

# Package ‘rxylib’

June 28, 2017

**Type** Package

**Title** Import XY-Data into R

**Version** 0.1.0

**Date** 2017-06-28

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

**License** GPL-3

**Depends** R (>= 3.4.0)

**Imports** Rcpp (>= 0.12.11), stringr (>= 1.2.0)

**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

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rxylib-package	<i>Import XY-Data into R</i>
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## Description

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

## Details

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

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read\_xyData

*Import xy-Data for Supported Formats into R*

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**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)**: file to be imported  
 verbose                **logical (with default)**: enables/disables verbose mode

**Function version**

0.1.0

**Author(s)**

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

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### **Examples**

```
## still missing
```

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