Package 'ascii'

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Title Export R Objects to Several Markup Languages

Type Package

Description Coerce R object to 'asciidoc', 'txt2tags', 'restructuredText', 'org', 'textile' or 'pandoc' syntax. Package comes with a set of drivers for 'Sweave'.

Version 2.6

URL https://github.com/mclements/ascii

BugReports https://github.com/mclements/ascii/issues

Date 2024-01-22

Depends R (>= 2.13), methods

Imports utils, digest, codetools, survival, stats, grDevices

Suggests Hmisc, xtable, R2HTML, knitr

Collate 'asciiAnova.r' 'asciiDataFrame.r' 'asciiDefault.r' 'asciiDensity.r' 'asciiDescr.r' 'asciiEpi.r' 'asciiGlm.r' 'asciiHmisc.r' 'asciiHtest.r' 'asciiList.r' 'asciiLm.r' 'asciiMatrix.r' 'asciiMemisc.r' 'asciiPrcomp.r' 'asciiSmoothSpline.r' 'asciiSummaryTable.r' 'asciiSurvival.r' 'asciiTable.r' 'asciiTs.r' 'asciiVector.r' 'bind.r' 'cbind.r' 'export.r' 'generic.r' 'groups.r' 'interleave.r' 'paste.matrix.r' 'plim.r' 'print.character.matrix.r' 'RweaveAscii.r' 'show.asciidoc.r' 'show.org.r' 'show.pandoc.r' 'show.r' 'show.rest.r' 'show.t2t.r' 'show.textile.r' 'SweaveAscii.r' 'tocharac.r' 'weaverAscii.r' 'zzz.r' 'print.r' 'cache_expr.R' 'weaver.R' 'unexported.R'

RoxygenNote 7.2.3

NeedsCompilation no

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R topics documented:

`ascii.anova` *Export R objects to several markup languages*

Description

Convert an R object to an `ascii` object, which can then be printed with asciidoc, txt2tags, reStructuredText, org, textile or pandoc syntax.

Usage

```
## S3 method for class 'anova'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'data.frame'
ascii(
```

```
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## Default S3 method:
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
```

```
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  list.type = "bullet",
  ...
)

## S3 method for class 'glm'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
```

```
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'summary.glm'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
```

```
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'describe'
ascii(x, condense = TRUE, ...)

## S3 method for class 'summary.formula.response'
ascii(
  x,
  vnames = c("labels", "names"),
  prUnits = TRUE,
 lgroup = list(dimnames(stats)[[1]], if (ul) vlabels else at$vname[at$vname != ""]),
  n.lgroup = list(1, at$nlevels),
  include.rownames = FALSE,
  include.colnames = TRUE,
  format = "nice",
```

```
  caption = paste(at$ylabel, if (ns > 1) paste(" by", if (ul) at$strat.label else
   at$strat.name), " N = ", at$n, if (at$nmiss) paste(", ", at$nmiss, " Missing", sep =
     ""), sep = ""),
  caption.level = "s",
  header = TRUE,
  ...
)

## S3 method for class 'summary.formula.reverse'
ascii(
  x,
  digits,
  prn = any(n != N),
  pctdig = 0,
  npct = c("numerator", "both", "denominator", "none"),
  exclude1 = TRUE,
  vnames = c("labels", "names"),
  prUnits = TRUE,
  sep = "/",
  formatArgs = NULL,
  round = NULL,
  prtest = c("P", "stat", "df", "name"),
  prmsd = FALSE,
  pdig = 3,
  eps = 0.001,
 caption = paste("Descriptive Statistics", if (length(x$group.label)) paste(" by",
    x$group.label) else paste(" (N = ", x$N, ")", sep = ""), sep = ""),
  caption.level = "s",
  include.rownames = FALSE,
  include.colnames = TRUE,
  colnames = gl,
  header = TRUE,
  lgroup = lgr,
  n.lgroup = n.lgr,
  rgroup = rgr,
  n.rgroup = n.rgr,
  rstyle = "d",
  ...
)

## S3 method for class 'summary.formula.cross'
ascii(
  x,
  twoway = nvar == 2,
  prnmiss = any(stats$Missing > 0),
  prn = TRUE,
  formatArgs = NULL,
  caption = a$heading,
```

```
  caption.level = "s",
  include.rownames = FALSE,
  include.colnames = TRUE,
  header = TRUE,
  format = "nice",
  lgroup = v,
  n.lgroup = rep(length(z), length(v)),
  ...
)

## S3 method for class 'htest'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
```

```
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'list'
ascii(x, caption = NULL, caption.level = NULL, list.type = "bullet", ...)

## S3 method for class 'packageDescription'
ascii(x, caption = NULL, caption.level = NULL, list.type = "label", ...)

## S3 method for class 'sessionInfo'
ascii(x, locale = TRUE, ...)

## S3 method for class 'lm'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
```

```
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'summary.lm'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
```

```
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'matrix'
ascii(
  x,
  include.rownames = FALSE,
  include.colnames = FALSE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = FALSE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
```

```
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'survfit'
ascii(
  x,
  scale = 1,
  print.rmean = getOption("survfit.print.rmean"),
  rmean = getOption("survfit.rmean"),
  include.rownames = TRUE,
  include.colnames = TRUE,
  header = TRUE,
  ...
)

## S3 method for class 'table'
ascii(
  x,
  include.rownames = TRUE,
  include.colnames = TRUE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = TRUE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
```

```
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'integer'
ascii(
  x,
  include.rownames = FALSE,
  include.colnames = FALSE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = FALSE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
```

```
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'numeric'
ascii(
  x,
  include.rownames = FALSE,
  include.colnames = FALSE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = FALSE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
```

```
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'character'
ascii(
  x,
  include.rownames = FALSE,
  include.colnames = FALSE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = FALSE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
```

```
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
  rstyle = "h",
  ...
)

## S3 method for class 'factor'
ascii(
  x,
  include.rownames = FALSE,
  include.colnames = FALSE,
  rownames = NULL,
  colnames = NULL,
  format = "f",
  digits = 2,
  decimal.mark = ".",
  na.print = "",
  caption = NULL,
  caption.level = NULL,
  width = 0,
  frame = NULL,
  grid = NULL,
  valign = NULL,
  header = FALSE,
  footer = FALSE,
  align = NULL,
  col.width = 1,
  style = NULL,
  tgroup = NULL,
  n.tgroup = NULL,
  talign = "c",
  tvalign = "middle",
  tstyle = "h",
  bgroup = NULL,
  n.bgroup = NULL,
  balign = "c",
  bvalign = "middle",
  bstyle = "h",
  lgroup = NULL,
  n.lgroup = NULL,
  lalign = "c",
  lvalign = "middle",
  lstyle = "h",
  rgroup = NULL,
  n.rgroup = NULL,
  ralign = "c",
  rvalign = "middle",
```

```
  rstyle = "h",
  ...
)

## S3 method for class 'proc_time'
ascii(x, include.rownames = FALSE, include.colnames = TRUE, ...)

ascii(x, ...)
```

Arguments

x	An R object of class found among `methods(ascii)`. If `x` is a list, it should be a list of character strings (it will produce a bulleted list output by default).
include.rownames	logical. If `TRUE` the rows names are printed. Default value depends of class of `x`.
include.colnames	logical. If `TRUE` the columns names are printed. Default value depends of class of `x`.
rownames	Character vector (replicated or truncated as necessary) indicating rownames of the corresponding rows. If `NULL` (default) the row names are not modified
colnames	Character vector (replicated or truncated as necessary) indicating colnames of the corresponding columns. If `NULL` (default) the column names are not modified
format	Character vector or matrix indicating the format for the corresponding columns. These values are passed to the `formatC` function. Use `"d"` (for integers), `"f"`, `"e"`, `"E"`, `"g"`, `"G"`, `"fg"` (for reals), or `"s"` (for strings). `"f"` gives numbers in the usual `xxx.xxx` format; `"e"` and `"E"` give `n.ddde+nn` or `n.dddE+nn` (scientific format); `"g"` and `"G"` put `x[i]` into scientific format only if it saves space to do so. `"fg"` uses fixed format as `"f"`, but `digits` as number of *significant* digits. Note that this can lead to quite long result strings. Finaly, `"nice"` is like `"f"`, but with 0 digits if `x` is an integer. Default depends on the class of `x`.
digits	Numeric vector of length equal to the number of columns of the resulting table (otherwise it will be replicated or truncated as necessary) indicating the number of digits to display in the corresponding columns. Default is `2`.
decimal.mark	The character to be used to indicate the numeric decimal point. Default is `"."`.
na.print	The character string specifying how `NA` should be formatted specially. Default is `""`.
caption	Character vector of length 1 containing the table's caption or title. Set to `""` to suppress the caption. Default value is `NULL`.
caption.level	Character or numeric vector of length 1 containing the caption's level. Can take the following values: `0` to `5`, `"."` (block titles in asciidoc markup), `"s"` (strong), `"e"` (emphasis), `"m"` (monospaced) or `""` (no markup). Default is NULL.
width	Numeric vector of length one containing the table width relative to the available width (expressed as a percentage value, `1...99`). Default is `0` (all available width).

frame	Character vector of length one. Defines the table border, and can take the following values: "topbot" (top and bottom), "all" (all sides), "none" and "sides" (left and right). The default value is NULL.
grid	Character vector of length one. Defines which ruler lines are drawn between table rows and columns, and can take the following values: "all", "rows", "cols" and "none". Default is NULL.
valign	Vector or matrix indicating vertical alignment of all cells in table. Can take the following values: "top", "bottom" and "middle". Default is "".
header	logical or numeric. If TRUE or 1, 2, ..., the first line(s) of the table is (are) emphasized. The default value depends of class of x.
footer	logical or numeric. If TRUE or 1, the last line(s) of the table is (are) emphasized. The default value depends of class of x.
align	Vector or matrix indicating the alignment of the corresponding columns. Can be composed with "r" (right), "l" (left) and "c" (center). Default value is NULL.
col.width	Numeric vector of length equal to the number of columns of the resulting table (otherwise it will be replicated or truncated as necessary) indicating width of the corresponding columns (integer proportional values). Default is 1.
style	Character vector or matrix indicating the style of the corresponding columns. Can be composed with "d" (default), "s" (strong), "e" (emphasis), "m" (monospaced), "h" (header) "a" (cells can contain any of the AsciiDoc elements that are allowed inside document), "l" (literal), "v" (verse; all line breaks are retained). Default is NULL.
tgroup	Character vector or a list of character vectors defining major top column headings. The default is to have none (NULL).
n.tgroup	A numeric vector or a list of numeric vectors containing the number of columns for which each element in tgroup is a heading. For example, specify tgroup=c("Major 1","Major 2"), n.tgroup=c(3,3) if "Major 1" is to span columns 1-3 and "Major 2" is to span columns 4-6.
talign	Character vector of length one defining alignment of major top column headings.
tvalign	Character vector of length one defining vertical alignment of major top column headings.
tstyle	Character vector of length one indicating the style of major top column headings
bgroup	Character vector or list of character vectors defining major bottom column headings. The default is to have none (NULL).
n.bgroup	A numeric vector containing the number of columns for which each element in bgroup is a heading.
balign	Character vector of length one defining alignment of major bottom column headings.
bvalign	Character vector of length one defining vertical alignment of major bottom column headings.
bstyle	Character vector of length one indicating the style of major bottom column headings
lgroup	Character vector or list of character vectors defining major left row headings. The default is to have none (NULL).

n.lgroup	A numeric vector containing the number of rows for which each element in lgroup is a heading. Column names count in the row numbers if include.colnames = TRUE.
lalign	Character vector of length one defining alignment of major left row headings.
lvalign	Character vector of length one defining vertical alignment of major left row headings.
lstyle	Character vector of length one indicating the style of major left row headings
rgroup	Character vector or list of character vectors defining major right row headings. The default is to have none (NULL).
n.rgroup	A numeric vector containing the number of rows for which each element in rgroup is a heading. Column names count in the row numbers if include.colnames = TRUE.
ralign	Character vector of length one defining alignment of major right row headings.
rvalign	Character vector of length one defining vertical alignment of major right row headings.
rstyle	Character vector of length one indicating the style of major right row headings
...	Additional arguments. (Currently ignored.)
list.type	Character vector of length one indicating the list type ("bullet", "number", "label" or "none"). If "label", names(list) is used for labels. Default is "bullet".
condense	default is TRUE to condense the output with regard to the 5 lowest and highest values and the frequency table (describe() in package Hmisc).
vnames	By default, tables and plots are usually labeled with variable labels (see summary.formula in package Hmisc).
prUnits	set to FALSE to suppress printing or latexing units attributes of variables (see summary.formula in package Hmisc).
prn	set to TRUE to print the number of non-missing observations on the current (row) variable (see summary.formula in package Hmisc).
pctdig	number of digits to the right of the decimal place for printing percentages (see summary.formula in package Hmisc).
npct	specifies which counts are to be printed to the right of percentages (see summary.formula in package Hmisc).
exclude1	by default, method="reverse" objects will be printed, plotted, or typeset by removing redundant entries from percentage tables for categorical variables (see summary.formula in package Hmisc).
sep	character to use to separate quantiles when printing method="reverse" tables (see summary.formula in package Hmisc).
formatArgs	a list containing other arguments to pass to format.default (see summary.formula in package Hmisc).
round	Specify round to round the quantiles and optional mean and standard deviation to round digits after the decimal point (see summary.formula in package Hmisc).

prtest	a vector of test statistic components to print if test=TRUE (see summary.formula in package Hmisc).
prmsd	set to TRUE to print mean and SD after the three quantiles, for continuous variables (see summary.formula in package Hmisc).
pdig	number of digits to the right of the decimal place for printing P-values. (see summary.formula in package Hmisc).
eps	P-values less than eps will be printed as < eps (see summary.formula in package Hmisc).
twoway	controls whether the resulting table will be printed in enumeration format or as a two-way table (the default) (see summary.formula in package Hmisc).
prnmiss	set to FALSE to suppress printing counts of missing values
locale	show locale information?
scale	A numeric value to rescale the survival time, e.g., if the input data to survfit were in days, scale=365 would scale the printout to years (see print.survfit() in package survival).
print.rmean	Option for computation and display of the restricted mean (see print.survfit() in package survival).
rmean	Option for computation and display of the restricted mean (see print.survfit() in package survival).

Details

The nature of the generated output depends on the class of x. For example, summary.table objects produce a bulleted list while data.frame objects produce a table of the entire data.frame.

Sometimes, arguments are not active, depending of the features implemented in the markup language generated. All arguments are active when asciidoc syntax is produced.

The available method functions for ascii are given by methods(ascii). Users can extend the list of available classes by writing methods for the generic function ascii. All method functions should return an object of class "ascii".

Value

This function returns an object of class "asciiTable", "asciiList" or "asciiMixed".

Author(s)

David Hajage <dhajage@gmail.com>

Examples

```
op <- options(asciiType = "org")
local({x <- 1:10; y <- rnorm(length(x),1+x); ascii(anova(lm(y~x)))})
options(op)
op <- options(asciiType = "org")
ascii(data.frame(a = 1:3, b = 2), include.rownames = FALSE, digits = 0)
options(op)
```

```
op <- options(asciiType = "org")
local({x <- 1:10; y <- rnorm(length(x), 1+x); ascii(glm(y~x)) })
options(op)
op <- options(asciiType = "org")
local({x <- 1:10; y <- rnorm(length(x), 1+x); ascii(summary(glm(y~x))) })
options(op)
op <- options(asciiType = "org")
local({x <- rnorm(100); ascii(t.test(x))})
options(op)
op <- options(asciiType = "org")
ascii(list(a=1,b=2), list.type="label")
options(op)
op <- options(asciiType = "org")
ascii(sessionInfo())
options(op)
op <- options(asciiType = "org")
local({x <- 1:10; y <- rnorm(length(x), 1+x); ascii(lm(y~x)) })
options(op)
op <- options(asciiType = "org")
local({x <- 1:10; y <- rnorm(length(x), 1+x); ascii(summary(lm(y~x))) })
options(op)
op <- options(asciiType = "org")
ascii(matrix(1:4,2,2,FALSE,list(1:2,c("A","B"))), TRUE, TRUE, digits=0)
options(op)
op <- options(asciiType = "org")
ascii(table(rbinom(100,5,.3)), digits=0)
options(op)
op <- options(asciiType = "org")
ascii(c(a=1L,b=2L),FALSE,TRUE,digits=0)
options(op)
op <- options(asciiType = "org")
ascii(seq(0,1,length=11),digits=1)
options(op)
op <- options(asciiType = "org")
ascii(c(a="A",b="B"),FALSE,TRUE,header=TRUE)
options(op)
op <- options(asciiType = "org")
ascii(factor(c("A","B")),FALSE)
options(op)
op <- options(asciiType = "org")
ascii(system.time(sum(1:1e6)), header=TRUE)
options(op)
data(esoph)
ascii(esoph[1:10,])
tab <- table(esoph$agegp, esoph$alcgp)
ascii(tab)
print(ascii(tab), type = "t2t")
print(ascii(tab), type = "rest")
print(ascii(tab), type = "org")
ascii(summary(tab))
```

ascii.microbenchmark *Ascii formatting for a microbenchmark*

Description

The default implementation returns an asciiMixed object with the units for the first element.

Usage

```
## S3 method for class 'microbenchmark'
ascii(x, unit, order, signif, row.names = FALSE, caption = NULL, ...)
```

Arguments

x	an object of class 'microbenchmark'
unit	What unit to print the timings in. Default value taken from the option 'microbenchmark.unit'
order	If present, order results according to this column of the output.
signif	If present, limit the limit of significant digits shown.
row.names	Argument passed to ascii
caption	logical; if not NULL, then add caption with units specified; otherwise, add units as part of an asciiMixed object.
...	Other parameters to pass to ascii for the summary table

Value

ascii object

asciiCbind-class *ascii table generator*

Description

ascii table generator

Author(s)

David Hajage

asciiCoefmat *Translation of the printCoefmat function for ascii*

Description

Compared with printCoefmat, this drops the quote and right arguments, and adds include.rownames, include.colnames and header default arguments.

Usage

```
asciiCoefmat(
  x,
  digits = max(3L, getOption("digits") - 2L),
  signif.stars = getOption("show.signif.stars"),
  signif.legend = signif.stars,
  dig.tst = max(1L, min(5L, digits - 1L)),
  cs.ind = 1:k,
  tst.ind = k + 1,
  zap.ind = integer(),
  P.values = NULL,
 has.Pvalue = nc >= 4L && length(cn <- colnames(x)) && substr(cn[nc], 1L, 3L) %in%
    c("Pr(", "p-v"),
  eps.Pvalue = .Machine$double.eps,
  na.print = "NA",
  include.rownames = TRUE,
  include.colnames = TRUE,
  header = TRUE,
  ...
)
```

Arguments

x	coefficient summary table that is suitable for printCoefmat
digits	minimum number of significant digits to be used for most numbers.
signif.stars	locial; if 'TRUE', P-values are additionally encoded visually as 'significance stars' in order to help scanning of long coefficient tables. It defaults to the 'show.signif.stars' slot of 'options'.
signif.legend	logical; if 'TRUE', a legend for the 'significance stars' is printed provided 'signif.stars = TRUE'.
dig.tst	minimum number of significant digits for the test statistics, see 'tst.ind'.
cs.ind	indices (integer) of column numbers which are (like) *c*oefficients and *s*tandard errors to be formatted together.
tst.ind	indices (integer) of column numbers for test statistics.
zap.ind	indices (integer) of column numbers which should be formatted by zapsmall, i.e., by 'zapping' values close to 0.

P.values	logical or 'NULL'; if 'TRUE', the last column of 'x' is formatted by format.pval as P values. If 'P.values = NULL', the default, it is set to 'TRUE' only if 'options("show.coef.Pvalue")' is 'TRUE' _and_ 'x' has at least 4 columns _and_ the last column name of 'x' starts with '"Pr("'.
has.Pvalue	logical; if 'TRUE', the last column of 'x' contains P values; in that case, it is printed if and only if 'P.values' (above) is true.
eps.Pvalue	lower threshold for reporting p-values.
na.print	a character string to code NA values in printed output.
include.rownames	argument passed to ascii
include.colnames	argument passed to ascii
header	argument passed to ascii
...	other argments passed to ascii

Value

ascii object. This is character, rather than numeric.

`Asciidoc` *Sweave wrappers*

Description

Sweave wrappers

Usage

```
Asciidoc(
  file,
  driver = RweaveAsciidoc,
  syntax = SweaveSyntaxNoweb,
  encoding = "",
  ...
)

T2t(file, driver = RweaveT2t, syntax = SweaveSyntaxNoweb, encoding = "", ...)

ReST(file, driver = RweaveReST, syntax = SweaveSyntaxNoweb, encoding = "", ...)

Org(file, driver = RweaveOrg, syntax = SweaveSyntaxNoweb, encoding = "", ...)

Textile(
  file,
  driver = RweaveTextile,
```

```
  syntax = SweaveSyntaxNoweb,
  encoding = "",
  ...
)

Pandoc(
  file,
  driver = RweavePandoc,
  syntax = SweaveSyntaxNoweb,
  encoding = "",
  ...
)
```

Arguments

file	Name of Sweave source file.
driver	Sweave driver
syntax	Sweave syntax
encoding	Encoding
...	Further arguments passed to the driver's setup function.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

Sweave

Examples

```
## Not run:
testfile <- system.file("examples", "Org-test-1.nw", package = "ascii")

## enforce par(ask = FALSE)
options(device.ask.default = FALSE)

## create an org file - in the current working directory, getwd():
Org(testfile)
Org(testfile, driver=weaverOrg)

## This can be edited in and exported from Org Mode

## End(Not run)
```

asciiList-class *ascii list generator*

Description

ascii list generator

Methods

`show.asciidoc( x = .self$x, caption = .self$caption, caption.level = .self$caption.level, list.type = .se`
print a list with asciidoc markup

`show.org( x = .self$x, caption = .self$caption, caption.level = .self$caption.level, list.type = .self$li`
print a list with org markup

`show.pandoc( x = .self$x, caption = .self$caption, caption.level = .self$caption.level, list.type = .self`
print a list with pandoc markup

`show.rest( x = .self$x, caption = .self$caption, caption.level = .self$caption.level, list.type = .self$l`
print a list with rest markup

`show.t2t( x = .self$x, caption = .self$caption, caption.level = .self$caption.level, list.type = .self$li`
print a list with t2t markup

`show.textile( x = .self$x, caption = .self$caption, caption.level = .self$caption.level, list.type = .sel`
print a list with textile markup

Author(s)

David Hajage

asciiMixed-class *ascii mixed generator*

Description

ascii mixed generator

Methods

`show.asciidoc()` print everything with asciidoc markup

`show.org()` print everything with org markup

`show.pandoc()` print everything with pandoc markup

`show.rest()` print everything with rest markup

`show.t2t()` print everything with t2t markup

`show.textile()` print everything with textile markup

Author(s)

David Hajage

asciiTable-class *ascii table generator*

Description

ascii table generator

Methods

`show.asciidoc( x = .self$x, include.rownames = .self$include.rownames, include.colnames = .self$include.`
print a table with asciidoc markup

`show.org( x = .self$x, include.rownames = .self$include.rownames, include.colnames = .self$include.colna`
print a table with org-mode markup

`show.pandoc( x = .self$x, include.rownames = .self$include.rownames, include.colnames = .self$include.co`
print a table with pandoc markup

`show.rest( x = .self$x, include.rownames = .self$include.rownames, include.colnames = .self$include.colr`
print a table with restructuredText markup

`show.t2t( x = .self$x, include.rownames = .self$include.rownames, include.colnames = .self$include.colna`
print a table with txt2tags markup

`show.textile( x = .self$x, include.rownames = .self$include.rownames, include.colnames = .self$include.c`
print a table with textile markup

Author(s)

David Hajage

cbind.ascii *Cbind two ascii objects*

Description

Cbind two ascii objects

Usage

```
## S3 method for class 'ascii'
cbind(
  ...,
  caption = NULL,
  caption.level = NULL,
  frame = NULL,
  grid = NULL,
  col.width = 1,
  width = 0
)
```

Arguments

...	ascii objects
caption	see ?ascii
caption.level	see ?ascii
frame	see ?ascii
grid	see ?ascii
col.width	see ?ascii
width	see ?ascii

Details

This function binds cols of two ascii table.

Value

An "asciiCbind" object.

Author(s)

David Hajage

---

convert *Convert a file with specified backend*

Description

Convert a file with specified backend

Usage

```
convert(
  i,
  d = NULL,
  f = NULL,
  e = NULL,
  O = NULL,
  backend = getOption("asciiBackend"),
  cygwin = FALSE,
  open = FALSE
)
```

Arguments

i	input file
d	output directory
f	format
e	encoding
O	other options
backend	backend ("asciidoc", "t2t" or "pandoc")
cygwin	use cygwin?
open	open resulting file?

Details

This function convert a file with asciidoc, txt2tags or pandoc backend

Value

Nothing

Author(s)

David Hajage

---

createreport *Report creation*

Description

Produce a report

Usage

```
createreport(
  ...,
  list = NULL,
  file = NULL,
  format = NULL,
  open = TRUE,
  backend = getOption("asciiBackend"),
  encoding = NULL,
  options = NULL,
  cygwin = FALSE,
  title = NULL,
  author = NULL,
  email = NULL,
  date = NULL
)
```

Arguments

...	R objects (not used if "list" is not NULL)
list	list of R objects
file	name of the output file (without extension)
format	format of the output file
open	open resulting file?
backend	backend
encoding	encoding
options	other options
cygwin	use cygwin?
title	title of the report
author	author of the report
email	email of the author
date	date

Details

Produce a report from a list of R objects. This function can be used directly, or through a Report object (see examples). Report$new() creates a new object, Report$create() produce a report. Exportation options can be specified with Report$nameoftheoption <- option or directly in Report$create(nameoftheoption = option).

Special objects can be used to create sections (see ?section), paragraphs (see ?paragraph), verbatim environment (see ?verbatim and to insert figures (see ?fig) or inline results (see ?sexpr). Helpers exist: Report$addSection(), Report$addParagraph(), Report$addVerbatim(), Report$addFig().

It needs a working installation of asciidoc, a2x tool chain, txt2tags and/or pandoc (NB: markdown2pdf uses pandoc with latex).

Value

Nothing

Author(s)

David Hajage

Examples

```
## Not run:
op <- options(asciiType = "asciidoc")
createreport(head(esoph))

r <- Report$new(author = "David Hajage", email = "dhajage at gmail dot com")
r$add(section("First section"))
r$addSection("First subsection", 2)
r$add(paragraph("The data set has", sexpr(nrow(esoph)), " lines. See yourself:"), esoph)
```

```
r$addSection("Second subsection: age and alc group", 2)
tab <- with(esoph, table(alcgp, agegp))
r$add(ascii(tab), ascii(summary(tab), format = "nice"))
r$create()
r$format <- "slidy"
r$create()

r$title <- "R report example"
r$author <- "David Hajage"
r$email <- "dhajage at gmail dot com"
options(asciiType = "pandoc")
r$backend <- "pandoc"
r$format <- "odt"
r$create()

r$create(backend = "markdown2pdf", format = "pdf")
options(op)

## End(Not run)
```

`fig` *Insert figure*

Description

graph can be used with `export` function to insert an R graphic.

Usage

```
fig(file = NULL, graph = NULL, format = NULL, ...)
```

Arguments

`file`	character string (
`graph`	a recordedplot, a lattice plot, a ggplot, or an expression producing a plot (optional if the file already exists)
`format`	jpg, png or pdf (or guessed with the file name)
`...`	additional arguments (passed to format options)

Value

A fig object

Author(s)

David Hajage

out *Export R objects*

Description

out can be used with export function to insert an R results

Usage

```
out(x, results = "verbatim")
```

Arguments

x	an R object
results	if 'verbatim', the output is included in a verbatim environment. If 'ascii', the output is taken to be already proper markup and included as is.

Value

An out object

Author(s)

David Hajage

paragraph *Create a paragraph*

Description

paragraph can be used with export function to add. . . a paragraph

Usage

```
paragraph(..., new = TRUE)
```

Arguments

...	strings composing the paragraph
new	whether to create a new paragraph or to continue a preceding one

Value

A paragraph object.

Author(s)

David Hajage

plim *format p values*

Description

format p values

Usage

```
plim(p, digits = 4)
```

Arguments

p	p values
digits	number of digits

Value

formated p values

Author(s)

David Hajage

print,asciiCbind-method *Print ascii object*

Description

Function displaying the asciidoc, txt2tags, reStructuredText, org or textile code associated with the supplied object of class `ascii`.

Usage

```
## S4 method for signature 'asciiCbind'
print(
  x,
  type = getOption("asciiType"),
  file = NULL,
  append = FALSE,
  escape = FALSE,
  list.escape = c("\\_", "\\^"),
  ...
)
```

```
## S4 method for signature 'asciiCbind'
show(object)

## S4 method for signature 'asciiTable'
print(
  x,
  type = getOption("asciiType"),
  file = NULL,
  append = FALSE,
  escape = FALSE,
  list.escape = c("\\_", "\\^"),
  ...
)

## S4 method for signature 'asciiTable'
show(object)

## S4 method for signature 'asciiList'
print(
  x,
  type = getOption("asciiType"),
  file = NULL,
  append = FALSE,
  escape = FALSE,
  list.escape = c("\\_", "\\^"),
  ...
)

## S4 method for signature 'asciiList'
show(object)

## S4 method for signature 'asciiMixed'
print(
  x,
  type = getOption("asciiType"),
  file = NULL,
  append = FALSE,
  escape = FALSE,
  list.escape = c("\\_", "\\^"),
  ...
)

## S4 method for signature 'asciiMixed'
show(object)

## S4 method for signature 'Report'
print(x, help = FALSE, ...)
```

```
## S4 method for signature 'Report'
show(object)
```

Arguments

x	An object of class "asciiTable", "asciiList", "asciiMixed", "asciiCbind" or "Report".
type	Type of syntax produce. Possible values for type are "asciidoc", "t2t", "rest", "org", "textile" or "pandoc". Default value produce asciidoc syntax.
file	A character string naming the file to print to. Default is NULL (print to the console).
append	If TRUE, code will be appended to file instead of overwriting it. Default value is FALSE
escape	If TRUE, characters in list.escape will be be printed with a \. Default value is FALSE
list.escape	Character vector. Default value is c("_","\\^")
...	Additional arguments. (Currently ignored.)
object	ascii or Report object
help	logical print help? (objects of class "Report")

Details

The package provides the new global option asciiType. Default value is "asciidoc" (see examples).

Author(s)

David Hajage <dhajage@gmail.com>

See Also

ascii

Examples

```
data(esoph)
ascii(esoph[1:10,])
print(ascii(esoph[1:10,]), type = "t2t")
print(ascii(esoph[1:10,]), type = "rest")
print(ascii(esoph[1:10,]), type = "org")
print(ascii(esoph[1:10,]), type = "textile")
print(ascii(esoph[1:10,]), type = "pandoc")
options(asciiType = "rest")
ascii(esoph[1:10,])
options(asciiType = "asciidoc")
```

print.fig *Print an graph object*

Description

Print an graph object

Usage

```
## S3 method for class 'fig'
print(x, backend = getOption("asciiBackend"), ...)
```

Arguments

x	an graph object
backend	ascii backend
...	not used

Author(s)

David Hajage

print.out *Print an out object*

Description

Print an out object

Usage

```
## S3 method for class 'out'
print(x, backend = getOption("asciiBackend"), ...)
```

Arguments

x	an out object
backend	ascii backend
...	not used

Author(s)

David Hajage

print.paragraph *Print a paragraph object*

Description

Print a paragraph object

Usage

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

Arguments

x	a paragraph object
...	not used

Author(s)

David Hajage

print.section *Print a section object*

Description

Print a section object

Usage

```
## S3 method for class 'section'
print(x, backend = getOption("asciiBackend"), ...)
```

Arguments

x	a section object
backend	ascii backend
...	not used

Author(s)

David Hajage

print.sexpr *Print a sexpr object*

Description

Print a sexpr object

Usage

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

Arguments

x	a sexpr object
...	not used

Author(s)

David Hajage

print.verbatim *Print a verbatim object*

Description

Print a verbatim object

Usage

```
## S3 method for class 'verbatim'
print(x, backend = getOption("asciiBackend"), ...)
```

Arguments

x	a verbatim object
backend	ascii backend
...	not used

Author(s)

David Hajage

RtangleAscii *RtangleAscii*

Description

RtangleAscii

Usage

```
RtangleAscii()
```

section *Create a section*

Description

`section` can be used with `export` function to add... a section

Usage

```
section(caption, caption.level = 1)
```

Arguments

`caption`	a string
`caption.level`	caption level

Value

A section object.

Author(s)

David Hajage

sexpr *Insert an inline R result*

Description

sexpr can be used with export function to insert an inline R results

Usage

```
sexpr(x)
```

Arguments

x	an R results (of length one)

Value

A sexpr object.

Author(s)

David Hajage

verbatim *Create a verbatim paragraph*

Description

verbatim can be used with export function to add a verbatim paragraph

Usage

```
verbatim(...)
```

Arguments

...	strings composing the paragraph (line by line)

Value

A verbatim object.

Author(s)

David Hajage

Index