Package: rsvg (via r-universe)

October 28, 2026

Type Package

Title Render SVG Images into PDF, PNG, (Encapsulated) PostScript, or Bitmap Arrays

Version 2.7.0

Description Renders vector-based svg images into high-quality custom-size bitmap arrays using 'librsvg2'. The resulting bitmap can be written to e.g. png, jpeg or webp format. In addition, the package can convert images directly to various formats such as pdf or postscript.

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URL https://docs.ropensci.org/rsvg/, https://github.com/ropensci/rsvg

BugReports https://github.com/ropensci/rsvg/issues

Suggests ggplot2, knitr, magick, rmarkdown, spelling, svglite, testthat (>= 3.0.0), webp, png

VignetteBuilder knitr

Encoding UTF-8

Language en-US

RoxygenNote 7.1.2

SystemRequirements librsvg2 (at least version 2.52)

Config/testthat/edition 3

NeedsCompilation yes

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Contents

librsvg_version 2
rsvg 2

Index **4**

`librsvg_version` *librsvg version*

Description

Print the version of the librsvg library

Usage

```
librsvg_version()
```

`rsvg` *Render SVG into Bitmap*

Description

Render svg image into a high quality bitmap. When both `width` and `height` are `NULL`, the output resolution matches that of the input. When either `width` or `height` is specified, the image is scaled proportionally. When both `width` and `height` are specified, the image is stretched into the requested size.

Usage

```
rsvg(svg, width = NULL, height = NULL, css = NULL)

rsvg_raw(svg, width = NULL, height = NULL, css = NULL)

rsvg_nativeraster(svg, width = NULL, height = NULL, css = NULL)

rsvg_webp(svg, file = NULL, width = NULL, height = NULL, css = NULL)

rsvg_png(svg, file = NULL, width = NULL, height = NULL, css = NULL)

rsvg_pdf(svg, file = NULL, width = NULL, height = NULL, css = NULL)

rsvg_svg(svg, file = NULL, width = NULL, height = NULL, css = NULL)

rsvg_ps(svg, file = NULL, width = NULL, height = NULL, css = NULL)

rsvg_eps(svg, file = NULL, width = NULL, height = NULL, css = NULL)
```

Arguments

svg	path/url to svg file or raw vector with svg data. Use charToRaw to convert an SVG string into raw data.
width	output width in pixels or NULL for default.
height	output height in pixels or NULL for default
css	path/url to external css file or raw vector with css data. This requires your system has a recent version of librsvg.
file	path to output file or NULL to return content as raw vector

Examples

```
# create some svg
options(example.ask=FALSE)
tmp <- tempfile()
svglite::svglite(tmp, width = 10, height = 7)
ggplot2::qplot(mpg, wt, data = mtcars, colour = factor(cyl))
dev.off()

# convert directly into a vector or bitmap graphics format
rsvg_pdf(tmp, "out.pdf")
rsvg_png(tmp, "out.png")
rsvg_svg(tmp, "out.svg")
rsvg_ps(tmp, "out.ps")
rsvg_eps(tmp, "out.eps")

# render into raw bitmap array
bitmap <- rsvg(tmp, height = 1440)
dim(bitmap) # h*w*c

# render to native raster object
nr <- rsvg_nativeraster(tmp)
# grid::grid.raster(nr)

# read in your package of choice
magick::image_read(bitmap)
webp::write_webp(bitmap, "bitmap.webp", quality = 100)

# cleanup
unlink(c("out.*", "bitmap.webp"))
```

Index

charToRaw, *3*

librsvg_version, 2

rsvg, 2
rsvg_eps *(*rsvg*)*, 2
rsvg_nativeraster *(*rsvg*)*, 2
rsvg_pdf *(*rsvg*)*, 2
rsvg_png *(*rsvg*)*, 2
rsvg_ps *(*rsvg*)*, 2
rsvg_raw *(*rsvg*)*, 2
rsvg_svg *(*rsvg*)*, 2
rsvg_webp *(*rsvg*)*, 2