

# Package 'slickR'

October 1, 2019

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

**Version** 0.4.4

**Date** 2019-10-01

**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 used directly from the R console, from 'RStudio', 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** base64enc,  
htmltools,  
htmlwidgets,  
lifecycle,  
magick,  
tools,  
utils,  
xml2

**Suggests** jsonlite,  
knitr,  
pdftools,  
rmarkdown,  
stats,  
svglite,  
glue

**VignetteBuilder** knitr

**RdMacros** lifecycle

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**R topics documented:**

getHelp . . . . .	2
nba_player_logo . . . . .	2
nba_team_logo . . . . .	3
slickpdf . . . . .	3
slickR . . . . .	4
slickR-shiny . . . . .	6

<b>Index</b>	<b>7</b>
--------------	----------

---

getHelp	<i>getHelp</i> <b>Soft-deprecated</b>
---------	---------------------------------------

---

**Description**

return rd help file as html

**Usage**

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

**Arguments**

fn	character of function name
pkg	name of package that contains fn

**Value**

chracter

---

nba_player_logo	<i>nba_player_logo</i>
-----------------	------------------------

---

**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>

---

nba_team_logo	<i>nba_team_logo</i>
---------------	----------------------

---

**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](https://i.cdn.turner.com/nba/nba/.element/img/4.0/global/logos/512x512/bg.white/svg/team_short)

---

slickpdf	<i>convert pdf to slick</i>
----------	-----------------------------

---

**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 <a href="#">slickR</a>

**Details**

**pdftools** must be installed for function to work.

**Value**

slick

**See Also**

[image\\_read\\_pdf](#)

**Examples**

```
if(interactive()){
  url <- 'https://cran.r-project.org/web/packages/slickR/slickR.pdf'
  slickpdf(url)
  slickpdf(url, img_format = 'svg')
  slickpdf(url, url, img_format = 'svg')
  slickpdf(url, url, img_format = 'svg', height = 400, width = '90%')
  slickpdf(url, url, synch = FALSE, img_format = 'svg', height = 400, width = '90%')
}
```

---

slickR

*slick.js image carousel htmlwidget*

---

**Description**

use slick.js library in R

**Usage**

```
slickR(obj, slideId = "baseDiv", slideIdx = list(1:length(obj)),
  slideType = c("img"), slickOpts = list(dots = TRUE),
  padding = rep("1%", length(obj)), objLinks = NULL,
  synchSlides = NULL, dotObj = NULL, width = NULL, height = NULL,
  elementId = NULL)
```

**Arguments**

obj	character, vector of path or url to images
slideId	character, id of slide
slideIdx	list, numeric indices which images are mapped to which slider
slideType	character, type of object to put in slide
slickOpts	list, attributes for each slider, see details <b>Soft-deprecated</b>
padding	character, percent of width between each image in the carousel for each slider, Default: '1%'

objLinks	list, Named list corresponding to slideId containing links to attach to each element. If NULL then no links applied, Default: NULL
synchSlides	data.frame, rowwise pairs of slideId names of sliders are synchronized <b>Soft-deprecated</b>
dotObj	list, character vectors of url or images to replace dots with (see details)
width	character, width of htmlwidget
height	character, height of htmlwidget
elementId	character, id tag of htmlwidget

## Details

slick.js <http://kenwheeler.github.io/slick/> is an image carousel javascript library. To find all the attributes that can be used please refer to the link. To create more than one carousel input the attributes into a nested list eg slickOpts=list(list(slidesToShow=1,slideToScroll=1,arrows=F,fade=T),list(slidesToShow=3,slidesToScroll=1,dots=T,focusOnSelect=T,centerMode=T)). It is possible to synchronize the slides through the slickOpts calls, using asNavFor attribute. To replace the dots with icons use the dotObj argument to pass in the icon images and in the slickOpts add a custom-Paging 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.

## Examples

```

if(interactive()){
  slickR(obj=nba_team_logo$uri)

  # synching 3 groups

  # creating groups
  sx1 <- as.numeric(grepl('C',nba_team_logo$uri,ignore.case = FALSE))
  sx2 <- as.numeric(grepl('D',nba_team_logo$uri,ignore.case = FALSE))*2
  sx3 <- sx1 + sx2

  # split into list of size 3
  sIdx <- lapply(split(nba_team_logo$uri,sx3),function(x) match(x,nba_team_logo$uri))

  # synching logic (a,b) and (a,c)
  groups <- expand.grid(list('a',c('b','c')),stringsAsFactors = FALSE)

  slickR(obj = nba_team_logo$uri,
        slideId = c('a','b','c'),
        slideIdx = sx,
        slideType = rep('img',3),
        synchSlides = groups,
        height = 100)
}

```

---

`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**

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

# Index

## \*Topic **datasets**

nba\_player\_logo, [2](#)

nba\_team\_logo, [3](#)

getHelp, [2](#)

image\_read\_pdf, [4](#)

nba\_player\_logo, [2](#)

nba\_team\_logo, [3](#)

renderSlickR (slickR-shiny), [6](#)

slickpdf, [3](#)

slickR, [3](#), [4](#)

slickR-shiny, [6](#)

slickROutput (slickR-shiny), [6](#)