Package ‘exifr’  
March 20, 2021

Type   Package
Title  EXIF Image Data in R
Version 0.3.2
Maintainer Dewey Dunnington <dewey@fishandwhistle.net>
Description Reads EXIF data using ExifTool <https://exiftool.org>
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
Encoding UTF-8
Imports curl, plyr, tibble, jsonlite, utils, rappdirs
SystemRequirements Perl

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

BugReports https://github.com/paleolimbot/exifr/issues
RoxygenNote 7.1.1
Suggests testthat, covr
NeedsCompilation no
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configure_exiftool

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configure_exiftool Configure perl, ExifTool

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
Call exiftool from R

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
- **args** a list of non-shell quoted arguments (e.g. "-n -csv")
- **fnames** a list of filenames (shQuote() will be applied to this vector)
- **intern** TRUE if output should be returned as a character vector.
- **...** additional arguments to be passed to system2
- **quiet** 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 data from files

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, 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

```r
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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