

Package: shinyChakraUI (via r-universe)

October 17, 2024

Title A Wrapper of the 'React' Library 'Chakra UI' for 'Shiny'

Version 1.1.1

Description Makes the 'React' library 'Chakra UI' usable in 'Shiny' apps. 'Chakra UI' components include alert dialogs, drawers (sliding panels), menus, modals, popovers, sliders, and more.

License GPL (>= 3)

Encoding UTF-8

URL <https://github.com/stla/shinyChakraUI>

BugReports <https://github.com/stla/shinyChakraUI/issues>

RoxygenNote 7.1.2

Imports htmltools, reactR, shiny, jsonlite, rlang, stringr, grDevices, utils, formatR, fontawesome

Suggests testthat (>= 3.0.0), V8

Config/testthat/edition 3

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

RemoteUrl <https://github.com/stla/shinychakraui>

RemoteRef HEAD

RemoteSha 122d7bc2dacabc6374778263f7772c58cdc70f76

Contents

chakraAlertDialog	2
chakraAlertDialogOptions	4
chakraCheckboxWithChildren	5
chakraColorSchemes	6
chakraCombinedSlider	7
chakraComponent	9
chakraDrawer	10
chakraDrawerOptions	12
chakraExample	13

chakraExamples	13
chakraIcons	14
chakraModal	14
chakraModalOptions	16
chakraPage	17
chakraPinInput	18
chakraRangeSlider	19
chakraSlider	21
createStandaloneToast	23
getHookProperty	25
getState	25
ionIcons	27
jseval	27
jsx	28
jsxString2code	30
numberInputOptions	31
setReactState	32
sliderMarkOptions	33
sliderThumbOptions	34
sliderTooltipOptions	35
superTinyIcons	36
Tag	36
useClipboard	37
useDisclosure	38
useRef	40
useToast	41
withStates	41
Index	44

chakraAlertDialog	<i>Alert dialog widget</i>
-------------------	----------------------------

Description

An alert dialog widget.

Usage

```
chakraAlertDialog(
  inputId,
  options = chakraAlertDialogOptions(),
  openButton,
  header,
  body,
  footer
)
```

Arguments

inputId	widget id
options	named list of options created with chakraAlertDialogOptions
openButton	a Chakra button to open the alert dialog
header	an AlertDialogHeader element
body	an AlertDialogBody element
footer	an AlertDialogFooter element; usually it contains some Chakra buttons (that you can group with <code>Tag\$ButtonGroup(...)</code>)

Details

You can use an action attribute and a value attribute to the Chakra buttons you put in the widget. For example, if you include the Chakra button `Tag$Button("Cancel", action = "cancel", value = "CANCEL")`, clicking this button will cancel the alert dialog and will set the Shiny value "CANCEL". Other possible action attributes are "close" to close the alert dialog, "disable" to disable the alert dialog, and "remove" to entirely remove the widget.

Value

A widget that can be used in [chakraComponent](#).

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    chakraAlertDialog(
      inputId = "alertDialog",
      openButton = Tag$Button(
        leftIcon = Tag$DeleteIcon(),
        colorScheme = "red",
        "Delete customer"
      ),
      header = Tag$AlertDialogHeader(
        fontSize = "lg",
        fontWeight = "bold",
        "Delete customer?"
      ),
      body = Tag$AlertDialogBody(
        "Are you sure? You can't undo this action afterwards."
      ),
      footer = Tag$AlertDialogFooter(
```

```

    Tag$ButtonGroup(
      spacing = "3",
      Tag$Button(
        action = "cancel",
        value = "CANCEL",
        "Cancel"
      ),
      Tag$Button(
        action = "disable",
        value = "DISABLE",
        colorScheme = "red",
        "Disable"
      ),
      Tag$Button(
        action = "remove",
        value = "REMOVE",
        "Remove"
      )
    )
  )
)
)
)

server <- function(input, output, session){

  observe({
    print(input[["alertDialog"]])
  })

}

if(interactive()){
  shinyApp(ui, server)
}

```

chakraAlertDialogOptions

Alert dialog options

Description

Options for the alert dialog widget ([chakraAlertDialog](#)).

Usage

```
chakraAlertDialogOptions(
  closeOnEsc = TRUE,
```

```

    colorScheme = "red",
    isCentered = TRUE,
    motionPreset = "scale",
    size = "md",
    ...
)

```

Arguments

closeOnEsc	whether to close the modal on pressing the 'esc' key
colorScheme	a Chakra color scheme
isCentered	whether to center the modal on screen
motionPreset	transition that should be used for the modal; one of "scale", "none", "slideInBottom", or "slideInRight"
size	modal size, "sm", "md", "lg", "xl", "2xl", "full", "xs", "3xl", "4xl", "5xl", or "6xl"
...	other attributes of AlertDialog

Value

A named list, for usage in [chakraAlertDialog](#).

chakraCheckboxWithChildren

Checkbox with child checkboxes

Description

A widget with a parent checkbox and child checkboxes.

Usage

```

chakraCheckboxWithChildren(
  inputId,
  parentCheckbox,
  ...,
  stackAttributes = list(pl = 6, mt = 1, spacing = 1)
)

```

Arguments

inputId	widget id
parentCheckbox	the parent checkbox
...	the child checkboxes
stackAttributes	list of attributes which control the layout

Value

A widget to use in `chakraComponent`.

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(
  br(),
  chakraComponent(
    "mycomponent",
    chakraCheckboxWithChildren(
      "cwc",
      Tag$Checkbox(
        "Parent checkbox"
      ),
      Tag$Checkbox(
        "Child checkbox 1"
      ),
      Tag$Checkbox(
        defaultChecked = TRUE,
        "Child checkbox 2"
      )
    )
  )
)

server <- function(input, output, session){
  observe({
    print(input[["cwc"]])
  })
}

if(interactive()){
  shinyApp(ui, server)
}
```

chakraColorSchemes *Chakra color schemes*

Description

List of Chakra color schemes (to use as a colorScheme attribute in e.g. Chakra buttons).

Usage

```
chakraColorSchemes()
```

Value

The names of the Chakra color schemes in a vector.

Examples

```
chakraColorSchemes()
```

chakraCombinedSlider *Combined slider and number input*

Description

A widget combining a slider and a number input.

Usage

```
chakraCombinedSlider(  
  id,  
  value,  
  min,  
  max,  
  step = NULL,  
  maxWidth = "400px",  
  numericInputOptions = numberInputOptions(),  
  spacing = "2rem",  
  keepWithinRange = TRUE,  
  clampValueOnBlur = TRUE,  
  focusThumbOnChange = FALSE,  
  trackColor = NULL,  
  filledTrackColor = NULL,  
  tooltip = TRUE,  
  tooltipOptions = sliderTooltipOptions(),  
  thumbOptions = sliderThumbOptions(),  
  ...  
)
```

Arguments

id	widget id
value	initial value
min	minimal value
max	maximal value

step	increment step
maxWidth	slider width
numericInputOptions	list of options for the number input created with numberInputOptions
spacing	the space between the number input and the slider
keepWithinRange	whether to forbid the value to exceed the max or go lower than min
clampValueOnBlur	similar to keepWithinRange
focusThumbOnChange	whether to focus the thumb on change
trackColor	color of the slider track
filledTrackColor	color of the filled slider track
tooltip	whether to set a tooltip to the thumb, to show the value
tooltipOptions	options of the tooltip, a list created with sliderTooltipOptions
thumbOptions	list of options for the thumb created with sliderThumbOptions
...	other attributes passed to Slider

Value

A widget to use in [chakraComponent](#).

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(), br(),

  chakraComponent(
    "mycomponent",

    chakraCombinedSlider(
      "slider",
      value = 5,
      min = 0,
      max = 10,
      step = 0.5,
      maxWidth = "300px",
      tooltip = TRUE,
      trackColor = "green.300",
      thumbOptions = sliderThumbOptions(
        width = 20, height = 20,
        borderColor = "firebrick", borderWidth = "3px"
      )
    )
  )
)
```



```
    )
  )
)

server <- function(input, output, session){
  observe({
    print(input[["slider"]])
  })
}

if(interactive()){
  shinyApp(ui, server)
}
```

chakraComponent	<i>Chakra component</i>
-----------------	-------------------------

Description

Create a Chakra component.

Usage

```
chakraComponent(componentId, ...)
```

Arguments

componentId	component id
...	elements to include within the component

Value

A Shiny widget to use in a UI definition, preferably in [chakraPage](#).

chakraDrawer	<i>Drawer widget</i>
--------------	----------------------

Description

Create a drawer widget, a panel that slides out from the edge of the screen.

Usage

```
chakraDrawer(  
  inputId,  
  openButton,  
  options = chakraDrawerOptions(),  
  isOpen = FALSE,  
  closeButton = TRUE,  
  header,  
  body,  
  footer  
)
```

Arguments

inputId	widget id
openButton	a Chakra button to open the drawer
options	list of options created with chakraDrawerOptions
isOpen	Boolean, whether the drawer is initially open
closeButton	Boolean, whether to include a closing button
header	a DrawerHeader element
body	a DrawerBody element
footer	a DrawerFooter element

Details

Similarly to [chakraAlertDialog](#), you can set an action attribute and a value attribute to the Chakra buttons you include in the Chakra drawer.

Value

A widget to use in [chakraComponent](#).

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    chakraDrawer(
      "drawer",
      openButton = Tag$Button("Open Drawer"),
      options = chakraDrawerOptions(placement = "right"),
      header = Tag$DrawerHeader("I'm the header"),
      body = Tag$DrawerBody(
        Tag$Box("I'm the body")
      ),
      footer = Tag$DrawerFooter(
        Tag$ButtonGroup(
          spacing = "6",
          Tag$Button(
            value = "try me",
            "Try me"
          ),
          Tag$Button(
            action = "close",
            variant = "outline",
            "Close"
          )
        )
      )
    )
  )
)

server <- function(input, output, session){

  observe({
    print(input[["drawer"]])
  })

}

if(interactive()){
  shinyApp(ui, server)
}
```

chakraDrawerOptions *Drawer options*

Description

Options for the drawer widget ([chakraDrawer](#)).

Usage

```
chakraDrawerOptions(  
  closeOnEsc = TRUE,  
  closeOnOverlayClick = TRUE,  
  colorScheme = NULL,  
  isCentered = FALSE,  
  isFullHeight = FALSE,  
  motionPreset = "scale",  
  placement = "right",  
  size = "xs",  
  ...  
)
```

Arguments

<code>closeOnEsc</code>	whether to close the panel on pressing the 'esc' key
<code>closeOnOverlayClick</code>	whether to close the panel on clicking the overlay
<code>colorScheme</code>	a chakra color scheme
<code>isCentered</code>	whether to center the modal on screen
<code>isFullHeight</code>	if TRUE and drawer's placement is "top" or "bottom", the drawer will occupy the viewport height
<code>motionPreset</code>	transition that should be used for the modal; one of "scale", "none", "slideInBottom", or "slideInRight"
<code>placement</code>	placement of the drawer, "top", "right", "bottom", or "left"
<code>size</code>	modal size, "sm", "md", "lg", "xl", "2xl", "full", "xs", "3xl", "4xl", "5xl", or "6xl"
<code>...</code>	other attributes of Drawer

Value

A named list, for usage in [chakraDrawer](#).

chakraExample	<i>Run a Chakra example</i>
---------------	-----------------------------

Description

A function to run examples of Shiny apps with Chakra components.

Usage

```
chakraExample(example, display.mode = "showcase", ...)
```

Arguments

example	example name
display.mode	the display mode to use when running the example; see runApp
...	arguments passed to runApp

Value

No return value, just launches a Shiny app.

Examples

```
if(interactive()){  
  chakraExample("Menu")  
}
```

chakraExamples	<i>Chakra examples</i>
----------------	------------------------

Description

List of Chakra examples.

Usage

```
chakraExamples()
```

Value

No return value, only prints a message listing the Chakra examples.

Examples

```
chakraExamples()  
if(interactive()){  
  chakraExample("MenuWithGroups")  
}
```

`chakraIcons`*Chakra icons*

Description

List of Chakra icons.

Usage

```
chakraIcons()
```

Details

See [all chakra icons](#).

Value

The names of the Chakra icons in a vector.

Examples

```
chakraIcons()
```

`chakraModal`*Modal widget*

Description

A modal widget.

Usage

```
chakraModal(  
  inputId,  
  options = chakraModalOptions(),  
  openButton,  
  isOpen = FALSE,  
  header,  
  body,  
  footer  
)
```

Arguments

inputId	widget id
options	named list of options created with chakraModalOptions
openButton	a Chakra button to open the modal
isOpen	whether the modal is initially open
header	a ModalHeader element
body	a ModalBody element
footer	a ModalFooter element; usually it contains some Chakra buttons (that you can group with <code>Tag\$ButtonGroup(...)</code>)

Details

You can use an `action` attribute and a `value` attribute to the Chakra buttons you put in the widget. For example, if you include the Chakra button `Tag$Button("Close", action = "close", value = "CLOSE")`, clicking this button will close the modal and will set the Shiny value "CLOSE". Other possible action attributes are "cancel" to cancel, "disable" to disable the modal, and "remove" to entirely remove the modal.

Value

A widget that can be used in [chakraComponent](#).

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    chakraModal(
      inputId = "modal",
      openButton = Tag$Button(
        colorScheme = "orange",
        "Open Modal"
      ),
      header = Tag$ModalHeader(
        fontSize = "lg",
        fontWeight = "bold",
        "Modal title"
      ),
      body = Tag$ModalBody(
        "Sit nulla est ex deserunt exercitation anim occaecat."
      ),
      footer = Tag$ModalFooter(
```

```

    Tag$ButtonGroup(
      spacing = "3",
      Tag$Button(
        action = "close",
        value = "CLOSE",
        "Close"
      ),
      Tag$Button(
        action = "cancel",
        colorScheme = "red",
        "Cancel"
      )
    )
  )
)
)
)

server <- function(input, output, session){

  observe({
    print(input[["modal"]])
  })

}

if(interactive()){
  shinyApp(ui, server)
}

```

chakraModalOptions *Modal options*

Description

Options for the modal widget ([chakraModal](#)).

Usage

```

chakraModalOptions(
  closeOnEsc = TRUE,
  isCentered = TRUE,
  motionPreset = "scale",
  size = "md",
  ...
)

```


Arguments

closeOnEsc	whether to close the modal on pressing the 'esc' key
isCentered	whether to center the modal on screen
motionPreset	transition that should be used for the modal; one of "scale", "none", "slideInBottom", or "slideInRight"
size	modal size, "sm", "md", "lg", "xl", "2xl", "full", "xs", "3xl", "4xl", "5xl", or "6xl"
...	other attributes of Modal

Value

A named list, for usage in [chakraModal](#).

chakraPage

Chakra page

Description

Function to be used as the ui element of a Shiny app; it is intended to contain some [chakraComponent](#) elements.

Usage

```
chakraPage(...)
```

Arguments

... elements to include within the page

Value

A UI definition that can be passed to the [shinyUI](#) function.

chakraPinInput	<i>Pin input</i>
----------------	------------------

Description

Create a pin input widget.

Usage

```
chakraPinInput(
  id,
  label = NULL,
  nfields,
  type = "alphanumeric",
  size = "md",
  mask = FALSE,
  defaultValue = ""
)
```

Arguments

id	input id
label	optional label
nfields	number of fields
type	either "alphanumeric" or "number"
size	one of "xs", "sm", "md", "lg"
mask	Boolean, whether to mask the user inputs (like a password input)
defaultValue	default value, can be partial

Value

A widget to use in [chakraComponent](#).

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(
  br(),
  chakraComponent(
    "mycomponent",
    chakraPinInput(
      "pininput", label = tags$h2("Enter password"),
      nfields = 3, mask = TRUE
    )
  )
)
```

```
)  
)  
  
server <- function(input, output, session){  
  
  observe({  
    print(input[["pininput"]])  
  })  
  
}  
  
if(interactive()){  
  shinyApp(ui, server)  
}
```

chakraRangeSlider	<i>Chakra range slider</i>
-------------------	----------------------------

Description

Create a Chakra range slider.

Usage

```
chakraRangeSlider(  
  id,  
  label = NULL,  
  values,  
  min,  
  max,  
  step = NULL,  
  width = NULL,  
  size = "md",  
  colorScheme = "blue",  
  orientation = "horizontal",  
  focusThumbOnChange = TRUE,  
  isDisabled = FALSE,  
  isReadOnly = FALSE,  
  isReversed = FALSE,  
  trackColor = NULL,  
  filledTrackColor = NULL,  
  tooltip = TRUE,  
  tooltipOptions = sliderTooltipOptions(),  
  thumbOptionsLeft = sliderThumbOptions(),  
  thumbOptionsRight = sliderThumbOptions(),  
  shinyValueOn = "end",  
  ...  
)
```

Arguments

id	widget id
label	label (optional)
values	the two initial values
min	minimal value
max	maximal value
step	increment step
width	slider width
size	size, "sm", "md", or "lg"
colorScheme	a Chakra color scheme
orientation	slider orientation, "horizontal" or "vertical"
focusThumbOnChange	whether to focus the thumb on change
isDisabled	whether to disable the slider
isReadOnly	read only mode
isReversed	whether to reverse the slider
trackColor	color of the track
filledTrackColor	color of the filled track
tooltip	whether to set a tooltip to the thumb
tooltipOptions	options of the tooltip, a list created with sliderTooltipOptions
thumbOptionsLeft	list of options for the left thumb, created with sliderThumbOptions
thumbOptionsRight	list of options for the right thumb, created with sliderThumbOptions
shinyValueOn	either "drag" or "end", the moment to get the Shiny value
...	other attributes passed to RangeSlider

Value

A widget to use in [chakraComponent](#).

Examples

```
# Run `chakraExample("RangeSlider")` to see a better example.
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(
  br(),
  chakraComponent(
```

```

    "mycomponent",

    chakraRangeSlider(
      "slider",
      label = HTML("<span style='color:red'>Hello range slider!</span>"),
      values = c(2, 8),
      min = 0,
      max = 10,
      width = "50%",
      tooltip = TRUE,
      tooltipOptions = sliderTooltipOptions(placement = "bottom"),
      shinyValueOn = "end"
    )
  )
)

server <- function(input, output, session){

  observe({
    print(input[["slider"]])
  })

}

if(interactive()){
  shinyApp(ui, server)
}

```

chakraSlider

Chakra slider

Description

Create a Chakra slider.

Usage

```

chakraSlider(
  id,
  label = NULL,
  value,
  min,
  max,
  step = NULL,
  width = NULL,
  size = "md",
  colorScheme = "blue",

```

```

orientation = "horizontal",
focusThumbOnChange = TRUE,
isDisabled = FALSE,
isReadOnly = FALSE,
isReversed = FALSE,
trackColor = NULL,
filledTrackColor = NULL,
mark = FALSE,
markOptions = sliderMarkOptions(),
tooltip = TRUE,
tooltipOptions = sliderTooltipOptions(),
thumbOptions = sliderThumbOptions(),
shinyValueOn = "end",
...
)

```

Arguments

id	widget id
label	label (optional)
value	initial value
min	minimal value
max	maximal value
step	increment step
width	slider width
size	size, "sm", "md", or "lg"
colorScheme	a Chakra color scheme
orientation	slider orientation, "horizontal" or "vertical"
focusThumbOnChange	whether to focus the thumb on change
isDisabled	whether to disable the slider
isReadOnly	read only mode
isReversed	whether to reverse the slider
trackColor	color of the track
filledTrackColor	color of the filled track
mark	whether to set a mark to the thumb (I personally prefer the tooltip)
markOptions	options of the mark, a list created with sliderMarkOptions
tooltip	whether to set a tooltip to the thumb
tooltipOptions	options of the tooltip, a list created with sliderTooltipOptions
thumbOptions	list of options for the thumb created with sliderThumbOptions
shinyValueOn	either "drag" or "end", the moment to get the Shiny value
...	other attributes passed to Slider

Value

A widget to use in `chakraComponent`.

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    chakraSlider(
      "slider",
      label = HTML("<span style='color:red'>Hello slider!</span>"),
      value = 5,
      min = 0,
      max = 10,
      width = "50%",
      tooltip = TRUE,
      shinyValueOn = "end"
    )
  )
)

server <- function(input, output, session){

  observe({
    print(input[["slider"]])
  })

}

if(interactive()){
  shinyApp(ui, server)
}
```

createStandaloneToast *The 'createStandaloneToast' hook*

Description

The 'createStandaloneToast' hook.

Usage

```
createStandaloneToast()
```

Details

See [Standalone toasts](#).

Value

A list containing some URL-encoded JavaScript code.

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(
  br(),

  chakraComponent(
    "mycomponent",

    withStates(
      Tag$Button(
        colorScheme = "orange",
        size = "lg",
        onClick = jseval(paste(
          '() => {' ,
          '  const toast = getState("toast");',
          '  toast({' ,
          '    position: "bottom",',
          '    title: "Account created.",',
          '    description: "We have created your account for you.",',
          '    status: "success",',
          '    duration: 3000,',
          '    isClosable: true',
          '  });',
          '}',
          sep = "\n")),

        "Show toast"
      ),

      states = list(toast = createStandaloneToast())
    )
  )
)
```



```
server <- function(input, output, session){  
  
  if(interactive()){  
    shinyApp(ui, server)  
  }  
}
```

getHookProperty *Get hook property*

Description

Chakra hooks are JavaScript objects; this function allows to get a property (key) of a hook. See [useDisclosure](#) for an example.

Usage

```
getHookProperty(hook, property)
```

Arguments

hook	the name of the hook, usually created in the states list of the withStates function
property	the hook property you want to get

Value

A list like the return value of [jseval](#).

getState *Get React state*

Description

Get the value of a React state.

Usage

```
getState(state)
```

Arguments

state	name of the state
-------	-------------------

Value

A list like the return value of [jseval](#).

See Also[withStates](#)**Examples**

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    withStates(
      Tag$Fragment(

        Tag$Box(
          bg = "yellow.100",
          fontSize = "30px",
          width = "50%",
          getState("boxtext")
        ),

        br(),
        Tag$Divider(),
        br(),

        Tag$Button(
          colorScheme = "telegram",
          size = "lg",
          onClick = jseval('( ) => setState("boxtext", "Hello Chakra)'),
          "Change box text"
        )
      ),

      states = list(boxtext = "I am the box text")
    )
  )
)

server <- function(input, output, session){

  if(interactive()){
    shinyApp(ui, server)
  }
}
```

`ionIcons`*Ionicons*

Description

List of ionicons.

Usage

```
ionIcons()
```

Details

See [ionicons website](#).

Value

The names of the ionicons in a vector.

Examples

```
ionIcons()
```

`jseval`*Evaluate JS code*

Description

Evaluate JavaScript code in the application.

Usage

```
jseval(code)
```

Arguments

`code` JavaScript code given as a string

Value

A list containing the URL-encoded JavaScript code.

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    Tag$Button(
      colorScheme = "pink",
      size = "lg",
      onClick = jseval('() => alert("Hello Chakra)'),
      "Trigger alert"
    )
  )
)

server <- function(input, output, session){

  if(interactive()){
    shinyApp(ui, server)
  }
}
```

jsx

JSX element

Description

Create a JSX element.

Usage

```
jsx(element, preamble = "")
```

Arguments

element	the JSX element given as a string
preamble	JavaScript code to run before, given as a string

Value

A list containing the URL-encoded strings element and preamble.

Examples

```

library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  chakraComponent(
    "mycomponent",

    jsx(paste(
      '<>',
      ' <Button onClick={onOpen}>Open Modal</Button>',
      ' <Modal isOpen={isOpen} onClose={onClose}>',
      '   <ModalOverlay />',
      '   <ModalContent>',
      '     <ModalHeader>Modal Title</ModalHeader>',
      '     <ModalCloseButton />',
      '     <ModalBody>',
      '       Sit nulla est ex deserunt exercitation anim occaecat.',
      '     </ModalBody>',
      '     <ModalFooter>',
      '       <Button colorScheme="blue" mr={3} onClick={onClose}>',
      '         Close',
      '       </Button>',
      '       <Button variant="ghost" onClick={setShinyValue}>',
      '         Secondary Action',
      '       </Button>',
      '     </ModalFooter>',
      '   </ModalContent>',
      ' </Modal>',
      '</>',
      sep = "\n"
    ),
  ),

  preamble = paste(
    'const { isOpen, onOpen, onClose } = useDisclosure();',
    'const setShinyValue = () => Shiny.setInputValue("modal", "action");',
    sep = "\n"
  )
))

server <- function(input, output, session){

  observe({
    print(input[["modal"]])
  })
}

```

```
if(interactive()){  
  shinyApp(ui, server)  
}
```

jsxString2code *JSX string to React component code*

Description

Given a JSX string, this function prints the code of the corresponding React component that can be used in [chakraComponent](#).

Usage

```
jsxString2code(jsxString, clipboard = TRUE)
```

Arguments

jsxString	JSX code given as a string
clipboard	whether to copy the output to the clipboard

Value

No return value, only prints the code in the console and copy it to the clipboard if `clipboard = TRUE`.

Note

Instead of using this function, rather use the RStudio addin provided by the package. Simply copy some JSX code to your clipboard, and select the 'JSX parser' addin in the RStudio Addins menu.

Examples

```
jsxString <- '<Input type="email" id="myinput" />'  
jsxString2code(jsxString)  
jsxString <- '<Button onClick={() => alert("hello")}>Hello</Button>'  
jsxString2code(jsxString)
```

numberInputOptions	<i>Options for the number input of the combined Chakra slider</i>
--------------------	---

Description

Create a list of options to be passed to the `numericInputOptions` argument in [chakraCombinedSlider](#).

Usage

```
numberInputOptions(  
  precision = NULL,  
  maxWidth = "80px",  
  fontSize = NULL,  
  fontColor = NULL,  
  borderColor = NULL,  
  focusBorderColor = NULL,  
  borderWidth = NULL,  
  incrementStepperColor = NULL,  
  decrementStepperColor = NULL,  
  ...  
)
```

Arguments

<code>precision</code>	number of decimal points
<code>maxWidth</code>	width of the number input, e.g. "100px" or "20%"
<code>fontSize</code>	font size of the displayed value, e.g. "15px"
<code>fontColor</code>	color of the displayed value
<code>borderColor</code>	color of the border of the number input
<code>focusBorderColor</code>	color of the border of the number input on focus
<code>borderWidth</code>	width of the border of the number input, e.g. "3px" or "medium"
<code>incrementStepperColor</code>	color of the increment stepper
<code>decrementStepperColor</code>	color of the decrement stepper
<code>...</code>	other attributes of <code>NumberInput</code>

Value

A list of options to be passed to the `numericInputOptions` argument in [chakraCombinedSlider](#).

setReactState	<i>Set a React state</i>
---------------	--------------------------

Description

Set a React state from the Shiny server.

Usage

```
setReactState(session, componentId, stateName, value)
```

Arguments

session	Shiny session object
componentId	the id of the chakraComponent which contains the state to be changed
stateName	the name of the state to be set
value	the new value of the state; it can be an R object serializable to JSON, a React component, a JSX element created with the jsx function, a Shiny widget, or some HTML code created with the HTML function

Value

No return value, called for side effect.

See Also

[withStates](#)

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(

  br(),

  chakraComponent(
    "mycomponent",

    Tag$Button(
      id = "button",
      className = "action-button",
      colorScheme = "facebook",
      display = "block",
      onClick = jseval("(event) => {event.target.disabled = true}"),
      "Click me to change the content of the container"
    ),
  ),
```



```
br(),
Tag$Divider(),
br(),

withStates(

  Tag$Container(
    maxW = "x1",
    centerContent = TRUE,
    bg = "yellow.100",
    getState("containerContent")
  ),

  states = list(containerContent = "I am the container content.")
)

)

)

server <- function(input, output, session){

  observeEvent(input[["button"]], {

    setReactState(
      session = session,
      componentId = "mycomponent",
      stateName = "containerContent",
      value = Tag$Box(
        padding = "4",
        maxW = "3x1",
        fontStyle = "italic",
        fontWeight = "bold",
        borderWidth = "2px",
        "I am the new container content, included in a Box."
      )
    )

  })

}

if(interactive()){
  shinyApp(ui, server)
}
```

Description

Define the options for the slider mark.

Usage

```
sliderMarkOptions(
  textAlign = "center",
  backgroundColor = "blue.500",
  textColor = "white",
  margin = "-35px 0 0 -25px",
  padding = "0 10px",
  width = "50px",
  ...
)
```

Arguments

textAlign	text alignment
backgroundColor	background color
textColor	text color
margin	margin (CSS property)
padding	padding (CSS property)
width	width
...	other attributes passed to SliderMark

Value

A list of attributes for usage in [chakraSlider](#).

sliderThumbOptions	<i>Slider thumb options</i>
--------------------	-----------------------------

Description

Define the Chakra slider thumb options.

Usage

```
sliderThumbOptions(
  width = NULL,
  height = NULL,
  color = NULL,
  borderColor = NULL,
  borderWidth = NULL,
  ...
)
```

Arguments

width	thumb width
height	thumb height
color	thumb color
borderColor	thumb border color
borderWidth	thumb border width
...	other attributes passed to SliderThumb

Value

A list of attributes for usage in [chakraSlider](#), [chakraCombinedSlider](#), or [chakraRangeSlider](#).

sliderTooltipOptions *Slider tooltip options*

Description

Define the slider tooltip options.

Usage

```
sliderTooltipOptions(
  hasArrow = TRUE,
  backgroundColor = "red.600",
  color = "white",
  placement = "top",
  closeOnClick = FALSE,
  isOpen = TRUE,
  ...
)
```

Arguments

hasArrow	whether to include an arrow
backgroundColor	background color
color	content color
placement	tooltip placement; see tooltip placement
closeOnClick	whether to close the tooltip on click
isOpen	whether the tooltip is open
...	other attributes passed to Tooltip

Value

A list of attributes for usage in [chakraSlider](#), [chakraCombinedSlider](#), or [chakraRangeSlider](#).

superTinyIcons	<i>Super tiny icons</i>
----------------	-------------------------

Description

List of super tiny icons.

Usage

```
superTinyIcons()
```

Details

See [all super tiny icons](#).

Value

The names of the super tiny icons in a vector.

Examples

```
superTinyIcons()
```

Tag	<i>React component builder</i>
-----	--------------------------------

Description

Create a React component. This is similar to [React](#).

Usage

```
Tag
```

Format

An object of class ReactTagBuilder of length 0.

Examples

```
Tag$Box(  
  bg = "tomato",  
  Tag$ButtonGroup(  
    spacing = "4",  
    Tag$Button(  
      "I'm a button"  
    ),  
    Tag$Button(  
      "I'm another button"  
    )  
  )  
)  
)
```

useClipboard

The 'useClipboard' hook

Description

The 'useClipboard' hook.

Usage

```
useClipboard(value)
```

Arguments

value a string

Details

See [useClipboard](#).

Value

A list containing some URL-encoded JavaScript code.

See Also

[getHookProperty](#)

Examples

```
library(shiny)  
library(shinyChakraUI)  
  
ui <- chakraPage(  
  br(),
```

```

chakraComponent(
  "mycomponent",

  withStates(
    Tag$Box(
      width = "50%",

      Tag$Flex(
        mb = 2,
        Tag$Input(
          readOnly = TRUE,
          value = getHookProperty("clipboard", "value")
        ),
        Tag$Button(
          ml = 2,
          onClick = getHookProperty("clipboard", "onCopy"),
          jseval('getState("hasCopied") ? "Copied" : "Copy"')
        )
      ),

      br(),
      Tag$Divider(),
      br(),

      Tag$Editable(
        bg = "yellow.100",
        placeholder = "Paste here",
        Tag$EditablePreview(),
        Tag$EditableInput()
      )
    ),

    states = list(
      clipboard = useClipboard("Hello Chakra"),
      hasCopied = getHookProperty("clipboard", "hasCopied")
    )
  )
)

server <- function(input, output, session){

  if(interactive()){
    shinyApp(ui, server)
  }
}

```

Description

The 'useDisclosure' hook.

Usage

```
useDisclosure(defaultIsOpen = FALSE)
```

Arguments

`defaultIsOpen` Boolean, the initial value of the `isOpen` property

Details

See [useDisclosure](#).

Value

A list containing some URL-encoded JavaScript code.

See Also

[getHookProperty](#)

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(
  br(),
  chakraComponent(
    "mycomponent",
    withStates(
      Tag$Fragment(
        Tag$Button(
          colorScheme = "teal",
          variant = "outline",
          onClick = getHookProperty("disclosure", "onToggle"),
          "Click me!"
        ),
        Tag$Fade(
          "in" = getHookProperty("disclosure", "isOpen"),
          Tag$Box(
            p = "40px",
            color = "white",
            mt = "4",
```

```
        bg = "teal.500",
        rounded = "md",
        shadow = "md",
        "Fade"
      )
    )
  ),
  states = list(disclosure = useDisclosure())
)
)
)

server <- function(input, output, session){

  if(interactive()){
    shinyApp(ui, server)
  }
}
```

useRef

The 'useRef' hook

Description

The React 'useRef' hook.

Usage

```
useRef(initialValue = NA)
```

Arguments

`initialValue` optional initial value

Value

A list like the return value of [jseval](#).

`useToast`*The 'useToast' hook*

Description

The 'useToast' hook.

Usage

```
useToast()
```

Value

A list containing some URL-encoded JavaScript code.

Note

It does not work well. Use [createStandaloneToast](#) instead.

`withStates`*Chakra component with states or hooks*

Description

Create a Chakra component with React states and/or hooks.

Usage

```
withStates(component, states)
```

Arguments

<code>component</code>	a React component
<code>states</code>	named list of states; a state value can be an R object serializable to JSON, a React component (<code>Tag\$Component(...)</code>), a Shiny widget, some HTML code defined by the HTML function, a JSX element defined by the jsx function, a JavaScript value defined by the jseval function, or a hook such as <code>useDisclosure()</code> (see useDisclosure).

Value

A component to use in [chakraComponent](#).

Examples

```
library(shiny)
library(shinyChakraUI)

ui <- chakraPage(
  br(),
  chakraComponent(
    "mycomponent",
    withStates(
      Tag$Fragment(
        Tag$Container(
          maxW = "x1",
          centerContent = TRUE,
          bg = "orange.50",
          Tag$Heading(
            getState("heading")
          ),
          Tag$Text(
            "I'm just some text."
          )
        ),
        br(),
        Tag$Divider(),
        br(),
        Tag$Button(
          colorScheme = "twitter",
          display = "block",
          onClick = jseval(
            "() => setState('heading', 'I am the new heading.')"
          ),
          "Click me to change the heading"
        )
      ),
      states = list(heading = "I am the heading.")
    )
  )
)

server <- function(input, output, session){}
```

```
if(interactive()){  
  shinyApp(ui, server)  
}
```

Index

* datasets

Tag, [36](#)

[chakraAlertDialog](#), [2](#), [4](#), [5](#), [10](#)
[chakraAlertDialogOptions](#), [3](#), [4](#)
[chakraCheckboxWithChildren](#), [5](#)
[chakraColorSchemes](#), [6](#)
[chakraCombinedSlider](#), [7](#), [31](#), [35](#)
[chakraComponent](#), [3](#), [6](#), [8](#), [9](#), [10](#), [15](#), [17](#), [18](#),
[20](#), [23](#), [30](#), [32](#), [41](#)
[chakraDrawer](#), [10](#), [12](#)
[chakraDrawerOptions](#), [10](#), [12](#)
[chakraExample](#), [13](#)
[chakraExamples](#), [13](#)
[chakraIcons](#), [14](#)
[chakraModal](#), [14](#), [16](#), [17](#)
[chakraModalOptions](#), [15](#), [16](#)
[chakraPage](#), [9](#), [17](#)
[chakraPinInput](#), [18](#)
[chakraRangeSlider](#), [19](#), [35](#)
[chakraSlider](#), [21](#), [34](#), [35](#)
[createStandaloneToast](#), [23](#), [41](#)

[getHookProperty](#), [25](#), [37](#), [39](#)
[getState](#), [25](#)

HTML, [32](#), [41](#)

[ionIcons](#), [27](#)

[jseval](#), [25](#), [27](#), [40](#), [41](#)
[jsx](#), [28](#), [32](#), [41](#)
[jsxString2code](#), [30](#)

[numberInputOptions](#), [8](#), [31](#)

React, [36](#)
[runApp](#), [13](#)

[setReactState](#), [32](#)
[shinyUI](#), [17](#)

[sliderMarkOptions](#), [22](#), [33](#)
[sliderThumbOptions](#), [8](#), [20](#), [22](#), [34](#)
[sliderTooltipOptions](#), [8](#), [20](#), [22](#), [35](#)
[superTinyIcons](#), [36](#)

Tag, [36](#)

[useClipboard](#), [37](#)
[useDisclosure](#), [25](#), [38](#), [41](#)
[useRef](#), [40](#)
[useToast](#), [41](#)

[withStates](#), [25](#), [26](#), [32](#), [41](#)