

# 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

**Suggests** testthat, XML, xtable, ztable, Hmisc, reshape, rmarkdown, pander, chron, lubridate

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**R topics documented:**

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concatHtmlTables	<i>Function for concatenating htmlTables</i>
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**Description**

Function for concatenating htmlTables

**Usage**

```
concatHtmlTables(tables, headers)
```

**Arguments**

tables	A list of html tables 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**

```
# Store all output into a list in order to
# output everything at once at the end
all_tables <- list()

# A simple output
output <- matrix(1:4,
                 ncol=2,
                 dimnames = list(list("Row 1", "Row 2"),
```

```

                                list("Column 1", "Column 2"))
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)
  }
}

htmlTable(output, align="r",
  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,
  col.columns = c(rep("none", 2),
                  rep("#F5FBFF", 4)),
  col.rgroup = c("none", "#F7F7F7"),
  css.cell = "padding-left: .5em; padding-right: .2em;") ->
  all_tables[["Advanced table"]]

# An advanced empty table
output <- matrix(ncol = 6,
                nrow = 0)

htmlTable(output, 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",

```



```

    cspan.rgroup = "all", ...)

## 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.
...	Passed on to print.htmlTable function and any argument except the useViewer will be passed on to the cat functions arguments.
header	A vector of character strings specifying column header, defaulting to colnames(x)
rnames	Default rownames are generated from rownames(x). If you provide FALSE then it will skip the rownames. <i>Note:</i> For data.frames if you do rownames(my_dataframe) <- NULL it still has rownames. Thus you need to use FALSE if you want to surpress row-names for data.frames.
rowlabel	If the table has rownames 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.
rgroup	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 or a matrix 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 or matrix 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 in the original matrix that the table spanner should span.
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".
align	A character strings specifying column alignments, defaulting to <code>paste(rep('c', ncol(x)), collapse=' to center. Valid 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.</code>
align.header	A character strings specifying alignment for column header, defaulting to centered, i.e. <code>paste(rep('c', ncol(x)), collapse='')</code> .
align.cgroup	The justification of the cgroups
css.rgroup	CSS style for the rgorup, 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
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 <code>css.class</code> but for cgroup formatting.
css.class	The html CSS class for the table. This allows directing html formatting through <b>CSS</b> directly at all instances of that class. <i>Note:</i> 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 <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.
pos.caption	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 <code>rgroup</code> ; 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>&amp;nbsp;&amp;nbsp;</code> , but some journals only have a bold face for the <code>rgroup</code> 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 <code>rgroup</code> elements. This allows for a 3-level hierarchy if needed.
<code>ctable</code>	If the table should have a double top border or a single a' la LaTeX <code>ctable</code> style
<code>compatibility</code>	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 <code>css</code> <code>caption-alignment</code> . 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 <code>options(htmlTableCompat = "html")</code> if you want a change to apply to the entire document.
<code>cspan.rgroup</code>	The number of columns that an <code>rgroup</code> 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.
<code>useViewer</code>	If you are using RStudio there is a viewer that can render the table within that is invoked if in <a href="#">interactive</a> 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 <code>options(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>cat()</code> the set <code>options(htmlTable.cat = TRUE)</code> .

**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 matrices. If the different levels have different number of elements 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.

**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  $nrow(x) \times ncol(x)$  or  $nrow(x) \times 1$  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 `knit_print` and the `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 `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)`.

### 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.

### 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 columns (that is, each element in `css.cell` specify the style for the whole row 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 `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.

### Empty dataframes

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

### Browsers and possible issues

*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 2013:

- **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 multiline cgroups - see [bug](#)
- **Chrome** (v. 47.0.2526.106) Works perfectly when copy-pasting into Word. *Note:* can have issues with multiline 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 LibreOffice or Word is no longer recommended. You get much prettier results using the cut-and-paste option.

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, rownames, 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 `&lt;t`; instead of `<` and `&gt;`; instead of `>`. You can find a complete list of html characters [here](#).

### See Also

[txtMergeLines](#), [latex](#)

Other table functions: [tblNoLast](#), [tblNoNext](#)

### Examples

```
# Store all output into a list in order to
# output everything at once at the end
all_tables <- list()
```

```

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

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)
  }
}

htmlTable(output, align="r",
          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,
          col.columns = c(rep("none", 2),
                          rep("#F5FBFF", 4)),
          col.rgroup = c("none", "#F7F7F7"),
          css.cell = "padding-left: .5em; padding-right: .2em;") ->
  all_tables[["Advanced table"]]

# An advanced empty table
output <- matrix(ncol = 6,
                nrow = 0)

htmlTable(output, 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,
    col.columns = c(rep("none", 2),
      rep("#F5FBFF", 4)),
    col.rgroup = c("none", "#F7F7F7"),
    css.cell = "padding-left: .5em; padding-right: .2em;") ->
  all_tables[["Empty table"]]

# An example of how to use the css.cell for header styling
simple_output <- matrix(1:4, ncol=2)
htmlTable(simple_output,
  header = LETTERS[1:2],
  css.cell = rbind(rep("background: lightgrey; font-size: 2em;", times=ncol(simple_output)),
    matrix("", ncol=ncol(simple_output), nrow=nrow(simple_output)))) ->
  all_tables[["Header formatting"]]

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

```

---

htmlTableWidget	<i>htmlTable with pagination widget</i>
-----------------	---

---

## 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 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**

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

---

interactiveTable	<i>An interactive table that allows you to limit the size of boxes</i>
------------------	--

---

### 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 = FALSE, minimized.columns,
  js.scripts = c())

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

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

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

### Arguments

<code>x</code>	The interactive table that is to be printed
<code>...</code>	The exact same parameters as <code>htmlTable</code> uses
<code>txt.maxlen</code>	The maximum length of a text
<code>button</code>	Indicator if the cell should be clickable or if a button should appear with a plus/minus
<code>minimized.columns</code>	Notifies if any particular columns should be collapsed from start
<code>js.scripts</code>	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>&lt;scrip&gt;&lt;/scrip&gt;</code> element.
<code>tbl</code>	An <code>htmlTable</code> object can be directly passed into the function
<code>useViewer</code>	If you are using RStudio there is a viewer thar can render the table within that is evoked if in <code>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 <code>options(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>cat()</code> the set <code>options(htmlTable.cat = TRUE)</code> .

**Value**

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

**Examples**

```
# 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)

output <-
  cbind(rep(short_txt, 2),
        rep(long_txt, 2))

interactiveTable(output,
  minimized.columns = ncol(output),
  header = c("Short", "Long"),
  rnames = c("First", "Second"),
  col.rgroup = c("#FFF", "#EEF"))
```

---

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

---

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:

## 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)
```

---

tblNoLast	<i>Gets the last table number</i>
-----------	-----------------------------------

---

**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)
```

---

`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**

<code>x</code>	The integer variable
<code>language</code>	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.
<code>html</code>	If the format is used in html context then the space should be a non-breaking space, <code>&amp;nbsp;</code> ;
<code>...</code>	Passed to <a href="#">format</a>

**Value**

string

**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 multiline table header 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-formatting.

### Value

string

### See Also

Other text formatters: [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 &lt; as needed for html output.
...	Currently only used for generating warnings of deprecated call parameters.

**Value**

vector

**See Also**Other text formatters: [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, txt.NA = "", dec = ".", ...)

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

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

**Arguments**

<code>x</code>	The value/vector/data.frame/matrix to be rounded
<code>...</code>	Passed to next method
<code>digits</code>	The number of digits to round each element to. If you provide a vector each element will apply to the corresponding columns.
<code>txt.NA</code>	The string to exchange NA with
<code>dec</code>	The decimal marker. If the text is in non-english decimal and string formatted you need to change this to the appropriate decimal indicator.
<code>excl.cols</code>	Columns to exclude from the rounding procedure. This can be either a number or regular expression. Skipped if x is a vector.
<code>excl.rows</code>	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: [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)
```

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