

Package ‘pzfx’

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Type Package

Title Read and Write 'GraphPad Prism' Files

Version 0.3.1

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

RoxygenNote 7.3.3

Suggests testthat, knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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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

Write one or more tables to a GraphPad Prism .pzfx file

Description

All parameters except path and notes can be of length 1, or the length of the list of input tables.

Usage

```
write_pzfx(
  x,
  path,
  row_names = TRUE,
  x_col = NA,
  x_err = NA,
  n_digits = 2,
  notes = NA,
  subcolumns = 1,
  subcolumn_suffix = ""
)
```

Arguments

x	Data frame or named list of data frames to include as Prism tables.
path	Path to output file.
row_names	Logical or logical vector: include row names as row titles?
x_col	Column index or name(s) for X column (0 or NA for none).
x_err	Column index or name(s) for X error (0 or NA for none).
n_digits	Number of decimal places to display for numeric data. Default: 2.
notes	Notes table(s) with columns Name and Value. Default: NA (empty notes).
subcolumns	Number of subcolumns for Y data, or "SDN" for mean/SD/N format. Default: 1.
subcolumn_suffix	Regex or string identifying grouped subcolumns (e.g., "[0-9]+\$" to group A_1, A_2 as column A). Default: "" (no grouping).

Value

Invisibly returns 'x'.

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