

Package ‘htmlTable’

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Title Advanced Tables for Markdown/HTML

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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 word processors such as 'MS Word' or 'LibreOffice'. The package also contains a few text formatting functions that help outputting text compatible with HTML/LaTeX.

License GPL (>= 3)

URL <http://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)

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addHtmlTableStyle	<i>Add/set css and other style options</i>
-------------------	--

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,
  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
)

```

```

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
)

```

Arguments

<code>x</code>	The object that you later want to pass into <code>htmlTable()</code> .
<code>align</code>	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 <code>align='c c'</code> and other LaTeX tabular formatting. If you want to set the alignment of the rownames this string needst to be <code>ncol(x) + 1</code> , otherwise it automatically pads the string with a left alignment for the rownames.
<code>align.header</code>	A character strings specifying alignment for column header, defaulting to cen-

	tered, i.e. <code>[paste][base::paste](rep('c',ncol(x)),collapse=")</code> .
<code>align.cgroup</code>	The justification of the cgroups
<code>css.rgroup</code>	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.
<code>css.rgroup.sep</code>	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).
<code>css.tspanner</code>	The CSS style for the table spanner.
<code>css.tspanner.sep</code>	The line between different spanners.
<code>css.total</code>	The css of the total row if such is activated.
<code>css.cell</code>	The <code>css.cell</code> element allows you to add any possible CSS style to your table cells. See section below for details.
<code>css.cgroup</code>	The same as <code>css.class</code> but for cgroup formatting.
<code>css.header</code>	The header style, not including the cgroup style
<code>css.header.border_bottom</code>	The header bottom-border style, e.g. <code>border-bottom: 1px solid grey</code>
<code>css.class</code>	The html CSS class for the table. This allows directing html formatting through CSS directly at all instances of that class. <i>Note:</i> unfortunately the CSS is frequently ignored by word processors. This option is mostly intended for web-presentations.
<code>css.table</code>	You can specify the the style of the table-element using this parameter
<code>pos.rowlabel</code>	Where the rowlabel should be positioned. This value can be "top", "bottom", "header", or a integer between 1 and <code>nrow(cgroup) + 1</code> . The options "bottom" and "header" are the same, where the row label is presented at the same level as the header.
<code>pos.caption</code>	Set to "bottom" to position a caption below the table instead of the default of "top".
<code>col.rgroup</code>	Alternating colors (zebra striping/banded rows) for each rgroup; one or two colors is recommended and will be recycled.
<code>col.columns</code>	Alternating colors for each column.
<code>padding.rgroup</code>	Generally two non-breaking spaces, i.e. <code>&nbsp;&nbsp;</code> , but some journals only have a bold face for the rgroup and leaves the subelements unindented.
<code>padding.tspanner</code>	The table spanner is usually without padding but you may specify padding similar to <code>padding.rgroup</code> and it will be added to all elements, including the rgroup elements. This allows for a 3-level hierarchy if needed.

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 = nrow(df), ncol = ncol(df))`

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

<code>tables</code>	A list of htmlTable() s to be concatenated
<code>headers</code>	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
output <- matrix(1:4,
                 ncol=2,
                 dimnames = list(list("Row 1", "Row 2"),
                                list("Column 1", "Column 2")))

htmlTable(output)

#####
# Below saves all outputs to a list that #
# it outputted all at once at the end #
# this is mostly for allowing you to view #
# and evaluate each example section as #
# they would otherwise be overwritten by #
# eachother #
#####
all_tables <- list()
htmlTable(output) ->
  all_tables[["Basic table"]]

# 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",
                             paste0(4:8, "th")),
                           "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) ->
all_tables[["Advanced table"]]

# An advanced empty table
suppressWarnings({
  matrix(ncol = 6,
        nrow = 0) %>%
  addHtmlTableStyle(col.columns = c(rep("none", 2),
                                    rep("#F5FBFF", 4)),
                    col.rgroup = c("none", "#F7F7F7"),
                    css.cell = "padding-left: .5em; padding-right: .2em;") %>%
  htmlTable(align="r",
            header = paste(c("1st", "2nd",
                              "3rd", "4th",
                              "5th", "6th"),
                          "hdr"),
            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 empty table with column spanners (groups) and ignored row colors",
            tfoot="&dagger; A table footer comment",
            cspan.rgroup = 2) ->
all_tables[["Empty table"]]
})

# An example of how to use the css.cell for header styling
simple_output <- matrix(1:4, ncol=2)

simple_output %>%
  addHtmlTableStyle(css.cell = rbind(rep("background: lightgrey; font-size: 2em;",
                                         times=ncol(simple_output)),
                                     matrix("",
                                             ncol=ncol(simple_output),
                                             nrow=nrow(simple_output)))) %>%
  htmlTable(header = LETTERS[1:2]) ->
all_tables[["Header formatting"]]

concatHtmlTables(all_tables)
# See vignette("tables", package = "htmlTable")
# for more examples

```

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	<i>Check if object has a style set to it</i>
-------------------	--

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 <code>htmlTable()</code> .
style_name	A string that contains the style name.

Value

logical TRUE if the attribute and style is not NULL

`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.ingroup = NULL,  
  cgroup = NULL,  
  n.cgroup = NULL,  
  tspanner = NULL,  
  n.tspanner = NULL,  
  total = NULL,  
  ctable = TRUE,  
  compatibility = getOption("htmlTableCompat", "LibreOffice"),  
  cspan.ingroup = "all",  
  escape.html = FALSE,  
  ...  
)
```

Default S3 method:

```
htmlTable(  
  x,  
  header = NULL,  
  rnames = NULL,  
  rowlabel = NULL,  
  caption = NULL,  
  tfoot = NULL,  
  label = NULL,  
  rgroup = NULL,  
  n.ingroup = 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 <code>colnames(x)</code>
rnames	Default row names are generated from <code>rownames(x)</code> . If you provide FALSE then it will skip the row names. <i>Note:</i> For data.frames if you do <code>rownames(my_dataframe) <-NULL</code> 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 <code>txtMergeLines()</code> 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 <code>see table 2</code> . This is known as the element's id attribute, i.e. table id, in HTML lingo, and should be unique id for an HTML element in contrast to the <code>css.class</code> element attribute.
rgroup	A vector of character strings containing headings for row groups. <code>n.rgroup</code> must be present when <code>rgroup</code> is given. See detailed description in section below.
n.rgroup	An integer vector giving the number of rows in each grouping. If <code>rgroup</code> is not specified, <code>n.rgroup</code> is just used to divide off blocks of rows by horizontal lines. If <code>rgroup</code> is given but <code>n.rgroup</code> is omitted, <code>n.rgroup</code> will default so that each row group contains the same number of rows. If you want additional <code>rgroup</code> column elements to the cells you can set the "add" attribute to <code>rgroup</code> through <code>attr(rgroup, "add")</code> , 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 <i>column spanners</i> . If you want a column <i>not</i> to have a spanner then put that column as "". If you pass cgroup and n.cgroup 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 $\text{sum}(\text{n.tspanner}) < \text{length}(\text{rgroup})$) 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".
ctable compatibility	If the table should have a double top border or a single a' la LaTeX ctable style 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 additionally 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 (eg. 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 preprocess 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 = "Table %s: ")` 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 fro 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.

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 - loses font-styling, lines and general feel
- **Edge** (v. 25.10586.0.0) Works poorly - loses 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 `<` instead of `<` and `>` instead of `>`. 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()`, `txtMergeLines()`, `Hmisc::latex()`

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

Examples

```
library(magrittr)

# Basic example
output <- matrix(1:4,
                 ncol=2,
                 dimnames = list(list("Row 1", "Row 2"),
                                list("Column 1", "Column 2")))

htmlTable(output)

#####
# Below saves all outputs to a list that #
# it outputted all at once at the end #
```

```

# this is mostly for allowing you to view #
# and evaluate each example section as   #
# they would otherwise be overwritten by #
# eachother                               #
#####
all_tables <- list()
htmlTable(output) ->
  all_tables[["Basic table"]]

# 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",
                             paste0(4:8, "th")),
                          "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) ->
  all_tables[["Advanced table"]]

# An advanced empty table
suppressWarnings({
  matrix(ncol = 6,
        nrow = 0) %>%
    addHtmlTableStyle(col.columns = c(rep("none", 2),
                                       rep("#F5FBFF", 4)),
                    col.rgroup = c("none", "#F7F7F7"),
                    css.cell = "padding-left: .5em; padding-right: .2em;") %>%

```

```

htmlTable(align="r",
  header = paste(c("1st", "2nd",
                  "3rd", "4th",
                  "5th", "6th"),
                "hdr"),
  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 empty table with column spanners (groups) and ignored row colors",
  tfoot="&dagger; A table footer comment",
  cspan.rgroup = 2) ->
all_tables[["Empty table"]]
})

# An example of how to use the css.cell for header styling
simple_output <- matrix(1:4, ncol=2)

simple_output %>%
  addHtmlTableStyle(css.cell = rbind(rep("background: lightgrey; font-size: 2em;",
                                        times=ncol(simple_output)),
                                    matrix("",
                                            ncol=ncol(simple_output),
                                            nrow=nrow(simple_output)))) %>%

  htmlTable(header = LETTERS[1:2]) ->
all_tables[["Header formatting"]]

concatHtmlTables(all_tables)
# See vignette("tables", package = "htmlTable")
# for more examples

```

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,
  height = NULL,
  elementId = 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 <code>htmlTableWidget()</code>
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

```
## 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

```

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

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

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

## 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 it's own <code><script></script></code> element.
tbl	An <code>htmlTable</code> 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 evoked if in <code>base::interactive()</code> mode. Set this to <code>FALSE</code> 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. <code>useViewer = utils::browseURL</code> if you want to override the default RStudio viewer. Another option that does the same is to set the options(<code>viewer=utils::browseURL</code>) and it will default to that particular viewer (this is how RStudio decides on a viewer). <i>Note:</i> If you want to force all output to go through the <code>base::cat()</code> the set <code>[options][base::options](htmlTable.cat = TRUE)</code> .

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

prConvertDfFactors *Convert all factors to characters to print them as they expected*

Description

Convert all factors to characters to print them as they expected

Usage

```
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

prepGroupCounts *Retrieves counts for rgroup, cgroup, & tspanner arguments*

Description

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

Usage

```
prepGroupCounts(x)
```

Arguments

x The vector to process

Value

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

Examples

```
prepGroupCounts(c(1:3, 3:1))
```

prEscapeHtml	<i>Remove html entities from table</i>
--------------	--

Description

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

Usage

```
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\(\)](#), [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

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

Arguments

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

SCB

Average age in Sweden

Description

For the vignettes there is a dataset downloaded by using the `get_pxweb_data()` call. The data is from SCB ([Statistics Sweden](http://scb.se)) and downloaded using the [pxweb package](#):

Author(s)

Max Gordon <max@gforge.se>

References

<http://scb.se>

Examples

```
## 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(
  url = "http://api.scb.se/OV0104/v1/doris/en/ssd/BE/BE0101/BE0101B/BefolkningMedelAlder",
  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)
```

setHtmlTableTheme *Set or update theme for `htmlTable()`*

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

```
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
)
```

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 <i>Theme options</i> section). <i>Note:</i> the full name of the theme is not required as they are matched using <code>base::match.arg()</code> .
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 <code>align='c c'</code> and other LaTeX tabular formatting. If you want to set the alignment of the rownames this string needst to be <code>ncol(x) + 1</code> , 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. <code>[paste][base::paste](rep('c',ncol(x)),collapse=")</code> .

<code>align.cgroup</code>	The justification of the cgroups
<code>css.rgroup</code>	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.
<code>css.rgroup.sep</code>	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).
<code>css.tspanner</code>	The CSS style for the table spanner.
<code>css.tspanner.sep</code>	The line between different spanners.
<code>css.total</code>	The css of the total row if such is activated.
<code>css.cell</code>	The <code>css.cell</code> element allows you to add any possible CSS style to your table cells. See section below for details.
<code>css.cgroup</code>	The same as <code>css.class</code> but for cgroup formatting.
<code>css.header</code>	The header style, not including the cgroup style
<code>css.header.border_bottom</code>	The header bottom-border style, e.g. <code>border-bottom: 1px solid grey</code>
<code>css.class</code>	The html CSS class for the table. This allows directing html formatting through CSS directly at all instances of that class. <i>Note:</i> unfortunately the CSS is frequently ignored by word processors. This option is mostly intended for web-presentations.
<code>css.table</code>	You can specify the the style of the table-element using this parameter
<code>pos.rowlabel</code>	Where the rowlabel should be positioned. This value can be "top", "bottom", "header", or a integer between 1 and <code>nrow(cgroup) + 1</code> . The options "bottom" and "header" are the same, where the row label is presented at the same level as the header.
<code>pos.caption</code>	Set to "bottom" to position a caption below the table instead of the default of "top".
<code>col.rgroup</code>	Alternating colors (zebra striping/banded rows) for each rgroup; one or two colors is recommended and will be recycled.
<code>col.columns</code>	Alternating colors for each column.
<code>padding.rgroup</code>	Generally two non-breakings spaces, i.e. <code>&nbsp;&nbsp;</code> , but some journals only have a bold face for the rgroup and leaves the subelements unindented.
<code>padding.tspanner</code>	The table spanner is usually without padding but you may specify padding similar to <code>padding.rgroup</code> and it will be added to all elements, including the rgroup elements. This allows for a 3-level hierarchy if needed.

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

```
## 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

```
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

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

tblNoNext	<i>Gets the next table number</i>
-----------	-----------------------------------

Description

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

Usage

```
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

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

tidyHtmlTable	<i>Generate an htmlTable using tidy data as input</i>
---------------	---

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

```
tidyHtmlTable(
  x,
  value,
  header,
  rnames,
  rgroup,
  hidden_rgroup,
  cgroup,
```

```

  tspanner,
  hidden_tspanner,
  skip_removal_warning = getOption("htmlTable.skip_removal_warning", FALSE),
  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 <code>tidyr::pivot_longer()</code> .
header	The column in x specifying column headings
rnames	The column in x specifying row names. Defaults to "name" as used by <code>tidyr::pivot_longer()</code> .
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 <code>htmlTable()</code>).
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 <code>htmlTable()</code>).
skip_removal_warning	boolean suppress warning message when removing NA columns.
table_fn	The table function that should receive the input, defaults to <code>htmlTable()</code> but you can provide any function that uses the same input formatting. This package was inspired by the <code>Hmisc::latex()</code> function.
...	Additional arguments that will be passed to the inner <code>htmlTable()</code> 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.

See Also

[htmlTable\(\)](#)

Examples

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

```
mtcars %>%
```

```

rownames_to_column() %>%
select(rownames, cyl, gear, hp, mpg, qsec) %>%
pivot_longer(names_to = "per_metric",
              cols = c(hp, mpg, qsec)) %>%
group_by(cyl, gear, per_metric) %>%
summarise(
  Mean = round(mean(value), 1),
  SD = round(sd(value), 1),
  Min = round(min(value), 1),
  Max = round(max(value), 1)
) %>%
pivot_longer(names_to = "summary_stat",
              cols = c(Mean, SD, Min, Max)) %>%
ungroup() %>%
mutate(
  gear = paste(gear, "Gears"),
  cyl = paste(cyl, "Cylinders")
) %>%
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

```
txtInt(x, language = "en", html = 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,
...	Passed to <code>base::format()</code>

Value

string

See AlsoOther text formatters: [txtMergeLines\(\)](#), [txtPval\(\)](#), [txtRound\(\)](#)**Examples**

```
txtInt(123)
txtInt(1234)
txtInt(12345)
txtInt(123456)
```

txtMergeLines

A merges lines while preserving the line break for HTML/LaTeX

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 `
` 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

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

Value

string

See AlsoOther 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. <i>Disclaimer:</i> 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 < 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

```
txtPval(c(0.10234, 0.010234, 0.0010234, 0.00010234))
```

txtRound	<i>A convenient rounding function</i>
----------	---------------------------------------

Description

If you provide a string value in X the function will try to round this if a numeric text is present. If you want to skip certain rows/columns then use the `excl.*` arguments.

Usage

```
txtRound(x, ...)

## Default S3 method:
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 'data.frame'
txtRound(x, ...)

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

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

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. If you provide a vector each element will apply to the corresponding columns.
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 <code>htmlTable.decimal_marker</code> .

scientific	If the value should be in scientific format.
txtInt_args	A list of arguments to pass to <code>txtInt()</code> if that is to be used for large values that may require a thousands separator. The option for this is <code>htmlTable.round_int</code> .
excl.cols	Columns to exclude from the rounding procedure. This can be either a number or regular expression. Skipped if <code>x</code> is a vector.
excl.rows	Rows to exclude from the rounding procedure. This can be either a number or regular expression.

Value

matrix/data.frame

See Also

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

Examples

```
mx <- matrix(c(1, 1.11, 1.25,
              2.50, 2.55, 2.45,
              3.2313, 3, pi),
            ncol = 3, byrow=TRUE)
txtRound(mx, 1)
```

vector2string

Collapse vector to string

Description

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

Usage

```
vector2string(
  x,
  quotation_mark = "'",
  collapse = sprintf("%s, %s", quotation_mark, quotation_mark)
)
```

Arguments

<code>x</code>	The vector to collapse
<code>quotation_mark</code>	The type of quote to use
<code>collapse</code>	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 = '')
```

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