

Package: slickR (via r-universe)

August 27, 2024

Title Create Interactive Carousels with the 'JavaScript' 'Slick' Library

Version 0.6.1

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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.

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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, svglite, leaflet, testthat, covr

VignetteBuilder knitr

RdMacros lifecycle

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

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

RemoteUrl <https://github.com/yonicd/slickr>

RemoteRef HEAD

RemoteSha 1a469961b203f9260a49b24e3ec78aef3ef54798

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nba_player_logo	<i>NBA player logo</i>
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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	<i>NBA team logo</i>
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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

Logos harvested from https://i.cdn.turner.com/nba/nba/.element/img/4.0/global/logos/512x512/bg.white/svg/team_short_name
replace team_short_name with three letter name of th team. e.g. BOS for Boston

See Also

Other data: [nba_player_logo](#)

settings	<i>Modify components of slick settings</i>
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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,  
    swipeToSlide,  
    touchMove,  
    touchThreshold,  
    useCSS,  
    useTransform,  
    variableWidth,  
    vertical,  
    verticalSwiping,  
    rtl,  
    waitForAnimate,  
    zIndex,  
    ...  
  )
```

Arguments

<code>accessibility</code>	logical, Enables tabbing and arrow key navigation, Default: TRUE
<code>adaptiveHeight</code>	logical, Enables adaptive height for single slide horizontal carousels., Default: FALSE
<code>autoplay</code>	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)
prevArrow	character (htmljQuery selector) object (DOM node jQuery object), Allows you to select a node or customize the HTML for the "Previous" arrow., Default: <code><button type="button" class="slick-prev">Previous</button></code>
nextArrow	character (htmljQuery selector) object (DOM node jQuery object), Allows you to select a node or customize the HTML for the "Next" arrow., Default: <code><button type="button" class="slick-next">Next</button></code>
centerMode	logical, Enables centered view with partial prev/next slides. Use with odd numbered 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
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
pauseOnHover	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 initialized 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 slidesToScroll, Default: FALSE
touchMove	logical, Enable slide motion with touch, Default: TRUE
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
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
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
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/>.

Value

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

Examples

```
if(interactive()){
  slick <- slickR(obj=nba_team_logo$suri)
  slick
  # Use settings function to manipulate the slick object
```

```
# Add dots

slick + settings(dots = TRUE)

# Autoplay elements in the carousel

slick + settings(autoplay = TRUE, autoplaySpeed = 1000)

}
```

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.

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)

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(
  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]])  
  
}
```

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)
```

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

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

Details

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

Value

list of shiny tag objects

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	<i>List of DOM elements</i>
------------	-----------------------------

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)
```

<code>%synch%</code>	<i>Slick pipe operators</i>
----------------------	-----------------------------

Description

Pipe operators to combine plots by either stacking or syncing 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]])  
  
}
```

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