

Package: pzfx (via r-universe)

September 12, 2024

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

Repository <https://yue-jiang.r-universe.dev>

RemoteUrl <https://github.com/yue-jiang/pzfx>

RemoteRef HEAD

RemoteSha c50b8a8c945a5990e3fa9c60ec9e4271c72b40ed

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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)
```

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")
```

write_pzfx	<i>Write one table or multiple tables to a 'GraphPad Prism' '.pzfx' file</i>
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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, n_digits = 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
n_digits	An integer specifying the number of digits to display for float values in the generated '.pzfx' file. This argument has no effect if data is of type 'integer'. Note this argument only affects how many digits are displayed. The actual data does not change.

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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