

Package ‘ascii’

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Type Package

Title Export R objects to several markup languages

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

License GPL (>= 2)

URL <http://eusebe.github.com/ascii/>, <http://github.com/eusebe/ascii/>

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Suggests survival, Hmisc, xtable, R2HTML

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 ascii

Export R objects to several markup languages

Description

Function converting an R object to an `ascii` object, which can then be printed with `asciidoc`, `txt2tags`, `sphinx` or `org` syntax.

Usage

```
## Default S3 method:
ascii(x,
      include.rownames = TRUE, include.colnames = TRUE,
      rownames = NULL, colnames = NULL,
      format = "f", digits = 2, decimal.mark = ".", na.print = "",
      caption = "", caption.level = "", width = 0, frame = "",
      grid = "", valign = "", header = TRUE, footer = FALSE,
      align = "", col.width = 1, style = "", cgroup = NULL,
      n.cgroup = NULL, calign = "", cvalign = "", cstyle = "",
      rgroup = NULL, n.rgroup = NULL, ralign = "", rvalign = "",
      rstyle = "", ...)
## S3 method for class 'ftable':
ascii(x, digits = getOption("digits"), header = TRUE, ...)
## S3 method for class 'describe':
ascii(x, condense = TRUE, ...)
## S3 method for class 'summary.table':
ascii(x, caption = "", caption.level = "", list.type = "bullet", ...)
## S3 method for class 'list':
ascii(x, caption = "", caption.level = "", list.type = "bullet", ...)
## S3 method for class 'sessionInfo':
ascii(x, locale = TRUE, ...)
## S3 method for class 'smooth.spline':
ascii(x, caption = "", caption.level = "", list.type = "bullet", ...)
```

Arguments

<code>x</code>	An R object of class found among methods (<code>ascii</code>).
<code>include.rownames</code>	logical. If <code>TRUE</code> the rows names are printed. Default value depends of class of <code>x</code> .
<code>include.colnames</code>	logical. If <code>TRUE</code> the columns names are printed. Default value depends of class of <code>x</code> .
<code>rownames</code>	Character vector (replicated or truncated as necessary) indicating rownames of the corresponding rows. If <code>NULL</code> (default) the row names are not modified

colnames	Character vector (replicated or truncated as necessary) indicating colnames of the corresponding columns. If <code>NULL</code> (default) the column names are not modified
format	Character vector of length equal to the number of columns of the resulting table (otherwise it will be replicated or truncated as necessary) indicating the format for the corresponding columns. These values are passed to the <code>formatC</code> function. Use "d" (for integers), "f", "e", "E", "g", "G", "fg" (for reals), or "s" (for strings). "f" gives numbers in the usual <code>xxx.xxx</code> format; "e" and "E" give <code>n.ddde+nn</code> or <code>n.ddde+nn</code> (scientific format); "g" and "G" put <code>x[i]</code> into scientific format only if it saves space to do so. "fg" uses fixed format as "f", 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> .
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 "".
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 ".".
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 "".
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 "".
valign	Character vector of length one indicating vertical alignment of all cells in table. Can take the following values: "top", "bottom" and "middle". Default is "".
header	logical. If <code>TRUE</code> the first line of the table is emphasized. The default value depends of class of <code>x</code> .
footer	logical. If <code>TRUE</code> the last line of the table is emphasized. The default value depends of class of <code>x</code> .
align	Character vector of length one indicating the alignment of the corresponding columns. Can be composed with "r" (right), "l" (left) and "c" (center). Default value is "".
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.

<code>style</code>	Character vector of length one indicating the style of the corresponding columns. Can be composed with "d" (default), "e" (emphasis), "m" (monospaced), "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 "".
<code>cgroup</code>	Character vector defining major column headings. The default is to have none (NULL).
<code>n.cgroup</code>	A numeric vector containing the number of columns for which each element in <code>cgroup</code> is a heading. For example, specify <code>cgroup=c("Major 1", "Major 2")</code> , <code>n.cgroup=c(3, 3)</code> if "Major 1" is to span columns 1-3 and "Major 2" is to span columns 4-6. Row names count in the column numbers if <code>include.rownames = TRUE</code> .
<code>calign</code>	Character vector of length one defining alignment of major column headings.
<code>cvalign</code>	Character vector of length one defining vertical alignment of major column headings.
<code>cstyle</code>	Character vector of length one indicating the style of major column headings
<code>rgroup</code>	Character vector defining major row headings. The default is to have none (NULL).
<code>n.rgroup</code>	A numeric vector containing the number of rows for which each element in <code>rgroup</code> is a heading. Column names count in the row numbers if <code>include.colnames = TRUE</code> .
<code>ralign</code>	Character vector of length one defining alignment of major row headings.
<code>rvalign</code>	Character vector of length one defining vertical alignment of major row headings.
<code>rstyle</code>	Character vector of length one indicating the style of major row headings
<code>list.type</code>	Character vector of length one indicating the list type ("bullet", "number", "label" or "none"). If "label", <code>names(list)</code> is used for labels. Default is "bullet".
<code>condense</code>	default is TRUE to condense the output with regard to the 5 lowest and highest values and the frequency table (<code>describe()</code> in package <code>Hmisc</code>).
<code>locale</code>	default is TRUE to show locale information (<code>sessionInfo()</code>).
<code>...</code>	Additional arguments. (Currently ignored.)

Details

The nature of the output generated 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 `c("ascii", "proto", "environment")`.

Value

This function returns an object of class `c("ascii", "proto", "environment")`.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[print.ascii](#)

Examples

```
data(esoph)
ascii(esoph[1:10,])
tab <- table(esoph$agegp, esoph$alcgp)
ascii(tab)
print(ascii(tab), type = "t2t")
print(ascii(tab), type = "sphinx")
print(ascii(tab), type = "org")
ascii(summary(tab))
```

Asciidoc

Sweave wrapper for asciidoc

Description

Like Sweave, but use RweaveAsciidoc driver as default value.

Usage

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

Arguments

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

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

Org *Sweave wrapper for org*

Description

Like Sweave, but use RweaveOrg driver as default value.

Usage

```
Org(file, driver = RweaveOrg, syntax = SweaveSyntaxNoweb, ...)
```

Arguments

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

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

print.ascii *Print ascii object*

Description

Function displaying the asciiDoc, txt2tags, sphinx or org code associated with the supplied object of class ascii.

Usage

```
print.ascii(x, type = getOption("asciiType"), file = NULL, append = FALSE, ...)
```

Arguments

<code>x</code>	An object of class "ascii"
<code>type</code>	Type of syntax produce. Possible values for <code>type</code> are "asciidoc", "t2t", "sphinx" or "org". Default value produce asciidoc syntax.
<code>file</code>	A character string naming the file to print to. Default is NULL (print to the console).
<code>append</code>	If TRUE, code will be appended to <code>file</code> instead of overwriting it. Default value is FALSE
<code>...</code>	Additional arguments. (Currently ignored.)

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 = "sphinx")
print(ascii(esoph[1:10,]), type = "org")
options(asciiType = "sphinx")
ascii(esoph[1:10,])
options(asciiType = "asciidoc")
```

RweaveAsciidoc

A driver to parse asciidoc noweb files with Sweave tool

Description

This driver parses asciidoc files containing R code and replace pieces of code with their output.

Usage

```
RweaveAsciidoc()
```

Value

None value is returned. From a .Rnw noweb file, the corresponding .txt is produced (as eventuals files for graphs).

Note

In order to work properly, noweb codes have to be located at the beginning of a line (no indentation).

Compare with RweaveLatex driver, RweaveAsciidoc provides four new options : `res` for the resolution of `jpg` or `png` figure (if produced), `ext` (extension) for the format of figure that will be inserted, and `png` and `jpg` (from R2HTML package) to produce `png` and `jpg` figures.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

Examples

```
## Not run:
library(tools)
Sweave("file.Rnw", driver=RweaveAsciidoc)

## End(Not run)
```

RweaveOrg

A driver to parse org noweb files with Sweave tool

Description

This driver parses org files containing R code and replace pieces of code with their output.

Usage

```
RweaveOrg()
```

Value

None value is returned. From a .Rnw noweb file, the corresponding .org is produced (as eventuals files for graphs).

Note

In order to work properly, noweb codes have to be located at the beginning of a line (no indentation). Compare with RweaveLatex driver, RweaveOrg provides four new options : `res` for the resolution of jpg or png figure (if produced), `ext` (extension) for the format of figure that will be inserted, and `png` and `jpg` (from R2HTML package) to produce png and jpg figures.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

Examples

```
## Not run:
library(tools)
Sweave("file.Rnw", driver=RweaveOrg)

## End(Not run)
```

RweaveSphinx

A driver to parse sphinx noweb files with Sweave tool

Description

This driver parses sphinx files containing R code and replace pieces of code with their output.

Usage

```
RweaveSphinx()
```

Value

None value is returned. From a .Rnw noweb file, the corresponding .rst is produced (as eventuals files for graphs).

Note

In order to work properly, noweb codes have to be located at the beginning of a line (no indentation). Compare with RweaveLatex driver, RweaveSphinx provides four new options : `res` for the resolution of jpg or png figure (if produced), `ext` (extension) for the format of figure that will be inserted, and `png` and `jpg` (from R2HTML package) to produce png and jpg figures.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

Examples

```
## Not run:
library(tools)
Sweave("file.Rnw", driver=RweaveSphinx)

## End(Not run)
```

RweaveT2t

A driver to parse txt2tags noweb files with Sweave tool

Description

This driver parses txt2tags files containing R code and replace pieces of code with their output.

Usage

```
RweaveT2t ()
```

Value

None value is returned. From a .Rnw noweb file, the corresponding .t2t is produced (as eventuals files for graphs).

Note

In order to work properly, noweb codes have to be located at the beginning of a line (no indentation).

Compare with RweaveLatex driver, RweaveT2t provides four new options : `res` for the resolution of jpg or png figure (if produced), `ext` (extension) for the format of figure that will be inserted, and `png` and `jpg` (from R2HTML package) to produce png and jpg figures.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

Examples

```
## Not run:
library(tools)
Sweave("file.Rnw", driver=RweaveT2t)

## End(Not run)
```

Sphinx

Sweave wrapper for sphinx

Description

Like Sweave, but use `RweaveSphinx` driver as default value.

Usage

```
Sphinx(file, driver = RweaveSphinx, syntax = SweaveSyntaxNoweb, ...)
```

Arguments

<code>file</code>	Name of Sweave source file.
<code>driver</code>	Sweave driver
<code>syntax</code>	Sweave syntax
<code>...</code>	Further arguments passed to the driver's setup function.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

T2t

Sweave wrapper for txt2tags

Description

Like Sweave, but use `RweaveT2t` driver as default value.

Usage

```
T2t(file, driver = RweaveT2t, syntax = SweaveSyntaxNoweb, ...)
```

Arguments

<code>file</code>	Name of Sweave source file.
<code>driver</code>	Sweave driver
<code>syntax</code>	Sweave syntax
<code>...</code>	Further arguments passed to the driver's setup function.

Author(s)

David Hajage <dhajage@gmail.com>

See Also

[Sweave](#)

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