Package: orgutils (via r-universe)

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Type Package

Title Helper Functions for Org Files

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Description Helper functions for Org files (<https://orgmode.org/>): a generic function 'toOrg' for transforming R objects into Org markup (most useful for data frames; there are also methods for Dates/POSIXt) and a function to read Org tables into data frames.

License GPL (>=2)

Imports textutils

Suggests RUnit, tinytest

URL http://enricoschumann.net/R/packages/orgutils/

Repository https://enricoschumann.r-universe.dev

RemoteUrl https://github.com/enricoschumann/orgutils

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orgutils-package *Org Utils*

Description

Helper functions to interact with Org files: read Org tables, convert R objects to Org markup.

Details

Org mode is a major mode for Emacs; see https://orgmode.org/manual/Summary.html#Summary for a summary of what it does.

The **orgutils** package provides helper functions for interacting with Org files (reading Org tables, convert R objects to Org markup) without Emacs. Since Org syntax is very human-readable, such conversions are useful also, for instance, in plain-text emails or reports.

There are several other packages that help you work with Org files as well, such as **orgR** or **ascii**.

Author(s)

Enrico Schumann <es@enricoschumann.net>

References

Org mode manual https://orgmode.org/

See Also

toOrg, readOrg

readOrg *Read Org Tables*

Description

Read an Org table from a file.

Usage

```
readOrg(file, header = TRUE, dec = ".", comment.char = "",
        encoding = "", strip.white = TRUE,
        stringsAsFactors = FALSE,
        table.name = NULL, text,
        table.missing = NULL, ...)
```

Arguments

file	character
header	logical
dec	character
comment.char	character
encoding	the encoding of the file
strip.white	logical
stringsAsFactors	logical: note that the default FALSE differs from read.csv
table.name	character: the name of the table to read (a regular expression)
text	character: if file is not supplied, text is read via textConnection
table.missing	what to do if a table specified by table.name is not found. Default is to return NULL. Set to string "stop" to throw an error.
...	further arguments

Details

When header is TRUE, readOrg will read the first 10 lines of the file (or the table, when table.name is specified) and try to find an org table header. Formating instructions such as <5> are discarded. Then the function uses read.csv to read the remainder of the file/table.

When table.name is specified, the function looks for a line that starts with #+NAME: <table.name> and reads the table that follows that line.

For empty files, readOrg behaves like read.csv: when completely empty, it fails; when headers are found, a zero-row data.frame is returned.

Value

A data.frame.

Author(s)

Enrico Schumann

References

Org manual https://orgmode.org/manual/index.html

See Also

read.csv

Examples

```
## Not run:
## create an Org file with a table and read the table
tmp <-
"#+TITLE: A Table

Next comes a table.

#+name: test_table
| a | b |
|---+---|
| 1 | 2 |
| 3 | 4 |

That was a table.
"

fname <- tempfile("testfile", fileext = ".org")
writeLines(tmp, fname)

require("org")
readOrg(fname, table.name = "test_table")

## End(Not run)
```

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toOrg *Generate Org-mode Markup*

Description

Transform R objects into Org-mode objects.

Usage

```
toOrg(x, ...)

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

## S3 method for class 'data.frame'
toOrg(x, row.names = NULL, ...)

## S3 method for class 'Date'
toOrg(x, inactive = FALSE, ...)

## S3 method for class 'POSIXt'
toOrg(x, inactive = FALSE, ...)
```

Arguments

x	an object
row.names	NULL, logical or character. If TRUE, row.names of x are added as the first column, with column name "row.names". If a character string, the string is used as the column name. See Examples. If NULL, row.names are added when they are not 1, 2, ... (i.e. row numbers). If FALSE, row.names are not added.
inactive	logical: use inactive timestamps? See http://orgmode.org/manual/Creating-timestamps.html .
...	other arguments

Details

Transforms an object x into character vectors with Org markup. Most useful when x is a data.frame.

toOrg is meant for snippets of code, not for producing whole Org documents.

When you work with POSIXt, make sure that a potential timezone does not cause trouble: Org does not support timezones.

Value

A character vector, usually with class org. In some cases, class character is additionally attached.

To save it to a file, use writeLines.

Author(s)

Enrico Schumann

References

Org mode manual https://orgmode.org/manual/index.html

See Also

toLatex, function as.orgtable in **microplot**

Examples

```
toOrg(data.frame(a = 1:3, row.names = LETTERS[1:3]))
## =>  | row.names | a |
##     |-----------+---|
##     | A         | 1 |
##     | B         | 2 |
##     | C         | 3 |

toOrg(data.frame(a = 1:3))
## =>  | a |
##     |---|
##     | 1 |
```

```
##     | 2 |
##     | 3 |

toOrg(data.frame(a = 1:3), row.names = TRUE)
## =>  | row.names | a |
##     |-----------+---|
##     | 1         | 1 |
##     | 2         | 2 |
##     | 3         | 3 |


toOrg(data.frame(a = 1:5), row.names = "row numbers")
## =>  | row numbers | a |
##     |-------------+---|
##     | 1           | 1 |
##     | 2           | 2 |
##     | 3           | 3 |
##     | 4           | 4 |
##     | 5           | 5 |

## Not run:
writeLines(toOrg(data.frame(a = 1:3)), "~/Desktop/my_table.org")
## End(Not run)

## Dates/Times
toOrg(as.Date("2015-01-01"))                   ## <2015-01-01 Thu>
toOrg(as.Date("2015-01-01"), inactive = TRUE)  ## [2015-01-01 Thu]
toOrg(Sys.time())                              ## <2017-03-20 Mon 13:23:18>

## Convert Org dates to Date

## see ?strptime: Each input string is processed as far as
##                necessary for the format specified: any
##                trailing characters are ignored.
d <- toOrg(as.Date("2015-01-01"))
as.Date(d, "<%Y-%m-%d")
```

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