

DT: An R interface to DataTables Library

The DT package provides an R interface to the JavaScript library DataTables (datatables.net), which provides filtering, pagination, sorting, and many other *interactive* features in the tables on HTML pages via viewer, R markdown html, and Shiny App

Installation

```
install.packages("DT")
```

Usage

```
datatable(data, options = list(), class = "display",
  callback = JS("return table;"), rownames, colnames, container,
  caption = NULL, filter = c("none",
  "bottom", "top"), escape = TRUE, style = "default",
  width = NULL, height = NULL, elementId = NULL, fillContainer =
  getOption("DT.fillContainer", NULL), autoHideNavigation =
  getOption("DT.autoHideNavigation", NULL),
  selection = c("multiple", "single", "none"), extensions =
  list(), plugins = NULL)
```

Table CSS Classes (Table Style)

display	Short-hand for stripe, hover, row-border and order-column classes
cell-border	Border around all four sides of each cell
compact	Reduce the amount of white-space the default styling for the DataTable uses, increasing the information density on screen
hover	Row highlighting on mouse over
nowrap	Disable wrapping of content in the table, so all text in the cells is on a single line
order-column	Highlight the column that the table data is currently ordered on
row-border	Border around only the top and bottom of each row. Note, cell-border and row-border are mutually exclusive and cannot be used together
stripe	Row striping

Example: `datatable(data, class = "cell-border stripe")`

Customize Row Names and Column Names

<code>rownames = FALSE</code>	NO row names
<code>rownames = head(LETTERS)</code>	NEW row names
<code>colnames = c("A", "B", "C")</code>	NEW column names
<code>colnames = c("New Name"="Old Name")</code>	REPLACE "Old Name" with "New Name"

Table Caption

<code>caption = "Some Table"</code>	Add caption "Some Table"
<code>caption = htmltools::tags\$caption(style = "caption-side: bottom; text-align: center;", "Some Table 2")</code>	Add caption "Some Table 2" at the bottom of the table with center alignment

Column Filters

<code>filter = "top"</code>	Add column filters for every column
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Format Columns

<code>datatable(data) %>% formatCurrency("A") %>% formatPercentage("C", 2) %>% formatRound("E", 3)</code>	Format the column "A" as currency, "C" as percentages with 2 decimal places, and round "E" to 3 decimal places
<code>date = strptime("2017-11-03 10:03:21", "%Y-%m-%d %H:%M:%S", tz="EST") datatable(as.data.frame(date)) %>% formatDate("date", "toDateString")</code>	Format the "date" column as: "Fri Nov 03 2017"
<code>datatable(as.data.frame(date)) %>% formatDate("date", "toLocaleDateString")</code>	"11/3/2017"
<code>datatable(as.data.frame(date)) %>% formatDate("date", "toLocaleString")</code>	"11/3/2017, 10:03:21 AM"
<code>datatable(as.data.frame(date)) %>% formatDate("date", "toDateString")</code>	"Fri, 03 Nov 2017 15:03:21 GMT"

Options

<code>options = list(columnDefs = list(list(className = 'dt-center', targets = c(2, 5)), list(orderable = FALSE, targets = 3)), pageLength = 5, lengthMenu = c(5, 10, 15, 20), language = list(url = "https://cdn.datatables.net/plug-ins/1.10.16/i18n/Chinese.json"), order = list(list(2, "asc"), list(4, "desc")))</code>	Center the elements in the 2nd and 5th column in the table; Disable sorting for column 3; Display 5 rows per page by default; Customize the number of rows to be displayed as 5, 10, 15 or 20; Change the language of the user interface of the table as Chinese.
More options: https://datatables.net/reference/option/	Sort the table by column 2 (ascending) and then column 4 (descending); More language options: https://datatables.net/plug-ins/i18n/

Reference: <https://rstudio.github.io/DT/>
<https://datatables.net/>

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