Package 'exiftoolr'

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Type Package

Title ExifTool Functionality from R

Version 0.1.4

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Description Reads, writes, and edits EXIF and other file metadata
using ExifTool <https://exiftool.org/>,
returning read results as a data frame. 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,
DJI, FLIR, FujiFilm, GE, GoPro, 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

URL https://github.com/JoshOBrien/exiftoolr#readme

BugReports https://github.com/JoshOBrien/exiftoolr/issues

SystemRequirements Perl

LazyData TRUE

Imports curl, jsonlite, zip

Encoding UTF-8

Language en-US

RoxygenNote 7.1.1

NeedsCompilation no

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Repository CRAN

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`configure_exiftoolr` *Configure package to point to ExifTool and/or Perl*

Description

Configure package to point to ExifTool and/or Perl

Usage

```
configure_exiftoolr(
  command = NULL,
  perl_path = NULL,
  allow_win_exe = TRUE,
  quiet = FALSE
)
```

Arguments

`command`	Character string giving the exiftool command.
`perl_path`	Path to a Perl executable.
`allow_win_exe`	Logical. If running on a Windows machine, and if a standalone exiftool executable is available, should it be used?
`quiet`	Logical. Should function should be chatty?

Value

A character string giving the exiftool command, returned invisibly.

exif_call *Call ExifTool from R*

Description

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

Usage

```
exif_call(args = NULL, path = NULL, intern = FALSE, quiet = FALSE, ...)

exif_version(quiet = TRUE)
```

Arguments

`args`	Character vector of arguments, each written in same form as you would if writing them on the command line (e.g. `"-n"` or `"-csv"`)
`path`	A character vector giving one or more file paths.
`intern`	`TRUE` if output should be returned as a character vector. Default value is `FALSE`.
`quiet`	Use `FALSE` to display diagnostic information. Default value is `FALSE`.
`...`	Additional arguments to be passed to `system()`.

Details

For examples of the command-line calls to ExifTool (all of which can be reproduced by calls to `exif_call`), see https://exiftool.org/examples.html.

Value

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

Examples

```
## Not run:
## Find local ExifTool version using exif_version() or exif_call()
exif_version()
exif_call(args = "-ver", intern = TRUE)

## Make temporary copies of a couple jpeg files
tmpdir <- tempdir()
src_files <- dir(system.file(package = "exiftoolr", "images"),
                 full.names = TRUE)
files <- file.path(tmpdir, basename(src_files))
file.copy(src_files, files)

## Both of the following extract the same tags:
exif_read(files, tags = c("filename", "imagesize"))
exif_call(args = c("-n", "-j", "-q", "-filename", "-imagesize"),
```

```
          path = files, intern = TRUE)

## Set value of a new "Artist" field in photo's metadata
file1 <- files[1]
exif_read(file1, tags = "artist")
exif_call(path = file1, args = "-Artist=me")
exif_read(file1, tags = "artist")

## Remove all but a few essential fields
length(exif_read(file1))
exif_call(path = file1, args = "-all=")
length(exif_read(file1))
exif_read(file1)

## Clean up
unlink(files)

## End(Not run)
```

`exif_read` *Read EXIF and other metadata from files*

Description

Reads EXIF and other metadata into a `data.frame` by calling Phil Harvey's ExifTool command-line application.

Usage

```
exif_read(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. Default value is `TRUE`

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, DJI, FLIR, FujiFilm, GE, GoPro, 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.

Value

A data frame of class `"exiftoolr"` with one row per file processed. The first column, named `"SourceFile"` gives the name(s) of the processed files. Subsequent columns contain info from the tags read from those files.

Note that binary tags such as thumbnails are loaded as base64-encoded strings that start with `"base64:"`. Although these are truncated in the printed representation of the `data.frame` returned by the function, they are left unaltered in the `data.frame` itself.

References

https://exiftool.org

Examples

```
## Not run:
files <- dir(system.file(package = "exiftoolr", "images"),
             pattern = "*.jpg", full.names = TRUE)
exif_read(files)
exif_read(files, tags = c("filename", "imagesize"))

## End(Not run)
```

`install_exiftool` *Install ExifTool, downloading (by default) the current version*

Description

Install the current version of ExifTool

Usage

```
install_exiftool(
  install_location = NULL,
  win_exe = NULL,
  local_exiftool = NULL,
  quiet = FALSE
)
```

Arguments

`install_location`	Path to the directory into which ExifTool should be installed. If `NULL` (the default), installation will be into the (initially empty) `exiftool` folder in the **exiftoolr** package's directory tree.
`win_exe`	Logical, only used on Windows machines. Should we install the standalone ExifTool Windows executable or the ExifTool Perl library? (The latter relies, for its execution, on an existing installation of Perl being present on the user's machine.) If set to `NULL` (the default), the function installs the Windows executable on Windows machines and the Perl library on other operating systems.
`local_exiftool`	If installing ExifTool from a local "*.zip" or ".tar.gz", supply the path to that file as a character string. With default value, 'NULL', the function downloads ExifTool from `https://exiftool.org` and then installs it.
`quiet`	Logical. Should function should be chatty?

Value

Called for its side effect

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