Package 'pzfx'

October 14, 2022

Type Package

Title Read and Write 'GraphPad Prism' Files

Version 0.3.0

Description Read and write 'GraphPad Prism' '.pzfx' files in R.

URL <https://github.com/Yue-Jiang/pzfx>

BugReports <https://github.com/Yue-Jiang/pzfx/issues>

Imports xml2 (>= 1.2.0)

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Suggests testthat, knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Author Yue Jiang [aut, cre] (<<https://orcid.org/0000-0002-9798-5517>>)

Maintainer Yue Jiang <rivehill@gmail.com>

Repository CRAN

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R topics documented:

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pzfx_tables   *List all tables in a 'GraphPad Prism' '.pzfx' file.*

Description

List all tables in a 'GraphPad Prism' '.pzfx' file.

Usage

```
pzfx_tables(path)
```

Arguments

path   Path to the '.pzfx' file

Value

a character string vector

Examples

```
pzfx_file <- system.file("extdata/exponential_decay.pzfx", package = "pzfx", mustWork = TRUE)
pzfx_tables(pzfx_file)
```

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read_pzfx   *Read one table from a 'GraphPad Prism' '.pzfx' file*

Description

Read one table from a 'GraphPad Prism' '.pzfx' file

Usage

```
read_pzfx(path, table = 1, strike_action = "exclude", date_x = "character")
```

Arguments

path	Path to the '.pzfx' file.
table	Table to read. Either a string (the name of a table), or an integer (the position of the table). If neither argument specifies the table, defaults to the first table.
strike_action	One of c("exclude", "keep", "star") or c("e", "k", "s"). Should stricken values in the original .pzfx be excluded, kept or labeled with a trailing "*". If a trailing "*" is added, the column will be of type character.
date_x	One of c("numeric", "character", "both") or c("n", "c", "b"). Should x column of format "Date" be handled as numeric (time elapsed from the first time point), character (the date string encoded by Prism, for example "8-Sep-2008"), or both (leading to two columns).

Value

a data frame

Examples

```
pzfx_file <- system.file("extdata/exponential_decay.pzfx", package = "pzfx", mustWork = TRUE)
read_pzfx(pzfx_file, table = 1, strike_action="exclude", date_x="character")
```

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write_pzfx	*Write one table or multiple tables to a 'GraphPad Prism' '.pzfx' file*

Description

Write one table or multiple tables to a 'GraphPad Prism' '.pzfx' file. A table can be a 'matrix', a 'data.frame', or a 'tibble'. All elements of the table should be numeric.

Usage

```
write_pzfx(x, path, row_names = TRUE, x_col = NA)
```

Arguments

x	Input table or named list of tables that will be 'Data Tables' in the '.pzfx' file
path	Path to the output '.pzfx' file.
row_names	Logical. If row names of the input table should be preserved and become row titles in the output '.pzfx' file. If the length is greater than 1, it must match the length of list of input tables. Default: TRUE.
x_col	1-based column index or name of the column to be used as the 'X' column. If the length is greater than 1, it must match the length of list of input tables. All other columns in the input tables will be treated as "Y" columns in the output '.pzfx' file. Default: NA

Value

write_pzfx returns the input x invisibly.

Examples

```
pzfx_file <- system.file("extdata/exponential_decay.pzfx", package = "pzfx", mustWork = TRUE)
df <- read_pzfx(pzfx_file, table = 1, strike_action = "exclude")
write_pzfx(df, path = tempfile(fileext = ".pzfx"), row_names = TRUE)
```

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