

Package ‘xtable’

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Title Export tables to LaTeX or HTML

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Description Coerce data to LaTeX and HTML tables

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R topics documented:

print.xtable	2
string	5
table.attributes	6
tli	7
toLatex.xtable	8
xtable	8

Index	15
--------------	-----------

print.xtable

Print Export Tables

Description

Function returning and displaying or writing to disk the LaTeX or HTML code associated with the supplied object of class `xtable`.

Usage

```
## S3 method for class 'xtable'
print(x,
      type=getOption("xtable.type", "latex"),
      file=getOption("xtable.file", ""),
      append=getOption("xtable.append", FALSE),
      floating=getOption("xtable.floating", TRUE),
      floating.environment=getOption("xtable.floating.environment", "table"),
      table.placement=getOption("xtable.table.placement", "ht"),
      caption.placement=getOption("xtable.caption.placement", "bottom"),
      latex.environments=getOption("xtable.latex.environments", c("center")),
      tabular.environment=getOption("xtable.tabular.environment", "tabular"),
      size=getOption("xtable.size", NULL),
      hline.after=getOption("xtable.hline.after", c(-1,0,nrow(x))),
      NA.string=getOption("xtable.NA.string", ""),
      include.rownames=getOption("xtable.include.rownames", TRUE),
      include.colnames=getOption("xtable.include.colnames", TRUE),
      only.contents=getOption("xtable.only.contents", FALSE),
      add.to.row=getOption("xtable.add.to.row", NULL),
      sanitize.text.function=getOption("xtable.sanitize.text.function", NULL),
      sanitize.rownames.function=getOption("xtable.sanitize.rownames.function",
      sanitize.text.function),
      sanitize.colnames.function=getOption("xtable.sanitize.colnames.function",
      sanitize.text.function),
      math.style.negative=getOption("xtable.math.style.negative", FALSE),
      html.table.attributes=getOption("xtable.html.table.attributes", "border=1"),
      print.results=getOption("xtable.print.results", TRUE),
      format.args=getOption("xtable.format.args", NULL),
      rotate.rownames=getOption("xtable.rotate.rownames", FALSE),
      rotate.colnames=getOption("xtable.rotate.colnames", FALSE),
      booktabs = getOption("xtable.booktabs", FALSE),
      scalebox = getOption("xtable.scalebox", NULL),
      width = getOption("xtable.width", NULL),
      ...)
```

Arguments

`x` An object of class `"xtable"`.

type	Type of table to produce. Possible values for type are "latex" or "html". Default value is "latex".
file	Name of file where the resulting code should be saved. If file="", output is displayed on screen. Note that the function also (invisibly) returns a character vector of the results (which can be helpful for post-processing). Default value is "".
append	If TRUE and file!="", code will be appended to file instead of overwriting file. Default value is FALSE.
floating	If TRUE and type="latex", the resulting table will be a floating table (using, for example, \begin{table} and \end{table}). See floating.environment below. Default value is TRUE.
floating.environment	If floating=TRUE and type="latex", the resulting table uses the specified floating environment. Possible values are "table", "table*", or "sidewaystable" (defined in the LaTeX package 'rotating'). Default value is "table".
table.placement	If floating=TRUE and type="latex", the floating table will have placement given by table.placement where table.placement must be NULL or contain only elements of {"h","t","b","p","!","H"}. Default value is "ht".
caption.placement	The caption will be have placed at the bottom of the table if caption.placement is "bottom" and at the top of the table if it equals "top". Default value is "bottom".
latex.environments	If floating=TRUE and type="latex", the specified latex environments (provided as a character vector) will enclose the tabular environment. Default value is "center".
tabular.environment	When type="latex", the tabular environment that will be used. Defaults to "tabular". When working with tables that extend more than one page, using tabular.environment="longtable" and the LaTeX package "longtable" (see Fairbairns, 2005) allows one to typeset them uniformly. Note that "floating" should be set to "FALSE" when using the "longtable" environment.
size	An arbitrary character vector intended to be used to set the font size in a LaTeX table. The supplied value (if not NULL) is inserted just before the tabular environment starts. Default value is NULL.
hline.after	When type="latex", a vector of numbers between -1 and "nrow(x)", inclusive, indicating the rows after which a horizontal line should appear. If NULL is used no lines are produced. Default value is c(-1,0,nrow(x)) which means draw a line before and after the columns names and at the end of the table. Repeated values are allowed.
NA.string	String to be used for missing values in table entries. Default value is "".
include.rownames	logical. If TRUE the rows names is printed. Default value is TRUE.
include.colnames	logical. If TRUE the columns names is printed. Default value is TRUE.

<code>only.contents</code>	logical. If TRUE only the rows of the table is printed. Default value is FALSE.
<code>add.to.row</code>	a list of two components. The first component (which should be called 'pos') is a list contains the position of rows on which extra commands should be added at the end, The second component (which should be called 'command') is a character vector of the same length of the first component which contains the command that should be added at the end of the specified rows. Default value is NULL, i.e. do not add commands.
<code>sanitize.text.function</code>	All non-numeric entries (except row and column names) are sanitised in an attempt to remove characters which have special meaning for the output format. If <code>sanitize.text.function</code> is not NULL (the default), it should be a function taking a character vector and returning one, and will be used for the sanitization instead of the default internal function.
<code>sanitize.rownames.function</code>	Like the <code>sanitize.text.function</code> , but applicable to row names. The default uses the <code>sanitize.text.function</code> .
<code>sanitize.colnames.function</code>	Like the <code>sanitize.text.function</code> , but applicable to column names. The default uses the <code>sanitize.text.function</code> .
<code>math.style.negative</code>	In a LaTeX table, if TRUE, then use $-\$$ for the negative sign (as was the behavior prior to version 1.5-3). Default value is FALSE.
<code>html.table.attributes</code>	In an HTML table, attributes associated with the <code><TABLE></code> tag. Default value is <code>border=1</code> .
<code>print.results</code>	If TRUE, the generated table is printed to standard output. Set this to FALSE if you will just be using the character vector that is returned invisibly.
<code>format.args</code>	List of arguments for the <code>formatC</code> function. For example, standard German number separators can be specified as <code>format.args=list(big.mark = " ", decimal.mark = ",")</code> .
<code>rotate.rownames</code>	If TRUE, the row names are displayed vertically in LaTeX.
<code>rotate.colnames</code>	If TRUE, the column names are displayed vertically in LaTeX.
<code>booktabs</code>	If TRUE, the <code>toprule</code> , <code>midrule</code> and <code>bottomrule</code> tags from the LaTeX "booktabs" package are used rather than <code>hline</code> for the horizontal line tags.
<code>scalebox</code>	If not NULL, a <code>scalebox</code> clause will be added around the tabular environment with the specified value used as the scaling factor.
<code>width</code>	If not NULL, the specified value is included in parenthesis between the tabular environment <code>begin</code> tag and the alignment specification. This allows specification of the table width when using tabular environments such as <code>tabular*</code> and <code>tabularx</code> . Note that table width specification is not supported with the <code>tabular</code> or <code>longtable</code> environments.
<code>...</code>	Additional arguments. (Currently ignored.)

Details

This function displays or writes to disk the code to produce a table associated with an object `x` of class "xtable". The resulting code is either a LaTeX or HTML table, depending on the value of `type`. The function also (invisibly) returns a character vector of the results (which can be helpful for post-processing).

Since version 1.4 the non default behavior of `hline.after` is changed. To obtain the same results as the previous versions add to the `hline.after` vector the vector `c(-1, 0, nrow(x))` where `nrow(x)` is the numbers of rows of the object.

From version 1.4-3, all non-numeric columns are sanitized, and all LaTeX special characters are sanitised for LaTeX output. See Section 3 of the `xtableGallery` vignette for an example of customising the sanitization. From version 1.4-4, the sanitization also applies to column names. To remove any text sanitization, specify `sanitize.text.function=function(x){x}`.

From version 1.6-1 the default values for the arguments other than `x` are obtained using `getOption()`. Hence the user can set the values once with `options()` rather than setting them in every call to `print.xtable()`.

Author(s)

David Dahl <dahl@stat.tamu.edu> with contributions and suggestions from many others (see source code).

References

Fairbairns, Robin (2005) *Tables longer than a single page* The UK List of TeX Frequently Asked Questions on the Web. <http://www.tex.ac.uk/cgi-bin/texfaq2html?label=longtab>

See Also

`xtable`, `caption`, `label`, `align`, `digits`, `display`, `formatC`

string

String handling functions

Description

Private functions for conveniently working with strings.

Usage

```
string(text,file="",append=FALSE)
## S3 method for class 'string'
print(x,...)
## S3 method for class 'string'
x + y
as.string(x,file="",append=FALSE)
is.string(x)
```

Arguments

text	A character object.
file	Name of the file that should receive the printed string.
append	Should the printed string be appended to the file?
x	A string object.
y	A string object.
...	Additional arguments. (Currently ignored.)

Details

These functions are private functions used by `print.xtable`. They are not intended to be used elsewhere.

Author(s)

David Dahl <dahl@stat.tamu.edu> with contributions and suggestions from many others (see source code).

See Also

[print.xtable](#)

table.attributes	<i>Retrieve and Set Options for Export Tables</i>
------------------	---

Description

Functions retrieving or setting table attributes for the supplied object of class "xtable".

Usage

```
caption(x,...)
caption(x) <- value
label(x,...)
label(x) <- value
align(x,...)
align(x) <- value
digits(x,...)
digits(x) <- value
display(x,...)
display(x) <- value
```

Arguments

x	An "xtable" object.
value	The value of the corresponding attribute.
...	Additional arguments. (Currently ignored.)

Details

These functions retrieve or set table attributes of the object `x` of class "xtable". See `xtable` for a description of the options.

Author(s)

David Dahl <dahl@stat.tamu.edu> with contributions and suggestions from many others (see source code).

See Also

[xtable](#), [print.xtable](#), [formatC](#)

tli

Math scores from Texas Assessment of Academic Skills (TAAS)

Description

This data set contains math scores and demographic data of 100 randomly selected students participating in the Texas Assessment of Academic Skills (TAAS).

Usage

```
data(tli)
```

Format

A data.frame containing 100 observations with the following columns:

grade Year in school of student

sex Gender of student

disadv Is the student economically disadvantaged?

ethnicity Race of student

tlimth Math score of student

Source

Texas Education Agency, <http://www.tea.state.tx.us>

toLatex.xtable *Convert Table to Latex*

Description

Function creating a LaTeX representation of an object of class xtable.

Usage

```
## S3 method for class 'xtable'  
toLatex(object, ...)
```

Arguments

object An object of class "xtable".
... Other arguments to print.xtable.

Details

This function creates a LaTeX representation of an object of class "xtable". This is a method for the generic "toLatex" in the core R package "utils".

Author(s)

Charles Roosen <roosen@gmail.com> with contributions and suggestions from many others (see source code).

See Also

[print.xtable](#)

xtable *Create Export Tables*

Description

Function converting an R object to an xtable object, which can then be printed as a LaTeX or HTML table.

Usage

```
xtable(x, caption=NULL, label=NULL, align=NULL, digits=NULL,  
       display=NULL, ...)
```

Arguments

<code>x</code>	An R object of class found among <code>methods(xtable)</code> . See below on how to write additional method functions for <code>xtable</code> .
<code>caption</code>	Character vector of length 1 or 2 containing the table's caption or title. If length 2, the second item is the "short caption" used when LaTeX generates a "List of Tables". Set to <code>NULL</code> to suppress the caption. Default value is <code>NULL</code> .
<code>label</code>	Character vector of length 1 containing the LaTeX label or HTML anchor. Set to <code>NULL</code> to suppress the label. Default value is <code>NULL</code> .
<code>align</code>	Character vector of length equal to the number of columns of the resulting table indicating the alignment of the corresponding columns. Also, <code> </code> may be used to produce vertical lines between columns in LaTeX tables, but these are effectively ignored when considering the required length of the supplied vector. If a character vector of length one is supplied, it is split as <code>strsplit(align, "")[[1]]</code> before processing. Since the row names are printed in the first column, the length of <code>align</code> is one greater than <code>ncol(x)</code> if <code>x</code> is a <code>data.frame</code> . Use <code>"l"</code> , <code>"r"</code> , and <code>"c"</code> to denote left, right, and center alignment, respectively. Use <code>"p{3cm}"</code> etc for a LaTeX column of the specified width. For HTML output the <code>"p"</code> alignment is interpreted as <code>"l"</code> , ignoring the width request. Default depends on the class of <code>x</code> .
<code>digits</code>	Numeric vector of length equal to one (in which case it will be replicated as necessary) or to the number of columns of the resulting table or matrix of the same size as the resulting table indicating the number of digits to display in the corresponding columns. Since the row names are printed in the first column, the length of the vector <code>digits</code> or the number of columns of the matrix <code>digits</code> is one greater than <code>ncol(x)</code> if <code>x</code> is a <code>data.frame</code> . Default depends of class of <code>x</code> . If values of <code>digits</code> are negative, the corresponding values of <code>x</code> are displayed in scientific format with <code>abs(digits)</code> digits.
<code>display</code>	Character vector of length equal to the number of columns of the resulting table indicating the format for the corresponding columns. Since the row names are printed in the first column, the length of <code>display</code> is one greater than <code>ncol(x)</code> if <code>x</code> is a <code>data.frame</code> . These values are passed to the <code>formatC</code> function. Use <code>"d"</code> (for integers), <code>"f"</code> , <code>"e"</code> , <code>"E"</code> , <code>"g"</code> , <code>"G"</code> , <code>"fg"</code> (for reals), or <code>"s"</code> (for strings). <code>"f"</code> gives numbers in the usual <code>xxx.xxx</code> format; <code>"e"</code> and <code>"E"</code> give <code>n.ddde+nn</code> or <code>n.dddE+nn</code> (scientific format); <code>"g"</code> and <code>"G"</code> put <code>x[i]</code> into scientific format only if it saves space to do so. <code>"fg"</code> uses fixed format as <code>"f"</code> , but <code>digits</code> as number of <i>significant</i> digits. Note that this can lead to quite long result strings. Default depends on the class of <code>x</code> .
<code>...</code>	Additional arguments. (Currently ignored.)

Details

This function extracts tabular information from `x` and returns an object of class `"xtable"`. The nature of the table generated depends on the class of `x`. For example, `aov` objects produce ANOVA tables while `data.frame` objects produce a table of the entire `data.frame`. One can optionally provide a caption (called a title in HTML) or label (called an anchor in HTML), as well as formatting specifications. Default values for `align`, `digits`, and `display` are class dependent.

The available method functions for `xtable` are given by `methods(xtable)`. Users can extend the list of available classes by writing methods for the generic function `xtable`. These methods functions should have `x` as their first argument with additional arguments to specify `caption`, `label`, `align`, `digits`, and `display`. Optionally, other arguments may be present to specify how the object `x` should be manipulated. All method functions should return an object whose class is given by `c("xtable", "data.frame")`. The resulting object can have attributes `caption` and `label`, but must have attributes `align`, `digits`, and `display`. It is strongly recommended that you set these attributes through the provided replacement functions as they perform validity checks.

Value

An object of class `"xtable"` which inherits the `data.frame` class and contains several additional attributes specifying the table formatting options.

Author(s)

David Dahl <dahl@stat.tamu.edu> with contributions and suggestions from many others (see source code).

See Also

[print.xtable](#), [caption](#), [label](#), [align](#), [digits](#), [display](#), [formatC](#), [methods](#)

Examples

```
## Load example dataset
data(tli)

## Demonstrate data.frame
tli.table <- xtable(tli[1:20,])
digits(tli.table)[c(2,6)] <- 0
print(tli.table)
print(tli.table, type="html")

## Demonstrate data.frame with different digits in cells
tli.table <- xtable(tli[1:20,])
digits(tli.table) <- matrix( 0:4, nrow = 20, ncol = ncol(tli)+1 )
print(tli.table)
print(tli.table, type="html")

## Demonstrate matrix
design.matrix <- model.matrix(~ sex*grade, data=tli[1:20,])
design.table <- xtable(design.matrix)
print(design.table)
print(design.table, type="html")

## Demonstrate aov
fm1 <- aov(tlimth ~ sex + ethnicity + grade + disadvg, data=tli)
fm1.table <- xtable(fm1)
print(fm1.table)
print(fm1.table, type="html")
```

```

## Demonstrate lm
fm2 <- lm(tlimth ~ sex*ethnicity, data=tli)
fm2.table <- xtable(fm2)
print(fm2.table)
print(fm2.table,type="html")
print(xtable(anova(fm2)))
print(xtable(anova(fm2)),type="html")
fm2b <- lm(tlimth ~ ethnicity, data=tli)
print(xtable(anova(fm2b,fm2)))
print(xtable(anova(fm2b,fm2)),type="html")

## Demonstrate glm
fm3 <- glm(disadv ~ ethnicity*grade, data=tli, family=binomial())
fm3.table <- xtable(fm3)
print(fm3.table)
print(fm3.table,type="html")
print(xtable(anova(fm3)))
print(xtable(anova(fm3)),type="html")

## Demonstrate aov
## Taken from help(aov) in R 1.1.1
## From Venables and Ripley (1997) p.210.
N <- c(0,1,0,1,1,1,0,0,0,1,1,0,1,0,0,1,0,0,1,0,1,0,1,1,0,0)
P <- c(1,1,0,0,0,1,0,1,1,1,0,0,0,1,0,1,1,0,0,1,0,1,1,0)
K <- c(1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,0,0,1,1,1,0,1,0)
yield <- c(49.5,62.8,46.8,57.0,59.8,58.5,55.5,56.0,62.8,55.8,69.5,55.0,
           62.0,48.8,45.5,44.2,52.0,51.5,49.8,48.8,57.2,59.0,53.2,56.0)
npk <- data.frame(block=gl(6,4), N=factor(N), P=factor(P), K=factor(K), yield=yield)
npk.aov <- aov(yield ~ block + N*P*K, npk)
op <- options(contrasts=c("contr.helmert", "contr.treatment"))
npk.aovE <- aov(yield ~ N*P*K + Error(block), npk)
options(op)

summary(npk.aov)
print(xtable(npk.aov))
print(xtable(anova(npk.aov)))
print(xtable(summary(npk.aov)))

summary(npk.aovE)
print(xtable(npk.aovE),type="html")
print(xtable(summary(npk.aovE)),type="html")

## Demonstrate lm
## Taken from help(lm) in R 1.1.1
## Annette Dobson (1990) "An Introduction to Generalized Linear Models".
## Page 9: Plant Weight Data.
ctl <- c(4.17,5.58,5.18,6.11,4.50,4.61,5.17,4.53,5.33,5.14)
trt <- c(4.81,4.17,4.41,3.59,5.87,3.83,6.03,4.89,4.32,4.69)
group <- gl(2,10,20, labels=c("Ctl","Trt"))
weight <- c(ctl, trt)
lm.D9 <- lm(weight ~ group)
print(xtable(lm.D9))

```

```

print(xtable(anova(lm.D9)))

## Demonstrate glm
## Taken from help(glm) in R 1.1.1
## Annette Dobson (1990) "An Introduction to Generalized Linear Models".
## Page 93: Randomized Controlled Trial :
counts <- c(18,17,15,20,10,20,25,13,12)
outcome <- gl(3,1,9)
treatment <- gl(3,3)
d.AD <- data.frame(treatment, outcome, counts)
glm.D93 <- glm(counts ~ outcome + treatment, family=poisson())
print(xtable(glm.D93,align="r|llrc"))
print(xtable(anova(glm.D93)),hline.after=c(1),size="small")

## Demonstration of additional formatC() arguments.
print(fm1.table, format.args=list(big.mark = "", decimal.mark = ","))

## Demonstration of "short caption" support.
fm1sc <- aov(tlimth ~ sex + ethnicity + grade, data=tli)
fm1sc.table <- xtable(fm1sc,
  caption=c("ANOVA Model with Predictors Sex, Ethnicity, and Grade",
    "ANOVA: Sex, Ethnicity, Grade"))
print(fm1sc.table)

## Demonstration of longtable support.
## Remember to insert \usepackage{longtable} on your LaTeX preamble
x <- matrix(rnorm(1000), ncol = 10)
x.big <- xtable(x,label='tabbig',caption='Example of longtable spanning several pages')
print(x.big,tabular.environment='longtable',floating=FALSE)
x <- x[1:30,]
x.small <- xtable(x,label='tabsmall',caption='regular table env')
print(x.small) # default, no longtable

## Demonstration of sidewaysstable support.
## Remember to insert \usepackage{rotating} on your LaTeX preamble
print(x.small,floating.environment='sidewaysstable')

if(require(stats,quietly=TRUE)) {
  ## Demonstrate prcomp
  ## Taken from help(prcomp) in mva package of R 1.1.1
  data(USArrests)
  pr1 <- prcomp(USArrests)
  print(xtable(pr1))
  print(xtable(summary(pr1)))

  # ## Demonstrate princomp
  # ## Taken from help(princomp) in mva package of R 1.1.1
  # pr2 <- princomp(USArrests)
  # print(xtable(pr2))
}

## Demonstrate include.rownames, include.colnames,
## only.contents and add.to.row arguments

```

```

set.seed(2345)
res <- matrix(sample(0:9, size=6*9, replace=TRUE), ncol=6, nrow=9)
xres <- xtable(res)
digits(xres) <- rep(0, 7)
addtorow <- list()
addtorow$pos <- list()
addtorow$pos[[1]] <- c(0, 2)
addtorow$pos[[2]] <- 4
addtorow$command <- c('\vspace{2mm} \n', '\vspace{10mm} \n')
print(xres, add.to.row=addtorow, include.rownames=FALSE, include.colnames=TRUE,
      only.contents=TRUE, hline.after=c(0, 9, 9))

## Demonstrate include.rownames, include.colnames,
## only.contents and add.to.row arguments in Rweave files

## Not run:
\begin{small}
\setlongtables
\begin{longtable}{
<<results=tex,fig=FALSE>>=
cat(paste(c('c', rep('cc', 34/2-1), 'c'), collapse='\hspace{2pt}'))
@
}
\hline
\endhead
\hline
\endfoot
<<results=tex,fig=FALSE>>=
library(xtable)
set.seed(2345)
res <- matrix(sample(0:9, size=34*90, replace=TRUE), ncol=34, nrow=90)
xres <- xtable(res)
digits(xres) <- rep(0, 35)
addtorow <- list()
addtorow$pos <- list()
addtorow$pos[[1]] <- c(seq(4, 40, 5), seq(49, 85, 5))
addtorow$pos[[2]] <- 45
addtorow$command <- c('\vspace{2mm} \n', '\newpage \n')
print(xres, add.to.row=addtorow, include.rownames=FALSE, include.colnames=FALSE,
      only.contents=TRUE, hline.after=NULL)
@
\end{longtable}
\end{small}

## End(Not run)

## Demonstrate sanitization
mat <- round(matrix(c(0.9, 0.89, 200, 0.045, 2.0), c(1, 5)), 4)
rownames(mat) <- "$y_{t-1}$"
colnames(mat) <- c("$R^2$", "$\bar{R}^2$", "F-stat", "S.E.E", "DW")
print(xtable(mat), type="latex", sanitize.text.function = function(x){x})

## Demonstrate booktabs

```

```
print(tli.table)
print(tli.table , hline.after=c(-1,0))
print(tli.table , hline.after=NULL)
print(tli.table , add.to.row=list(pos=list(2), command=c("\vspace{2mm} \n")))

print(tli.table , booktabs=TRUE)
print(tli.table , booktabs=TRUE, hline.after=c(-1,0))
print(tli.table , booktabs=TRUE, hline.after=NULL)
print(tli.table , booktabs=TRUE,
      add.to.row=list(pos=list(2), command=c("\vspace{2mm} \n")))
print(tli.table , booktabs=TRUE, add.to.row=list(pos=list(2),
      command=c("youhou\n")), tabular.environment = "longtable")
```

Index

*Topic **datasets**
 tli, 7

*Topic **file**
 xtable, 8

*Topic **print**
 print.xtable, 2
 string, 5
 table.attributes, 6

*Topic **toLatex**
 toLatex.xtable, 8

+.string (string), 5

align, 5, 10
align (table.attributes), 6
align<- (table.attributes), 6
as.string (string), 5

caption, 5, 10
caption (table.attributes), 6
caption<- (table.attributes), 6

digits, 5, 10
digits (table.attributes), 6
digits<- (table.attributes), 6
display, 5, 10
display (table.attributes), 6
display<- (table.attributes), 6

formatC, 5, 7, 10

is.string (string), 5

label, 5, 10
label (table.attributes), 6
label<- (table.attributes), 6

methods, 10

print.string (string), 5
print.xtable, 2, 6–8, 10

string, 5

table.attributes, 6
tli, 7
toLatex.xtable, 8
xtable, 5, 7, 8