Buttons example Excel - Customise borders

The Excel export button saves to an XLSX file and the data can be customised before exporting the file using the customize method of the [excelHtml5](http://datatables.net/reference/button/excelHtml5) button type.

This example demonstrates how to manipulate the file using this method to add a styling attribute to a row in the XML used to create the XSLX file. The object passed into the customize method contains the XSLX's file structure and the worksheet can be accessed as shown. A jQuery selector is then used to select the cells in row 10 and a border added. More complex logic (such as conditionally adding borders based on cell content) could of course be used.

The style added (index 25 in this case) is defined by the default styles included by Buttons. The full list of styles available and further information about the customize method are detailed in the [excelHtml5](http://datatables.net/reference/button/excelHtml5) documentation.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Position | Office | Age | Start date | Salary |
| 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 |
| Quinn Flynn | Support Lead | Edinburgh | 22 | 2013/03/03 | $342,000 |
| Charde Marshall | Regional Director | San Francisco | 36 | 2008/10/16 | $470,600 |
| Haley Kennedy | Senior Marketing Designer | London | 43 | 2012/12/18 | $313,500 |
| Tatyana Fitzpatrick | Regional Director | London | 19 | 2010/03/17 | $385,750 |
| Michael Silva | Marketing Designer | London | 66 | 2012/11/27 | $198,500 |
| Paul Byrd | Chief Financial Officer (CFO) | New York | 64 | 2010/06/09 | $725,000 |
| Gloria Little | Systems Administrator | New York | 59 | 2009/04/10 | $237,500 |
| Bradley Greer | Software Engineer | London | 41 | 2012/10/13 | $132,000 |
| Dai Rios | Personnel Lead | Edinburgh | 35 | 2012/09/26 | $217,500 |
| Jenette Caldwell | Development Lead | New York | 30 | 2011/09/03 | $345,000 |
| Yuri Berry | Chief Marketing Officer (CMO) | New York | 40 | 2009/06/25 | $675,000 |
| Caesar Vance | Pre-Sales Support | New York | 21 | 2011/12/12 | $106,450 |
| Doris Wilder | Sales Assistant | Sidney | 23 | 2010/09/20 | $85,600 |
| Angelica Ramos | Chief Executive Officer (CEO) | London | 47 | 2009/10/09 | $1,200,000 |
| Gavin Joyce | Developer | Edinburgh | 42 | 2010/12/22 | $92,575 |
| Jennifer Chang | Regional Director | Singapore | 28 | 2010/11/14 | $357,650 |
| Brenden Wagner | Software Engineer | San Francisco | 28 | 2011/06/07 | $206,850 |
| Fiona Green | Chief Operating Officer (COO) | San Francisco | 48 | 2010/03/11 | $850,000 |
| Shou Itou | Regional Marketing | Tokyo | 20 | 2011/08/14 | $163,000 |
| Michelle House | Integration Specialist | Sidney | 37 | 2011/06/02 | $95,400 |
| Suki Burks | Developer | London | 53 | 2009/10/22 | $114,500 |
| Prescott Bartlett | Technical Author | London | 27 | 2011/05/07 | $145,000 |
| Gavin Cortez | Team Leader | San Francisco | 22 | 2008/10/26 | $235,500 |
| Martena Mccray | Post-Sales support | Edinburgh | 46 | 2011/03/09 | $324,050 |
| Unity Butler | Marketing Designer | San Francisco | 47 | 2009/12/09 | $85,675 |
| Howard Hatfield | Office Manager | San Francisco | 51 | 2008/12/16 | $164,500 |
| Hope Fuentes | Secretary | San Francisco | 41 | 2010/02/12 | $109,850 |
| Vivian Harrell | Financial Controller | San Francisco | 62 | 2009/02/14 | $452,500 |
| Timothy Mooney | Office Manager | London | 37 | 2008/12/11 | $136,200 |
| Jackson Bradshaw | Director | New York | 65 | 2008/09/26 | $645,750 |
| Olivia Liang | Support Engineer | Singapore | 64 | 2011/02/03 | $234,500 |
| Bruno Nash | Software Engineer | London | 38 | 2011/05/03 | $163,500 |
| Sakura Yamamoto | Support Engineer | Tokyo | 37 | 2009/08/19 | $139,575 |
| Thor Walton | Developer | New York | 61 | 2013/08/11 | $98,540 |
| Finn Camacho | Support Engineer | San Francisco | 47 | 2009/07/07 | $87,500 |
| Serge Baldwin | Data Coordinator | Singapore | 64 | 2012/04/09 | $138,575 |
| Zenaida Frank | Software Engineer | New York | 63 | 2010/01/04 | $125,250 |
| Zorita Serrano | Software Engineer | San Francisco | 56 | 2012/06/01 | $115,000 |
| Jennifer Acosta | Junior Javascript Developer | Edinburgh | 43 | 2013/02/01 | $75,650 |
| Cara Stevens | Sales Assistant | New York | 46 | 2011/12/06 | $145,600 |
| Hermione Butler | Regional Director | London | 47 | 2011/03/21 | $356,250 |
| Lael Greer | Systems Administrator | London | 21 | 2009/02/27 | $103,500 |
| Jonas Alexander | Developer | San Francisco | 30 | 2010/07/14 | $86,500 |
| Shad Decker | Regional Director | Edinburgh | 51 | 2008/11/13 | $183,000 |
| Michael Bruce | Javascript Developer | Singapore | 29 | 2011/06/27 | $183,000 |
| Donna Snider | Customer Support | New York | 27 | 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() { $('#example').DataTable( { dom: 'Bfrtip', buttons: [ { extend: 'excelHtml5', customize: function ( xlsx ){ var sheet = xlsx.xl.worksheets['sheet1.xml']; // jQuery selector to add a border $('row c[r\*="10"]', sheet).attr( 's', '25' ); } } ] } ); } );

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.buttons.js](http://docs.google.com/js/dataTables.buttons.js)
* [//cdnjs.cloudflare.com/ajax/libs/jszip/2.5.0/jszip.min.js](http://cdnjs.cloudflare.com/ajax/libs/jszip/2.5.0/jszip.min.js)
* [../../js/buttons.html5.js](http://docs.google.com/js/buttons.html5.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:

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/buttons.dataTables.css](http://docs.google.com/css/buttons.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

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

* [Basic initialisation](http://docs.google.com/initialisation/simple.html)
* [File export](http://docs.google.com/initialisation/export.html)
* [Custom button](http://docs.google.com/initialisation/custom.html)
* [Class names](http://docs.google.com/initialisation/className.html)
* [Keyboard activation](http://docs.google.com/initialisation/keys.html)
* [Collections](http://docs.google.com/initialisation/collections.html)
* [Multi-level collections](http://docs.google.com/initialisation/collections-sub.html)
* [Auto close collection](http://docs.google.com/initialisation/collections-autoClose.html)
* [Plug-ins](http://docs.google.com/initialisation/plugins.html)
* [`new` initialisation](http://docs.google.com/initialisation/new.html)
* [Multiple button groups](http://docs.google.com/initialisation/multiple.html)
* [Page length](http://docs.google.com/initialisation/pageLength.html)

[**HTML 5 data export**](http://docs.google.com/index.html)

* [HTML5 export buttons](http://docs.google.com/simple.html)
* [Tab separated values](http://docs.google.com/tsv.html)
* [File name](http://docs.google.com/filename.html)
* [Copy button internationalisation](http://docs.google.com/copyi18n.html)
* [Column selectors](http://docs.google.com/columns.html)
* [Format output data - orthogonal data](http://docs.google.com/outputFormat-orthogonal.html)
* [Format output data - export options](http://docs.google.com/outputFormat-function.html)
* [Excel - Bold text](http://docs.google.com/excelTextBold.html)
* [Excel - Cell background](http://docs.google.com/excelCellShading.html)
* [Excel - Customise borders](http://docs.google.com/excelBorder.html)
* [PDF - message](http://docs.google.com/pdfMessage.html)
* [PDF - page size and orientation](http://docs.google.com/pdfPage.html)
* [PDF - image](http://docs.google.com/pdfImage.html)
* [PDF - open in new window](http://docs.google.com/pdfOpen.html)
* [Custom file (JSON)](http://docs.google.com/customFile.html)

[**Flash data export**](http://docs.google.com/flash/index.html)

* [Flash export buttons](http://docs.google.com/flash/simple.html)
* [Tab separated values](http://docs.google.com/flash/tsv.html)
* [File name](http://docs.google.com/flash/filename.html)
* [Copy button internationalisation](http://docs.google.com/flash/copyi18n.html)
* [PDF message](http://docs.google.com/flash/pdfMessage.html)
* [Page size and orientation](http://docs.google.com/flash/pdfPage.html)
* [Hidden initialisation](http://docs.google.com/flash/hidden.html)
* [SWF file location](http://docs.google.com/flash/swfPath.html)

[**Column visibility**](http://docs.google.com/column_visibility/index.html)

* [Basic column visibility](http://docs.google.com/column_visibility/simple.html)
* [Multi-column layout](http://docs.google.com/column_visibility/layout.html)
* [Internationalisation](http://docs.google.com/column_visibility/text.html)
* [Restore column visibility](http://docs.google.com/column_visibility/restore.html)
* [Select columns](http://docs.google.com/column_visibility/columns.html)
* [Visibility toggle buttons](http://docs.google.com/column_visibility/columnsToggle.html)
* [Column groups](http://docs.google.com/column_visibility/columnGroups.html)
* [State saving](http://docs.google.com/column_visibility/stateSave.html)

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

* [Print button](http://docs.google.com/print/simple.html)
* [Custom message](http://docs.google.com/print/message.html)
* [Export options - column selector](http://docs.google.com/print/columns.html)
* [Export options - row selector](http://docs.google.com/print/select.html)
* [Disable auto print](http://docs.google.com/print/autoPrint.html)
* [Customisation of the print view window](http://docs.google.com/print/customisation.html)

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

* [Enable / disable](http://docs.google.com/api/enable.html)
* [Dynamic text](http://docs.google.com/api/text.html)
* [Adding and removing buttons dynamically](http://docs.google.com/api/addRemove.html)
* [Group selection](http://docs.google.com/api/group.html)

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

* [Bootstrap 3](http://docs.google.com/styling/bootstrap.html)
* [Bootstrap 4](http://docs.google.com/styling/bootstrap4.html)
* [Foundation styling](http://docs.google.com/styling/foundation.html)
* [jQuery UI styling](http://docs.google.com/styling/jqueryui.html)
* [Semantic UI styling](http://docs.google.com/styling/semanticui.html)
* [Icons](http://docs.google.com/styling/icons.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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