Package ‘htmlTable’

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Version  2.4.1

Title   Advanced Tables for Markdown/HTML

Maintainer  Max Gordon <max@gforge.se>

Description  Tables with state-of-the-art layout elements such as row spanners, column spanners, table spanners, zebra striping, and more. While allowing advanced layout, the underlying css-structure is simple in order to maximize compatibility with common word processors. The package also contains a few text formatting functions that help outputting text compatible with HTML/LaTeX.

License  GPL (>= 3)

URL  https://gforge.se/packages/

BugReports  https://github.com/gforge/htmlTable/issues

Biarch  yes

Imports  stringr, knitr (>= 1.6), magrittr (>= 1.5), methods, checkmate, htmlwidgets, htmltools, rstudioapi (>= 0.6)

Suggests  testthat, XML, xml2, Hmisc, reshape, rmarkdown, chron, lubridate, tibble, purrr, tidyselect, glue, rlang, tidyr (>= 0.7.2), dplyr (>= 0.7.4)

Encoding  UTF-8

NeedsCompilation  no

VignetteBuilder  knitr

RoxygenNote  7.2.0

Author  Max Gordon [aut, cre],
        Stephen Gragg [aut],
        Peter Konings [aut]

Repository  CRAN

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addHtmlTableStyle

Description

This function is a preprocessing step before applying the htmlTable() function. You use this to style your tables with HTML cascading style sheet features.

Usage

addHtmlTableStyle(
  x,
  align = NULL,
  align.header = NULL,
  align.cgroup = NULL,
  css.rgroup = NULL,
  css.rgroup.sep = NULL,
  css.tspanner = NULL,
  ...)
addHtmlTableStyle

css.tspanner.sep = NULL,
css.total = NULL,
css.cell = NULL,
css.cgroup = NULL,
css.header = NULL,
css.header.border_bottom = NULL,
css.class = NULL,
css.table = NULL,
pos.rowlabel = NULL,
pos.caption = NULL,
col.rgroup = NULL,
col.columns = NULL,
padding.rgroup = NULL,
padding.tspanner = NULL,
spacer.celltype = NULL,
spacer.css.cgroup.bottom.border = NULL,
spacer.css = NULL,
spacer.content = NULL
)

appendHtmlTableStyle(
  x,
  align = NULL,
  align.header = NULL,
  align.cgroup = NULL,
css.rgroup = NULL,
css.rgroup.sep = NULL,
css.tspanner = NULL,
css.tspanner.sep = NULL,
css.total = NULL,
css.cell = NULL,
css.cgroup = NULL,
css.header = NULL,
css.header.border_bottom = NULL,
css.class = NULL,
css.table = NULL,
pos.rowlabel = NULL,
pos.caption = NULL,
col.rgroup = NULL,
col.columns = NULL,
padding.rgroup = NULL,
padding.tspanner = NULL,
spacer.celltype = NULL,
spacer.css.cgroup.bottom.border = NULL,
spacer.css = NULL,
spacer.content = NULL
)
Arguments

x  The object that you later want to pass into `htmlTable()`.

align  A character strings specifying column alignments, defaulting to 'c' to center. Valid chars for alignments are l = left, c = center and r = right. You can also specify align='c|c' and other LaTeX tabular formatting. If you want to set the alignment of the rownames this string needst to be ncol(x) + 1, otherwise it automatically pads the string with a left alignment for the rownames.

align.header  A character strings specifying alignment for column header, defaulting to centered, i.e. `[paste][base::paste](rep('c',ncol(x)),collapse='')`.

align.cgroup  The justification of the cgroups

css.rgroup  CSS style for the rgroup, if different styles are wanted for each of the rgroups you can just specify a vector with the number of elements.

css.rgroup.sep  The line between different rgroups. The line is set to the TR element of the lower rgroup, i.e. you have to set the border-top/padding-top etc to a line with the expected function. This is only used for rgroups that are printed. You can specify different separators if you give a vector of rgroup - 1 length (this is since the first rgroup doesn't have a separator).

css.tspanner  The CSS style for the table spanner.

css.tspanner.sep  The line between different spanners.

css.total  The css of the total row if such is activated.

css.cell  The css.cell element allows you to add any possible CSS style to your table cells. See section below for details.

css.cgroup  The same as css.class but for cgroup formatting.

css.header  The header style, not including the cgroup style

css.header.border_bottom  The header bottom-border style, e.g. `border-bottom: 1px solid grey`

css.class  The html CSS class for the table. This allows directing html formatting through CSS directly at all instances of that class. *Note: unfortunately the CSS is frequently ignored by word processors. This option is mostly inteded for web-presentations.*

css.table  You can specify the the style of the table-element using this parameter

pos.rowlabel  Where the rowlabel should be positioned. This value can be "top", "bottom", "header", or a integer between 1 and nrow(cgroup) + 1. The options "bottom" and "header" are the same, where the row label is presented at the same level as the header.

pos.caption  Set to "bottom" to position a caption below the table instead of the default of "top".

col.rgroup  Alternating colors (zebra striping/banded rows) for each rgroup; one or two colors is recommended and will be recycled.

col.columns  Alternating colors for each column.

padding.rgroup  Generally two non-breakings spaces, i.e. &nbsp;&nbsp;, but some journals only have a bold face for the rgroup and leaves the subelements unindented.
addHtmlTableStyle

padding.tspanner
The table spanner is usually without padding but you may specify padding similar to padding.rgroup and it will be added to all elements, including the rgroup elements. This allows for a 3-level hierarchy if needed.

spacer.celltype
When using cgroup the table headers are separated through an empty HTML cell that is by default filled with &nbsp; (no-breaking-space) that prevents the cell from collapsing. The purpose of this is to prevent the headers underline to bleed into one as the underline is for the entire cell. You can alter this behavior by changing this option, valid options are single_empty, skip, double_cell. The single_empty is the default, the skip lets the header bleed into one and skips entirely, double_cell is for having two cells so that a vertical border ends up centered (specified using the align option). The arguments are matched internally using base::match.arg so you can specify only a part of the name, e.g. "sk" will match "skip".

spacer.css.cgroup.bottom.border
Defaults to none and used for separating cgroup headers. Due to a browser bug this is sometimes ignored and you may therefore need to set this to 1px solid white to enforce a white border.

spacer.css
If you want the spacer cells to share settings you can set it here

spacer.content
Defaults to &nbsp; as this guarantees that the cell is not collapsed and is highly compatible when copy-pasting to word processors.

Details
The function stores the current theme (see setHtmlTableTheme()) + custom styles to the provided object as an base::attributes(). It is stored under the element htmlTable.style in the form of a list object.

Value
x with the style added as an attribute that the htmlTable then can use for formatting.

The css.cell argument
The css.cell parameter allows you to add any possible CSS style to your table cells. css.cell can be either a vector or a matrix.

If css.cell is a vector, it’s assumed that the styles should be repeated throughout the rows (that is, each element in css.cell specifies the style for a whole column of ‘x’).

In the case of css.cell being a matrix of the same size of the x argument, each element of x gets the style from the corresponding element in css.cell. Additionally, the number of rows of css.cell can be nrow(x) + 1 so the first row of of css.cell specifies the style for the header of x; also the number of columns of css.cell can be ncol(x) + 1 to include the specification of style for row names of x.

Note that the text-align CSS field in the css.cell argument will be overridden by the align argument.

Excel has a specific css-style, mso-number-format that can be used for improving the copy-paste functionality. E.g. the style could be written as: css_matrix <- matrix( data = "mso-number-format:\"\\@\"", nrow =
See Also

Other htmlTableStyle: hasHtmlTableStyle()

Examples

library(magrittr)
matrix(1:4, ncol = 2) %>%
  addHtmlTableStyle(align = "c", css.cell = "background-color: orange;") %>%
  htmlTable(caption = "A simple style example")

### concatHtmlTables

*Function for concatenating htmlTable()*s

#### Description

Function for concatenating htmlTable()s

#### Usage

concatHtmlTables(tables, headers = NULL)

#### Arguments

- **tables**: A list of htmlTable()s to be concatenated
- **headers**: Either a string or a vector of strings that function as a header for each table. If none is provided it will use the names of the table list or a numeric number.

#### Value

htmlTable() class object

#### Examples

library(magrittr)

# Basic example
tables <- list()
output <- matrix(1:4, ncol = 2,
                 dimnames = list(list("Row 1", "Row 2"),
                                 list("Column 1", "Column 2")))
tables[["Simple table"]]
output <- htmlTable(output)

# An advanced output
output <- matrix(ncol = 6, nrow = 8)
for (nr in 1:nrow(output)) {
  for (nc in 1:ncol(output)) {

```r

```
getHtmlTableStyle

getHtmlTableStyle(x)

Arguments

x  The object intended for htmlTable().

Value

A list if the attribute exists, otherwise NULL

Description

A wrap around the base::attr() that retrieves the style attribute used by htmlTable() (htmlTable.style).

Usage

getHtmlTableStyle(x)
Examples

```r
library(magrittr)

mx <- matrix(1:4, ncol = 2)
colnames(mx) <- LETTERS[1:2]
mx %>%
  addHtmlTableStyle(align = "l|r") %>%
  getHtmlTableStyle()

getHtmlTableTheme

---

Description

A wrapper for a `getOption("htmlTable.theme")()` call that returns the standard theme unless one is set.

Usage

`getHtmlTableTheme()`

Value

list with the styles to be applied to the table

Examples

`getHtmlTableTheme()`

---

hasHtmlTableStyle

Check if object has a style set to it

Description

If the attribute `htmlTable.style` is set it will check if the `style_name` exists and return a logical.

Usage

`hasHtmlTableStyle(x, style_name)`

Arguments

- `x`: The object intended for `htmlTable()`.
- `style_name`: A string that contains the style name.
htmlTable

Value

logical TRUE if the attribute and style is not NULL

See Also

Other htmlTableStyle: addHtmlTableStyle()

Examples

library(magrittr)

mx <- matrix(1:4, ncol = 2)
colnames(mx) <- LETTERS[1:2]
mx %>%
  addHtmlTableStyle(align = "1|r") %>%
  hasHtmlTableStyle("align")

htmlTable  Output an HTML table

Description

This is a function for outputting a more advanced tables using HTML. The core philosophy is to bring column and row groups into the table and allow for a dense representation of complex tables. The HTML-output is designed for maximum compatibility with copy-paste functionality into word-processors. For adding styles, see addHtmlTableStyle() and themes setHtmlTableTheme(). Note: If you are using tidyverse and dplyr you may want to check out tidyHtmlTable() that automates many of the arguments that htmlTable requires.

Usage

htmlTable(
  x,
  header = NULL,
  rnames = NULL,
  rowlabel = NULL,
  caption = NULL,
  tfoot = NULL,
  label = NULL,
  rgroup = NULL,
  n.rgroup = NULL,
  cgroup = NULL,
  n.cgroup = NULL,
  tspanner = NULL,
  n.tspanner = NULL,
  total = NULL,
  ctable = TRUE,
compatibility = getOption("htmlTableCompat", "LibreOffice"),
cspan.rgroup = "all",
escape.html = FALSE,
...
)

## Default S3 method:
htmlTable(
  x,
  header = NULL,
  rnames = NULL,
  rowlabel = NULL,
  caption = NULL,
  tfoot = NULL,
  label = NULL,
  rgroup = NULL,
  n.rgroup = NULL,
  cgroup = NULL,
  n.cgroup = NULL,
  tspanner = NULL,
  n.tspanner = NULL,
  total = NULL,
  ctable = TRUE,
  compatibility = getOption("htmlTableCompat", "LibreOffice"),
  cspan.rgroup = "all",
  escape.html = FALSE,
  ...
)

## S3 method for class 'htmlTable'
knit_print(x, ...)

## S3 method for class 'htmlTable'
print(x, useViewer, ...)

Arguments

x The matrix/data.frame with the data. For the print and knit_print it takes a string of the class htmlTable as x argument.

header A vector of character strings specifying column header, defaulting to colnames(x)

rnames Default row names are generated from rownames(x). If you provide FALSE then it will skip the row names. Note: For data.frames if you do rownames(my_dataframe) <- NULL it still has row names. Thus you need to use FALSE if you want to suppress row names for data.frames.

rowlabel If the table has row names or rnames, rowlabel is a character string containing the column heading for the rnames.

caption Adds a table caption.
tfoot
   Adds a table footer (uses the <tfoot> HTML element). The output is run through `txtMergeLines()` simplifying the generation of multiple lines.

label
   A text string representing a symbolic label for the table for referencing as an anchor. All you need to do is to reference the table, for instance `<a href="#anchor_name">see table 2</a>`. This is known as the element’s id attribute, i.e. table id, in HTML linguo, and should be unique id for an HTML element in contrast to the css.class element attribute.

table
tfoot
   A vector of character strings containing headings for row groups. n.rgroup must be present when rgroup is given. See detailed description in section below.

n.rgroup
   An integer vector giving the number of rows in each grouping. If rgroup is not specified, n.rgroup is just used to divide off blocks of rows by horizontal lines. If rgroup is given but n.rgroup is omitted, n.rgroup will default so that each row group contains the same number of rows. If you want additional rgroup column elements to the cells you can sett the "add" attribute to rgroup through `attr(rgroup, "add")`, see below explaining section.

cgroup
   A vector, matrix or list of character strings defining major column header. The default is to have none. These elements are also known as column spanners. If you want a column not to have a spanner then put that column as "". If you pass cgroup and n.crgroup as matrices you can have column spanners for several rows. See cgroup section below for details.

n.cgroup
   An integer vector, matrix or list containing the number of columns for which each element in cgroup is a heading. For example, specify `cgroup=c("Major_1","Major_2")`, `n.cgroup=c(3,3)` if "Major_1" is to span columns 1-3 and "Major_2" is to span columns 4-6. rowlabel does not count in the column numbers. You can omit n.cgroup if all groups have the same number of columns. If the n.cgroup is one less than the number of columns in the matrix/data.frame then it automatically adds those.

tspanner
   The table spanner is somewhat of a table header that you can use when you want to join different tables with the same columns.

n.tspanner
   An integer vector with the number of rows or rgroups in the original matrix that the table spanner should span. If you have provided one fewer n.tspanner elements the last will be imputed from the number of rgroups (if you have provided rgroup and `sum(n.tspanner) < length(rgroup)`)) or the number of rows in the table.

total
   The last row is sometimes a row total with a border on top and bold fonts. Set this to TRUE if you are interested in such a row. If you want a total row at the end of each table spanner you can set this to "tspanner".

c直辖
   If the table should have a double top border or a single a’ la LaTeX ctable style

compatibility
   Is default set to LibreOffice as some settings need to be in old HTML format as Libre Office can’t handle some commands such as the css caption-alignment. Note: this option is not yet fully implemented for all details, in the future I aim to generate a HTML-correct table and one that is aimed at Libre Office compatibility. Word-compatibility is difficult as Word ignores most settings and destroys all layout attempts (at least that is how my 2010 version behaves). You can additinally use the options(htmlTableCompat = "html") if you want a change to apply to the entire document. MS Excel sometimes misinterprets
certain cell data when opening HTML-tables (e.g. 1/2 becomes 1 February). To avoid this please specify the correct Microsoft Office format for each cell in the table using the css.cell-argument. To make MS Excel interpret everything as text use "mso-number-format:"@".

- **cspan.rgroup**: The number of columns that an rgroup should span. It spans by default all columns but you may want to limit this if you have column colors that you want to retain.

- **escape.html**: logical: should HTML characters be escaped? Defaults to FALSE.

... Passed on to print.htmlTable function and any argument except the useViewer will be passed on to the base::cat() functions arguments. Note: as of version 2.0.0 styling options are still allowed but it is recommended to instead pre-process your object with addHtmlTableStyle().

- **useViewer**: If you are using RStudio there is a viewer that can render the table within that is invoked if in base::interactive() mode. Set this to FALSE if you want to remove that functionality. You can also force the function to call a specific viewer by setting this to a viewer function, e.g. useViewer = utils::browseURL if you want to override the default RStudio viewer. Another option that does the same is to set the options(viewer=utils::browseURL) and it will default to that particular viewer (this is how RStudio decides on a viewer). Note: If you want to force all output to go through the base::cat() the set [options][base::options](htmlTable.cat = TRUE).

**Value**

- **string**: Returns a string of class htmlTable

**Multiple rows of column spanners cgroup**

If you want to have a column spanner in multiple levels you can set the cgroup and n.cgroup arguments to a matrix or list.

If the different levels have different number of elements and you have provided a matrix you need to set the ones that lack elements to NA. For instance cgroup = rbind(c("first", "second", NA), c("a", "b", "c")). And the corresponding n.cgroup would be n.cgroup = rbind(c(1, 2, NA), c(2, 1, 2)) for a table consisting of 5 columns. The "first" spans the first two columns, the "second" spans the last three columns, "a" spans the first two, "b" the middle column, and "c" the last two columns.

It is recommended to use list as you will not have to bother with the NA.

If you want leave a cgroup empty then simply provide "" as the cgroup.

**The rgroup argument**

The rgroup allows you to smoothly group rows. Each row within a group receives an indentation of two blank spaces and are grouped with their corresponding rgroup element. The sum(n.rgroup) should always be equal or less than the matrix rows. If less then it will pad the remaining rows with either an empty rgroup, i.e. an "" or if the rgroup is one longer than the n.rgroup the last n.rgroup element will be calculated through nrow(x) - sum(n.rgroup) in order to make the table generating smoother.
The add attribute to rgroup

You can now have an additional element at the rgroup level by specifying the attr(rgroup, 'add'). The value can either be a vector, a list, or a matrix. See vignette("general", package = "htmlTable") for examples.

- A vector of either equal number of rgroups to the number of rgroups that aren’t empty, i.e. rgroup[rgroup != ""]. Or a named vector where the name must correspond to either an rgroup or to an rgroup number.
- A list that has exactly the same requirements as the vector. In addition to the previous we can also have a list with column numbers within as names within the list.
- A matrix with the dimension nrow(x) x ncol(x) or nrow(x) x 1 where the latter is equivalent to a named vector. If you have rownames these will resolve similarly to the names to the list/vector arguments. The same thing applies to colnames.

Important knitr-note

This function will only work with knitr outputting HTML, i.e. markdown mode. As the function returns raw HTML-code the compatibility with non-HTML formatting is limited, even with pandoc.

Thanks to the the knitr::knit_print() and the knitr::asis_output() the results='asis' is no longer needed except within for-loops. If you have a knitr-chunk with a for loop and use print() to produce raw HTML you must set the chunk option results='asis'. Note: the print-function relies on the base::interactive() function for determining if the output should be sent to a browser or to the terminal. In vignettes and other directly knitted documents you may need to either set useViewer = FALSE alternatively set options(htmlTable.cat = TRUE).

RStudio’s notebook

RStudio has an interactive notebook that allows output directly into the document. In order for the output to be properly formatted it needs to have the class of html. The htmlTable tries to identify if the environment is a notebook document (uses the rstudioapi and identifies if its a file with and Rmd file ending or if there is an element with html_notebook). If you don’t want this behavior you can remove it using the options(htmlTable.skip_notebook = TRUE).

Table counter

If you set the option table_counter you will get a Table 1,2,3 etc before each table, just set options(table_counter=TRUE). If you set it to a number then that number will correspond to the start of the table_counter. The table_counter option will also contain the number of the last table, this can be useful when referencing it in text. By setting the option options(table_counter_str = "<b>Table %s:<b> ") you can manipulate the counter table text that is added prior to the actual caption. Note, you should use the sprintf() %s instead of %d as the software converts all numbers to characters for compatibility reasons. If you set options(table_counter_roman = TRUE) then the table counter will use Roman numerals instead of Arabic.

Empty data frames

An empty data frame will result in a warning and output an empty table, provided that rgroup and n.rgroup are not specified. All other row layout options will be ignored.
Options

There are multiple options that can be set, here is a set of the perhaps most used:

- **table_counter** - logical - activates a counter for each table
- **table_counter_roman** - logical - if true the counter is in Roman numbers, i.e. I, II, III, IV...
- **table_counter_str** - string - the string used for generating the table counter text
- **useViewer** - logical - if viewer should be used for printing the table
- **htmlTable.cat** - logical - if the output should be directly sent to `cat()`
- **htmlTable.skip_notebook** - logical - skips the logic for detecting notebook
- **htmlTable.pretty_indentation** - logical - there was some issues in previous Pandoc versions where HTML indentation caused everything to be interpreted as code. This seems to be fixed and if you want to look at the raw HTML code it is nice to have this set to TRUE so that the tags and elements are properly indented.
- **htmlTableCompat** - string - see parameter description

Other

*Copy-pasting:* As you copy-paste results into Word you need to keep the original formatting. Either right click and choose that paste option or click on the icon appearing after a paste. Currently the following compatibilities have been tested with MS Word 2016:

- **Internet Explorer** (v. 11.20.10586.0) Works perfectly when copy-pasting into Word
- **RStudio** (v. 0.99.448) Works perfectly when copy-pasting into Word. *Note:* can have issues with multi-line cgroups - see bug
- **Chrome** (v. 47.0.2526.106) Works perfectly when copy-pasting into Word. *Note:* can have issues with multi-line cgroups - see bug
- **Firefox** (v. 43.0.3) Works poorly - looses font-styling, lines and general feel
- **Edge** (v. 25.10586.0.0) Works poorly - looses lines and general feel

*Direct word processor opening:* Opening directly in Libre Office or Word is no longer recommended. You get much prettier results using the cut-and-paste option.

*Google docs:* Copy-paste directly into a Google docs document is handled rather well. This seems to work especially well when the paste comes directly from a Chrome browser.

*Note* that when using complex cgroup alignments with multiple levels not every browser is able to handle this. For instance the RStudio webkit browser seems to have issues with this and a bug has been filed.

As the table uses HTML for rendering you need to be aware of that headers, row names, and cell values should try respect this for optimal display. Browsers try to compensate and frequently the tables still turn out fine but it is not advised. Most importantly you should try to use `<` and `&lt;` instead of `<` and `&gt;`. You can find a complete list of HTML characters [here](#).

Lastly, I want to mention that function was inspired by the `Hmisc::latex()` that can be an excellent alternative if you wish to switch to PDF-output. For the sibling function `tidyHtmlTable()` you can directly switch between the two using the `table_fn` argument.
See Also

`addHtmlTableStyle()`, `setHtmlTableTheme()`, `tidyHtmlTable()`, `Hmisc::latex()`

Other table functions: `tblNoLast()`, `tblNoNext()`

Examples

```r
library(magrittr)

# Basic example
output <- matrix(1:4,
                 ncol = 2,
                 dimnames = list(list("Row 1", "Row 2"),
                                 list("Column 1", "Column 2")))
htmlTable(output)
invisible(readline(prompt = "Press [enter] to continue"))

# An advanced output
output <- matrix(ncol = 6, nrow = 8)
for (nr in 1:nrow(output)) {
  for (nc in 1:ncol(output)) {
    output[nr, nc] <-
      paste0(nr, ":", nc)
  }
}
output %>% addHtmlTableStyle(align = "r",
                             col.columns = c(rep("none", 2),
                                            rep("#F5FBFF", 4)),
                             col.rgroup = c("none", "#F7F7F7"),
                             css.cell = "padding-left: .5em; padding-right: .2em;") %>%
htmlTable(header = paste(c("1st", "2nd",
                           "3rd", "4th",
                           "5th", "6th"),
                          "hdr"),
            rnames = paste(c("1st", "2nd",
                            "3rd", "4th",
                            "5th", "6th"),
                           "row"),
            rgroup = paste("Group", LETTERS[1:3]),
            n.rgroup = c(2, 4, nrow(output) - 6),
            cgroup = rbind(c("", "Column spanners", NA),
                           c("", "Cgroup 1", "Cgroup 2\&dagger;")),
            n.cgroup = rbind(c(1, 2, NA),
                             c(2, 2, 2)),
            caption = "Basic table with both column spanners (groups) and row groups",
            tfoot = "\&dagger; A table footer comment",
            cspan.rgroup = 2)
invisible(readline(prompt = "Press [enter] to continue"))

# An advanced empty table
suppressWarnings({
```
```
htmlTableWidget

htmlTable with pagination widget

Description

This widget renders a table with pagination into an htmlwidget

Usage

htmlTableWidget(
x,
number_of_entries = c(10, 25, 100),
width = NULL,
Arguments

- **x**: A data frame to be rendered
- **number_of_entries**: a numeric vector with the number of entries per page to show. If there is more than one number given, the user will be able to show the number of rows per page in the table.
- **width**: Fixed width for widget (in css units). The default is `NULL`, which results in intelligent automatic sizing based on the widget's container.
- **height**: Fixed height for widget (in css units). The default is `NULL`, which results in intelligent automatic sizing based on the widget's container.
- **elementId**: Use an explicit element ID for the widget (rather than an automatically generated one). Useful if you have other JavaScript that needs to explicitly discover and interact with a specific widget instance.
- **...**: Additional parameters passed to `htmlTable`

Value

An htmlwidget showing the paginated table

---

**htmlTableWidget-shiny**  
**Shiny bindings for htmlTableWidget**

**Description**

Output and render functions for using `htmlTableWidget` within Shiny applications and interactive Rmd documents.

**Usage**

- `htmlTableWidgetOutput(outputId, width = "100\%", height = "400px")`

- `renderHtmlTableWidget(expr, env = parent.frame(), quoted = FALSE)`

**Arguments**

- **outputId**: output variable to read from
- **width, height**: Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
- **expr**: An expression that generates a `htmlTableWidget()`
- **env**: The environment in which to evaluate `expr`.
- **quoted**: Is `expr` a quoted expression (with `quote()`)? This is useful if you want to save an expression in a variable.
Examples

```r
## Not run:
# In the UI:
htmlTableWidgetOutput("mywidget")
# In the server:
renderHtmlTableWidget({
  htmlTableWidget(iris)
})

## End(Not run)
```

---

**innerJoinByCommonCols**  A simple function for joining two tables by their intersected columns

**Description**

A simple function for joining two tables by their intersected columns

**Usage**

`innerJoinByCommonCols(x, y)`

**Arguments**

- `x`  data.frame
- `y`  data.frame

**Value**

data.frame

---

**interactiveTable**  An interactive table that allows you to limit the size of boxes

**Description**

This function wraps the htmlTable and adds JavaScript code for toggling the amount of text shown in any particular cell.
Usage

```r
interactiveTable(
  x,
  ..., 
  txt.maxlen = 20,
  button = getOption("htmlTable.interactiveTable.button", default = FALSE),
  minimized.columns,
  js.scripts = c()
)
```

```r
## S3 method for class 'htmlTable'
interactiveTable(
  tbl,
  txt.maxlen = 20,
  button = getOption("htmlTable.interactiveTable.button", default = FALSE),
  minimized.columns = NULL,
  js.scripts = c()
)
```

```r
## S3 method for class 'interactiveTable'
knit_print(x, ...)
```

```r
## S3 method for class 'interactiveTable'
print(x, useViewer, ...)
```

Arguments

- `x`  
  The interactive table that is to be printed

- `...`  
  The exact same parameters as `htmlTable()` uses

- `txt.maxlen`  
  The maximum length of a text

- `button`  
  Indicator if the cell should be clickable or if a button should appear with a plus/minus

- `minimized.columns`  
  Notifies if any particular columns should be collapsed from start

- `js.scripts`  
  If you want to add your own JavaScript code you can just add it here. All code is merged into one string where each section is wrapped in its own `<script></script>` element.

- `tbl`  
  An htmlTable object can be directly passed into the function

- `useViewer`  
  If you are using RStudio there is a viewer that can render the table within that is invoked if in `base::interactive()` mode. Set this to `FALSE` if you want to remove that functionality. You can also force the function to call a specific viewer by setting this to a viewer function, e.g. `useViewer = utils::browseURL` if you want to override the default RStudio viewer. Another option that does the same is to set the `options(viewer=utils::browseURL)` and it will default to that particular viewer (this is how RStudio decides on a viewer). Note: If you want to force all output to go through the `base::cat()` the set `options()[base::options](htmlTable.cat = T)`
Value

An htmlTable with a javascript attribute containing the code that is then printed

Examples

library(magrittr)
# A simple output
long_txt <- "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum"
short_txt <- gsub("([\-\.]\+).*", "\\1", long_txt)
cbind(rep(short_txt, 2), rep(long_txt, 2)) %>%
  addHtmlTableStyle(col.rgroup = c("#FFF", "#EEF")) %>%
  interactiveTable(minimized.columns = ncol(.),
                   header = c("Short", "Long"),
                   rnames = c("First", "Second"))

---

**prBindDataListIntoColumns**

*Merge columns into a tibble*

Description

Almost the same as `tibble::tibble()` but it solves the issue with some of the arguments being columns and some just being vectors.

Usage

`prBindDataListIntoColumns(dataList)`

Arguments

dataList list with the columns/data.frames

Value
data.frame object
**Description**

Convert all factors to characters to print them as they expected.

**Usage**

```r
prConvertDfFactors(x)
```

**Arguments**

- `x` The matrix/data.frame with the data. For the `print` and `knit_print` it takes a string of the class `htmlTable` as `x` argument.

**Value**

The data frame with factors as characters.

**Description**

This function is a wrapper to `base::rle()` that does exactly this but is a little too picky about input values.

**Usage**

```r
prepGroupCounts(x)
```

**Arguments**

- `x` The vector to process.

**Value**

```r
list(n = rle$lengths, names = rle$values)
```

**Examples**

```r
prepGroupCounts(c(1:3, 3:1))
```
**prEscapeHtml**

*Remove html entities from table*

**Description**

Removes the htmlEntities from table input data. Note that this also replaces $ signs in order to remove the MathJax issue.

**Usage**

```r
prEscapeHtml(x)
```

**Arguments**

- `x` The matrix/data.frame with the data. For the `print` and `knit_print` it takes a string of the class `htmlTable` as `x` argument.

**Value**

- `x` without the html entities

**See Also**

Other hidden helper functions for htmlTable: `prAddCells()`, `prAddEmptySpacerCell()`, `prAddSemicolon2StrEnd()`, `prGetCgroupHeader()`, `prGetRowlabelPos()`, `prGetStyle()`, `prPrepInputMatrixDimensions()`, `prPrepareAlign()`, `prPrepareCgroup()`, `prTblNo()`

**prExtractElementsAndConvertToTbl**

*Extract the elements and generate a table with unique elements*

**Description**

Extract the elements and generate a table with unique elements.

**Usage**

```r
prExtractElementsAndConvertToTbl(x, elements)
```

**Arguments**

- `x` list with columns to be joined
- `elements` char vector with the elements to select
Description

For the vignettes there is a dataset downloaded by using the `get_pxweb_data()` call. The data is from SCB (Statistics Sweden) and downloaded using the pxweb package:

Author(s)

Max Gordon <max@gforge.se>

References

https://scb.se

Examples

```r
## Not run:
# The data was generated through downloading via the API
library(pxweb)

# Get the last 15 years of data (the data always lags 1 year)
current_year <- as.integer(format(Sys.Date(), "%Y")) - 1
SCB <- get_pxweb_data(
  dims = list(Region = c('00', '01', '03', '25'),
              Kon = c('1', '2'),
              ContentsCode = c('BE0101G9'),
              Tid = (current_year-14):current_year),
  clean = TRUE)

# Some cleaning was needed before use
SCB$region <- factor(substring(as.character(SCB$region), 4))
Swe_ltrs <- c("å" = "&aring;",
              "Å" = "&Aring;",
              "ä" = "&auml;",
              "Ä" = "&Auml;",
              "ö" = "&ouml;",
              "Ö" = "&Ouml;")
for (i in 1:length(Swe_ltrs)) {
  levels(SCB$region) <- gsub(names(Swe_ltrs)[i],
                            Swe_ltrs[i],
                            levels(SCB$region))
}

save(SCB, file = "data/SCB.rda")
## End(Not run)
```
Description

The theme guides many of the non-data objects visual appearance. The theme can be over-ridden by settings for each table. To get a more complete understanding of the options, see `addHtmlTableStyle()`.

Usage

```r
setHtmlTableTheme(
  theme = NULL,
  align = NULL,
  align.header = NULL,
  align.cgroup = NULL,
  css.rgroup = NULL,
  css.rgroup.sep = NULL,
  css.tspanner = NULL,
  css.tspanner.sep = NULL,
  css.total = NULL,
  css.cell = NULL,
  css.cgroup = NULL,
  css.header = NULL,
  css.header.border_bottom = NULL,
  css.class = NULL,
  css.table = NULL,
  pos.rowlabel = NULL,
  pos.caption = NULL,
  col.rgroup = NULL,
  col.columns = NULL,
  padding.rgroup = NULL,
  padding.tspanner = NULL,
  spacer.celltype = NULL,
  spacer.css.cgroup.bottom.border = NULL,
  spacer.css = NULL,
  spacer.content = NULL
)
```

Arguments

- **theme**: A list containing all the styles or a string that is matched to some of the preset style (See details below in the Theme options section). *Note*: the full name of the theme is not required as they are matched using `base::match.arg()`.
- **align**: A character strings specifying column alignments, defaulting to 'c' to center. Valid chars for alignments are l = left, c = center and r = right. You can also specify align='c|c' and other LaTeX tabular formatting. If you want to set
the alignment of the rownames this string needst to be ncol(x) + 1, otherwise it automatically pads the string with a left alignment for the rownames.

align.header  A character strings specifying alignment for column header, defaulting to centered, i.e. [paste](base::paste(rep('c',ncol(x)),collapse='')).

align.cgroup  The justification of the cgroups

css.rgroup    CSS style for the rgroup, if different styles are wanted for each of the rgroups you can just specify a vector with the number of elements.

css.rgroup.sep The line between different rgroups. The line is set to the TR element of the lower rgroup, i.e. you have to set the border-top/padding-top etc to a line with the expected function. This is only used for rgroups that are printed. You can specify different separators if you give a vector of rgroup length (this is since the first rgroup doesn’t have a separator).

css.tspanner  The CSS style for the table spanner.

css.tspanner.sep The line between different spanners.

css.total     The css of the total row if such is activated.

css.cell      The css.cell element allows you to add any possible CSS style to your table cells. See section below for details.

css.cgroup    The same as css.class but for cgroup formatting.

css.header    The header style, not including the cgroup style

css.header.border_bottom The header bottom-border style, e.g. border-bottom: 1px solid grey

css.class     The html CSS class for the table. This allows directing html formatting through CSS directly at all instances of that class. Note: unfortunately the CSS is frequently ignored by word processors. This option is mostly inteded for web-presentations.

css.table     You can specify the the style of the table-element using this parameter

pos.rowlabel  Where the rowlabel should be positioned. This value can be "top", "bottom", "header", or a integer between 1 and nrow(cgroup) + 1. The options "bottom" and "header" are the same, where the row label is presented at the same level as the header.

pos.caption    Set to "bottom" to position a caption below the table instead of the default of "top".

col.rgroup    Alternating colors (zebra striping/banded rows) for each rgroup; one or two colors is recommended and will be recycled.

col.columns   Alternating colors for each column.

padding.rgroup Generally two non-breakings spaces, i.e. &nbsp;&nbsp;, but some journals only have a bold face for the rgroup and leaves the subelements unindented.

padding.tspanner The table spanner is usually without padding but you may specify padding similar to padding.rgroup and it will be added to all elements, including the rgroup elements. This allows for a 3-level hierarchy if needed.
When using `cgroup` the table headers are separated through an empty HTML cell that is by default filled with \&nbsp; (no-breaking-space) that prevents the cell from collapsing. The purpose of this is to prevent the headers' underline from bleeding into one as the underline is for the entire cell. You can alter this behavior by changing this option, valid options are `single_empty`, `skip`, `double_cell`. The `single_empty` is the default, the `skip` lets the header bleed into one and skips entirely, `double_cell` is for having two cells so that a vertical border ends up centered (specified using the `align` option). The arguments are matched internally using `base::match.arg` so you can specify only a part of the name, e.g. “sk” will match “skip”.

Defaults to `none` and used for separating `cgroup` headers. Due to a browser bug this is sometimes ignored and you may therefore need to set this to `1px solid white` to enforce a white border.

If you want the spacer cells to share settings you can set it here.

Defaults to `&nbsp;` as this guarantees that the cell is not collapsed and is highly compatible when copy-pasting to word processors.

### Value

An invisible list with the new theme

### Theme options

The styles available are:

- **standard**: The traditional standard style used in `htmlTable()` since the early days
- **Google docs**: A style that is optimized for copy-pasting into documents on Google drive. This is geared towards minimal padding and margins so that the table is as dense as possible.
- **blank**: Just as the name suggests the style is completely empty in terms of CSS. Positions for `rowlabel` and `caption` are set to `bottom` as these cannot be blank.

You can also provide your own style. Each style should be a names vector, e.g. `c(width = "100px", color = "red")` or just a real css string, `width: 100px; color: red;`.

### Examples

```r
## Not run:
setHtmlTableTheme("Google", align = "r")
## End(Not run)
```
**tblNoLast**

*Gets the last table number*

**Description**

The function relies on `options("table_counter")` in order to keep track of the last number.

**Usage**

```r
tblNoLast(roman = getOption("table_counter_roman", FALSE))
```

**Arguments**

- `roman` Whether or not to use roman numbers instead of arabic. Can also be set through `options(table_caption_no_roman = TRUE)`

**See Also**

Other table functions: `htmlTable`, `tblNoNext()`

**Examples**

```r
org_opts <- options(table_counter=1)
tblNoLast()
options(org_opts)
```

---

**tblNoNext**

*Gets the next table number*

**Description**

The function relies on `options("table_counter")` in order to keep track of the last number.

**Usage**

```r
tblNoNext(roman = getOption("table_counter_roman", FALSE))
```

**Arguments**

- `roman` Whether or not to use roman numbers instead of arabic. Can also be set through `options(table_caption_no_roman = TRUE)`

**See Also**

Other table functions: `htmlTable`, `tblNoLast()`
Examples

```r
org_opts <- options(table_counter=1)
tblNoNext()
options(org_opts)
```

**tidyHtmlTable**

Generate an htmlTable using tidy data as input

Description

Builds an htmlTable by mapping columns from the input data, \( x \), to elements of an output htmlTable (e.g. rnames, header, etc.). This provides a ggplot2-like interface you can pivot rows/columns as required. The typical use case is when you are using dplyr together with the tidyverse data processing functions, see vignette("tidyHtmlTable").

Usage

```r
tidyHtmlTable(
  x,
  value,
  header,
  rnames,
  rgroup,
  hidden_rgroup,
  cgroup,
  tspanner,
  hidden_tspanner,
  skip_removal_warning = getOption("htmlTable.skip_removal_warning", FALSE),
  rnames_unique,
  table_fn = htmlTable,
  ...
)
```

Arguments

- **x** Tidy data used to build the htmlTable
- **value** The column containing values filling individual cells of the output htmlTable. Defaults to "value" as used by tidy::pivot_longer().
- **header** The column in \( x \) specifying column headings
- **rnames** The column in \( x \) specifying row names. Defaults to "name" as used by tidy::pivot_longer().
- **rgroup** The column in \( x \) specifying row groups
- **hidden_rgroup** strings with rgroup values that will be hidden (the values will still be there but the spanner will be set to "" and thus ignored by htmlTable()).
- **cgroup** The column or columns in \( x \) specifying the column groups
- **tspanner** The column in \( x \) specifying tspanner groups
hidden_tspanner
strings with tspanner values that will be hidden (the values will still be there but the spanner will be set to "" and thus ignored by htmlTable()).

skip_removal_warning
boolean suppress warning message when removing NA columns.

rnames_unique
Similar to rnames where we have issues with the uniqueness of a row as selected by the select statement. See section below on Row uniqueness.

table_fn
The table function that should receive the input, defaults to htmlTable() but you can provide any function that uses the same input formatting. This package was inspired by the Hmisc::latex() function.

... Additional arguments that will be passed to the inner htmlTable() function

Value
Returns html code that will build a pretty table

Column-mapping parameters

The tidyHtmlTable function is designed to work like ggplot2 in that columns from x are mapped to specific parameters from the htmlTable function. At minimum, x must contain the names of columns mapping to rnames, header, and rnames. header and rnames retain the same meaning as in the htmlTable function. value contains the individual values that will be used to fill each cell within the output htmlTable.

A full list of parameters from htmlTable which may be mapped to columns within x include:

• value
• header
• rnames
• rgroup
• cgroup
• tspanner

Also note that the coordinates of each value within x must be unambiguously mapped to a position within the output htmlTable. Therefore, the each row-wise combination the variables specified above contained in x must be unique.

Sorting

Sorting of rows is as of version 2.0 skipped as we may have situations with repeating inputs and this can easily be performed pre-function by calling dplyr::arrange() prior to tidyHtmlTable.

Columns are sorted by arrange(cgroup, header) where cgroup will be expanded to the columns of the cgroup argument, e.g. cgroup = c(a, b), header = c will become arrange(a, b, c). If you want to sort in non-alphabetic order you can provide a factor variable and that information will be retained.
Hidden values

htmlTable Allows for some values within rgroup, cgroup, etc. to be specified as "". The following parameters allow for specific values to be treated as if they were a string of length zero in the htmlTable function.

- hidden_rgroup
- hidden_tspanner

Simple tibble output

The tibble discourages the use of row names. There is therefore a convenience option for tidyHtmlTable where you can use the function just as you would with htmlTable() where rnames is populated with the rnames argument provided using tidyselect syntax (defaults to the "names" column if present in the input data).

Additional dependencies

In order to run this function you also must have dplyr, tidyr, tidyselect and purrr packages installed. These have been removed due to the additional 20 Mb that these dependencies added (issue #47). Note: if you use tidyverse it will already have all of these and you do not need to worry.

Row uniqueness

Usually each row should have a unique combination of rnames, header, cgroup, ... Sometimes though rows come in a distinct order and the order identifies the row more than the name. If we are identifying bone fractures using the AO-classification we will have classes ranging in the form of:

- A
- A1
- A1.1
- A2
- A2.1
- A2.2
- B
- ...

we could therefore like to simplify the names to:

- A
- .1
- ...1
- .2
- ...1
- ...2
- B
And still retain the ability to follow what row corresponds to a given class. To do this you need to provide the original unique name in the parameter `rnames_unique` as `tidyHtmlTable` otherwise will merge rows not intended for merging.

Note it is recommended that you verify with the full names just to make sure that any unexpected row order change has happened in the underlying pivot functions.

**See Also**

`htmlTable()`

**Examples**

```r
library(tibble)
library(dplyr)
library(tidyr)

# Prep and select basic data
data("mtcars")
base_data <- mtcars %>%
  rownames_to_column() %>%
  mutate(gear = paste(gear, "Gears"),
    cyl = paste(cyl, "Cylinders")) %>%
  select(rrownames, cyl, gear, wt, mpg, qsec)

base_data %>%
pivot_longer(names_to = "per_metric",
    cols = c(wt, mpg, qsec)) %>%
group_by(cyl, gear, per_metric) %>%
summarise(value_Mean = round(mean(value), 1),
    value_Min = round(min(value), 1),
    value_Max = round(max(value), 1),
    .groups = "drop") %>%
pivot_wider(names_from = per_metric,
    values_from = starts_with("value_")) %>%
# Round the values into a nicer format where we want the weights to have two decimals
txtRound(ends_with("_wt"), digits = 2) %>%
txtRound(starts_with("value") & !ends_with("_wt"), digits = 1) %>%
# Convert into long format
pivot_longer(cols = starts_with("value_"), names_prefix = "value_") %>%
separate(name, into = c("summary_stat", "per_metric")) %>%
# Without sorting the row groups wont appear right
# If the columns end up in the wrong order you may want to change the columns
# into factors
arrange(per_metric) %>%
addHtmlTableStyle(align = "r") %>%
tidyHtmlTable(
    header = gear,
    cgroup = cyl,
    rnames = summary_stat,
    rgroup = per_metric,
    ...
skip_removal_warning = TRUE)

---

**txtInt**  
*SI or English formatting of an integer*

### Description

English uses ',' between every 3 numbers while the SI format recommends a ' ' if x > 10^4. The scientific form 10e+? is furthermore avoided.

### Usage

```r
txtInt(
  x,
  language = getOption("htmlTable.language", default = "en"),
  html = getOption("htmlTable.html", default = TRUE),
  ...
)
```

### Arguments

- **x**  
  The integer variable

- **language**  
  The ISO-639-1 two-letter code for the language of interest. Currently only English is distinguished from the ISO format using a ',' as the separator.

- **html**  
  If the format is used in HTML context then the space should be a non-breaking space, &nbsp;

- **...**  
  Passed to `base::format()`

### Value

string

### See Also

Other text formatters: `txtMergeLines()`, `txtPval()`, `txtRound()`

### Examples

```
txtInt(123)

# Supplying a matrix
txtInt(matrix(c(1234, 12345, 123456, 1234567), ncol = 2))

# Missing are returned as empty strings, i.e. ""
txtInt(c(NA, 1e7))
```
**Description**

This function helps you to do a table header with multiple lines in both HTML and in LaTeX. In HTML this isn’t that tricky, you just use the `<br />` command but in LaTeX I often find myself writing `vbox/hbox` stuff and therefore I’ve created this simple helper function.

**Usage**

```
txtMergeLines(..., html = 5)
```

**Arguments**

- `...` The lines that you want to be joined
- `html` If HTML compatible output should be used. If `FALSE` it outputs LaTeX formatting. Note if you set this to 5 then the HTML5 version of `br` will be used: `<br>` otherwise it uses the `<br/>` that is compatible with the XHTML-formattting.

**Value**

String with `asis_output` wrapping if html output is activated.

**See Also**

Other text formatters: `txtInt()`, `txtPval()`, `txtRound()`

**Examples**

```
txtMergeLines("hello", "world")
txtMergeLines("hello", "world", html=FALSE)
txtMergeLines("hello", "world", list("A list", "is OK"))
```

---

**txtPval**

*Formats the p-values*

**Description**

Gets formatted p-values. For instance you often want 0.1234 to be 0.12 while also having two values up until a limit, i.e. 0.01234 should be 0.012 while 0.001234 should be 0.001. Furthermore you want to have `< 0.001` as it becomes ridiculous to report anything below that value.

**Usage**

```
txtPval(pvalues, lim.2dec = 10^-2, lim.sig = 10^-4, html = TRUE, ...)
```
**Arguments**

- **pvalues**: The p-values
- **lim.2dec**: The limit for showing two decimals. E.g. the p-value may be 0.056 and we may want to keep the two decimals in order to emphasize the proximity to the all-mighty 0.05 p-value and set this to $10^{-2}$. This allows that a value of 0.0056 is rounded to 0.006 and this makes intuitive sense as the 0.0056 level as this is well below the 0.05 value and thus not as interesting to know the exact proximity to 0.05. Disclaimer: The 0.05-limit is really silly and debated, unfortunately it remains a standard and this package tries to adapt to the current standards in order to limit publication associated issues.
- **lim.sig**: The significance limit for the less than sign, i.e. the '<'
- **html**: If the less than sign should be < or &lt; as needed for HTML output.
- **...**: Currently only used for generating warnings of deprecated call parameters.

**Value**

vector

**See Also**

Other text formatters: `txtInt()`, `txtMergeLines()`, `txtRound()`

**Examples**

```r
# txtPval(c(0.10234, 0.010234, 0.0010234, 0.000010234))
```

---

**txtRound**

*A convenient rounding function*

**Description**

Regular round often looses trailing 0:s as these are truncated, this function converts everything to strings with all 0:s intact so that tables have the correct representation, e.g. `txtRound(1.01, digits = 1)` turns into 1.0.

**Usage**

```r
txtRound(x, ...)
```

## Default S3 method:

```r
txtRound(
  x,
  digits = 0,
  digits.nonzero = NA,
  txt.NA = "",
  dec = getOption("htmlTable.decimal_marker", default = "."),
)```
scientific = NULL,
txtInt_args = getOption("htmlTable.round_int", default = NULL),
...
)

## S3 method for class 'table'
txtRound(x, ...)

## S3 method for class 'matrix'
txtRound(x, digits = 0, excl.cols = NULL, excl.rows = NULL, ...)

## S3 method for class 'data.frame'
txtRound(x, ..., digits = 0L)

### Arguments

- **x**  
The value/vector/data.frame/matrix to be rounded
- **...**  
Passed to next method
- **digits**  
The number of digits to round each element to. For matrix or data.frame input you can provide a vector/list. An unnamed vector/list must equal the length of the columns to round. If you provide a named vector you can provide specify per column the number of digits, and then use .default for those columns that we don’t need to have separate values for.
- **digits.nonzero**  
The number of digits to keep if the result is close to zero. Sometimes we have an entire table with large numbers only to have a few but interesting observation that are really interesting
- **txt.NA**  
The string to exchange NA with
- **dec**  
The decimal marker. If the text is in non-English decimal and string formatted you need to change this to the appropriate decimal indicator. The option for this is htmlTable.decimal_marker.
- **scientific**  
If the value should be in scientific format.
- **txtInt_args**  
A list of arguments to pass to txtInt() if that is to be used for large values that may require a thousands separator. The option for this is htmlTable.round_int. If TRUE it will activate the txtInt functionality.
- **excl.cols**  
Columns to exclude from the rounding procedure when provided a matrix. This can be either a number or regular expression. Skipped if x is a vector.
- **excl.rows**  
Rows to exclude from the rounding procedure when provided a matrix. This can be either a number or regular expression.

### Value

matrix/data.frame

### Tidy-select with data.frame

The txtRound can use data.frame for input. This allows us to use tidyselect patterns as popularized by dplyr.
See Also

Other text formatters: `txtInt()`, `txtMergeLines()`, `txtPval()`

Examples

```r
# Basic usage
txtRound(1.023, digits = 1)
#> 1.0

txtRound(pi, digits = 2)
#> 3.14

txtRound(12344, digits = 1, txtInt_args = TRUE)
#> 12,344.0

# Using matrix
mx <- matrix(c(1, 1.11, 1.25,
               2.50, 2.55, 2.45,
               3.2313, 3, pi),
              ncol = 3, byrow = TRUE)
txtRound(mx, digits = 1)
#> [,1] [,2] [,3]
#> [1,] "1.0" "1.1" "1.2"
#> [2,] "2.5" "2.5" "2.5"
#> [3,] "3.2" "3.0" "3.1"

# Using a data.frame directly
library(magrittr)
data("mtcars")
# If we want to round all the numerical values
mtcars %>%
txtRound(digits = 1)

# If we want only want to round some columns
mtcars %>%
txtRound(wt, qsec_txt = qsec, digits = 1)
```

---

vector2string  
Collapse vector to string

Description

Merges all the values and outputs a string formatted as `1st element`, `2nd element`, ...

Usage

```r
vector2string(  
  x,
)```
vector2string

quotation_mark = "",
collapse = sprintf("%s, %s", quotation_mark, quotation_mark)
)

Arguments

x The vector to collapse
quotation_mark The type of quote to use
collapse The string that separates each element

Value

A string with ', ' separation

Examples

vector2string(1:4)
vector2string(c("a", "b' b", "c"))
vector2string(c("a", "b' b", "c"), quotation_mark = "")
Index

* data
  SCB, 23
* hidden helper functions for htmlTable
  prEscapeHtml, 22
* htmlTableStyle
  addHtmlTableStyle, 2
  hasHtmlTableStyle, 8
* table functions
  htmlTable, 9
  tblNoLast, 27
  tblNoNext, 27
* text formatters
  txtInt, 32
  txtMergeLines, 33
  txtPval, 33
  txtRound, 34

addHtmlTableStyle, 2, 9
addHtmlTableStyle(), 9, 12, 15, 24
appendHtmlTableStyle
  (addHtmlTableStyle, 2

base::attr(), 7
base::attributes(), 5
base::cat(), 12, 19
base::format(), 32
base::interactive(), 12, 13, 19
base::match.arg, 5, 26
base::match.arg(), 24
base::rle(), 21

colnames(x), 10
concatHtmlTables, 6
dplyr::arrange(), 29

gHtmlTableStyle, 7
gHtmlTableTheme, 7
getOption(htmlTable.theme)(), 8
hasHtmlTableStyle, 6, 8

Hmisc::latex(), 14, 15, 29
htmlTable, 9, 27
htmlTable(), 2, 4, 6–8, 19, 24, 26, 28–31
htmlTableWidget, 16
htmlTableWidget(), 17
htmlTableWidget-shiny, 17
htmlTableWidgetOutput
  (htmlTableWidget-shiny), 17
innerJoinByCommonCols, 18
interactiveTable, 18

knit_print.htmlTable (htmlTable), 9
knit_print.interactiveTable
  (interactiveTable), 18
knitr::asis_output(), 13
knitr::knit_print(), 13

prAddCells, 22
prAddEmptySpacerCell, 22
prAddSemicolon2StrEnd, 22
prBindDataListIntoColumns, 20
prConvertDfFactors, 21
prepGroupCounts, 21
prEscapeHtml, 22
prExtractElementsAndConvertToTbl, 22
prGetCgroupHeader, 22
prGetRowlabelPos, 22
prGetStyle, 22
print.htmlTable (htmlTable), 9
print.interactiveTable
  (interactiveTable), 18
prPrepareAlign, 22
prPrepareCgroup, 22
prPrepareInputMatrixDimensions, 22
prTblNo, 22

renderHtmlTableWidget
  (htmlTableWidget-shiny), 17
rownames(x), 10
INDEX

SCB, 23
setHtmlTableTheme, 24
setHtmlTableTheme(), 5, 9, 15
sprintf(), 13

tblNoLast, 15, 27, 27
tblNoNext, 15, 27, 27
tibble::tibble(), 20
tidyHtmlTable, 28
tidyHtmlTable(), 9, 14, 15
tidy::pivot_longer(), 28
txtInt, 32, 33, 34, 36
txtInt(), 35
txtMergeLines, 32, 33, 34, 36
txtMergeLines(), 11, 15
txtPval, 32, 33, 33, 36
txtRound, 32–34, 34

vector2string, 36