Package 'slickR'

December 21, 2022

```
Title Create Interactive Carousels with the 'JavaScript'
      'Slick' Library
Version 0.6.0
Date 2022-12-19
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/yonicd/slickR
BugReports https://github.com/yonicd/slickR/issues
Depends R (>= 3.6.0)
Imports htmltools,utils,tools,lifecycle,stats,xml2,base64enc,htmlwidgets,checkmate
Suggests jsonlite,
      knitr,
      pdftools,
     rmarkdown,
      syglite,
      leaflet,
      testthat,
      covr
VignetteBuilder knitr
RdMacros lifecycle
Encoding UTF-8
LazyData true
Roxygen list(markdown = TRUE)
RoxygenNote 7.2.1
```

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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

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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

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,
```

4 settings

```
dots,
 dotsClass,
 draggable,
  fade,
  focusOnSelect,
  easing,
  edgeFriction,
  infinite,
  initialSlide,
 lazyLoad,
 mobileFirst,
 pauseOnFocus,
 pauseOnHover,
 pauseOnDotsHover,
 respondTo,
  responsive,
  rows,
 slide,
  slidesPerRow,
  slidesToShow,
  slidesToScroll,
  speed,
  swipe,
  swipeToSlide,
  touchMove,
  touchThreshold,
  useCSS,
  useTransform,
  variableWidth,
  vertical,
 verticalSwiping,
  rtl,
 waitForAnimate,
 zIndex,
)
```

Arguments

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

 $\hbox{adaptive} \hbox{Height logical, Enables adaptive height for single slide horizontal carousels.}, \hbox{Default:}$

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, jQuery object), Default: \$(element)

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prevArrow character (html||Query selector)| object (DOM node||Query object), Allows you

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

<br

nextArrow character (html|jQuery 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

focus0nSelect 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

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

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

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

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

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

swipe logical, Enable swiping, Default: TRUE

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

Scroll, Default: FALSE

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logical, Enable slide motion with touch, Default: TRUE touchMove touchThreshold numeric, To advance slides, the user must swipe a length of (1/touchThreshold) * the width of the slider, Default: 5 useCSS logical, Enable/Disable CSS Transitions, Default: TRUE logical, Enable/Disable CSS Transforms, Default: TRUE useTransform variableWidth logical, Variable width slides, Default: FALSE vertical logical, Vertical slide mode, Default: FALSE verticalSwiping logical, Vertical swipe mode, Default: FALSE rtl logical, Change the slider's direction to become right-to-left, Default: FALSE waitForAnimate logical, Ignores requests to advance the slide while animating, Default: TRUE numeric, Set the zIndex values for slides, useful for IE9 and lower, Default: zIndex

1000

... unused

Details

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

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>
```

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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]
dotObj	[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.

See Also

Other invoke: slickR-shiny

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.

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Usage

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

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.

See Also

Other invoke: slickR()

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 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 shiny tag objects

slick_list

See Also

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

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>
```

%synch% 11

%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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