

Package ‘carbonate’

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Title Interact with 'carbon.js'

Version 0.1.2

Description Create beautiful images of source code using 'carbon.js' <<https://carbon.now.sh/about>>.

Depends R (>= 3.2.0)

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Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Imports R6, clipr, magick, wdman, RSelenium, utils, httr, rtweet, yaml

Suggests testthat, covr, knitr, rmarkdown

URL <https://github.com/yonicd/carbonate>

BugReports <https://github.com/yonicd/carbonate/issues>

VignetteBuilder knitr

NeedsCompilation no

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.browse	<i>open \$uri to in browser window</i>
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Description

opens the uri address in [\\$uri](#) in the browser window.

Usage

```
.browse(self, private)
```

Arguments

self	carbon self object
private	carbon private object

See Also

[carbon](#)

Examples

```
x <- carbon$new('x <- 1')
if(interactive())
  x$browse()
```

.carbonate	<i>Carbonate script lines to a carbon image</i>
------------	---

Description

Main function of the package that invokes RSelenium to open a browser to the carbon.js uri, create an image and download the file.

Usage

```
.carbonate(self, private, file, path, code, rD)
```

Arguments

self	carbon self object
private	carbon private object
file	character, name of file to save image as
path	character, path to save the image
code	character, lines of script to make carbon image from
rD	RSelenium driver

Details

Script is passed to <https://carbon.now.sh/> is downloaded to the `tempdir()` and appended to the list `$carbons` using RSelenium and Chrome.

Value

image object

See Also

[carbon](#), [rsDriver](#)

Examples

```
if(interactive()){  
  x <- carbon$new('x <- 1')  
  x$carbonate()  
}
```

.chromeOptions *chrome webdriver functions*

Description

Functions to open,close,set chrome webdriver

Usage

```
.chromeOptions(self, private)  
  
.chrome_start(self, private)  
  
.chrome_stop(self, private)
```

Arguments

self	carbon self object
private	carbon private object

See Also[carbon](#), [chrome](#)

<code>.encode</code>	<i>encode uri for carbon.js</i>
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Description

encode uri string for carbon.js. Augmented version of than [URLencode](#)

Usage

```
.encode(self, private, URL, reserved, repeated)
```

Arguments

<code>self</code>	carbon self object
<code>private</code>	carbon private object
<code>URL</code>	character, uri string to url encode
<code>reserved</code>	boolean, should 'reserved' characters be encoded?
<code>repeated</code>	boolean, should apparently already-encoded URLs be encoded again?

Value

character

See Also[URLencode](#), [carbon](#)

<code>.get_windows_control_themes</code>	<i>carbon get functions</i>
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Description

function that gets the available list of aesthetic values of fields

Usage

```
.get_windows_control_themes(self, private)
.get_font_families(self, private)
.get_templates(self, private)
```

Arguments

self	carbon self object
private	carbon private object

See Also

[carbon](#)

.options *concatenate the carbon options to a string*

Description

combine all the carbon options into a carbon.js valid string

Usage

```
.options(self, private, code)
```

Arguments

self	carbon self object
private	carbon private object
code	character, script to embed into the uri

Value

OUTPUT_DESCRIPTION

See Also

[carbon](#)

`.rtweet` *send tweets using carbonate outputs*

Description

wrapper for [post_tweet](#) to send tweets with media created using carbonate.

Usage

```
.rtweet(self, private, media, status = self$tweet_status,
        media_format = c("png", "gif"), ...)
```

Arguments

<code>self</code>	carbon self object
<code>private</code>	carbon private object
<code>media</code>	magick-image object or path to image
<code>status</code>	character, status to attach to post, Default: <code>self\$tweet_status</code>
<code>media_format</code>	character, type of media to tweet, Default: <code>c('png','gif')</code>
<code>...</code>	arguments to pass to post_tweet

Details

If multiple images are passed they can be either converted to a gif by setting `media_format` to 'gif' or attached each one to the post.

Value

outcome from `rtweet`

See Also

[image_write](#) [post_tweet](#)

Examples

```
## Not run:
x <- carbonate::carbon$new()
x$carbonate(code = readLines(system.file('DESCRIPTION',package='carbonate')))
x$carbonate(code = 'x+2')

# using default status value (x$tweet_status)
x$rtweet(system.file('figures/hex_black_small.png',package='carbonate'))

x$rtweet(status = 'these are two pngs',media = x$carbons,media_format='png')
x$rtweet(status = 'this is a gif', media = x$carbons,media_format='gif')

## End(Not run)
```

.set_template *carbon set functions*

Description

function that set the aesthetics of the carbon image output

Usage

```
.set_template(self, private, template)
.set_window_control_theme(self, private, theme)
.set_font_family(self, private, family)
```

Arguments

self	carbon self object
private	carbon private object
template	character, name of template to set \$template to
theme	character, theme to set \$theme to
family	character, font family to set \$font_family to

See Also

[carbon](#)

.start *RSelenium webdriver functions*

Description

Functions to open,stop, stop_all RSelenium sessions

Usage

```
.start(self, private, eCap)
.stop(self, private)
.stop_all(self, private)
```

Arguments

self	carbon self object
private	carbon private object
eCap	chromeOptions passed into rsDriver

See Also[carbon](#)

<i>.tiny</i>	<i>convert carbon uri to tinyurl</i>
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Description

convert carbon uri to tinyurl with option to attach to clipboard.

Usage

```
.tiny(self, private, clip = FALSE)
```

Arguments

self	carbon self object
private	carbon private object
clip	boolean, write tinyurl to clipboard, Default: FALSE

Details

If clip is set to TRUE [write_clip](#) will put the tinyurl on the clipboard.

Value

character

.uri *URI constructor*

Description

Function that is called in a carbon object to construct valid uri to send to browser

Usage

```
.uri(self, private, code)
```

Arguments

self	carbon self object
private	carbon private object
code	character, script to embbed into the uri

See Also

[carbon](#)

Examples

```
if(interactive()){  
  
x <- carbon$new('x <- 1')  
  
# populate from self$code  
x$uri()  
  
# enter manually  
x$uri(code = 'x <- y + 3')  
  
}
```

carbon *Carbon R6 class*

Description

The Carbon generator creates a new Carbon-object, which is the class containing all the app logic. The class is based on the [R6](#) OO-system and is thus reference-based with methods and data attached to each object, in contrast to the more well known S3 and S4 systems.

Initialization

A new 'Carbon'-object is initialized using the new() method on the generator:

```
x <- carbon$new(code = clipr::read_clip())
```

Fields

Description of fields of the R6 object that can be set by the user can be found in the following [page](#).

Methods

`$carbonate` Using RSelenium fetch the carbon image output
`$browse` open `$uri` in the browser

`$set_template` set `$template`
`$get_templates` get a list of possible templates
`$set_window_control_theme` set `$windows_control_theme`
`$get_windows_control_themes` get a list of possible window control themes
`$set_font_family` set `$font_family`
`$get_font_families` get a list of possible fonts

`$uri` construct valid carbon.js uri
`$options` return all current carbon options
`$encode` URL encode a string for the `$uri`
`$tiny` Create tinyurl from `$uri`
`$rtweet` Send tweets containing media generated from carbon

`$chromeOptions` construct a chromeOptions object
`$chrome_start` start a chrome session
`$chrome_stop` stop a chrome session
`$start` start a RSelenium session
`$stop` stop a RSelenium session
`$stop_all` stop all active RSelenium sessions

carbon_fields

Carbon object fields

Description

Fields that can be changed in the `Carbon` object

Arguments

`code` character, script to embed, Default: NULL

palette	numeric, layout pallete, Default: c(r=171,g=184,b=195,a=1)
template	character, layout template, Default: 'seti'
add_window_control	boolean, add/remove window controls (circles on top left corner), Default: TRUE
window_control_theme	character, change window control themes, Default: 'none'
language	character, language, Default: 'r'
add_drop_shadow	boolean, add/remove dropshadow, Default: TRUE
drop_shadow_offset_y	numeric, shadow vertical offset (px), Default: 20
drop_shadow_blur_radius	numeric, shadow blur radius (px), Default: 68
auto_adjust_width	boolean, auto-adjust output width, Default: TRUE
padding_vertical	numeric, vertical padding (px), Default: 48
padding_horizontal	numeric, horizontal padding (px), Default: 32
add_line_number	boolean, add/remove line numbers, Default: FALSE
font_family	character, layout font family, Default: 'Hack'
font_size	numeric, font size (px), Default: 14
line_height_percent	numeric, relative space between lines (percent), Default: 133
square_image	boolean, output image is square, Default: FALSE
relative_export_size	numeric, image size in export relative to what is in the preview (1,2 or 4), Default: 1
add_watermark	boolean, add official carbon.js watermark, Default: FALSE
add_tinyurl	boolean, add tinyurl link to image directing to the carbon page that created the image, Default: FALSE
tinyurl_location	character, string with gravity value to place the annotate tinyurl address on image, Default: 'southeast'
tweet	boolean, tweet out the image using post_tweet
tweet_status	character, status to add to the tweet. If add_tinyurl is TRUE then a link to the url will be appended to the status automatically, Default: 'Created in R using the Carbonate (Package Icon)'
add_timestamp	boolean, add timestamp to output filename, Default: FALSE
carbons	list, storage of rendered carbon images, Default: NULL
download_path	character, path to download the images, Default: tempdir()

chrome_args	character, arguments passed to chrome browser, Default: c('-disable-gpu', '-window-size=1280,800')
chrome_pref	list, preferences passed to chrome browser, Default: list("profile.default_content_settings.popups" = 0L,"download.prompt_for_download" = FALSE,"download.default_directory" = tempdir())
rD	RSelenium Driver object
cDrv	Chrome Driver object from wdman

See Also

[carbon](#)

tinyurl	<i>convert uri to tinyurl</i>
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Description

convert uri to tinyurl.

Usage

```
tinyurl(uri)
```

Arguments

uri	character, the uri to convert
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Value

character

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