Package 'rxylib'

June 29, 2017

Type Package

Title Import XY-Data into R

Description Provides access to the 'xylib' C library for to import xy
data from powder diffraction, spectroscopy and other experimental methods.

Version 0.1.0

Date 2017-06-28

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URL https://github.com/R-Lum/rxylib

BugReports https://github.com/R-Lum/rxylib/issues

License GPL-3 | LGPL-2.1

Depends R (>= 3.4.0), utils

Imports Rcpp (>= 0.12.11), stringr (>= 1.2.0), httr (>= 1.2.1)

Suggests testthat (>= 1.0.2)

LinkingTo Rcpp (>= 0.12.11), BH (>= 1.62.0-1)

Encoding UTF-8

Collate 'rxylib.R' 'RcppExports.R' 'read_xyData.R'

RoxygenNote 6.0.1

NeedsCompilation yes

R topics documented:

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rxylib-package   *Import XY-Data into R*

Description

Provides access to the 'xylib' C library for to import xy data from powder diffraction, spectroscopy and other experimental methods.

Package:	rxylib
Type:	Package
Version:	0.1.0
Date:	2017-06-30
License:	GPL-3

Details

Currently the package uses 'xylib' version 1.6 (unreleased).

Supported data formats

ID	NAME	DESCRIPTION	FILE EXTENSION
[1,]	cpi	Sietronics Sieray CPI	cpi
[2,]	uxd	Bruker Diffrac-AT UXD	uxd
[3,]	rigaku_dat	Rigaku DAT	dat
[4,]	bruker_raw	Siemens/Bruker RAW	raw
[5,]	vamas	VAMAS ISO-14976	vms
[6,]	philips_udf	Philips UDF	udf
[7,]	spe	PI WinSpec SPE	spe
[8,]	pdcif	Powder Diffraction CIF	cif
[9,]	philips_rd	Philips PC-APD RD/SD	rd sd
[10,]	xrdml	PANalytical XRDML	xrdml
[11,]	canberra_mca	Canberra MCA	mca dat
[12,]	canberra_cnf	Canberra CNF	cnf
[13,]	xfit_xdd	XFIT XDD	xdd
[14,]	riet7	RIET7/LHPM/PSI_DMC	dat
[15,]	dbws	DBWS data	dbw rit neu
[16,]	chiplot	ChiPLOT data	chi
[17,]	spectra	Spectra / VGX 900	1 2 3 4 5 6 7 8 9
[18,]	specsxy	SPECS SpecsLab2 xy	xy
[19,]	csv	CSV or TSV	csv tsv tab

Author(s)

Sebastian Kreutzer, IRAMAT-CRP2A, Universite Bordeaux Montaigne (France), Marcin Wojdyr (maintainer and author library 'xylib'), Peng Zhang (author library 'xylib')

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read_xyData *Import xy-Data for Supported Formats into R*

Description

The function provides an access to the underlying xylib to import data for supported file formats into R

Usage

```
read_xyData(file, verbose = TRUE)
```

Arguments

file	character (**required**): path and file to be imported. The argument accepts an URL.
verbose	logical (*with default*): enables/disables verbose mode

Function version

0.1.0

Author(s)

Sebastian Kreutzer, IRAMAT-CRP2A, Universite Bordeaux Montaigne (France)

Examples

```
## still missing
```

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