

Package 'wand'

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Type Package

Title Retrieve 'Magic' Attributes from Files and Directories

Version 0.2.0

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Description The 'libmagic' library provides functions to determine 'MIME' type and other metadata from files through their ``magic'' attributes. This is useful when you do not wish to rely solely on the honesty of a user or the extension on a file name. It also incorporates other metadata from the mime-db database <<https://github.com/jshttp/mime-db>>.

URL <http://github.com/hrbrmstr/wand>

BugReports <https://github.com/hrbrmstr/wand/issues>

NeedsCompilation yes

LazyData true

SystemRequirements libmagic (>= 5.14) for Unix/Linux/macOS; Rtools
3.3+ for Windows

License AGPL

Suggests testthat

Depends R (>= 3.2.0)

Imports dplyr, purrr, rappdirs, stats, stringi, tibble, tidyr, utils,
Rcpp

Encoding UTF-8

LinkingTo Rcpp

RoxygenNote 5.0.1

Repository CRAN

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get_os	<i>ripped from rappdirs (ty Hadley!)</i>
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Description

ripped from rappdirs (ty Hadley!)

Usage

```
get_os()
```

incant	<i>Retrieve 'magic' attributes from files and directories</i>
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Description

Retrieve 'magic' attributes from files and directories

Usage

```
incant(path, magic_db = "system")
```

Arguments

path	character vector of files to use magic on
magic_db	either "system" (the default) to use the system magic database or an atomic character vector with a colon-separated list of full paths to custom magic database(s). This parameter is (for the moment) ignored on Windows.

Value

a tibble / data.frame of file magic attributes. Specifically, mime type, encoding, possible file extensions and type description are returned as columns in the data frame along with path.

Note

Various fields might not be available depending on the version of libmagic you have installed.

References

See <http://openpreservation.org/blog/2012/08/09/magic-editing-and-creation-primer/> for information on how to create your own magic database

Examples

```
library(dplyr)

system.file("extdata/img", package="wand") %>%
  list.files(full.names=TRUE) %>%
  incant() %>%
  glimpse()
```

magic_wand_file	<i>Use the "magic" file that comes with the package</i>
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Description

The `magic_load()` function from `libmagic` can't take ZIP files and the `magic.mgc` file that ships with the package is too large to be shipped uncompressed. Using this function as the `magic_db` parameter will copy and uncompress the database to a cache directory and return the full path to the magic file. Subsequent calls will not have to perform the decompression unless `force` is `TRUE` or the cache directory has been cleared.

Usage

```
magic_wand_file(refresh = FALSE)
```

Arguments

`refresh` ensure the latest copy of the package "magic" database is used.

Note

'magic' files are highly coupled with the version of the file utility they were built with. This function is provided solely for the off chance that a macOS or Linux/UNIX system's `libmagic` library was not configured properly and cannot find the system 'magic' file.

Examples

```
library(dplyr)

system.file("extdata/img", package="wand") %>%
  list.files(full.names=TRUE) %>%
  incant(magic_wand_file()) %>%
  glimpse()
```

mime_db

MIME Types Database

Description

This is a dataset of all mime types. It aggregates data from the following sources:

- <http://www.iana.org/assignments/media-types/media-types.xhtml>
- <http://svn.apache.org/repos/asf/httpd/httpd/trunk/docs/conf/mime.types>
- <http://hg.nginx.org/nginx/raw-file/default/conf/mime.types>

There are a total of four possible fields per element:

- source: where the mime type is defined. If not set, it's probably a custom media type. One of apache, iana or nginx.
- extensions: a character vector of known extensions associated with this mime type.
- compressible: whether a file of this type can be "gzipped" (mostly useful in the context of serving up web content).
- charset: the default charset associated with this type, if any.

Usage

```
data(mime_db)
```

Format

A list with 1,883 elements and four named fields: source, compressible, extensions & charset.

Note

Last updated 2016-08-14; the only guaranteed field is source

References

Ingested from <https://github.com/jshttp/mime-db>.

wand

Retrieve 'Magic' Attributes from Files and Directories

Description

The 'libmagic' library provides functions to determine 'MIME' type and other metadata from files through their "magic" attributes. This is useful when you do not wish to rely solely on the honesty of a user or the extension on a file name. It also incorporates other metadata from the mime-db database <<https://github.com/jshttp/mime-db>>

Details

Based on file / libmagic - <https://github.com/file/file>

Author(s)

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