Buttons example Format output data - orthogonal data

Buttons has two different methods that can be used to format the data exported differently from the data that is shown in the table: orthogonal options as shown in this example and [formatting functions](http://docs.google.com/outputFormat-function.html). They both achieve basically the same thing in different ways: namely modification of the output data.

The orthogonal options are based upon [DataTables' support for orthogonal data](http://datatables.net/manual/orthogonal-data) - specifically being able to use [columns.render](http://datatables.net/reference/option/columns.render) as an object for function to give DataTables different data for the different actions it needs to take.

By default Buttons will ask for the same data that is shown in the table (display) but the orthogonal option of the exportOptions parameter can be used to specify a different data point. In this example the orthogonal data for the exported buttons is set to be export and the [columns.render](http://datatables.net/reference/option/columns.render) function will return a deformatted string (stripping the $ and , characters from the final column to make it a numeric value).

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

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

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

$(document).ready(function() { $('#example').DataTable( { ajax: '../../../../examples/ajax/data/objects.txt', columns: [ { data: 'name' }, { data: 'position' }, { data: 'office' }, { data: 'extn' }, { data: 'start\_date' }, { data: 'salary', render: function (data, type, row) { return type === 'export' ? data.replace( /[$,]/g, '' ) : data; } } ], dom: 'Bfrtip', buttons: [ { extend: 'copyHtml5', exportOptions: { orthogonal: 'export' } }, { extend: 'excelHtml5', exportOptions: { orthogonal: 'export' } }, { extend: 'pdfHtml5', exportOptions: { orthogonal: 'export' } } ] } ); } );

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)
* [//cdn.rawgit.com/bpampuch/pdfmake/0.1.18/build/pdfmake.min.js](http://cdn.rawgit.com/bpampuch/pdfmake/0.1.18/build/pdfmake.min.js)
* [//cdn.rawgit.com/bpampuch/pdfmake/0.1.18/build/vfs\_fonts.js](http://cdn.rawgit.com/bpampuch/pdfmake/0.1.18/build/vfs_fonts.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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