

Package ‘rsvg’

May 10, 2018

Type Package

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

Version 1.3

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.

License MIT + file LICENSE

URL <https://github.com/jeroen/rsvg#readme>

BugReports <https://github.com/jeroen/rsvg/issues>

SystemRequirements librsvg2

RoxygenNote 5.0.1

Suggests spelling, svglite, png, jpeg, webp, ggplot2

Language en-US

NeedsCompilation yes

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

Maintainer Jeroen Ooms <jeroen@berkeley.edu>

Repository CRAN

Date/Publication 2018-05-10 12:17:28 UTC

R topics documented:

rsvg	2
Index	4

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)
rsvg_raw(svg, width = NULL, height = NULL)
rsvg_webp(svg, file = NULL, width = NULL, height = NULL)
rsvg_png(svg, file = NULL, width = NULL, height = NULL)
rsvg_pdf(svg, file = NULL, width = NULL, height = NULL)
rsvg_svg(svg, file = NULL, width = NULL, height = NULL)
rsvg_ps(svg, file = NULL, width = NULL, height = 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
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()

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

```
png::writePNG(bitmap, "bitmap.png", dpi = 144)
jpeg::writeJPEG(bitmap, "bitmap.jpg", quality = 1)
webp::write_webp(bitmap, "bitmap.webp", quality = 100)
```

```
# render straight to output format
rsvg_pdf(tmp, "out.pdf")
rsvg_png(tmp, "out.png")
rsvg_svg(tmp, "out.svg")
rsvg_ps(tmp, "out.ps")
```

Index

[charToRaw](#), 2

[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