

Package ‘exifr’

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Type Package

Title EXIF Image Data in R

Version 0.3.1

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Description Reads EXIF data using ExifTool <<http://www.sno.phy.queensu.ca/~phil/exiftool/>> and returns results as a data frame.

ExifTool is a platform-independent Perl library plus a command-line application for reading, writing and editing meta information in a wide variety of files. ExifTool supports many different metadata formats including EXIF, GPS, IPTC, XMP, JFIF, GeoTIFF, ICC Profile, Photoshop IRB, FlashPix, AFCP and ID3, as well as the maker notes of many digital cameras by Canon, Casio, FLIR, FujiFilm, GE, HP, JVC/Victor, Kodak, Leaf, Minolta/Konica-Minolta, Motorola, Nikon, Nintendo, Olympus/Epson, Panasonic/Leica, Pentax/Asahi, Phase One, Reconyx, Ricoh, Samsung, Sanyo, Sigma/Foveon and Sony.

License GPL-2

LazyData TRUE

Imports curl, plyr, tibble, jsonlite, utils, rappdirs

SystemRequirements Perl

URL <https://github.com/paleolimbot/exifr>

BugReports <https://github.com/paleolimbot/exifr/issues>

RoxygenNote 6.0.1

Suggests testthat, covr

NeedsCompilation no

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configure_exiftool	<i>Configure perl, ExifTool</i>
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Description

Configure perl, ExifTool

Usage

```
configure_exiftool(command = NULL, perl_path = NULL, install_url = NULL,
  install_location = NULL, quiet = FALSE)
```

```
configure_perl(perl_path = NULL, quiet = FALSE)
```

```
configure_exiftool_reset()
```

Arguments

command	The exiftool command or location of exiftool.pl
perl_path	The path to the perl executable
install_url	The url from which exiftool could be installed
install_location	The location to install exiftool
quiet	Use quiet = FALSE to display status updates

Value

The exiftool command, invisibly

exiftool_call	<i>Call exiftool from R</i>
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Description

Uses `system()` to run a basic call to `exiftool`.

Usage

```
exiftool_call(args = NULL, fnames = NULL, intern = FALSE, ...,
              quiet = FALSE)
```

```
exiftool_version()
```

```
exiftool_command(args = character(0), fnames = character(0))
```

Arguments

<code>args</code>	a list of non-shell quoted arguments (e.g. <code>-n -csv</code>)
<code>fnames</code>	a list of filenames (<code>shQuote()</code> will be applied to this vector)
<code>intern</code>	TRUE if output should be returned as a character vector.
<code>...</code>	additional arguments to be passed to system2
<code>quiet</code>	Suppress output of the command itself.

Value

The exit code if `intern=FALSE`, or the standard output as a character vector if `intern=TRUE`.

Examples

```
exiftool_call()
exiftool_version()
```

read_exif	<i>Read EXIF data from files</i>
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Description

Reads EXIF data into a `data.frame` by calling the `ExifTool` command-line application, written by Phil Harvey. Depending on number of images and command-line length requirements, the command may be called multiple times.

Usage

```
read_exif(path, tags = NULL, recursive = FALSE, args = NULL,
          quiet = TRUE)
```

Arguments

path	A vector of filenames
tags	A vector of tags to output. It is a good idea to specify this when reading large numbers of files, as it decreases the output overhead significantly. Spaces will be stripped in the output data frame. This parameter is not case-sensitive.
recursive	TRUE to pass the "-r" option to ExifTool
args	Additional arguments
quiet	Use FALSE to display diagnostic information

Details

From the [ExifTool website](#): ExifTool is a platform-independent Perl library plus a command-line application for reading, writing and editing meta information in a wide variety of files. ExifTool supports many different metadata formats including EXIF, GPS, IPTC, XMP, JFIF, GeoTIFF, ICC Profile, Photoshop IRB, FlashPix, AFCP and ID3, as well as the maker notes of many digital cameras by Canon, Casio, FLIR, FujiFilm, GE, HP, JVC/Victor, Kodak, Leaf, Minolta/Konica-Minolta, Motorola, Nikon, Nintendo, Olympus/Epson, Panasonic/Leica, Pentax/Asahi, Phase One, Reconyx, Ricoh, Samsung, Sanyo, Sigma/Foveon and Sony. For more information, see the [ExifTool website](#).

Note that binary tags such as thumbnails are loaded as base64-encoded strings that start with "base64:".

Value

A data frame (tibble) with columns SourceFile and one per tag read in each file. The number of rows may differ, particularly if recursive is set to TRUE, but in general will be one per file.

Examples

```
files <- list.files(path.package("exifr"), recursive=TRUE, pattern="*.jpg", full.names=TRUE)
exifinfo <- read_exif(files)
# is equivalent to
exifinfo <- read_exif(path.package("exifr"), recursive=TRUE)

read_exif(files, tags=c("filename", "imagesize"))
```

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