Package ‘fontawesome’

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Type Package
Version 0.2.2
Title Easily Work with 'Font Awesome' Icons
Description Easily and flexibly insert 'Font Awesome' icons into 'R Markdown' documents and 'Shiny' apps. These icons can be inserted into HTML content through inline 'SVG' tags or 'i' tags. There is also a utility function for exporting 'Font Awesome' icons as 'PNG' images for those situations where raster graphics are needed.
License MIT + file LICENSE
URL https://github.com/rstudio/fontawesome
BugReports https://github.com/rstudio/fontawesome/issues
Encoding UTF-8
ByteCompile true
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**R topics documented:**

- `fa` 
- `fa_html_dependency` 
- `fa_i` 
- `fa_metadata` 
- `fa_png` 

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**Description**

Add one or more Font Awesome icons as SVGs contained within `<svg>...</svg>`. We can optionally set certain style attributes. The `fa()` function can be used directly within inline evaluations of R code in R Markdown documents.

**Usage**

```r
fa(
  name,
  fill = NULL,
  fill_opacity = NULL,
  stroke = NULL,
  stroke_width = NULL,
  stroke_opacity = NULL,
  height = NULL,
  width = NULL,
  margin_left = NULL,
  margin_right = NULL,
  position = NULL,
  title = NULL,
  a11y = c("deco", "sem", "none")
)
```

**Arguments**

<table>
<thead>
<tr>
<th>name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>The name of the Font Awesome icon. This could be as a short name (e.g., &quot;npm&quot;, &quot;drum&quot;, etc.), or, a full name (e.g., &quot;fab fa-npm&quot;, &quot;fas fa-drum&quot;, etc.). The names should correspond to current Version 5 Font Awesome names. A list of short and full names can be accessed through the <code>fa_metadata()</code> function with <code>fa_metadata()</code>$icon_names and <code>fa_metadata()</code>$icon_names_full. If supplying a Version 4 icon name, it will be internally translated to the Version 5 icon name and a Version 5 icon will be returned. A data frame containing the short names that changed from version 4 (<code>v4_name</code>) to version 5 (<code>v5_name</code>) can be obtained by using <code>fa_metadata()</code>$v4_v5_name_tbl.</td>
</tr>
</tbody>
</table>
fill, fill_opacity
The fill color of the icon can be set with fill. If not provided then the default value
of "currentColor" is applied so that the SVG fill matches the color of the parent
HTML element's color attribute. The opacity level of the SVG fill can be
controlled with a decimal value between 0 and 1.

stroke, stroke_width, stroke_opacity
The stroke options allow for setting the color, width, and opacity of the SVG
outline stroke. By default, the stroke width is very small at "1px" so a size
adjustment with "stroke_width" can be useful. The "stroke_opacity" value
can be any decimal values between 0 and 1 (bounds included).

height, width
The height and width style attributes of the rendered SVG. If nothing is pro-
vided for height then a default value of "1em" will be applied. If a width isn’t
given, then it will be calculated in units of "em" on the basis of the icon’s SVG
"viewBox" dimensions.

margin_left, margin_right
The length value for the margin that’s either left or right of the icon. By default,
"auto" is used for both properties. If space is needed on either side then a length
of "0.2em" is recommended as a starting point.

position
The value for the position style attribute. By default, "relative" is used here.

title
An option for populating the SVG 'title' attribute, which provides on-hover
text for the icon. By default, no title text is given to the icon. If a11y ==
"semantic" then title text will be automatically given to the rendered icon, how-
ever, providing text here will override that.

a11y
Cases that distinguish the role of the icon and inform which accessibility at-
tributes to be used. Icons can either be "deco" (decorative, the default case) or
"sem" (semantic). Using "none" will result in no accessibility features for the
icon.

Value
A fontawesome object.

Examples

if (interactive()) {

    # Create a Font Awesome SVG icon
    fa(name = "r-project")
}

Use a Font Awesome html_dependency

Description

The `fa_html_dependency()` function adds a `html_dependency` object into a Shiny or R Markdown context. This allows for the direct use of `<i>` tags that refer to Font Awesome icons without having to use the `fa_i()` to create these tags and also add the `html_dependency` to the document.

Usage

    fa_html_dependency()

Details

The `html_dependency` object is created internally with the following invocation:

```r
htmltools::htmlDependency(
  name = "font-awesome",
  version = fa_version,
  src = "fontawesome",
  package = "fontawesome",
  stylesheet = c("css/all.min.css", "css/v4-shims.min.css")
)
```

The `fa_version` object is an internal object that provides the released version number for the Font Awesome icons. This can be inspected by using `fa_metadata()$version`.

Value

An `html_dependency` object.

Examples

```r
if (interactive()) {
  # Create a Font Awesome 'html_dependency'
  fa_html_dependency()
}
```
fa_i

Generate a Font Awesome <i> tag

Description

The fa_i() function creates a Font Awesome <i> tag and not an SVG as with fa(). The primary use case for fa_i() is for legacy Shiny applications that use the shiny::icon() function. This function is called within a shiny::icon() call and all HTML dependencies to support icon generation are hosted in the fontawesome package.

Usage

fa_i(name, class = NULL, ..., html_dependency = NULL, verify_fa = TRUE)

Arguments

name

The name of the Font Awesome icon. This could be as a short name (e.g., "npm", "drum", etc.), or, a full name (e.g., "fab fa-npm", "fas fa-drum", etc.). The names should correspond to current Version 5 Font Awesome names. A list of short and full names can be accessed through the fa_metadata() function with fa_metadata()$icon_names and fa_metadata()$icon_names_full. If supplying a Version 4 icon name, it will be internally translated to the Version 5 icon name and a Version 5 icon will be returned. A data frame containing the short names that changed from version 4 (v4_name) to version 5 (v5_name) can be obtained by using fa_metadata()$v4_v5_name_tbl.

class

Additional classes to customize the style of the icon (see the usage examples for details on supported styles).

...

Arguments passed to the <i> tag of htmltools::tags.

html_dependency

Provides an opportunity to use a custom html_dependency object (created via a call to htmltools::htmlDependency()) instead of one supplied by the function (which uses Font Awesome’s free assets and are bundled in the package). A custom html_dependency object is useful when you have paid icons from Font Awesome or would otherwise like to customize exactly which icon assets are used (e.g., woff, woff2, eot, etc.). By default, this is NULL where the function internally generates an html_dependency.

verify_fa

An option to verify the provided icon name. If TRUE (the default), internal checks will take place and issue messages should the name is a Font Awesome 4 icon name (the message will provide the Version 5 name), or, if the icon name cannot be found in either Font Awesome 4 or 5.

Value

An icon element.
Examples

if (interactive()) {

    # Create a Font Awesome icon object
    fa_i(name = "r-project")
}

fa_metadata

Description

This function provides some metadata about the included Font Awesome assets in the `fontawesome` package. The list that is returned has the following components:

- `version`: The released version number for the Font Awesome icons
- `icon_count`: The total count of unique Font Awesome icons
- `icon_names`: A vector of short names (e.g., "npm", "drum", etc.) for all included icons
- `icon_names_full`: A vector containing the full names (e.g., "fab fa-npm", "fas fa-drum", etc.) for all included icons
- `icon_names_fa(r|s|b)`: Vectors of short names within the regular ("r"), solid ("s"), and brand ("b") groups
- `icon_names_full_fa(r|s|b)`: Vectors with the full names of icons within the regular ("r"), solid ("s"), and brand ("b") groups
- `v4_v5_name_tbl`: A data frame containing the short names that changed from version 4 (v4_name) to version 5 (v5_name) of Font Awesome

Usage

`fa_metadata()`

Value

A list with metadata for the included Font Awesome assets.

Examples

```r
if (interactive()) {

    # Get information on the Font Awesome
    # assets included in this package
    fa_metadata()
}
```
fa_png

Create a PNG version of a Font Awesome icon

Description

Get a Font Awesome icon as a PNG file. We can optionally set the fill attribute before writing the PNG. Additionally, there is control over the output width and height (usually, icons are 512 by 512 pixels). Please note that this function requires that the rsvg is installed on the system. Attempting to use fa_png() without rsvg available will result in an error message.

Usage

fa_png(
  name,
  file = NULL,
  fill = NULL,
  fill_opacity = NULL,
  stroke = NULL,
  stroke_width = NULL,
  stroke_opacity = NULL,
  height = NULL,
  width = NULL
)

Arguments

name

The name of the Font Awesome icon.

file

the path to the output file. If NULL, then filename will take the short name of the icon and a .png extension will be applied.

fill, fill_opacity

The fill color of the icon can be set with fill. If not provided then the default fill color will be black. The opacity level of the fill color can be controlled with a decimal value between 0 and 1.

stroke, stroke_width, stroke_opacity

The stroke options allow for setting the color, width, and opacity of the outline stroke. By default, the stroke width is very small at "1px" so a size adjustment with "stroke_width" can be useful. The "stroke_opacity" value can be any decimal values between 0 and 1 (bounds included).

height, width

The output height and width of the rendered PNG. If nothing is provided then the output dimensions will match that of the input SVG view Box.

Value

A PNG file written to disk.
Examples

    if (interactive()) {

        # Create a Font Awesome SVG icon as a
        # PNG file on disk
        fa_png(name = "r-project")

    }
