

Package: hexsession (via r-universe)

March 15, 2025

Title Create a tile of logos for loaded packages

Version 0.0.0.9000

Description Creates a responsive HTML file with tiled hex logos for all loaded packages in a session, which can be saved as a static screenshot in png format.

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Suggests rsvg, testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2.9000

URL <https://github.com/luisDVA/hexsession>,
<https://luisdva.github.io/hexsession/>

BugReports <https://github.com/luisDVA/hexsession/issues>

Imports base64enc, chromote, jsonlite, magick, purrr, htmltools, knitr

Config/pak/sysreqs chromium make libmagick++-dev gsfonts libssl-dev

Repository <https://aleksanderbl29.r-universe.dev>

RemoteUrl <https://github.com/luisDVA/hexsession>

RemoteRef HEAD

RemoteSha e693222adf9ab4fc749fd98729ebe6c369556d0c

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col_arrange	<i>Arrange Images by Color</i>
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Description

Takes a vector of image paths, extracts the main color from each image using k-means clustering, converts the colors to the LAB color space, and sorts the images based on the lightness (L) component of their dominant color.

Usage

```
col_arrange(image_paths)
```

Arguments

`image_paths` Character vector. A vector of file paths to the images.

Value

A character vector of image paths, sorted by the lightness of their main color.

Examples

```
img1 <- system.file("extdata/rectLight.png", package = "hexsession")
img2 <- system.file("extdata/rectMed.png", package = "hexsession")
img3 <- system.file("extdata/rectDark.png", package = "hexsession")
sorted_paths <- col_arrange(c(img1, img3, img2))
```

encode_image	<i>Encode image to Base64</i>
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Description

Encode image to Base64

Usage

```
encode_image(file_path)
```

Arguments

file_path	Path to an image file
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Value

Base64 encoded string of the image

find_imgpaths	<i>Find image paths</i>
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Description

Find image paths

Usage

```
find_imgpaths(pkgnames)
```

Arguments

pkgnames	Character vector of package names
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Details

Images in svg format will be converted to png. When no image matches 'logo' in the file name the used is will be prompted to select likely logos.

Value

A list of image file paths for each package

find_logopaths *Find logo paths*

Description

Find logo paths

Usage

```
find_logopaths(imagepaths, pkgnames)
```

Arguments

imagepaths	List of image paths
pkgnames	Character vector of package names

Value

A vector of logo paths

generate_hexsession_js
Generate JavaScript file for hexsession

Description

Generate JavaScript file for hexsession

Usage

```
generate_hexsession_js(logopaths, urls, dark_mode, output_js)
```

Arguments

logopaths	Vector of image paths
urls	Vector of URLs
dark_mode	Use dark mode, inherited from make_tile
output_js	Path to save the JavaScript file

getLoaded	<i>Get loaded packages</i>
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Description

Get loaded packages

Usage

getLoaded()

Value

A character vector of the attached packages (excludes base packages)

get_pkg_data	<i>Get package data</i>
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Description

Get package data

Usage

get_pkg_data(packages = NULL)

Arguments

packages Character vector of package names (default is NULL, uses loaded packages)

Value

A list containing logopaths and urls for the packages

 maincolorRGB

Extract the Most Frequent Color from an Image

Description

Internal helper. For a given image path, this functions uses k-means clustering to identify the most dominant color in the image.

Usage

```
maincolorRGB(imgpath)
```

Arguments

imgpath Character string. File path to the image.

Value

A data frame with one row containing the RGB values of the dominant color. The column name is set to the input image path.

 make_missingLogos

Create missing logos

Description

Create missing logos

Usage

```
make_missingLogos(attached_pkgs, logopath)
```

Arguments

attached_pkgs Character vector of attached package names

logopath Vector of existing logo paths

Value

Vector of paths to new logos

make_tile	<i>Generate tile of package logos</i>
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Description

This function returns an interactive html tile view of the packages either listed in the `packages` option, or all of the loaded packages. When rendered interactively, the result is output in the viewer. When rendered in Quarto or RMarkdown, the tile becomes part of the rendered html. If local images are provided, only these images will be used, excluding loaded packages.

Usage

```
make_tile(
  packages = NULL,
  local_images = NULL,
  local_urls = NULL,
  dark_mode = FALSE,
  color_arrange = FALSE
)
```

Arguments

<code>packages</code>	Character vector of package names to include (default: <code>NULL</code> , which uses loaded packages)
<code>local_images</code>	Optional character vector of local image paths to add to the tile
<code>local_urls</code>	Optional character vector of URLs for each of the local images passed
<code>dark_mode</code>	Draw the tile on a dark background?
<code>color_arrange</code>	Logical, whether to arrange the images by color along the 'Lab' color space (defaults to <code>FALSE</code>)

Value

Path to the output file

pkgurls	<i>Get package URLs</i>
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Description

Get package URLs

Usage

```
pkgurls(pkgnames)
```

Arguments

pkgnames Character vector of package names

Value

A vector of package URLs

snap_tile *Take screenshot of html image tile*

Description

Take screenshot of html image tile

Usage

```
snap_tile(  
  output_path,  
  screen_width = 800,  
  screen_height = 700,  
  dark_mode = FALSE  
)
```

Arguments

output_path Path to image file
screen_width Width of the browser window
screen_height Height of the browser window
dark_mode Is the tile being saved dark or light mode?

Value

Path to the saved image

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