Package 'flobr'

October 27, 2021

Title Convert Files to and from Binary Objects (BLOBs)

Version 0.2.2

Description Converts files to and from flobs. A flob is a file that was
read into binary in integer-mode as little endian, saved as the single
element of a named list (where the name is the name of the original
file) and then serialized before being coerced into a blob. Flobs are
useful for writing and reading files to and from databases.

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URL https://github.com/poissonconsulting/flobr

BugReports https://github.com/poissonconsulting/flobr/issues

Depends R (>= 3.5)

Imports blob,
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lifecycle,
tools

Suggests covr,
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testthat

RdMacros lifecycle

Encoding UTF-8

Language en-US

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.2

R topics documented:

1

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chk_flob   *Check flob*

Description

Checks whether an object is a [flob()](#).

Usage

```
chk_flob(x, old = FALSE, x_name = NULL)
```

Arguments

x	The object to check.
old	A flag indicating whether old flobs are permitted.
x_name	A string of the name of object x or NULL.

Value

NULL, invisibly. Called for the side effect of throwing an error if the condition is not met.

See Also

[flobr()](#) and [chk_flob()](#).

Examples

```
chk_flob(flobr::flob_obj)
```

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chk_slob   *Check slob*

Description

Checks whether an object is a slob (serialized blob).

Usage

```
chk_slob(x, x_name = NULL)
```

Arguments

x	The object to check.
x_name	A string of the name of object x or NULL.

Value

NULL, invisibly. Called for the side effect of throwing an error if the condition is not met.

See Also

flobr() and chk_slob().

Examples

```
chk_slob(flobr:::slob_obj)
```

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flob   *Flob File*

Description

Converts a file into a flob. Flobs are useful for saving files in databases.

Usage

```
flob(path, name = "")
```

Arguments

path	A string of the path to the file.
name	A string of the name (without the extension) for the flob. If "" (the default) then the original file name is used.

Details

A flob is a file that was read into binary in integer-mode as little endian, saved as the single element of a named list (where the name is the extension of the original file) and then serialized before being coerced into a blob.

Value

A named flob of the file.

See Also

flobr()

Examples

```
path <- system.file("extdata", "flobr.pdf", package = "flobr")
flob <- flob(path)
flob
```

---

flob_ext   *Flob Extension*

Description

Flob Extension

Usage

```
flob_ext(flob)
```

Arguments

flob   A [flob()](flob)

Value

A string of the extension of the original file.

See Also

[flobr()](flobr) and [flob_name()](flob_name).

Examples

```
flob_ext(flob_obj)
```

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flob_name   *Flob Name*

Description

Gets a character vector of the name of the file (without the extension). If the flob does not have a file name it returns "file".

Usage

```
flob_name(flob)
```

Arguments

flob   A [flob()](flob)

Value

A character vector of the name of the file (without the extension).

See Also

[flobr()](flobr) and [flob_ext()](flob_ext).

Examples

```
flob_name(flob_obj)
```

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flob_obj	*A flob Object*

Description

A [flob()](#) of `'inst/extdata/flobr.pdf'`.

Usage

```
flob_obj
```

Format

An object of class flob (inherits from `blob`) of length 1.

Examples

```
flob_obj
```

---

is_flob	*Is flob*

Description

Is flob

Usage

```
is_flob(x)
```

Arguments

x	An object to test

Value

A flag indicating whether x inherits from [flob()](#).

See Also

[flobr()](#)

Examples

```
is_flob(flob_obj)
```

---

unflob *Unflob to File*

Description

Converts a [flob()](#) back to its original file format.

Usage

```
unflob(flob, dir = ".", name = "", ext = "", slob = FALSE, check = TRUE)
```

Arguments

flob	The [flob()](#) to save to file.
dir	A string of the path to the directory to save the file in.
name	A string of the name (without the extension) for the file. If "" (the default) then the original file name is used.
ext	A string of the extension for the file. If "" (the default) then the original extension is used.
slob	A logical scalar specifying whether to process slobs (serialized blobs) instead of flobs. If NA, either will be accepted, but slobs require that ext and name be provided.
check	A flag indicating whether to run comprehensive checks on user input.

Details

If path ends with a file separator then the name and extension of the flob is added. If the flob is an older flob that was not saved with a name then it is named 'file'.

If path ends with a file name without an extension then the extension of the flob is automatically added. Alternatively if path also includes an extension then it must match the flob's extension.

Value

An invisible string of the path to the saved file.

Examples

```
unflob(flob_obj, tempdir())
```

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vld_flob *Validate flob Object*

Description

Validates a flob() object.

Usage

```
vld_flob(x, old = FALSE)
```

Arguments

x	The object to check.
old	A flag indicating whether old flobs are permitted.

Value

A flag indicating whether the object passed the test.

See Also

chk_flob()

Examples

```
vld_flob(flobr::flob_obj)
vld_flob(1)
```

Index