Package 'slickR'

February 14, 2020

```
Title Create Interactive Carousels with the JavaScript
      'Slick' Library
Version 0.4.9
Date 2020-02-13
Description Create and customize interactive carousels
      using the 'Slick' JavaScript library and the
      'htmlwidgets' package. The carousels can contain
      plots produced in R, images, 'iframes', videos and
      other 'htmlwidgets'. These carousels can be created
      directly from the R console, and viewed in the 'RStudio'
      internal viewer, in Shiny apps and R Markdown documents.
License MIT + file LICENSE
URL https://github.com/metrumresearchgroup/slickR
BugReports https://github.com/metrumresearchgroup/slickR/issues
Depends R (>= 3.5.0)
Imports htmltools, utils, tools, lifecycle, stats, xml2, base64enc, htmlwidgets
Suggests jsonlite,
      knitr,
      pdftools,
     rmarkdown,
      syglite,
      leaflet,
      testthat,
      covr
VignetteBuilder knitr
RdMacros lifecycle
Encoding UTF-8
LazyData true
Roxygen list(markdown = TRUE)
RoxygenNote 7.0.2
```

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getHelp

getHelp Deprecated

Description

return rd help file as html

Usage

```
getHelp(fn, pkg)
```

Arguments

fn character of function name

pkg name of package that contains fn

Details

This function has been moved to the iframes vignette

Value

character

nba_player_logo 3

nba_player_logo

NBA player logo

Description

NBA player logo URI

Usage

```
nba_player_logo
```

Format

A data frame with 150 rows and 4 variables:

```
team character, Team name
position factor, Position of the Player
name character, Player Name
uri character, Player Headshot URI
player_home character, Player Homepage URI
```

Details

Logos harvested from http://www.espn.com/nba/depth

See Also

Other data: nba_team_logo

nba_team_logo

NBA team logo

Description

NBA team logo URI

Usage

```
nba_team_logo
```

Format

A data frame with 30 rows and 2 variables:

```
team character, Team Name uri character, Team logo URI
```

Details

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See Also

Other data: nba_player_logo

settings

Modify components of slick settings

Description

Customize non-data components of the carousel.

Usage

```
settings(
  accessibility,
  adaptiveHeight,
  autoplay,
  autoplaySpeed,
  arrows,
  asNavFor,
  appendArrows,
  appendDots,
  prevArrow,
  nextArrow,
  centerMode,
  centerPadding,
  cssEase,
  customPaging,
  dots,
  dotsClass,
  draggable,
  fade,
  focusOnSelect,
  easing,
  edgeFriction,
  infinite,
  initialSlide,
  lazyLoad,
  mobileFirst,
  pauseOnFocus,
  pauseOnHover,
  pauseOnDotsHover,
  respondTo,
  responsive,
  rows,
  slide,
  slidesPerRow,
  slidesToShow,
  slidesToScroll,
  speed,
  swipe,
```

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```
swipeToSlide,
touchMove,
touchThreshold,
useCSS,
useTransform,
variableWidth,
vertical,
verticalSwiping,
rtl,
waitForAnimate,
zIndex,
...
```

Arguments

accessibility logical, Enables tabbing and arrow key navigation, Default: TRUE

adaptiveHeight logical, Enables adaptive height for single slide horizontal carousels., Default:

FALSE

autoplay logical, Enables Autoplay, Default: FALSE

autoplaySpeed numeric, Autoplay Speed in milliseconds, Default: 3000

arrows logical, Prev/Next Arrows, Default: TRUE

asNavFor character, Set the slider to be the navigation of other slider (Class or ID Name),

Default: null

appendArrows character, Change where the navigation arrows are attached (Selector, html-

String, Array, Element, jQuery object), Default: \$(element)

appendDots character, Change where the navigation dots are attached (Selector, htmlString,

Array, Element, ¡Query object), Default: \$(element)

prevArrow character (htmlljQuery selector) | object (DOM nodeljQuery object), Allows you

to select a node or customize the HTML for the "Previous" arrow., Default:

<button type="button" class="slick-prev">Previous</button>

nextArrow character (htmlljQuery selector) | object (DOM nodeljQuery object), Allows

you to select a node or customize the HTML for the "Next" arrow., Default:

<button type="button" class="slick-next">Next</button>

centerMode logical, Enables centered view with partial prev/next slides. Use with odd num-

bered slidesToShow counts., Default: FALSE

centerPadding character, Side padding when in center mode (px or $\$ Default: '50px'

cssEase character, CSS3 Animation Easing, Default: 'ease'

customPaging function, Custom paging templates. See source for use example., Default: n/a

dots logical, Show dot indicators, Default: FALSE

dotsClass character, Class for slide indicator dots container, Default: 'slick-dots'

draggable logical, Enable mouse dragging, Default: TRUE

fade logical, Enable fade, Default: FALSE

focusOnSelect logical, Enable focus on selected element (click), Default: FALSE

easing character, Add easing for jQuery animate. Use with easing libraries or default

easing methods, Default: 'linear'

edgeFriction numeric, Resistance when swiping edges of non-infinite carousels, Default: 0.15

6 settings

infinite logical, Infinite loop sliding, Default: TRUE

initialSlide numeric, Slide to start on, Default: 0

lazyLoad character, Set lazy loading technique. Accepts 'ondemand' or 'progressive',

Default: 'ondemand'

mobileFirst logical, Responsive settings use mobile first calculation, Default: FALSE

pauseOnFocus logical, Pause Autoplay On Focus, Default: TRUE logical, Pause Autoplay On Hover, Default: TRUE pauseOnHover

pauseOnDotsHover

logical, Pause Autoplay when a dot is hovered, Default: FALSE

respondTo character, Width that responsive object responds to. Can be 'window', 'slider'

or 'min' (the smaller of the two), Default: 'window'

responsive object, Object containing breakpoints and settings objects (see demo). Enables

settings sets at given screen width. Set settings to "unslick" instead of an object

to disable slick at a given breakpoint., Default: none

numeric, Setting this to more than 1 initializes grid mode. Use slidesPerRow to rows

set how many slides should be in each row., Default: 1

slide element, Element query to use as slide, Default: "

slidesPerRow numeric, With grid mode intialized via the rows option, this sets how many

slides are in each grid row. dver, Default: 1

slidesToShow numeric, # of slides to show, Default: 1 slidesToScroll numeric, # of slides to scroll, Default: 1

numeric, Slide/Fade animation speed in milliseconds, Default: 300 speed

logical, Enable swiping, Default: TRUE swipe

swipeToSlide logical, Allow users to drag or swipe directly to a slide irrespective of slidesTo-

Scroll, Default: FALSE

touchMove logical, Enable slide motion with touch, Default: TRUE

numeric, To advance slides, the user must swipe a length of (1/touchThreshold) touchThreshold

* the width of the slider, Default: 5

useCSS logical, Enable/Disable CSS Transitions, Default: TRUE useTransform logical, Enable/Disable CSS Transforms, Default: TRUE

variableWidth logical, Variable width slides, Default: FALSE vertical logical, Vertical slide mode, Default: FALSE

verticalSwiping

logical, Vertical swipe mode, Default: FALSE

logical, Change the slider's direction to become right-to-left, Default: FALSE rtl waitForAnimate logical, Ignores requests to advance the slide while animating, Default: TRUE zIndex

numeric, Set the zIndex values for slides, useful for IE9 and lower, Default:

1000

unused

Details

To find further information on the attributes that can be used please refer to http://kenwheeler.. github.io/slick/.

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Value

```
list of class c('setting', 'slickR')
```

Examples

```
if(interactive()){
    slick <- slickR(obj=nba_team_logo$uri)
    slick
# Use settings function to manipulate the slick object
# Add dots
    slick + settings(dots = TRUE)
# Autplay elements in the carousel
    slick + settings(autoplay = TRUE, autoplaySpeed = 1000)
}</pre>
```

slickpdf

slickpdf Deprecated

Description

convert multiple pdfs or a multipage pdf to a slick carousel

Usage

```
slickpdf(obj, obj2 = NULL, synch = TRUE, img_format = "png", ...)
```

Arguments

```
obj character, path to pdf(s)
obj2 character, path to pdf(s) to compare to obj, Default: NULL
synch boolean, if TRUE then obj and obj2 images are synchronized, Default: TRUE
img_format format of image to convert to, Default: 'png'
... arguments passed to slickR
```

Details

This function has been replaced with the example in the PDF vignette.

Value

slick

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slickR

slick.js image carousel htmlwidget

Description

use slick.js library in R

Usage

```
slickR(
  obj,
  slideId = "baseDiv",
  slideType = "img",
  objLinks = NULL,
  padding = 1,
  width = "95%",
  height = NULL,
  elementId = NULL,
  slickOpts = NULL,
  synchSlides = NULL,
  dotObj = NULL
)
```

Arguments

obj	character, vector of path or url to images
slideId	character, id of slide, Default: 'baseDiv'
slideType	character, type of object to put in slide, Default: 'img'
objLinks	character, links to attach to images in slide, Default: NULL
padding	numeric, percent of width between each image in the carousel for each slider, Default: 1
width	character, width of htmlwidget, Default: '95%'
height	character, height of htmlwidget, Default: NULL
elementId	character, id tag of htmlwidget, Default: NULL
slickOpts	Deprecated
synchSlides	Deprecated
dot0bj	Deprecated

Details

slick.js is an image carousel javascript library.

To find all the attributes that can be used please refer to the link.

It is possible to stack slides through the %stack% operator.

It is possible to synchronize slides through the %synch% operator.

To replace the dots with icons use the settings to define the customPaging attribute with the appropriate JS(.) function call.

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The slideType accepts the type of html DOM you want to be in the slide, eg img, iframe.

The combination of slideType = 'img-lazy' and settings(lazyLoad = 'ondemand') will inform the htmlwidget that the images are to be loaded lazily. For more information see the slickjs documentation.

Examples

```
if(interactive()){
slick <- slickR(obj=nba_team_logo$uri)</pre>
slick
# add dots to the first slick and autoplay at 1 second a slide
slick + settings(dots = TRUE, autoplay = TRUE, autoplaySpeed = 1000)
# working with multiple slicks
sets <- split(</pre>
  sample(nba_team_logo$uri, size = 28, replace = FALSE),
  rep(c(1,2,3,4),each=7)
slicks <- lapply(sets,FUN = function(x,...){</pre>
  slickR(obj = x,...)
}, height = 100)
# independent slicks
Reduce(`%stack%`,slicks)
# 1,2 synch stacked on 3,4 synch
 (slicks[[1]] %synch% slicks[[2]]) %stack% (slicks[[3]]%synch%slicks[[4]])
}
```

slickR-shiny

Shiny bindings for slickR

Description

Output and render functions for using slickR within Shiny applications and interactive Rmd documents.

Usage

```
slickROutput(outputId, width = "100%", height = "400px")
renderSlickR(expr, env = parent.frame(), quoted = FALSE)
```

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Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a slickR
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

slick_div

Create a DOM element for slickR

Description

Wraps an R object in slickR compatible DOM

Usage

```
slick_div(
    x,
    css = htmltools::css(marginLeft = "auto", marginRight = "auto"),
    type = "img",
    links = NULL
)
```

Arguments

```
    x object
    css object, Default: htmltools::css(marginLeft='auto',marginRight='auto')
    type character, type of DOM, Default: 'img'
    links character, links to use on the input object, Default: NULL
```

Details

Method converts xml_document, htmlwidget, character, or list of objects to a compatible DOM

Value

list of tag objects

See Also

```
Other html: slick_list()
```

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Examples

```
# image
slick_div(nba_team_logo$uri[1])
# vector of images
slick_div(nba_team_logo$uri[c(1:5)])
# text
slick_div('abc',type = 'p')
```

slick_list

List of DOM elements

Description

Convert a list of tags into a list that slickR can render

Usage

```
slick_list(...)
```

Arguments

.. Elements to convert

Value

tagList

See Also

```
tagList, tags
Other html: slick_div()
```

Examples

```
img1 <- htmltools::img(src = nba_player_logo$uri[1])
img2 <- htmltools::img(src = nba_player_logo$uri[2])
slick_list(img1,img2)</pre>
```

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%synch%

Slick pipe operators

Description

Pipe operators to combine plots by either stacking or synching multiple sliders.

Usage

```
e1 %synch% e2
e1 %stack% e2
```

Arguments

e1 slickR htmlwidget to place on top e2 slickR htmlwidget to place on bottom

Value

htmlwidget

Examples

```
if(interactive()){
# working with multiple slicks

sets <- split(
    sample(nba_team_logo$uri, size = 28, replace = FALSE),
    rep(c(1,2,3,4),each=7)
)

slicks <- lapply(sets,FUN = function(x,...){
    slickR(obj = x,...)
},height = 100)

# independent slicks

Reduce(`%stack%`,slicks)

# 1,2 synch stacked on 3,4 synch
    (slicks[[1]] %synch% slicks[[2]]) %stack% (slicks[[3]]%synch%slicks[[4]])
}</pre>
```

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