

Package ‘readODS’

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Type Package

Title Read and Write ODS Files

Version 1.8.0

Description Read ODS (OpenDocument Spreadsheet) into R as data frame. Also support writing data frame into ODS file.

URL <https://github.com/ropensci/readODS>

BugReports <https://github.com/ropensci/readODS/issues>

Imports xml2 (>= 1.3.2), cellranger, readr (>= 1.2.1), stringi, utils, purrr

Suggests dplyr, testthat, datasets, covr, knitr, rmarkdown

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RoxygenNote 7.2.1

Encoding UTF-8

VignetteBuilder knitr

Depends R (>= 2.10)

NeedsCompilation no

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get_num_sheets_in_ods *Get the Number of Sheets in an ODS File*

Description

Get the number of sheets in an ods file

Usage

get_num_sheets_in_ods(path)

getNrOfSheetsInODS(path)

Arguments

path path to the ods file

Value

Number of sheets

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See Also

use [read_ods](#) to read the data

list_ods_sheets	<i>List All Sheets in an ODS File</i>
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Description

List all sheets in an ods file.

Usage

```
list_ods_sheets(path)
```

```
ods_sheets(path)
```

Arguments

path	Path to the ods file
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Value

A character vector of sheet names.

read_ods	<i>Read Data From ODS File</i>
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Description

read_ods is a function to read a single sheet from an ods file and return a data frame. read.ods always returns a list of data frames with one data frame per sheet. This is a wrapper to read_ods for backward compatibility with previous version of readODS. Please use read_ods if possible.

Usage

```
read_ods(  
  path,  
  sheet = 1,  
  col_names = TRUE,  
  col_types = NULL,  
  na = "",  
  skip = 0,  
  formula_as_formula = FALSE,  
  range = NULL,  
  row_names = FALSE,  
  strings_as_factors = FALSE,  
  check_names = FALSE,  
  verbose = FALSE  
)
```

```
read.ods(file = NULL, sheet = NULL, formulaAsFormula = FALSE)
```

Arguments

path	path to the ods file.
sheet	sheet to read. Either a string (the sheet name), or an integer sheet number. The default is 1.
col_names	logical, indicating whether the file contains the names of the variables as its first line. Default is TRUE.
col_types	Either NULL to guess from the spreadsheet or refer to <code>readr::type_convert()</code> to specify cols specification. NA will return a data frame with all columns being "characters".
na	Character vector of strings to use for missing values. By default read_ods converts blank cells to missing data. It can also be set to NULL, so that empty cells are treated as NA.
skip	the number of lines of the data file to skip before beginning to read data. If this parameter is larger than the total number of lines in the ods file, an empty data frame is returned.
formula_as_formula	logical, a switch to display formulas as formulas "SUM(A1:A3)" or as the resulting value "3"... or "8".. Default is FALSE.
range	selection of rectangle using Excel-like cell range, such as range = "D12:F15" or range = "R1C12:R6C15". Cell range processing is handled by the <code>cellranger</code> package.
row_names	logical, indicating whether the file contains the names of the rows as its first column. Default is FALSE.
strings_as_factors	logical, if character columns to be converted to factors. Default is FALSE.
check_names	logical, passed down to <code>base::data.frame()</code> . Default is FALSE.
verbose	logical, if messages should be displayed. Default is FALSE.
file	for read.ods only, path to the ods file.
formulaAsFormula	for read.ods only, a switch to display formulas as formulas "SUM(A1:A3)" or as the resulting value "3"... or "8"..

Value

A data frame (`data.frame`) containing a representation of data in the ods file.

Note

Currently, ods files that linked to external data source cannot be read. Merged cells cannot be parsed correctly.

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Examples

```
## Not run:
# Read a file
read_ods("starwars.ods")
# Read a specific sheet, e.g. the 2nd sheet
read_ods("starwars.ods", sheet = 2)
# Read a specific range, e.g. A1:C11
read_ods("starwars.ods", sheet = 2, range = "A1:C11")

## End(Not run)
```

write_ods

Write Data to ODS File

Description

Function to write a single data.frame to an ods file.

Usage

```
write_ods(
  x,
  path,
  sheet = "Sheet1",
  append = FALSE,
  update = FALSE,
  row_names = FALSE,
  col_names = TRUE,
  verbose = FALSE,
  overwrite = NULL
)
```

Arguments

x	a data.frame
path	Path to the ods file to write
sheet	Name of the sheet
append	logical, TRUE indicates that x should be appended to the existing file (path) as a new sheet. If a sheet with the same sheet_name exists, an exception is thrown. See update. Please also note that writing is slower if TRUE. Default is FALSE.
update	logical, TRUE indicates that the sheet with sheet_name in the existing file (path) should be updated with the content of x. If a sheet with sheet_name does not exist, an exception is thrown. Please also note that writing is slower if TRUE. Default is FALSE.
row_names	logical, TRUE indicates that row names of x are to be included in the sheet. Default is FALSE.

col_names	logical, TRUE indicates that column names of x are to be included in the sheet. Default is FALSE.
verbose	logical, if messages should be displayed. Default is FALSE.
overwrite	logical, deprecated.

Value

An ODS file written to the file path location specified by the user. The value of path is also returned invisibly.

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Examples

```
## Not run:  
# preserve the row names  
write_ods(mtcars, "mtcars.ods", row_names = TRUE)  
# append a sheet to an existing file  
write_ods(PlantGrowth, "mtcars.ods", append = TRUE, sheet = "plant")  
  
## End(Not run)
```

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