

# Package ‘webp’

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**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.

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**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

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### 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)
```

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