RowReorder example Reorder event

Providing the UI to allow end users to reorder a table is only half of the story - likely you will wish to have the changes caused by the end user to effect a database or some other data store. This can be done by listening for the [row-reorder](http://datatables.net/reference/event/row-reorder) event.

This examples shows how the [row-reorder](http://datatables.net/reference/event/row-reorder) event can be listened for and an action taken when it is triggered. In this case we simply output data about the change to the page, but a more sophisticated use case might involve using Ajax to inform a server-side about the change.

An example of [Editor using RowReorder](http://editor.datatables.net/examples/extensions/rowReorder.html) making use of Editor's multi-row editing ability, is available on the Editor web-site.

Event result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Seq. | Name | Position | Office | Start date | Salary |
| Seq. | Name | Position | Office | Start date | Salary |
| 2 | Tiger Nixon | System Architect | Edinburgh | 2011/04/25 | $320,800 |
| 22 | Garrett Winters | Accountant | Tokyo | 2011/07/25 | $170,750 |
| 6 | Ashton Cox | Junior Technical Author | San Francisco | 2009/01/12 | $86,000 |
| 41 | Cedric Kelly | Senior Javascript Developer | Edinburgh | 2012/03/29 | $433,060 |
| 55 | Airi Satou | Accountant | Tokyo | 2008/11/28 | $162,700 |
| 21 | Brielle Williamson | Integration Specialist | New York | 2012/12/02 | $372,000 |
| 46 | Herrod Chandler | Sales Assistant | San Francisco | 2012/08/06 | $137,500 |
| 50 | Rhona Davidson | Integration Specialist | Tokyo | 2010/10/14 | $327,900 |
| 26 | Colleen Hurst | Javascript Developer | San Francisco | 2009/09/15 | $205,500 |
| 18 | Sonya Frost | Software Engineer | Edinburgh | 2008/12/13 | $103,600 |
| 13 | Jena Gaines | Office Manager | London | 2008/12/19 | $90,560 |
| 23 | Quinn Flynn | Support Lead | Edinburgh | 2013/03/03 | $342,000 |
| 14 | Charde Marshall | Regional Director | San Francisco | 2008/10/16 | $470,600 |
| 12 | Haley Kennedy | Senior Marketing Designer | London | 2012/12/18 | $313,500 |
| 54 | Tatyana Fitzpatrick | Regional Director | London | 2010/03/17 | $385,750 |
| 37 | Michael Silva | Marketing Designer | London | 2012/11/27 | $198,500 |
| 32 | Paul Byrd | Chief Financial Officer (CFO) | New York | 2010/06/09 | $725,000 |
| 35 | Gloria Little | Systems Administrator | New York | 2009/04/10 | $237,500 |
| 48 | Bradley Greer | Software Engineer | London | 2012/10/13 | $132,000 |
| 45 | Dai Rios | Personnel Lead | Edinburgh | 2012/09/26 | $217,500 |
| 17 | Jenette Caldwell | Development Lead | New York | 2011/09/03 | $345,000 |
| 57 | Yuri Berry | Chief Marketing Officer (CMO) | New York | 2009/06/25 | $675,000 |
| 29 | Caesar Vance | Pre-Sales Support | New York | 2011/12/12 | $106,450 |
| 56 | Doris Wilder | Sales Assistant | Sidney | 2010/09/20 | $85,600 |
| 36 | Angelica Ramos | Chief Executive Officer (CEO) | London | 2009/10/09 | $1,200,000 |
| 5 | Gavin Joyce | Developer | Edinburgh | 2010/12/22 | $92,575 |
| 51 | Jennifer Chang | Regional Director | Singapore | 2010/11/14 | $357,650 |
| 20 | Brenden Wagner | Software Engineer | San Francisco | 2011/06/07 | $206,850 |
| 7 | Fiona Green | Chief Operating Officer (COO) | San Francisco | 2010/03/11 | $850,000 |
| 1 | Shou Itou | Regional Marketing | Tokyo | 2011/08/14 | $163,000 |
| 39 | Michelle House | Integration Specialist | Sidney | 2011/06/02 | $95,400 |
| 40 | Suki Burks | Developer | London | 2009/10/22 | $114,500 |
| 47 | Prescott Bartlett | Technical Author | London | 2011/05/07 | $145,000 |
| 52 | Gavin Cortez | Team Leader | San Francisco | 2008/10/26 | $235,500 |
| 8 | Martena Mccray | Post-Sales support | Edinburgh | 2011/03/09 | $324,050 |
| 24 | Unity Butler | Marketing Designer | San Francisco | 2009/12/09 | $85,675 |
| 38 | Howard Hatfield | Office Manager | San Francisco | 2008/12/16 | $164,500 |
| 53 | Hope Fuentes | Secretary | San Francisco | 2010/02/12 | $109,850 |
| 30 | Vivian Harrell | Financial Controller | San Francisco | 2009/02/14 | $452,500 |
| 28 | Timothy Mooney | Office Manager | London | 2008/12/11 | $136,200 |
| 34 | Jackson Bradshaw | Director | New York | 2008/09/26 | $645,750 |
| 4 | Olivia Liang | Support Engineer | Singapore | 2011/02/03 | $234,500 |
| 3 | Bruno Nash | Software Engineer | London | 2011/05/03 | $163,500 |
| 31 | Sakura Yamamoto | Support Engineer | Tokyo | 2009/08/19 | $139,575 |
| 11 | Thor Walton | Developer | New York | 2013/08/11 | $98,540 |
| 10 | Finn Camacho | Support Engineer | San Francisco | 2009/07/07 | $87,500 |
| 44 | Serge Baldwin | Data Coordinator | Singapore | 2012/04/09 | $138,575 |
| 42 | Zenaida Frank | Software Engineer | New York | 2010/01/04 | $125,250 |
| 27 | Zorita Serrano | Software Engineer | San Francisco | 2012/06/01 | $115,000 |
| 49 | Jennifer Acosta | Junior Javascript Developer | Edinburgh | 2013/02/01 | $75,650 |
| 15 | Cara Stevens | Sales Assistant | New York | 2011/12/06 | $145,600 |
| 9 | Hermione Butler | Regional Director | London | 2011/03/21 | $356,250 |
| 25 | Lael Greer | Systems Administrator | London | 2009/02/27 | $103,500 |
| 33 | Jonas Alexander | Developer | San Francisco | 2010/07/14 | $86,500 |
| 43 | Shad Decker | Regional Director | Edinburgh | 2008/11/13 | $183,000 |
| 16 | Michael Bruce | Javascript Developer | Singapore | 2011/06/27 | $183,000 |
| 19 | Donna Snider | Customer Support | New York | 2011/01/25 | $112,000 |

* Javascript
* HTML
* CSS
* Ajax
* Server-side script

The Javascript shown below is used to initialise the table shown in this example:

$(document).ready(function() { var table = $('#example').DataTable( { rowReorder: true } ); table.on( 'row-reorder', function ( e, diff, edit ) { var result = 'Reorder started on row: '+edit.triggerRow.data()[1]+'<br>'; for ( var i=0, ien=diff.length ; i<ien ; i++ ) { var rowData = table.row( diff[i].node ).data(); result += rowData[1]+' updated to be in position '+ diff[i].newData+' (was '+diff[i].oldData+')<br>'; } $('#result').html( 'Event result:<br>'+result ); } ); } );

In addition to the above code, the following Javascript library files are loaded for use in this example:

* [//code.jquery.com/jquery-1.12.3.min.js](http://code.jquery.com/jquery-1.12.3.min.js)
* [../../../../media/js/jquery.dataTables.js](http://docs.google.com/media/js/jquery.dataTables.js)
* [../../js/dataTables.rowReorder.js](http://docs.google.com/js/dataTables.rowReorder.js)

The HTML shown below is the raw HTML table element, before it has been enhanced by DataTables:

This example uses a little bit of additional CSS beyond what is loaded from the library files (below), in order to correctly display the table. The additional CSS used is shown below:

#result { border: 1px solid #888; background: #f7f7f7; padding: 1em; margin-bottom: 1em; }

The following CSS library files are loaded for use in this example to provide the styling of the table:

* [../../../../media/css/jquery.dataTables.css](http://docs.google.com/media/css/jquery.dataTables.css)
* [../../css/rowReorder.dataTables.css](http://docs.google.com/css/rowReorder.dataTables.css)

This table loads data by Ajax. The latest data that has been loaded is shown below. This data will update automatically as any additional data is loaded.

The script used to perform the server-side processing for this table is shown below. Please note that this is just an example script using PHP. Server-side processing scripts can be written in any language, using [the protocol described in the DataTables documentation](http://datatables.net/manual/server-side).

Other examples

[**Initialisation**](http://docs.google.com/index.html)

* [Basic initialisation](http://docs.google.com/simple.html)
* [Restricted column ordering](http://docs.google.com/restrictedOrdering.html)
* [Mobile support (Responsive integration)](http://docs.google.com/responsive.html)
* [Full row selection](http://docs.google.com/selector.html)
* [Reorder event](http://docs.google.com/events.html)
* [DataTables Scrolling](http://docs.google.com/scroll.html)
* [Defaults](http://docs.google.com/defaults.html)

[**Styling**](http://docs.google.com/styling/index.html)

* [Selector cell styling](http://docs.google.com/styling/reorderClass.html)
* [Horizontal snap](http://docs.google.com/styling/snapX.html)
* [Bootstrap styling](http://docs.google.com/styling/bootstrap.html)
* [Bootstrap 4 styling](http://docs.google.com/styling/bootstrap4.html)
* [Semantic UI styling](http://docs.google.com/styling/semanticui.html)
* [Foundation styling](http://docs.google.com/styling/foundation.html)
* [jQuery UI styling](http://docs.google.com/styling/jqueryui.html)

Please refer to the [DataTables documentation](http://www.datatables.net) for full information about its API properties and methods.

Additionally, there are a wide range of [extensions](http://www.datatables.net/extensions) and [plug-ins](http://www.datatables.net/plug-ins) which extend the capabilities of DataTables.

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