

Package ‘Ropj’

March 14, 2019

Type Package

Title Import Origin(R) Project Files

Version 0.2-2

Date 2019-03-14

Description Read the data from Origin(R) project files (*.opj)
<<https://www.originlab.com/doc/User-Guide/Origin-File-Types>>.
No write support is planned. More object types may be available
to be imported later.

License GPL (>= 3)

Imports Rcpp (>= 0.12.9)

LinkingTo Rcpp

URL <https://github.com/aitap/Ropj>

BugReports <https://github.com/aitap/Ropj/issues>

NeedsCompilation yes

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Ropj-package	<i>Import Origin(R) Project Files</i>
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Description

Read the data from Origin(R) project files (*.opj') <<https://www.originlab.com/doc/User-Guide/Origin-File-Types>>. No write support is planned. More object types may be available to be imported later.

Details

The DESCRIPTION file:

```
Package:      Ropj
Type:         Package
Title:        Import Origin(R) Project Files
Version:      0.2-2
Date:         2019-03-14
Authors@R:    c(person('Miquel', 'Garriga', email = 'gbmiquel@gmail.com', role = c('aut', 'cph')), person('Stefan', 'Gerlach', email = 'stefan.gerlach@originlab.com', role = c('aut', 'cph')), person('Ion', 'Vasilief', email = 'ion.vasilief@originlab.com', role = c('aut', 'cph')), person('Alex', 'Kargovsky', email = 'alex.kargovsky@originlab.com', role = c('aut', 'cph')), person('Knut', 'Foss', email = 'knut.foss@originlab.com', role = c('aut', 'cph'))
Description:  Read the data from Origin(R) project files (*.opj') <https://www.originlab.com/doc/User-Guide/Origin-File-Types>
License:      GPL (>= 3)
Imports:      Rcpp (>= 0.12.9)
LinkingTo:    Rcpp
URL:          https://github.com/aitap/Ropj
BugReports:   https://github.com/aitap/Ropj/issues
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Maintainer:   Ivan Krylov <krylov.r00t@gmail.com>
```

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```
Ropj-package      Import Origin(R) Project Files
read.opj          Parse Origin(R) project file into a list of
                  objects
```

This package exports a single function, `read.opj`, that tries to read an OPJ file and return a list of objects that it consists of.

No write support seems to be planned in the foreseeable future.

Author(s)

NA

Maintainer: NA

References

<https://sourceforge.net/projects/liborigin/>: the liborigin implementation used by this package. Seems to be maintained as of 2019.

Examples

```
## Not run: x <- read.opj('data.opj')
```

read.opj	<i>Parse Origin(R) project file into a list of objects</i>
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Description

This function parses an OPJ file into a list of objects it consists of. For now, only spreadsheets are returned as `data.frames`.

Usage

```
read.opj(file, encoding = 'latin1')
```

Arguments

file	Path to the OPJ file to parse. Only file paths are supported, not R connections.
encoding	Encoding of the strings inside the file being opened. The default of 'latin1' is usually right and safe to use. See <code>iconvlist()</code> for the full list of encodings supported by your R installation. This should correspond to the ANSI code page of Windows installation used to produce the file.

Value

A named `list` containing objects stored in the file.

- Spreadsheets are presented as `data.frames`, each having additional `attributes`:
 - `comments` contains the fields Long name, Units, and Comment, joined by `\r\n`, if present. Due to a possible bug in `liborigin`, these values are sometimes followed by `@` and some text that wasn't present in the original document.
 - `commands` contains the formula that was used to create the values of the column (e.g. `col(A) * 2 + 1`).
- Multi-sheet spreadsheets are stored as named lists of `data.frames` described above.
- Matrices are presented as `lists` of `matrix` objects containing numeric data. `dimnames` are also assigned. The list also has attributes:
 - `commands` contains the formula that was used to compute the values in the matrix.
- Notes are stored as plain strings.

The list also has attributes set:

- `comment` contains the long names of the objects stored in the file.

Examples

```
x <- read.opj(system.file('test.opj', package = 'Ropj'))
head(x$Book2, 7)
attr(x$Book2, 'comments')
attr(x$Book2, 'commands')
with(x$Book1, head(Sheet2 - Sheet1))
x$MBook1$MSheet1[1:4,1:4]
x$Note1

## Not run:
# encoding names aren't guaranteed to be supported across all platforms
x <- read.opj(system.file('test.opj', package = 'Ropj'), 'WINDOWS-1251')
x$cyrillic

## End(Not run)
```

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