Package 'rsvg'

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Type Package

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

Version 1.0

Author Jeroen Ooms

Maintainer Jeroen Ooms <jeroen.ooms@stat.ucla.edu>

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://github.com/jeroenooms/rsvg#readme

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

SystemRequirements librsvg2

RoxygenNote 5.0.1

Suggests svglite, png, jpeg, webp, ggplot2

NeedsCompilation yes

Repository CRAN

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R topics documented:

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")
```

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