

Package ‘webp’

July 22, 2025

Type Package

Title A New Format for Lossless and Lossy Image Compression

Version 1.3.0

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

NeedsCompilation yes

Author Jeroen Ooms [aut, cre] (ORCID: <<https://orcid.org/0000-0002-4035-0289>>)

Maintainer Jeroen Ooms <jeroenooms@gmail.com>

Repository CRAN

Date/Publication 2024-12-16 15:10:02 UTC

Contents

read_webp	2
Index	3

`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

<code>source</code>	raw vector or path to webp file
<code>numeric</code>	convert the image to 0-1 real numbers to be compatible with images from the jpeg or png package.
<code>image</code>	array of 3 dimensions (width * height * channel) with real numbers between 0 and 1.
<code>target</code>	path to a file or NULL to return the image as a raw vector
<code>quality</code>	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

`read_webp`, [2](#)

`webp (read_webp)`, [2](#)

`write_webp (read_webp)`, [2](#)