Package: libopenexr (via r-universe)

May 30, 2026

Type Package

Title Static Library and Headers for 'OpenEXR' Image I/O

Version 3.4.12-4

Description Provides the 'OpenEXR' static library and 'C++' headers
for high-dynamic-range image I/O (see <https://openexr.com/>)
needed to link R packages against the 'OpenEXR' library, along
with a basic R interface to load 'EXR' images.

Depends R (>= 4.3.0)

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LinkingTo libimath (>= 3.2.2)

Encoding UTF-8

LazyData true

SystemRequirements CMake, GNU make

RoxygenNote 7.3.2

Biarch TRUE

BugReports https://github.com/tylermorganwall/libopenexr/issues

Config/pak/sysreqs cmake make

Repository https://tylermorganwall.r-universe.dev

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RemoteUrl https://github.com/tylermorganwall/libopenexr

RemoteRef HEAD

RemoteSha b78c67d61ec03054d82495effbc97cb9669b8010

Contents

read_exr *Read an OpenEXR image*

Description

Load an RGBA OpenEXR image into R numeric matrices.

Usage

```
read_exr(path, array = FALSE)
```

Arguments

path	Character scalar. Path to an '.exr' file.
array	Default 'FALSE'. Return a 4-layer RGBA array instead of a list.

Value

A list with elements 'r', 'g', 'b', 'a' (numeric matrices), and the integer dimensions 'width', 'height'.

Examples

```
#Write the included data to an EXR file
tmpfile = tempfile(fileext = ".exr")
write_exr(tmpfile,
          widecolorgamut[,,1],
          widecolorgamut[,,2],
          widecolorgamut[,,3],
          widecolorgamut[,,4])
exr_file = read_exr(tmpfile)
str(exr_file)
```

widecolorgamut *Wide Color Gamut EXR Data*

Description

Wide Color Gamut numeric data in RGBA list format from the OpenEXR project.

Usage

```
widecolorgamut
```

Format

An array of four channels (RBGA) and a width/height

Source

<https://openexr.com/en/latest/test_images/TestImages/WideColorGamut.html>

`write_exr` *Write an OpenEXR image*

Description

Save RGBA numeric matrices to an OpenEXR file (32-bit float, ZIP compression).

Usage

```
write_exr(path, r, g, b, a = matrix(1, nrow = nrow(r), ncol = ncol(r)))
```

Arguments

`path`	Character scalar output file.
`r`	Numeric matrix, red channel.
`g`	Numeric matrix, green channel.
`b`	Numeric matrix, blue channel.
`a`	Numeric matrix, alpha channel.

Value

None.

Examples

```
#Write the included data to an EXR file
tmpfile = tempfile(fileext = ".exr")
write_exr(tmpfile,
          widecolorgamut[,,1],
          widecolorgamut[,,2],
          widecolorgamut[,,3],
          widecolorgamut[,,4])
```

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