Package: webp (via r-universe)

October 3, 2024

Type Package

Title A New Format for Lossless and Lossy Image Compression

Version 1.2.1

Description Lossless webp images are 26% smaller in size compared to PNG. Lossy webp images are 25-34% smaller in size compared to JPEG. This package reads and writes webp images into a 3 (rgb) or 4 (rgba) channel bitmap array using conventions from the 'jpeg' and 'png' packages.

License MIT + file LICENSE

URL https://jeroen.r-universe.dev/webp

BugReports https://github.com/jeroen/webp/issues

SystemRequirements libwebp

Encoding UTF-8

Suggests jpeg, png

RoxygenNote 7.1.1

Language en-GB

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

RemoteUrl https://github.com/jeroen/webp

RemoteRef HEAD

RemoteSha cc7cf6badf1008caa34029dd915d4d67f35950b6

Contents

read_webp *Webp image format*

Description

Read and write webp images into a bitmap array. The bitmap array uses the same conventions as the `png` and `jpeg` package.

Usage

```
read_webp(source, numeric = TRUE)

write_webp(image, target = NULL, quality = 80)
```

Arguments

`source`	raw vector or path to webp file
`numeric`	convert the image to 0-1 real numbers to be compatible with images from the jpeg or png package.
`image`	array of 3 dimensions (width * height * channel) with real numbers between 0 and 1.
`target`	path to a file or `NULL` to return the image as a raw vector
`quality`	value between 0 and 100 for lossy compression, or `NA` for lossless compression.

Examples

```
# Convert to webp
library(png)
img <- readPNG(system.file("img", "Rlogo.png", package="png"))
out <- file.path(tempdir(), "rlogo.webp")
write_webp(img, out)
# browseURL(out)

# Convert from webp
library(jpeg)
img <- read_webp(out)
jpeg <- file.path(tempdir(), "rlogo.jpeg")
writeJPEG(img, jpeg)
# browseURL(jpeg)
```

Index