

# Package ‘cardargus’

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**Title** Generate SVG Information Cards with Embedded Fonts and Badges

**Version** 0.2.1

**Description** Create self-contained SVG information cards with embedded 'Google Fonts', shields-style badges, and custom logos. Cards are fully portable SVG files ideal for dashboards, reports, and web applications. Includes functions to export cards to PNG format and display them in 'R Markdown' and 'Quarto' documents.

**License** MIT + file LICENSE

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**URL** <https://github.com/StrategicProjects/cardargus>

**BugReports** <https://github.com/StrategicProjects/cardargus/issues>

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---

batch\_svg\_to\_png      *Batch convert multiple SVG cards to PNG*

---

### Description

Convert a list of SVG strings to PNG files in a given directory. Fonts are embedded automatically for consistent rendering.

### Usage

```
batch_svg_to_png(  
  svg_list,  
  output_dir = ".",  
  prefix = "card",  
  dpi = 300,  
  background = "transparent"  
)
```

### Arguments

svg_list	List of SVG strings.
output_dir	Output directory.
prefix	File name prefix.
dpi	Resolution.
background	Background color for PNG output.

### Value

Character vector of output paths.

---

card\_to\_grob      *Create a grob for grid/ggplot2*

---

### Description

Wrap an SVG card as a raster grob so it can be used with grid graphics.

### Usage

```
card_to_grob(svg_string, dpi = 150, engine = c("auto", "chrome", "rsvg"))
```

### Arguments

svg_string	SVG string from <code>svg_card()</code> .
dpi	Rasterization DPI (default 150).
engine	Rendering engine: "auto", "chrome", or "rsvg".

**Value**

A `grid::rasterGrob` object.

<code>chrome_available</code>	<i>Check if Chrome/Chromium is available for rendering</i>
-------------------------------	--

**Description**

Checks whether the chromote package can find and use a Chrome or Chromium installation for headless rendering.

**Usage**

```
chrome_available(verbose = FALSE)
```

**Arguments**

<code>verbose</code>	Print status messages (default FALSE).
----------------------	--

**Value**

TRUE if Chrome is available, FALSE otherwise.

**Examples**

```
if (chrome_available()) {
  cat("Using Chrome")
} else {
  cat("Using Magick")
}
```

<code>compress_number</code>	<i>Compress number to abbreviated format</i>
------------------------------	--

**Description**

Compress number to abbreviated format

**Usage**

```
compress_number(x, digits = 1)
```

**Arguments**

<code>x</code>	Numeric value to compress
<code>digits</code>	Number of decimal places

**Value**

Character string with abbreviated number

**Examples**

```
compress_number(1234567)  
compress_number(36400000)
```

---

**create\_badge***Create an SVG Badge*

---

**Description**

Generate a badge similar to shields.io style with label and value. Both sides have properly rounded corners.

**Usage**

```
create_badge(  
  label,  
  value,  
  color,  
  font = "Jost",  
  style = "margin:2px;",  
  fontsize = 11,  
  horiz_padding = 5,  
  extra_right_pad = 2,  
  class = "",  
  shadow_offset = 2,  
  corner_radius = 3,  
  height = NULL,  
  as_string = TRUE  
)
```

**Arguments**

label	Label text (left side)
value	Value text (right side)
color	Background color for value area
font	Font family name
style	CSS style string
fontsize	Font size in pixels
horiz_padding	Horizontal padding
extra_right_pad	Extra padding on right side

<code>class</code>	CSS class
<code>shadow_offset</code>	Shadow offset in pixels
<code>corner_radius</code>	Corner radius for rounded rectangle
<code>height</code>	Minimum height (optional)
<code>as_string</code>	Return as character string

**Value**

SVG string

**Examples**

```
create_badge("UH", "192", "white")
create_badge("Recurso Federal", "36,4 milhões", "#4CAF50")
```

`create_badge_row`

*Create a row of SVG badges with uniform height*

**Description**

Generate multiple badges arranged horizontally with the same height.

**Usage**

```
create_badge_row(
  badges_data,
  default_color = "white",
  spacing = 4,
  font = "Jost",
  fontsize = 10,
  uniform_height = TRUE
)
```

**Arguments**

<code>badges_data</code>	A list of lists, each containing label, value, and optionally color
<code>default_color</code>	Default color for badges
<code>spacing</code>	Spacing between badges
<code>font</code>	Font family
<code>fontsize</code>	Font size
<code>uniform_height</code>	Force all badges to have the same height (default TRUE)

**Value**

SVG string containing all badges

## Examples

```
badges <- list(  
  list(label = "UH", value = "192"),  
  list(label = "Recurso Federal", value = "36,4 milhões"),  
  list(label = "Contrapartida", value = "0,0")  
)  
create_badge_row(badges, default_color = "white")
```

---

```
create_bottom_logo_row
```

*Create logo row for bottom-left corner of card*

---

## Description

Takes a list of SVG logos and arranges them horizontally for the bottom-left.

## Usage

```
create_bottom_logo_row(  
  logos,  
  target_height = 30,  
  spacing = 10,  
  x_offset = 20,  
  card_height = 400,  
  y_offset = 20  
)
```

## Arguments

logos	List of SVG strings or file paths
target_height	Height for all logos (default 30)
spacing	Horizontal spacing between logos (default 10)
x_offset	Left margin from card edge
card_height	Total card height for y positioning
y_offset	Bottom margin

## Value

A list with `svg_content` and `total_width`

---

create_logo_row	<i>Create logo row for top-right corner of card</i>
-----------------	---

---

**Description**

Takes a list of SVG logos and arranges them horizontally with proper spacing. Returns the SVG elements positioned for the top-right corner.

**Usage**

```
create_logo_row(
  logos,
  target_height = 40,
  spacing = 10,
  card_width = 500,
  x_offset = 20,
  y_offset = 20
)
```

**Arguments**

logos	List of SVG strings or file paths
target_height	Height for all logos (default 40)
spacing	Horizontal spacing between logos (default 10)
card_width	Total card width to calculate positioning
x_offset	Right margin from card edge
y_offset	Top margin

**Value**

A list with svg\_content and total\_width

---

ensure_chrome	<i>Ensure Chrome is available, downloading if necessary</i>
---------------	---

---

**Description**

Checks if Chrome is available and optionally downloads a standalone Chrome for Testing if not found. This ensures Chrome-based rendering works without requiring a system-wide Chrome installation.

**Usage**

```
ensure_chrome(download = FALSE, verbose = TRUE)
```

**Arguments**

- |          |  |
|----------|--|
| download | If TRUE and Chrome is not found, attempt to download Chrome for Testing (default FALSE). |
| verbose  | Print status messages (default TRUE).  |

**Details**

When `download = TRUE`, this function will download "Chrome for Testing", a standalone Chrome distribution designed for automation. The download is approximately 150MB and is cached in the user's data directory.

Alternatively, you can:

- Install Chrome/Chromium system-wide
- Set the `CHROMOTE_CHROME` environment variable to point to an existing installation

**Value**

TRUE if Chrome is available (or was successfully downloaded), FALSE otherwise.

**Examples**

```
# Check and report status
ensure_chrome()

# Download Chrome if not available
## Not run: # Requires an external Chrome/Chromium installation
ensure_chrome(download = TRUE)

## End(Not run)
```

---

<i>find_chrome_path</i>	<i>Find Chrome executable path</i>
-------------------------	------------------------------------

---

**Description**

Attempts to find a Chrome or Chromium executable on the system. Checks common installation paths and environment variables.

**Usage**

```
find_chrome_path()
```

**Value**

Path to Chrome executable, or NULL if not found.

**Examples**

```
path <- find_chrome_path()
if (!is.null(path)) {
  message("Chrome found at: ", path)
}
```

<code>font_available</code>	<i>Check if a font is available for embedding</i>
-----------------------------	---

**Description**

Check if a font is available for embedding

**Usage**

```
font_available(family)
```

**Arguments**

<code>family</code>	Font family name
---------------------	------------------

**Value**

TRUE if font is cached (any supported format), FALSE otherwise

**Examples**

```
font_available("Jost")
font_available("Montserrat")
```

<code>font_cache_dir</code>	<i>Get font cache directory</i>
-----------------------------	---------------------------------

**Description**

Returns the directory where cardargus caches downloaded font files. Fonts in this directory are automatically embedded in SVG/PNG exports.

**Usage**

```
font_cache_dir(persistent = TRUE)
```

**Arguments**

<code>persistent</code>	Logical. If TRUE (default), uses persistent cache via <code>tools::R_user_dir()</code> . If FALSE or if persistent cache is unavailable, uses a session-specific temporary directory.
-------------------------	---

**Value**

A character path to the cache directory.

---

`get_font_css`

*Get Google Font CSS for embedding in SVG*

---

**Description**

Get Google Font CSS for embedding in SVG

**Usage**

```
get_font_css(font_name = "Jost", weights = c(400, 500, 600, 700))
```

**Arguments**

<code>font_name</code>	Name of the Google Font
<code>weights</code>	Vector of font weights to include

**Value**

Character string with CSS @font-face rules

**Examples**

```
get_font_css("Jost")
```

---

`get_svg_path`

*Get path to a bundled SVG file*

---

**Description**

Returns the full path to a SVG file bundled with the package.

**Usage**

```
get_svg_path(filename, height = NULL, width = NULL)
```

**Arguments**

<code>filename</code>	Name of the SVG file (e.g., "morar_bem.svg")
<code>height</code>	Optional target height (px). If provided, returns the SVG content resized for embedding instead of the file path.
<code>width</code>	Optional target width (px). Only used when returning resized SVG content.

**Value**

If `height` and `width` are both `NULL`, returns the full file path. Otherwise returns the resized SVG content (character string).

---

`icon_building`*Building Icon SVG*

---

**Description**

Generate a building/apartment icon SVG.

**Usage**

```
icon_building(  
    width = 50,  
    height = 56,  
    stroke_color = "white",  
    stroke_width = 2,  
    fill = "none"  
)
```

**Arguments**

<code>width</code>	Width of the icon
<code>height</code>	Height of the icon
<code>stroke_color</code>	Stroke color
<code>stroke_width</code>	Stroke width
<code>fill</code>	Fill color

**Value**

SVG string

**Examples**

```
icon_building(50, 56)
```

---

icon_construction	<i>Construction Icon SVG</i>
-------------------	------------------------------

---

### Description

Generate a construction/crane icon SVG.

### Usage

```
icon_construction(  
    width = 50,  
    height = 56,  
    stroke_color = "white",  
    stroke_width = 2,  
    fill = "none"  
)
```

### Arguments

width	Width of the icon
height	Height of the icon
stroke_color	Stroke color
stroke_width	Stroke width
fill	Fill color

### Value

SVG string

### Examples

```
icon_construction(50, 56)
```

---

icon_house	<i>House Icon SVG</i>
------------	-----------------------

---

### Description

Generate a house/home icon SVG. You can also use any SVG file path instead of built-in icons.

**Usage**

```
icon_house(
    width = 50,
    height = 56,
    stroke_color = "white",
    stroke_width = 35,
    fill = "none"
)
```

**Arguments**

<code>width</code>	Width of the icon
<code>height</code>	Height of the icon
<code>stroke_color</code>	Stroke color
<code>stroke_width</code>	Stroke width
<code>fill</code>	Fill color (default none)

**Value**

SVG string

**Examples**

```
icon_house(50, 56)

# You can also use a custom SVG file:
# svg_card(..., with_icon = "/path/to/my_icon.svg")
```

*icon\_map\_pin*

*Map Pin Icon SVG*

**Description**

Generate a map pin/location icon SVG.

**Usage**

```
icon_map_pin(
    width = 50,
    height = 56,
    stroke_color = "white",
    stroke_width = 2,
    fill = "none"
)
```

**Arguments**

width	Width of the icon
height	Height of the icon
stroke_color	Stroke color
stroke_width	Stroke width
fill	Fill color

**Value**

SVG string

**Examples**

```
icon_map_pin(50, 56)
```

---

icon\_money

*Dollar/Money Icon SVG*

---

**Description**

Generate a dollar/money icon SVG.

**Usage**

```
icon_money(  
    width = 50,  
    height = 56,  
    stroke_color = "white",  
    stroke_width = 2,  
    fill = "none"  
)
```

**Arguments**

width	Width of the icon
height	Height of the icon
stroke_color	Stroke color
stroke_width	Stroke width
fill	Fill color

**Value**

SVG string

**Examples**

```
icon_money(50, 56)
```

**include\_card***Display card in knitr/Quarto document (SVG via data URI)***Description**

Embeds the SVG as an <img> using a data:image/svg+xml;base64,... URI. This is more robust than inline <svg> for Pandoc/pkgdown (avoids "unclosed div" warnings). For non-HTML outputs, it falls back to `include_card_png()`.

**Usage**

```
include_card(
  svg_string,
  width = "100%",
  alt = "Card generated by cardargus",
  dpi = 300,
  engine = c("auto", "chrome", "rsvg")
)
```

**Arguments**

<code>svg_string</code>	SVG string from <code>svg_card()</code> .
<code>width</code>	Display width (CSS units), e.g. "100%", "500px".
<code>alt</code>	Alternative text for accessibility.
<code>dpi</code>	Fallback DPI used when output is not HTML (default 300).
<code>engine</code>	Rendering engine for non-HTML output: "auto", "chrome", or "rsvg".

**Value**

Knitr output for the current format.

**include\_card\_png***Display card as PNG in knitr/Quarto document***Description**

Converts an SVG card to PNG and displays it in R Markdown or Quarto documents. Recommended for better compatibility across HTML/PDF/Word.

**Usage**

```
include_card_png(
  svg_string,
  dpi = 300,
  width = "100%",
  alt = "Card generated by cardargus",
  background = "transparent",
  engine = c("auto", "chrome", "rsvg")
)
```

**Arguments**

svg_string	SVG string from <code>svg_card()</code> .
dpi	Rasterization DPI (default 300).
width	Display width (CSS units) for HTML outputs.
alt	Alternative text for accessibility.
background	Background color passed to <code>svg_to_png()</code> (default transparent).
engine	Rendering engine: "auto" (uses Chrome if available, else rsvg), "chrome" (headless Chrome via chromote), or "rsvg" (librsvg/magick). Chrome provides better font rendering for Google Fonts.

**Value**

Knitr output for the current format.

install\_fonts

*Pre-download fonts for offline use*

**Description**

Downloads and caches the specified fonts (or default fonts) so they are available for PNG conversion without internet access.

**Usage**

```
install_fonts(
  fonts = c("Jost", "Montserrat", "Roboto", "Open Sans"),
  verbose = TRUE
)
```

**Arguments**

fonts	Character vector of Google Font names to download. Default is c("Jost", "Montser- rat", "Roboto", "Open Sans").
verbose	Print status messages

**Value**

Named logical vector indicating success for each font

**Examples**

```
install_fonts()
install_fonts(c("Jost", "Roboto"))
```

is_light_color	<i>Check if a color is light</i>
----------------	----------------------------------

**Description**

Check if a color is light

**Usage**

```
is_light_color(color)
```

**Arguments**

color	A hex color string or color name
-------	----------------------------------

**Value**

Logical indicating if the color is light

**Examples**

```
is_light_color("#FFFFFF")
is_light_color("#000000")
```

list_bundled_svgs	<i>List available bundled SVG files</i>
-------------------	---

**Description**

List available bundled SVG files

**Usage**

```
list_bundled_svgs()
```

**Value**

Character vector of available SVG filenames

---

list_fonts	<i>List registered/cached fonts</i>
------------	-------------------------------------

---

### Description

List registered/cached fonts

### Usage

```
list_fonts()
```

### Value

Character vector of font family names that are cached

### Examples

```
list_fonts()
```

---

load_svg_for_embed	<i>Load and process external SVG file for embedding</i>
--------------------	---

---

### Description

Reads an SVG file and processes it to be embedded inside another SVG. Removes XML declarations, adjusts dimensions, and prepares for embedding.

### Usage

```
load_svg_for_embed(svg_path, target_height = 40, target_width = NULL)
```

### Arguments

svg_path	Path to the SVG file
target_height	Desired height in pixels
target_width	Optional desired width (calculated from aspect ratio if NULL)

### Details

This function is useful when you want to embed custom logos or icons in cards. You can pass any SVG file path to the logos, bottom\_logos, or with\_icon parameters of `svg_card()`.

### Value

A list with `svg_content`, `width`, and `height`

## Examples

```
## Not run: # Need a external svg file
# Load a custom logo
logo <- load_svg_for_embed("/path/to/logo.svg", target_height = 40)

# Or just pass the path directly to svg_card():
svg_card(
  title = "My Card",
  logos = c("/path/to/logo1.svg", "/path/to/logo2.svg"),
  ...
)

## End(Not run)
```

`register_cardargus_knitr`

*Register cardargus knitr engine*

## Description

Registers a custom knitr engine named "cardargus" so that SVG cards can be rendered directly from chunks.

## Usage

```
register_cardargus_knitr()
```

## Value

Invisible NULL.

## Examples

```
# In your setup chunk:
register_cardargus_knitr()

# Then use cardargus as chunk engine:
# `~~{cardargus}
# svg_card(title = "My Card", ...)
# ~~
```

---

register_font	<i>Register a local font file for embedding</i>
---------------	---

---

## Description

Copies a local font file (TTF or WOFF2) to the cardargus cache directory so it can be embedded in SVG exports.

## Usage

```
register_font(font_path, family = NULL)
```

## Arguments

font_path	Path to a local .ttf or .woff2 font file
family	Font family name to register (e.g., "Jost"). If NULL, the filename without extension is used.

## Value

Path to the cached font file (invisible)

---

register_google_font	<i>Register Google Font (sysfonts)</i>
----------------------	--

---

## Description

Registers a Google Font using **sysfonts**.

## Usage

```
register_google_font(font_family)
```

## Arguments

font_family	Font family name (e.g., "Jost")
-------------	---------------------------------

## Value

Invisible NULL

---

save_card_for_knitr	<i>Save card and return path for knitr</i>
---------------------	--

---

### Description

Saves a card to a file and returns the path for use in knitr chunks.

### Usage

```
save_card_for_knitr(
  svg_string,
  filename = "card",
  format = c("svg", "png"),
  dpi = 300,
  dir = NULL,
  engine = c("auto", "chrome", "rsvg")
)
```

### Arguments

svg_string	SVG string from <code>svg_card()</code> .
filename	Output filename (without extension).
format	Output format: "svg" or "png".
dpi	Rasterization DPI for PNG (default 300).
dir	Output directory (defaults to knitr figure directory or <code>tempdir()</code> ).
engine	Rendering engine for PNG: "auto", "chrome", or "rsvg".

### Value

Path to the saved file.

---

save_svg	<i>Save SVG string to file (sanitized + embedded fonts)</i>
----------	---

---

### Description

Saves an SVG string to disk. Before saving, the function:

1. sanitizes the SVG to remove problematic Inkscape/Sodipodi metadata that can break strict XML parsers, and
2. detects and embeds fonts (WOFF2 via @font-face) for deterministic rendering.

This function expects the font helpers to be available in the package: `detect_svg_fonts()`, `ensure_cardargus_fonts()`, and `embed_svg_fonts()`.

**Usage**

```
save_svg(svg_content, output_path)
```

**Arguments**

- |             |  |
|-------------|--|
| svg_content | SVG string (or object coercible to character). |
| output_path | Output file path.                              |

**Value**

Path to the saved SVG file.

**Examples**

```
svg <- svg_card("FAR", list(), list())
save_svg(svg, tempfile(fileext = ".svg"))
```

---

<code>setup_fonts</code>	<i>Setup showtext for cardargus</i>
--------------------------	-------------------------------------

---

**Description**

Registers fonts (via sysfonts) and optionally enables showtext auto mode.

**Usage**

```
setup_fonts(fonts = c("Jost", "Montserrat"), auto = TRUE)
```

**Arguments**

- |       |  |
|-------|--|
| fonts | Character vector of Google Font names to register. |
| auto  | Enable showtext auto mode.                         |

**Value**

Invisible NULL

---

svgs_dir	<i>Get the path to package SVGs directory</i>
----------	---

---

### Description

Returns the path to the inst/svgs directory where SVG files are stored.

### Usage

```
svgs_dir()
```

### Value

Character string with the path to SVGs directory

---

svg_card	<i>Create an Information Card in SVG Format</i>
----------	---

---

### Description

Generate a complete information card as an SVG with embedded styles, fonts, badges, logos, and field labels/values.

### Usage

```
svg_card(
  title = "FAR",
  badges_data = list(),
  fields = list(),
  bg_color = "#fab255",
  width = 500,
  padding = 20,
  corner_radius = 8,
  font = "Jost",
  title_fontsize = 16,
  title_color = "white",
  label_fontsize = 11,
  value_fontsize = 11,
  label_color = "white",
  value_bg_color = "#f8f8ff",
  value_text_color = "#212529",
  show_house_icon = TRUE,
  logos = list(),
  logos_height = 40,
  bottom_logos = list(),
```

```

bottom_logos_height = 30,
footer = NULL,
gap_to_footer = 6,
footer_row_padding_bottom = 6,
footer_fontsize = 8,
footer_color = "white",
uniform_row_height = TRUE,
show_viewer = interactive()
)

```

## Arguments

<code>title</code>	Card title (e.g., "FAR", "FNHIS")
<code>badges_data</code>	List of badge data (label, value, color)
<code>fields</code>	List of field rows, each row is a list of fields with label, value, and optionally <code>with_icon</code> . The <code>with_icon</code> parameter can be: <ul style="list-style-type: none"> <li>• <code>TRUE</code> - uses the default house icon</li> <li>• <code>FALSE</code> or <code>NULL</code> - no icon</li> <li>• A character string - path to an SVG file or raw SVG code</li> </ul>
<code>bg_color</code>	Background color of the card. Can be a solid color (e.g., "#fab255") or a CSS gradient (e.g., "linear-gradient(to right, #1a5a3a, #2e7d32)" or "linear-gradient(135deg, #667eea, #764ba2)").
<code>width</code>	Card width in pixels
<code>padding</code>	Padding inside the card
<code>corner_radius</code>	Corner radius for rounded corners
<code>font</code>	Font family
<code>title_fontsize</code>	Title font size
<code>title_color</code>	Color for the card title (default "white")
<code>label_fontsize</code>	Label font size
<code>value_fontsize</code>	Value font size
<code>label_color</code>	Color for field labels (default "white")
<code>value_bg_color</code>	Background color for value boxes
<code>value_text_color</code>	Text color for values
<code>show_house_icon</code>	Show house icon next to empreendimento
<code>logos</code>	Character vector of logo file paths or SVG strings for top right. Use <code>get_svg_path("filename.svg")</code> for bundled logos, or any local path.
<code>logos_height</code>	Height for top-right logos (default 40)
<code>bottom_logos</code>	Character vector of logo file paths or SVG strings for bottom left.
<code>bottom_logos_height</code>	Height for bottom-left logos (default 30)

footer Footer text (e.g., update timestamp)  
 gap\_to\_footer Distance (px) between the last info block and the footer row.  
 footer\_row\_padding\_bottom Bottom padding (px) under the footer row (text + logos).  
 footer\_fontsize Footer font size  
 footer\_color Color for footer text (default "white")  
 uniform\_row\_height If TRUE, keep the height inside a row.  
 show\_viewer If TRUE (and interactive), preview the SVG in the Viewer.

### Value

SVG string

### Examples

```

# With default house icon
fields <- list(
  list(
    list(label = "Empreendimento", value = "CAIARA II", with_icon = TRUE)
  )
)

# With custom icon
custom_icon <- '<svg width="50" height="50"><circle cx="25" cy="25" r="20" fill="white"/></svg>'
fields <- list(
  list(
    list(label = "Projeto", value = "Meu Projeto", with_icon = custom_icon)
  )
)

badges <- list(
  list(label = "UH", value = "192"),
  list(label = "Recurso Federal", value = "36,4 milhões")
)

# With file paths for logos
svg_card("FAR", badges, fields,
         bg_color = "#fab255",
         logos = c("path/to/logo1.svg", "path/to/logo2.svg"),
         bottom_logos = c("path/to/gov_logo.svg"))

# With gradient background
svg_card("MCMV", badges, fields,
         bg_color = "linear-gradient(to right, #1a5a3a, #2e7d32)")

# Diagonal gradient
svg_card("Programa", badges, fields,
         bg_color = "linear-gradient(135deg, #667eea, #764ba2)")

```

---

svg\_to\_formats      *Convert SVG to multiple formats*

---

## Description

Convert an SVG string or file to multiple formats. Supported formats are:

- "svg" - saves the SVG
- "png" - rasterizes to PNG via [svg\\_to\\_png](#)
- "pdf" - converts to PDF (prefers [rsvg](#))

## Usage

```
svg_to_formats(  
  svg_input,  
  output_base,  
  formats = c("svg", "png"),  
  dpi = 300,  
  background = "transparent"  
)
```

## Arguments

svg_input	SVG string or file path.
output_base	Base name for output files (without extension).
formats	Vector of formats to generate ("png", "svg", "pdf").
dpi	Resolution for raster formats.
background	Background color for PNG output.

## Value

Named list with paths to generated files.

---

svg\_to\_pdf\_chrome      *Convert SVG to PDF using headless Chrome*

---

## Description

Renders an SVG to PDF using headless Chrome via the chromote package. This method produces vector PDFs with perfect font rendering.

## Usage

```
svg_to_pdf_chrome(
  svg_input,
  output_path,
  background = "transparent",
  print_background = TRUE,
  timeout = 30
)
```

## Arguments

<code>svg_input</code>	SVG string or path to an SVG file.
<code>output_path</code>	Output path for the PDF file.
<code>background</code>	Background color for the HTML page (default "transparent").
<code>print_background</code>	Whether to include CSS backgrounds in PDF (default TRUE).
<code>timeout</code>	Maximum time in seconds to wait for page load (default 30).

## Value

Path to the generated PDF file.

## Examples

```
## Not run: # It requires an external Chrome/Chromium installation
svg <- svg_card("FAR", list(), list())
if (chrome_available()) {
  pdf_path <- svg_to_pdf_chrome(svg, tempfile(fileext = ".pdf"))
}
## End(Not run)
```

`svg_to_png`

*Convert SVG to PNG*

## Description

Convert an SVG string or SVG file path to a high-quality PNG image. The function sanitizes the SVG and embeds required WOFF2 fonts (downloaded on demand into a user cache) to ensure consistent font rendering.

**Important note about DPI:** `rsvg` rasterizes primarily based on pixel dimensions. To make DPI matter, this function scales output pixel size by (`dpi / 96`) when `width / height` are not explicitly provided.

**Usage**

```
svg_to_png(  
  svg_input,  
  output_path = NULL,  
  width = NULL,  
  height = NULL,  
  dpi = 300,  
  background = "transparent"  
)
```

**Arguments**

svg_input	SVG string or path to an SVG file.
output_path	Output path for the PNG file (optional; a temp file is used if NULL).
width	Output width in pixels (NULL to infer from SVG and scale by DPI).
height	Output height in pixels (NULL to infer from SVG and scale by DPI).
dpi	Resolution in dots per inch (default 300 for high quality).
background	Background color. Use "transparent" or "none" for transparency (default), or specify a color like "white", "#FFFFFF", etc.

**Value**

Path to the generated PNG file.

**Examples**

```
svg <- svg_card("FAR", list(), list())  
file_name <- tempfile(fileext = ".png")  
png_path <- svg_to_png(svg, file_name, dpi = 300)  
png_path <- svg_to_png(svg, file_name, dpi = 300, background = "white")
```

---

svg\_to\_png\_chrome      *Convert SVG to PNG using headless Chrome*

---

**Description**

Renders an SVG to PNG using headless Chrome via the chromote package. This method provides superior font rendering compared to librsvg/ImageMagick, as Chrome properly handles @font-face rules, web fonts, and CSS features.

**Usage**

```
svg_to_png_chrome(
  svg_input,
  output_path = NULL,
  dpi = 300,
  background = "transparent",
  timeout = 30
)
```

**Arguments**

svg_input	SVG string or path to an SVG file.
output_path	Output path for the PNG file. If NULL, a temp file is used.
dpi	Resolution in dots per inch (default 300). Chrome uses 96 DPI as base, so dpi = 300 results in approximately 3.125x scaling.
background	Background color for the HTML page (default "transparent"). Use "white", "#FFFFFF", etc. for a solid background.
timeout	Maximum time in seconds to wait for page load (default 30).

**Value**

Path to the generated PNG file.

**Examples**

```
svg <- svg_card("FAR", list(), list())
file_name <- tempfile(fileext = ".png")
# High-quality PNG with Chrome rendering
## Not run: # Requires an external Chrome/Chromium installation.
if (chrome_available()) {
  png_path <- svg_to_png_chrome(svg, file_name, dpi = 300)
}

## End(Not run)
```

**svg\_to\_png\_with\_margin**

*Convert SVG to PNG with optional margin and background*

**Description**

Creates a PNG with extra margin around the card. Fonts are embedded before rasterization for consistent appearance.

**Usage**

```
svg_to_png_with_margin(  
    svg_input,  
    output_path = NULL,  
    margin = 20,  
    margin_color = "transparent",  
    dpi = 300,  
    background = "transparent"  
)
```

**Arguments**

svg_input	SVG string or path to SVG file.
output_path	Output path for PNG file (optional; a temp file is used if NULL).
margin	Margin in pixels to add around the card.
margin_color	Color of the margin area (default transparent).
dpi	Resolution in dots per inch.
background	Background color for the card rasterization (default transparent).

**Value**

Path to the generated PNG file.

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