0000-00-00 00:00:00	
Showing 6 to 6 of 6 entries		Previous 1 2	Next

Pagination (Continued)

You can even get fancy by keeping the height on the last result page the same as the previous pages.

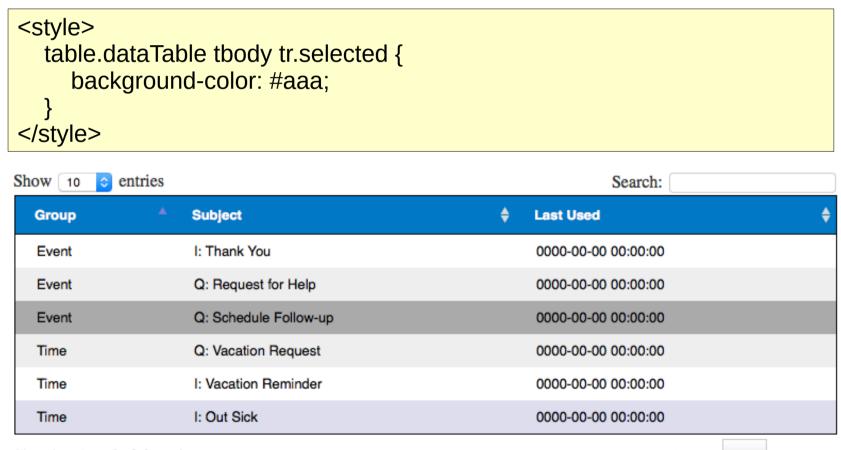
Row Selection

By adding some additional JavaScript, you can enable row selection.

```
<script>
$(document).ready(function () {
    var table = $('#myTable').dataTable();
    $('#myTable tbody').on('click', 'tr', function () {
        $(this).toggleClass('selected');
        table.$('tr.selected').not(this).removeClass('selected');
    });
    $('#myTable').click(function () {
        table.row('.selected').remove().draw(false);
    });
});
</script>
```

Row Selection (Continued)

Additional CSS can then be added to highlight the row further.



Showing 1 to 6 of 6 entries

Previous

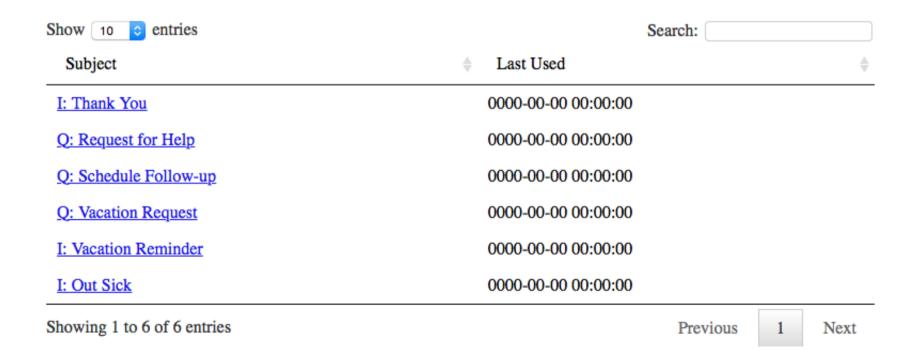
Customizing Table Cells

If you want to combine data from two columns or want to add in links for each cell in a column, you can specify how it should be rendered.

```
<script>
  $(document).ready(function () {
     $('#myTable').dataTable({
        "columnDefs": [
             "render": function (data, type, row) {
                return '<a href="mailto:' + row[0] + "'>' + data + '</a>';
             "targets": 1
          { "visible": false, "targets": [ 0 ] }
</script>
```

Customizing Table Cells (Continued)

The subject now contains a mailto: link with the value of data showing earlier in the group column.



Customizing Table Cells (Continued)

Additionally, you can specify widths of columns using different units such as em, px, pt, etc.

```
$(document).ready(function () {
  $('#myTable').dataTable({
     "columnDefs": [
          "render": function (data, type, row) {
             return '<a href="mailto:' + row[0] + "">' + data + '</a>';
          "targets": 1
          "visible": false,
          "targets": [0]
          "width": "25%",
          "targets": 2
```

Item counts, Sorting & Searching

These are on by default, but can be turned off.

Group	Subject	Last Used
Event	I: Thank You	00:00:00 00:00:00
Event	Q: Request for Help	00:00:00 00:00:00
Event	Q: Schedule Follow-up	00:00:00 00:00:00
Time	Q: Vacation Request	00:00:00 00:00:00
Time	I: Vacation Reminder	00:00:00 00:00:00
Time	I: Out Sick	0000-00-00 00:00:00

Helpful Resources

- https://www.datatables.net
- http://www.codepug.com/wiki/riak-and-datatable