Package ‘ttt’

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Description Create structured, formatted HTML tables of in a flexible and convenient way.
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Description

Method for printing in a knitr context

Usage

```r
## S3 method for class 'ttt'
knit_print(x, ..., theme = getOption("ttt.theme"))
```

Arguments

- `x` An object returned by `ttt`.
- `...` Further arguments passed on to `knitr::knit_print`.
- `theme` A theme (either "default" or "booktabs").

Value

Returns a character string. See `knitr::knit_print` for how this value is used.

Description

Print `ttt` object

Usage

```r
## S3 method for class 'ttt'
print(x, ..., theme = getOption("ttt.theme"))
```

Arguments

- `x` An object returned by `ttt`.
- `...` Further arguments passed on to other print methods.
- `theme` A theme (either "default" or "booktabs").

Details

In an interactive context, the rendered table will be displayed in a web browser. Otherwise, the HTML code will be printed as text.
Value

Returns x invisibly.

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**ttt**

*Formatted tables the easy way*

Description

**ttt** stands for “The Table Tool” (or, if you prefer, “Tables! Tables! Tables!”). It allows you to create formatted HTML tables of in a flexible and convenient way.

Usage

```r
## S3 method for class 'data.frame'

ttt(
  x,
  formula,
  ..., 
  render,
  lab,
  caption,
  footnote,
  expand.along = c("rows", "columns"),
  drop = c("both", "rows", "columns", "none"),
  collapse.cells = TRUE,
  topclass = NULL,
  id = NULL,
  css = NULL,
  row.names = TRUE
)

## S3 method for class 'formula'

ttt(
  x,
  data,
  ..., 
  render,
  lab,
  caption,
  footnote,
  expand.along = c("rows", "columns"),
  drop = c("both", "rows", "columns", "none"),
  collapse.cells = TRUE,
  topclass = NULL,
)```
## S3 method for class 'numeric'

\[ \texttt{ttt}( \texttt{x}, \texttt{rowvars}, \texttt{colvars}, \ldots, \texttt{render}, \texttt{lab}, \texttt{caption}, \texttt{footnote}, \texttt{expand.along} = \texttt{c(\texttt{"rows", \texttt{"columns"})}, \texttt{drop} = \texttt{c(\texttt{"both", \texttt{"rows", \texttt{"columns", \texttt{"none"})}, \texttt{collapse.cells} = \texttt{TRUE}, \texttt{topclass} = \texttt{NULL}, \texttt{id} = \texttt{NULL}, \texttt{css} = \texttt{NULL} )} \]

## S3 method for class 'ftable'

\[ \texttt{ttt}( \texttt{x}, \texttt{text} = \texttt{\texttt{matrix(as.character(x), nrow(x))}, \texttt{lab}, \texttt{caption}, \texttt{footnote}, \texttt{drop} = \texttt{c(\texttt{"both", \texttt{"rows", \texttt{"columns", \texttt{"none"})}, \texttt{collapse.cells} = \texttt{TRUE}, \texttt{html.class} = \texttt{NULL}, \texttt{topclass} = \texttt{NULL}, \texttt{id} = \texttt{NULL}, \texttt{css} = \texttt{NULL}, \ldots) } \]

### Arguments

- **x**: An object.
- **...**: Additional arguments passed to `render`.
- **formula**: A three-part formula of the form `v ~ r1 + r2 ~ c1 + c2` where `v` specifies a column of values, while `r1, r2` specify row variables and `c1, c2` column variables for splitting the values.
- **render**: A function to render the contents of each cell to character data.
- **lab**: Specify the contents of an extra table cell spanning over all column labels.
caption  A character string to be added as a caption to the table. The default is to omit the caption.

footnote  A character string to be added as a footnote to the table. The default is to omit the footnote.

expand.along  Specify the direction to expand the table when render returns a (named) vector.

drop  If TRUE (the default), rows and columns with zero counts will be dropped.

collapse.cells  If TRUE (the default), row/column header cells will be collapsed (merged) where appropriate.

topclass  A character string to be used as class attribute for the top-level <table> element.

id  A character string to be used as id attribute for the top-level <table> element.

css  A character string containing CSS code to be added before the top-level <table> element.

row.names  If TRUE (the default), row names will be shown in the first column of the table. Set to FALSE to suppress row names. Only applies when displaying whole data.frame.

data  A data.frame.

rowvars  A list of row variables for splitting the data.

colvars  A list of column variables for splitting the data.

text  A character matrix containing the textual content of each table cell.

html.class  A character matrix with the same dimensions as text specifying a class attribute for the corresponding <td> element.

Value  A character which contains an HTML table fragment. It has additional class attributes that cause it to be displayed in a browser in an interactive context, and rendered as HTML in a knitr context.

Methods (by class)

- data.frame: The data.frame method.
- formula: The formula method.
- numeric: The numeric method.
- ftable: The ftable method.

Examples

# mtcars examples

ttt(mtcars)
ttt(mtcars, mpg ~ gear | cyl, lab="Cylinders")
ttt(mpg ~ gear | cyl, data=mtcars, lab="Cylinders")
ttt(rownames(mtcars) ~ gear | cyl, data=mtcars, render=paste, collapse="<br/>", lab="Cylinders")

# OrchardSprays examples
head(OrchardSprays, 12)
head(OrchardSprays, 12, row.names=FALSE)
treatment ~ rowpos | colpos, data=OrchardSprays, lab="colpos"
paste(treatment, decrease, sep="<br/>") ~ rowpos | colpos, data=OrchardSprays, lab="colpos"

ttt(head(OrchardSprays, 12))
ttt(head(OrchardSprays, 12), row.names=FALSE)
ttt(treatment ~ rowpos | colpos, data=OrchardSprays, lab="colpos")
ttt(paste(treatment, decrease, sep="<br/>") ~ rowpos | colpos, data=OrchardSprays, lab="colpos")

rndr.meansd <- function(x) formatC(c(Mean=mean(x), SD=sd(x)), digits=3)
ttt(decrease ~ treatment, data=OrchardSprays, render=rndr.meansd, expand.along="rows")
ttt(decrease ~ treatment, data=OrchardSprays, render=rndr.meansd, expand.along="columns")

# ToothGrowth examples
ttt(len ~ dose | supp, data=ToothGrowth, lab="Mean (SD)", render=function(x) sprintf("%0.3g (%0.3g)", mean(x), sd(x)))

ttt(len ~ dose | supp, data=ToothGrowth, lab="Supplement Type", render=rndr.meansd)

ttt(len ~ dose | supp, data=ToothGrowth, lab="Supplement Type", render=rndr.meansd, expand.along="columns")
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