Package ‘odfWeave’

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Type Package

Title Sweave processing of Open Document Format (ODF) files

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Author Max Kuhn. Contributions from Steve Weston, Nathan Coul-ter, Patrick Lenon, Zekai Otles and the R Core Team

Maintainer Max Kuhn <max.kuhn@pfizer.com>

Description Sweave processing of Open Document Format (ODF) files

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adjustImageSize

Automate image size adjustments

Description

This function is a wrapper for getImageDefs and setImageDefs to allow the user to change image sizes in one function call.

Usage

adjustImageSize(x, y, scale = 1, res = 96)

Arguments

x  the display width of an image (in inches)
y  the display height of an image (in inches)
 scale  a scaling factor for the image file size
 res  resolution for bitmap images

Details

This function will get the current image specifications, change them and reset them using setImageDefs. If the device is either bmp, jpeg or png, the image will be converted to pixel size using the res argument.

Optionally, to make bitmap images look a little better, the scale argument can be used to scale-up the image file. This also has the effect of reducing the size of text and points in the displayed image.

Value

No data are returned.
Author(s)

Sarah Goslee, Max Kuhn

Examples

```r
getImageDefs()
adjustImageSize(2, 5, scale = 1.75)
getImageDefs()
```

---

```
announce cat and flush console
```

Description

This function is a wrapper for `cat` with an immediate flush of the console

Usage

```r
announce(verbos = TRUE, ...)
```

Arguments

`verbose` a logical for printing

`...` arguments passed to `cat`

Value

`NULL`, invisibly

Author(s)

Nathan Coulter

Examples

```r
announce()
announce(FALSE, "this will not be printed")
announce(TRUE, "but this will be")
```
listString  

Convert a vector to a textual list

Description
Takes a vector and produces output like "element1 and element2" or "element1, element2 and element3"

Usage
listString(x, period = FALSE, verbose = FALSE)

Arguments
- x: a vector (converted to character if not)
- period: a logical: should a period end the text?
- verbose: a logical: how much details are logged

Value
a character string

Author(s)
Max Kuhn

Examples
listString(letters[1])
listString(letters[1:2])
listString(letters[1:4])

matrixPaste  

Element-Wise Paste of Conforming Matrices

Description
For a series of character matrices with the same dimensions, paste each element together in the order specified.

Usage
matrixPaste(..., sep = rep(" ", length(list(...)) - 1))
Arguments

... a set of P character matrices with the same dimensions
sep a vector of P-1 separators for each element

Details

The matrices are converted to vectors and pasted, then re-dimensioned. Different separators can be used between matrices, but the same separator must be used for all of the elements.

Value

a character matrix

Author(s)

Max Kuhn

Examples

mat1 <- matrix(letters[1:6], nrow = 2)
mats <- matrix(LETTERS[1:6], nrow = 2)
mats3 <- matrix(paste(1:6), nrow = 2)

matrixPaste(mat1, mat2)
matrixPaste(mat1, mat2, sep = "+")
matrixPaste(mat1, mat2, mat3, sep = c("+", "plus"))

odfCat

Concatenate and Print in Native ODF

Description

Outputs the objects, concatenating the representations, and sandwiches the output between XML tags.

Usage

odfCat(..., sep = " ", trim = FALSE,
digits = max(3, getOption("digits") - 3), nsmall = 0,
width = NULL, na.encode = TRUE, scientific = NA)
Arguments

... R objects (see Details for the types of objects allowed).
sep character string to insert between the objects to print.
trim used to convert numeric data to character using \texttt{format}
digits used to convert numeric data to character using \texttt{format}
nsmall used to convert numeric data to character using \texttt{format}
width used to convert numeric data to character using \texttt{format}
na.encode used to convert numeric data to character using \texttt{format} x
scientific used to convert numeric data to character using \texttt{format}

Details

\texttt{odfCat} is an analog to \texttt{cat} and is useful for producing output in user-defined functions. It converts its arguments to character strings, concatenates them, separating them by the given \texttt{sep=} string. It then sandwiches the text between \texttt{<text:p>} tags, and then outputs them. Note that this will produce paragraphs and cannot sequentially produce sentences within a paragraph.

\texttt{cat} uses an internal function, so there will be some differences between \texttt{cat} and \texttt{odfCat}. For example, factors are naively converted to character and numeric data are converted to character.

Since the text is embedded in ODF tags escaped characters (e.g. \texttt{\backslash n}) don’t have any effect. Exceptions are single- and double-quotes.

The paragraph uses the current paragraph style. The document formatting.odt in the package’s examples directory illustrates the process of changing the appearance of the paragraph.

Value

a character string of class \texttt{odfCat}

Author(s)

Max Kuhn

See Also

\texttt{cat, format}

Examples

\begin{verbatim}
odfCat("\"hello world\"")
odfCat("these are the first letters", letters[1:5])
odfCat("some random normal data:", rnorm(5))
\end{verbatim}
odfFigureCancel  

Cancel Display of a Figure

Description

This function can be called in a code chunk that uses the fig=TRUE option when you change your mind about producing a figure.

Usage

odfFigureCancel()

odfFigureCaption  

Provide a Caption for a Figure

Description

Provide a numbered caption for a figure. Captions are automatically numbered, and by default using arabic numerals, but letters or roman numerals can also be specified via the numformat argument.

Usage

odfFigureCaption(caption, 
                numformat = '1',
                numlettersync = FALSE,
                formula = 'Illustration+1',
                label = 'Illustration')

Arguments

caption  the text portion of the caption
numformat the format to use the figure number
numlettersync specifies the style of numbering to use if numformat is 'A' or 'a'
formula the formula to use for computing this figure number from the previous
label the label to use for the caption. Defaults to 'Illustration'.

Details

This function should be called no more than once in a code chunk where 'figure' was set to true.

Legal values for numformat are 'A', 'a', 'I', 'i', and '1'.

If numformat is 'A' or 'a', numlettersync specifies what style of numbering to use after the first 26 figures. If numlettersync is true, the next 26 figures will be numbered 'AA', 'BB', ..., 'ZZ', 'AAA', 'BBB', etc. If numlettersync is false, the subsequent figures will be numbered 'AA', 'AB', ..., 'AZ', 'BA', 'BB', ..., 'BZ', etc.

The default formula, which numbers figures consecutively, is usually desired, but you could specify a formula of 'Illustration+10' to have your figures numbered 1, 11, 21, etc.
Examples

```r
## Not run:
odfFigureCaption("This is a very interesting figure")

## End(Not run)
```

---

odfInsertPlot  Write XML for image insertion

---

**Description**

Writes ODF markup to allow images in documents. Also can copy the image file to the Picture directory.

**Usage**

```r
odfInsertPlot(file, height, width, units = "in", anchor =
c("<text:p>", "</text:p>"), name = paste("graphics",
floor(runif(1) * 1000), sep = ""), externalFile =
FALSE, dest = paste(getwd(), "/Pictures", sep = ""),
caption = NULL)
```

**Arguments**

- `file` a string for the image file location
- `height` the display height of the image
- `width` the display width of the image
- `units` the units for the display dimensions
- `anchor` a character vector of length 2. The image markup will be sandwiched between these two elements
- `name` a name for the figure
- `dest` the location of the picture directory
- `externalFile` a logical; was the plot automatically generated by R during Sweaving? If TRUE, then the file is copied to the Pictures directory.
- `caption` either NULL (for no caption) or the output of `odfFigureCaption`. Note that specifying a caption results in the image being placed within a frame

**Value**

a character string

**Author(s)**

Max Kuhn
odfItemize

Examples

odfInsertPlot("plot.png", 4, 4)

---

odfItemize  Write XML for one layer lists

Description

Creates ODF markup for enumerated or bulleted list one layer deep

Usage

odfItemize(data, ...)

Arguments

data  a vector
...  options to pass to format

Value

a string of XML markup

Author(s)

Max Kuhn

Examples

odfItemize(levels(iris$Species))

---

odfPageBreak  Generate a Page Break

Description

Generate a page break in an odfWeave document.

Usage

odfPageBreak()

Details

This function should be called in a code chunk in an odfWeave document at the point where a page break is desired.
Examples

## Not run:

odfPageBreak()

## End(Not run)

---

odfSetPageStyle | Set the Page Style

Description

Insert a page break with a specified page style.

Usage

odfSetPageStyle(style="Standard")

Arguments

style | a character string of length one that references a page style that is either contained in the style definitions or already used within the document.

Details

This function should be called in a code chunk in an odfWeave document at the point where a page break with a page style is desired. A common use would be to change the page to landscape mode, perhaps using the "RlandscapePage" style in order to display a table in landscape mode, and then to set it back to the standard style after generating the table.

Examples

## Not run:

odfSetPageStyle("RlandscapePage")

## End(Not run)
Create an Open Document Format table

Description

Create an Open Document Format table from a data frame, matrix or vector

Usage

odfTable(x, ...)

## S3 method for class 'numeric'
odfTable(x,
  horizontal = length(x) < 5,
  colnames = names(x),
  digits = max(3,getOption("digits") - 3),
  name = paste("Table", floor(runif(1) * 1000), sep = ""),
  styles = NULL,
  ...)

## S3 method for class 'character'
odfTable(x,
  horizontal = length(x) < 5,
  colnames = names(x),
  name = paste("Table", floor(runif(1) * 1000), sep = ""),
  styles = NULL,
  ...)

## S3 method for class 'data.frame'
odfTable(x,
  colnames = NULL,
  useRowNames = TRUE,
  digits = max(3,getOption("digits") - 3),
  name = paste("Table", floor(runif(1) * 1000), sep = ""),
  styles = NULL,
  cgroup = NULL,
  rgroup = NULL,
  ...)

## S3 method for class 'matrix'
odfTable(x,
  colnames = NULL,
  useRowNames = TRUE,
  digits = max(3,getOption("digits") - 3),
  name = paste("Table", floor(runif(1) * 1000), sep = ""),
  styles = NULL,
  cgroup = NULL,
rgroup = NULL,
...)

Arguments

x A vector, matrix or data frame.
horizontal A logical: should the vector be shown as a 1xn table or nx1? This is ignored for other data structures.
colnames A vector of column names that can be used. Note that if the row names are used in the table, this should contain an extra element for that column.
useRowNames A logical: should the row names be printed in the final table.
digits Number of significant digits passed to format.
name A name for the table. ODF requires a name for each object, so a random name will be used if unspecified.
styles An optional list of style names for each table element (cells, headers etc). See tableStyles
cgroup A data frame with two, three, or four columns. The first column should be a character vector specifying column group header names. The resulting row will come before the header names specified via the colnames argument. The second column should be a numeric vector specifying the column span for the corresponding element of the first column. The sum of the second column must be equal to the number of columns in x, plus one, if useRowNames is true and x actually has row names. If there is a third column, it should contain the names of paragraph styles to use. If there is a fourth column, it should contain the names of cell styles. In the absence of these columns, the cgrouptext and cgroupcell elements of the styles argument will be used.
rgroup A data frame with two, three, or four columns. The first column should be a character vector specifying row group header names. The second column should be a numeric vector specifying the row span for the corresponding element of the first column. The sum of the second column must be equal to the number of rows in x. If there is a third column, it should contain the names of paragraph styles to use. If there is a fourth column, it should contain the names of cell styles. In the absence of these columns, the rgroupText and rgroupCell elements of the styles argument will be used.

Details

The data structures are converted to character matrices using format. The justify and trim arguments to format are usually overridden by the table style options, so those arguments are automatically set to justify = "none" and trim = TRUE. However, if values of these arguments are passed using the three dots, format will use them (but they probably won’t do anything).

When using odfTable in a code chunk, the chunk’s results argument should be set to xml.

The document formatting.odt in the package’s examples directory illustrates the process of changing the appearance of the table.
odfTableCaption

Value

a list of character string that contain XML markup

Author(s)

Max Kuhn, with contributions from Zekai Otles

See Also

tableStyles

Examples

odfTable(iris[1:5,])

### Description

Provide a numbered caption for a table. Captions are automatically numbered, and by default using arabic numerals, but letters or roman numerals can also be specified via the numformat argument.

### Usage

odfTableCaption(caption, numformat='1', numlettersync=FALSE, formula='Table+1', label='Table')

### Arguments

caption: the text portion of the caption

numformat: the format to use the table number

numlettersync: specifies the style of numbering to use if numformat is 'A' or 'a'

formula: the formula to use for computing this table number from the previous

label: the label to use for the caption. Defaults to 'Table'.

### Details

This function should be called immediately after a call to odfTable in a code chunk in an odfWeave document.

Legal values for numformat are 'A', 'a', 'I', 'i', and '1'.

If numformat is 'A' or 'a', numlettersync specifies what style of numbering to use after the first 26 tables. If numlettersync is true, the next 26 tables will be numbered 'AA', 'BB', ..., 'ZZ', 'AAA', 'BBB', etc. If numlettersync is false, the subsequent tables will be numbered 'AA', 'AB', ..., 'AZ', 'BA', 'BB', ..., 'BZ', etc.

The default formula, which numbers tables consecutively, is usually desired, but you could specify a formula of 'Table+10' to have your tables numbered 1, 11, 21, etc.
Examples

```r
## Not run:
odfTableCaption("This is a very boring table")

## End(Not run)
```

---

**odfTmpDir**  
*odfWeave working directory*

---

**Description**

Create a working directory for odfWeave

**Usage**

```r
odfTmpDir()
```

**Details**

This function determines the temp directory and creates a subdirectory. If a subdirectory cannot be created, an error is thrown.

**Value**

a character string containing the path

**Author(s)**

Max Kuhn

---

**odfTranslate**  
*Translation of text to XML*

---

**Description**

odfTranslate converts some XML modified characters (such as &gt;) to R code (>). This function also tries to mistake proof the code by anticipating characters that might be in UTF-8 encoding to R compliant characters (e.g. OpenOffice may convert some characters. For example, " will become a UTF-8 character, which R will choke on).

**Usage**

```r
odfTranslate(x, toR = TRUE)
```
**odfWeave**

**Arguments**

- `x` a character vector
- `tor` a logical. If TRUE, the text is translated from XML to R. The opposite is done if FALSE.

**Value**

a character vector

**Author(s)**

Max Kuhn and Nathan Coulter

**Examples**

```r
y <- "This is an "quote;interesting"quote; function."
cat(odfTranslate(y))
```

---

**Description**

Sweave processing of Open Document Format (ODF) files

**Usage**

```r
odfWeave(file, dest, workDir = odfTmpDir(), control = odfWeaveControl())
```

**Arguments**

- `file` the ODF file created using OpenOffice V2.0 or above.
- `dest` path to put the processed file (should include file name and extension)
- `workDir` a path to a directory where the source file will be unpacked and processed. If it does not exist, it will be created. If it exists, it should be empty, since all its contents will be included in the generated file.
- `control` a list of control settings. See `odfWeaveControl` for the names of the settable control values and their effects.
Details

odfWeave can be used to embed R code within a word processing document. The odfWeave package was created so that the functionality of Sweave can be used within a rich editor like OpenOffice. The generated document can also easily be edited.

The markup language used is the Open Document Format (ODF), which is an open, non–proprietary format that encompasses text documents, presentations and spreadsheets. There are several editors/office suites that can produce ODF files. OpenOffice, as of version 2.0, uses ODF as the default format. odfWeave has been tested with OpenOffice to produce text documents. As of the current version, odfWeave processing of presentations and spreadsheets should be considered to be experimental (but should be supported in subsequent versions).

Since ODF files are compressed archives of files and directories, R will need to zip and unzip the source file. While R has an unzip utility, it does not have one for re-zipping files, so an external application is needed. unzip and zip are free utilities located at http://www.info-zip.org/

Also, jar can be used. See odfWeaveControl for more information on configuring odfWeave to use applications other than zip and unzip.

A few notes about file paths and working directories:

- When specifying the location of the odt file, you cannot use relative paths such as file = "/..file.odt". If the input or output files are not in the current working directory, then the absolute path should be used
- odfWeave changes the working directory to the location where the odt file is decompressed. If an error occurs within odfWeave, the working directory will be changed back to the original path
- Since odfWeave changes the working directory when the code chunks are executed, references to files and directories should use absolute paths. For example, if you are using read.csv to bring data into R, the file specification should include the whole path since the working directory will have been changed to a temporary location

The functionality of Sweave is mostly preserved in odfWeave, such as weaving, hooks, figure environments, etc. Some functionality, such as writing output to separate files for each code chunk using the split argument, doesn’t make sense when using ODF. See RweaveOdf for more details about the available options.

odfWeave uses the noweb convention for R code. In-line R commands should be in Sexpr calls. The Sexpr text should all be completely in one visual format. e.g., changing the color of part of the Sexpr could result in an error. Block code chunks should use the \texttt{\textless \texttextless \texttextless \texttextless} syntax (i.e. no Latex syntax will currently work).

The image format and sizes are specified using setImageDefs. The dimensions of the image file and the dimensions of the rendered image can be set independently. See setImageDefs for more details.

The document formatting.odt in the package’s examples directory illustrates the process of changing the appearance of the various document elements.

Value

an ODF file with the R output
odfWeaveControl

Author(s)

Max Kuhn

See Also

odfWeaveControl, RweaveOdf, Sweave

Examples

## Not run: vignette("odfWeave")

## Not run:
demoFile <- system.file("examples", "examples.odt", package = "odfWeave")
demoFile <- system.file("examples", "testCases.odt", package ="odfWeave")
demoFile <- system.file("examples", "formatting.odt", package = "odfWeave")

## End(Not run)
demoFile <- system.file("examples", "simple.odt", package = "odfWeave")
outputFile <- gsub("simple.odt", "output.odt", demoFile)

library(odfWeave)
odfWeave(demoFile, outputFile)

---

odfWeaveControl  Control odfWeave options

Description

Allows the user to specify how odfWeave operates and style information for the document.

Usage

```r
odfWeaveControl(zipCmd = c("zip -r $file$ .", "unzip -o $file$"),
    cleanup = !debug,
    verbose = TRUE,
    debug = FALSE)
```

Arguments

- `zipCmd`: a string for the zipping/unzipping the odt file via a system call. The token `$file` will be gsub’ed with the file name.
- `cleanup`: a logical: remove the working directory?
- `verbose`: a logical: should details be printed?
- `debug`: a logical: should intermediate files be kept to aid debugging?
Value

a list with element for each of the arguments above.

Author(s)

Max Kuhn

See Also

odfWeave

Examples

pkgVersions()
pkgVersions("matrix")
pkgVersions("data frame")

pkgVersions

List packages currently used

Description

Creates a string, matrix or data frame that shows the packages and their versions currently used (i.e. in the search path).

Usage

pkgVersions(type = "string", ncol = 4)

Arguments

type a string designating the type of output object: "string", "matrix" or "data frame"
ncol integer specification for the number of columns in the output when type = "matrix"

Value

a string, character matrix or a data frame with columns "Package" and "Version"

Author(s)

Max Kuhn, original version by Jim Rogers

Examples

pkgVersions()
Description

A driver for Sweave that translates R code chunks in XML files produced in Open Document Format (ODF) files.

Usage

RweaveOdf()

RweaveOdfSetup(file, syntax, output = NULL, quiet = FALSE, debug = FALSE, echo = TRUE, eval = TRUE, ...)

Arguments

file Name of Sweave source file.
syntax An object of class SweaveSyntax.
output Name of output file, default is to remove extension ‘.nw’, ‘.Rnw’ or ‘.Snw’ and to add extension ‘.xml’. Any directory names in file are also removed such that the output is created in the current working directory.
quiet If TRUE all progress messages are suppressed.
debug If TRUE, input and output of all code chunks is copied to the console.
echo set default for option echo, see details below.
eval set default for option eval, see details below.
... optional arguments. This is used to pass the control object to the driver

Supported Options

RweaveOdf supports the following options for code chunks (the values in parentheses show the default values):

echo: logical (TRUE). Include S code in the output file?
eval: logical (TRUE). If FALSE, the code chunk is not evaluated, and hence no text or graphical output produced.
results: character string (verbatim). If verbatim, the output of S commands is included in the verbatim-like Soutput environment. If xml, the output is taken to be already proper XML markup and included as is. If hide, then all output is completely suppressed (but the code executed during the weave).
print: logical (FALSE) If TRUE, each expression in the code chunk is wrapped into a `print()` statement before evaluation, such that the values of all expressions become visible.

term: logical (TRUE). If TRUE, visibility of values emulates an interactive R session: values of assignments are not printed, values of single objects are printed. If FALSE, output comes only from explicit `print` or `cat` statements.

fig: logical (FALSE), indicating whether the code chunk produces graphical output. Note that only one figure per code chunk can be processed this way.

Note that image options, such as the image type and size, are set using `setImageDefs`.

Author(s)

Max Kuhn, based on `RweaveLatex` by Friedrich Leisch

See Also

`Sweave`, `odfWeave`, `setImageDefs`

---

**setStyles**

### Style Definitions and Assignments

**Description**

Utility functions for declaring and setting styles

**Usage**

```r
getStyles()
setStyles(style)
```

```r
getStyleDefs()
setStyleDefs(def)
```

```r
getImageDefs()
setImageDefs(def, verbose = TRUE)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>style</code></td>
<td>a list of style assignments</td>
</tr>
<tr>
<td><code>def</code></td>
<td>a list of style definitions</td>
</tr>
<tr>
<td><code>verbose</code></td>
<td>a logical: should warnings be printed?</td>
</tr>
</tbody>
</table>
Details

There are two main components to specifying output formats: style definitions and style assignments. The definition has the specific components (such as a table cell) and their format values (e.g. boxed with solid black lines). The function getStyleDefs can fetch the pre-existing styles in the package. These can be modified and new definitions can be added. The function setStyleDefs “registers” the style changes with the package. When odfWeave is called, these definitions are written to the style sections of the XML files. See the example below.

There is a second mechanism to assign styles to specific output elements. The functions getStyles and setStyles can be used to tell odfWeave which style definition to use for a particular output.

For example, the input and output elements control how R code and command–line output look. To change either of these, an existing definition can be assigned to these entries and reset using setStyles(currentStyles). Unlike the style definitions, the style assignments can be modified throughout the R code.

For graphics, getImageDefs and setImageDefs can be used to specify the type of plot device and it’s arguments. getImageDefs will return a list with elements

- **type** a character string for the image type (this is also used to set the file extension). Possible values are "png", "jpeg", "bmp", or "eps" (OpenOffice does not accept pdf or svg graphics)
- **device** a character string for the device that should be used to generate the graphics. Some systems may not have png or jpeg devices setup, so capabilities is used to make that determination by default
- **plotHeight** the height for the image file. For "png", "bmp" and "jpeg" devices, this is in pixels, but for others it is in inches
- **plotWidth** similar to plotHeight
- **dispWidth** the height of the image, in inches, as shown in OpenOffice
- **dispHeight** similar to dispHeight Since these functions can be called from within code chunks, graphical parameters can be changes during the Sweave process.

Value

The get functions return named lists.

Author(s)

Max Kuhn

Examples

currentStyleDefs <- getStyleDefs()
currentStyleDefs$ArialNormal$fontSize <- "10pt"
setStyleDefs(currentStyleDefs)
tablestyles  Generate Table Styles

Description

Based on the current style specifications, create style names for all table elements.

Usage

```
tablestyles(x, useRowNames = TRUE, header = NULL, cgroup = NULL, rgroup = NULL)
```

Arguments

- `x`: a vector, matrix or data frame. See details below
- `useRowNames`: a logical: should the row names be printed in the final table
- `header`: an optional vector of heading names
- `cgroup`: an optional data frame of group heading names and spans
- `rgroup`: an optional data frame of group row names and spans

Details

Based on the dimensions of `x`, this function generates table style names for all of the elements. For example, if the data are an nxn matrix, it will create an nxn matrix of style names for the text and the table cells.

The arguments of `tablestyles` must be consistent with those specified for `odfTable`, specifically the `useRowNames` and `header` arguments.

Once the appropriate set of style names are generated, the user can programatically alter it. For example, based on some logic, cells can have different text colors etc.

The document formatting.odt in the package’s examples directory illustrates the process of changing the appearance of the table using `tablestyles`.

Value

A list of style names with elements: `table`, `text`, `cell`, `header`, `headerCell`, `cgroupText`, `cgroupCell`, `rgroupText` and `rgroupCell`. The `text` and `cell` entries are for the non-header table elements.

Author(s)

Max Kuhn

See Also

- `odfTable`
Examples

irisStyles <- tableStyles(iris, useRowNames = TRUE, header = names(iris))
irisStyles$text[2,3] <- "ttRed"
odfTable(iris, useRowNames = TRUE, styles = irisStyles)
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