

# Package ‘shinyjqui’

July 25, 2018

**Type** Package

**Title** 'jQuery UI' Interactions and Effects for Shiny

**Version** 0.3.2

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**Description** An extension to shiny that brings interactions and animation effects from 'jQuery UI' library.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 3.2.0)

**Imports** shiny (>= 0.14.0), htmltools, htmlwidgets, jsonlite

**Suggests** ggplot2, highcharter, knitr, rmarkdown

**URL** <https://github.com/yang-tang/shinyjqui>

**BugReports** <https://github.com/yang-tang/shinyjqui/issues>

**RoxygenNote** 6.0.1

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2018-07-25 13:10:03 UTC

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Animation\_effects      *Animation effects.*

---

## Description

Allow element(s) to show animation effects.

- jquery\_effect(): Apply an animation effect to matched element(s).
- jquery\_hide(): Hide the matched element(s) with animation effect.
- jquery\_show(): Display the matched element(s) with animation effect.
- jquery\_toggle(): Display or hide the matched element(s) with animation effect.

## Usage

```
jquery_effect(selector, effect, options = NULL, duration = 400,
  complete = NULL)
```

```
jquery_show(selector, effect, options = NULL, duration = 400,
  complete = NULL)
```

```
jquery_hide(selector, effect, options = NULL, duration = 400,
  complete = NULL)
```

```
jquery_toggle(selector, effect, options = NULL, duration = 400,
  complete = NULL)
```

## Arguments

selector	Deprecated, just keep for backward compatibility. Please use ui and operation parameters instead.
effect	A string indicating which <b>animation effect</b> to use for the transition.
options	A list of effect-specific <b>properties</b> and <b>easing</b> .
duration	A string or number determining how long the animation will run.
complete	A function to call once the animation is complete, called once per matched element.

## Details

These functions are R wrappers of `effect()`, `hide()`, `show()` and `toggle()` from jQuery UI library. They should be used in server of a shiny document.

## Examples

```
## Not run:
# in shiny ui create a plot
plotOutput('foo')

# in shiny server apply a 'bounce' effect to the plot
jquery_effect('#foo', 'bounce')

# in shiny server hide the plot with a 'fold' effect
jquery_hide('#foo', 'fold')

# in shiny server show the plot with a 'blind' effect
jquery_show('#foo', 'blind')

## End(Not run)
```

---

Class\_effects

*Class effects.*

---

## Description

Manipulate specified class(es) to matched elements while animating all style changes.

- `jquery_add_class()`: Add class(es).
- `jquery_remove_class()`: Remove class(es).
- `jquery_switch_class()`: Switch class(es).

## Usage

```
jquery_add_class(selector, className, duration = 400, easing = "swing",
  complete = NULL)
```

```
jquery_remove_class(selector, className, duration = 400, easing = "swing",
  complete = NULL)
```

```
jquery_switch_class(selector, removeClassName, addClassName, duration = 400,
  easing = "swing", complete = NULL)
```

**Arguments**

selector	Deprecated, just keep for backward compatibility. Please use ui and operation parameters instead.
className	One or more class names (space separated) to be added to or removed from the class attribute of each matched element.
duration	A string or number determining how long the animation will run.
easing	A string indicating which <b>easing</b> function to use for the transition.
complete	A js function to call once the animation is complete, called once per matched element.
removeClassName	One or more class names (space separated) to be removed from the class attribute of each matched element.
addClassName	One or more class names (space separated) to be added to the class attribute of each matched element.

**Details**

These functions are the R wrappers of **addClass()**, **removeClass()** and **switchClass()** from jQuery UI library. They should be used in server of a shiny app.

**Examples**

```
## Not run:
# in shiny ui create a span
tags$span(id = 'foo', 'class animation demo')

# in shiny server add class 'lead' to the span
jquery_add_class('#foo', className = 'lead')

## End(Not run)
```

---

draggableModalDialog *Create a draggable modal dialog UI*

---

**Description**

This creates the UI for a modal dialog similar to [shiny::modalDialog](#) except its content is draggable.

**Usage**

```
draggableModalDialog(..., title = NULL,
  footer = shiny::modalButton("Dismiss"), size = c("m", "s", "l"),
  easyClose = FALSE, fade = TRUE)
```

**Arguments**

...	UI elements for the body of the modal dialog box.
title	An optional title for the dialog.
footer	UI for footer. Use NULL for no footer.
size	One of "s" for small, "m" (the default) for medium, or "l" for large.
easyClose	If TRUE, the modal dialog can be dismissed by clicking outside the dialog box, or by pressing the Escape key. If FALSE (the default), the modal dialog can't be dismissed in those ways; instead it must be dismissed by clicking on the dismiss button, or from a call to <a href="#">removeModal</a> on the server.
fade	If FALSE, the modal dialog will have no fade-in animation (it will simply appear rather than fade in to view).

**Value**

A modified shiny modal dialog UI with its content draggable.

---

get_jqui_effects	<i>Get available animation effects.</i>
------------------	---

---

**Description**

Use this function to get all animation effects in jQuery UI.

**Usage**

```
get_jqui_effects()
```

**Value**

A character vector of effect names

---

includejQueryUI	<i>Inject necessary js and css assets to the head of a shiny document (deprecated).</i>
-----------------	---

---

**Description**

This function has to be called within the ui of a shiny document before the usage of other shinyjqui functions.

**Usage**

```
includejQueryUI()
```

**Value**

A shiny head tag with necessary js and css assets.

**Examples**

```
if (interactive()) {
  library(shiny)

  shinyApp(
    ui = fluidPage(
      includeJqueryUI(),
      # other ui codes
    ),
    server = function(input, output) {
      # server codes
    }
  )
}
```

---

Interactions

*Mouse interactions*

---

**Description**

Attach mouse-based interactions to shiny html tags and input/output widgets, and provide ways to manipulate them. The interactions include:

- **draggable**: Allow elements to be moved using the mouse.
- **droppable**: Create targets for draggable elements.
- **resizable**: Change the size of an element using the mouse.
- **selectable**: Use the mouse to select elements, individually or in a group.
- **sortable**: Reorder elements in a list or grid using the mouse.

**Usage**

```
jquery_draggabled(tag, options = NULL)
```

```
jquery_droppabled(tag, options = NULL)
```

```
jquery_resizabled(tag, options = NULL)
```

```
jquery_selectabled(tag, options = NULL)
```

```
jquery_sortabled(tag, options = NULL)
```

```
jquery_draggable(ui, operation = c("enable", "disable", "destroy", "save",  
  "load"), options = NULL, selector = NULL, switch = NULL)
```

```
jqui_droppable(ui, operation = c("enable", "disable", "destroy", "save",
  "load"), options = NULL, selector = NULL, switch = NULL)
```

```
jqui_resizable(ui, operation = c("enable", "disable", "destroy", "save",
  "load"), options = NULL, selector = NULL, switch = NULL)
```

```
jqui_selectable(ui, operation = c("enable", "disable", "destroy", "save",
  "load"), options = NULL, selector = NULL, switch = NULL)
```

```
jqui_sortable(ui, operation = c("enable", "disable", "destroy", "save",
  "load"), options = NULL, selector = NULL, switch = NULL)
```

## Arguments

options	A list of <b>interaction_specific_options</b> . Ignored when operation is set as destroy. This parameter also accept a shiny option that controls the shiny input value returned from the element. See Details.
ui	The target ui element(s) to be manipulated. Can be <ul style="list-style-type: none"> <li>• A shiny.tag or shiny.tag.list object</li> <li>• A string of <b>jQuery_selector</b></li> <li>• A <b>JS()</b> wrapped javascript expression that returns a <b>jQuery object</b>.</li> </ul>
operation	A string to determine how to manipulate the mouse interaction. Should be one of enable, disable, destroy, save and load. Ignored when ui is a shiny.tag or shiny.tag.list object. See Details.
selector, tag, switch	Deprecated, just keep for backward compatibility. Please use ui and operation parameters instead.

## Details

The first parameter ui determines the target shiny ui element(s) to work with. It accepts objects with different classes. When you provide a shiny.tag (e.g., shiny inputs/outputs or ui created by `shiny::tags`) or a shiny.tag.list (by `tagList()`) object, the functions return the same ui object with interaction effects attached. When a **jQuery\_selector** or a javascript expression is provided, the functions first use it to locate the target ui element(s) in shiny app, and then attach or manipulate the interactions. Therefore, you can use the first way in ui of a shiny app to created elements with interaction effects, or use the second way in server to manipulate the interactions.

The operation parameter is valid only in the second way. It determines how to manipulate the interaction, which includes:

- enable: Attach the corresponding mouse interaction to the target(s).
- disable: Attach the interaction if not and disable it at once (only set the options).
- destory: Destroy the interaction.
- save: Attach the interaction if not and save the current interaction state.
- load: If interaction attached, restore the target(s) to the last saved interaction state.

With mouse interactions attached, the corresponding interaction states, e.g. position of draggable, size of resizable, selected of selectable and order of sortable, will be send to server in the form of `input$<id>_<state>`. The default values can be overridden by setting the shiny option in the options parameter. Please see the vignette `Introduction to shinyjquery` for more details.

The functions `jquery_draggabled()`, `jquery_droppabled()`, `jquery_resizabled()`, `jquery_selectabled()` and `jquery_sortabled()` are deprecated. Please use the corresponding `-able()` functions instead.

## Value

The same object passed in the `ui` parameter

## Examples

```
library(shiny)
library(highcharter)

## used in ui
jquery_resizable(actionButton('btn', 'Button'))
jquery_draggable(plotOutput('plot', width = '400px', height = '400px'),
                 options = list(axis = 'x'))
jquery_selectable(
  div(
    id = 'sel_plots',
    highchartOutput('highchart', width = '300px'),
    plotOutput('ggplot', width = '300px')
  ),
  options = list(
    classes = list('ui-selected' = 'ui-state-highlight')
  )
)
jquery_sortable(tags$sul(
  id = 'lst',
  tags$li('A'),
  tags$li('B'),
  tags$li('C')
))

## used in server
## Not run:
jquery_draggable('#foo', options = list(grid = c(80, 80)))
jquery_droppable('.foo', operation = "enable")

## End(Not run)

## use shiny input
if (interactive()) {
  shinyApp(
    server = function(input, output) {
      output$foo <- renderHighchart({
        hchart(mtcars, "scatter", hcaes(x = cyl, y = mpg))
      })
      output$position <- renderPrint({
```



```

        print(input$foo_position)
      })
    },
    ui = fluidPage(
      verbatimTextOutput('position'),
      jq_ui_draggable(highchartOutput('foo', width = '200px', height = '200px'))
    )
  )
}

## custom shiny input
func <- JS('function(event, ui){return $(event.target).offset();}')
options <- list(
  shiny = list(
    abs_position = list(
      dragcreate = func, # send returned value back to shiny when interaction is created.
      drag = func # send returned value to shiny when dragging.
    )
  )
)
jq_ui_draggable(highchartOutput('foo', width = '200px', height = '200px'),
  options = options)

```

---

jq\_ui\_bookmarking      *Enable bookmarking state of mouse interactions*

---

### Description

Enable shiny **bookmarking\_state** of mouse interactions. By calling this function in server, the elements' position, size, selection state and sorting state changed by mouse operations can be saved and restored through an URL.

### Usage

```
jq_ui_bookmarking()
```

---

jq\_ui\_icon      *Create a jQuery UI icon*

---

### Description

Create an jQuery UI pre-defined icon. For lists of available icons, see <http://api.jqueryui.com/theming/icons/>.

**Usage**

```
jqui_icon(name)
```

**Arguments**

name	Class name of icon. The "ui-icon-" prefix can be omitted (i.e. use "ui-icon-flag" or "flag" to display a flag icon)
------	---

**Value**

An icon element

**Examples**

```
jqui_icon('caret-1-n')

library(shiny)

# add an icon to an actionButton
actionButton('button', 'Button', icon = jqui_icon('refresh'))

# add an icon to a tabPanel
tabPanel('Help', icon = jqui_icon('help'))
```

---

orderInput

*A shiny input control to show the order of a list of items*


---

**Description**

Display a list items whose order can be changed by drag and drop within or between orderInput(s). The current items order can be obtained from `input$inputId_order`.

**Usage**

```
orderInput(inputId, label, items, as_source = FALSE, connect = NULL,
  item_class = c("default", "primary", "success", "info", "warning",
  "danger"), placeholder = NULL, width = "500px", ...)
```

**Arguments**

inputId	The input slot that will be used to access the current order of items.
label	Display label for the control, or NULL for no label.
items	Items to display, can be a list, an atomic vector or a factor. For list and atomic vector, if named, the names are displayed and the order is given in values. For factor, values are displayed and the order is given in levels

as_source	A boolean value to determine whether the orderInput is set as source mode. If source mode, items in this orderInput can only be dragged (copied) to the connected non-source orderInput(s) defined by connect argument. If non-source mode, items in the orderInput can be dragged (moved) within or toward other connected non-source orderInput(s) defined by connect argument.
connect	optional, a vector of inputId(s) of other orderInput(s) that the current orderInput connects to. The behavior of the connected orderInput(s) depend on the as_source argument.
item_class	One of the <b>Bootstrap Button Styles</b> to apply to each item.
placeholder	A character string to show when there is no item left in the orderInput.
width	The width of the input, e.g. '400px', or '100%'. Passed to <a href="#">validateCssUnit</a> .
...	Arguments passed to shiny::tags\$div which is used to build the container of the orderInput.

**Value**

A orderInput control that can be added to a UI definition.

**Examples**

```
orderInput('items1', 'Items1', items = month.abb, item_class = 'info')

## build connections between orderInputs
orderInput('items2', 'Items2 (can be moved to Items1 and Items4)', items = month.abb,
          connect = c('lst1', 'lst4'), item_class = 'primary')

## build connections in source mode
orderInput('items3', 'Items3 (can be copied to List2 and List4)', items = month.abb,
          as_source = TRUE, connect = c('lst2', 'lst4'), item_class = 'success')

## show placeholder
orderInput('items4', 'Items4 (can be moved to List2)', items = NULL, connect = 'lst2',
          placeholder = 'Drag items here...')
```

---

selectableTableOutput *Create a table output element with selectable rows or cells*

---

**Description**

Render a standard HTML table with its rows or cells selectable. The server will receive the index of selected rows or cells stored in `input$<outputId>_selected`.

**Usage**

```
selectableTableOutput(outputId, selection_mode = c("row", "cell"))
```

**Arguments**

`outputId` output variable to read the table from

`selection_mode` one of "row" or "cell" to define either entire row or individual cell can be selected.

**Details**

Use mouse click to select single target, lasso (mouse dragging) to select multiple targets, and Ctrl + click to add or remove selection. In row selection mode, `input$<outputId>_selected` will receive the selected row index in the form of numeric vector. In cell selection mode, `input$<outputId>_selected` will receive a dataframe with rows and columns index of each selected cells.

**Value**

A table output element that can be included in a panel

**See Also**

[shiny::tableOutput](#), [sortableTableOutput](#)

**Examples**

```
## Only run this example in interactive R sessions
if (interactive()) {
  shinyApp(
    ui = fluidPage(
      verbatimTextOutput("selected"),
      selectableTableOutput("tbl")
    ),
    server = function(input, output) {
      output$selected <- renderPrint({input$tbl_selected})
      output$tbl <- renderTable(mtcars, rownames = TRUE)
    }
  )
}
```

---

sortableCheckboxGroupInput

*Create a Checkbox Group Input Control with Sortable Choices*

---

**Description**

Render a group of checkboxes with multiple choices toggleable. The choices are also sortable by drag and drop. In addition to the selected values stored in `input$<inputId>`, the server will also receive the order of choices in `input$<inputId>_order`.

**Usage**

```
sortableCheckboxGroupInput(inputId, label, choices = NULL, selected = NULL,
  inline = FALSE, width = NULL, choiceNames = NULL, choiceValues = NULL)
```

**Arguments**

inputId	The input slot that will be used to access the value.
label	Display label for the control, or NULL for no label.
choices	List of values to show checkboxes for. If elements of the list are named then that name rather than the value is displayed to the user. If this argument is provided, then choiceNames and choiceValues must not be provided, and vice-versa. The values should be strings; other types (such as logicals and numbers) will be coerced to strings.
selected	The values that should be initially selected, if any.
inline	If TRUE, render the choices inline (i.e. horizontally)
width	The width of the input, e.g. '400px', or '100%'; see <a href="#">validateCssUnit</a> .
choiceNames	List of names and values, respectively, that are displayed to the user in the app and correspond to the each choice (for this reason, choiceNames and choiceValues must have the same length). If either of these arguments is provided, then the other <i>must</i> be provided and choices <i>must not</i> be provided. The advantage of using both of these over a named list for choices is that choiceNames allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text. See Examples.
choiceValues	List of names and values, respectively, that are displayed to the user in the app and correspond to the each choice (for this reason, choiceNames and choiceValues must have the same length). If either of these arguments is provided, then the other <i>must</i> be provided and choices <i>must not</i> be provided. The advantage of using both of these over a named list for choices is that choiceNames allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text. See Examples.

**Value**

A list of HTML elements that can be added to a UI definition

**See Also**

[shiny::checkboxGroupInput](#), [sortableRadioButtons\(\)](#), [sortableTableOutput\(\)](#), [sortableTabsetPanel\(\)](#)

**Examples**

```
## Only run this example in interactive R sessions
if (interactive()) {
  shinyApp(
    ui = fluidPage(
      sortableCheckboxGroupInput("foo", "SortableCheckboxGroupInput",
        choices = month.abb),
```

```

    verbatimTextOutput("order")
  ),
  server = function(input, output) {
    output$order <- renderPrint({input$foo_order})
  }
)
}

```

---

sortableRadioButtons    *Create radio buttons with sortable choices*

---

### Description

Create a set of radio buttons used to select an item from a list. The choices are sortable by drag and drop. In addition to the selected values stored in `input$<inputId>`, the server will also receive the order of choices in `input$<inputId>_order`.

### Usage

```
sortableRadioButtons(inputId, label, choices = NULL, selected = NULL,
  inline = FALSE, width = NULL, choiceNames = NULL, choiceValues = NULL)
```

### Arguments

<code>inputId</code>	The input slot that will be used to access the value.
<code>label</code>	Display label for the control, or NULL for no label.
<code>choices</code>	List of values to select from (if elements of the list are named then that name rather than the value is displayed to the user). If this argument is provided, then <code>choiceNames</code> and <code>choiceValues</code> must not be provided, and vice-versa. The values should be strings; other types (such as logicals and numbers) will be coerced to strings.
<code>selected</code>	The initially selected value (if not specified then defaults to the first value)
<code>inline</code>	If TRUE, render the choices inline (i.e. horizontally)
<code>width</code>	The width of the input, e.g. '400px', or '100%'; see <a href="#">validateCssUnit</a> .
<code>choiceNames</code>	List of names and values, respectively, that are displayed to the user in the app and correspond to the each choice (for this reason, <code>choiceNames</code> and <code>choiceValues</code> must have the same length). If either of these arguments is provided, then the other <i>must</i> be provided and <code>choices</code> <i>must not</i> be provided. The advantage of using both of these over a named list for choices is that <code>choiceNames</code> allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text. See Examples.
<code>choiceValues</code>	List of names and values, respectively, that are displayed to the user in the app and correspond to the each choice (for this reason, <code>choiceNames</code> and <code>choiceValues</code> must have the same length). If either of these arguments is provided, then the other <i>must</i> be provided and <code>choices</code> <i>must not</i> be provided. The advantage of

using both of these over a named list for choices is that choiceNames allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text. See Examples.

**Value**

A set of radio buttons that can be added to a UI definition.

**See Also**

[shiny::radioButtons](#), [sortableCheckboxGroupInput](#), [sortableTableOutput](#), [sortableTabsetPanel](#)

**Examples**

```
## Only run this example in interactive R sessions
if (interactive()) {
  shinyApp(
    ui = fluidPage(
      sortableRadioButtons("foo", "SortableRadioButtons",
                          choices = month.abb),
      verbatimTextOutput("order")
    ),
    server = function(input, output) {
      output$order <- renderPrint({input$foo_order})
    }
  )
}
```

---

sortableTableOutput    *Create a table output element with sortable rows*

---

**Description**

Render a standard HTML table with table rows sortable by drag and drop. The order of table rows is recorded in input\$<outputId>\_order.

**Usage**

```
sortableTableOutput(outputId)
```

**Arguments**

outputId            output variable to read the table from

**Value**

A table output element that can be included in a panel

**See Also**

[shiny::tableOutput](#), [sortableRadioButtons](#), [sortableCheckboxGroupInput](#), [sortableTabsetPanel](#), [selectableTableOutput](#)

**Examples**

```
## Only run this example in interactive R sessions
if (interactive()) {
  shinyApp(
    ui = fluidPage(
      verbatimTextOutput("rows"),
      sortableTableOutput("tbl")
    ),
    server = function(input, output) {
      output$rows <- renderPrint({input$tbl_row_index})
      output$tbl <- renderTable(mtcars, rownames = TRUE)
    }
  )
}
```

---

sortableTabsetPanel *Create a tabset panel with sortable tabs*

---

**Description**

Create a tabset that contains [shiny::tabPanel](#) elements. The tabs are sortable by drag and drop. In addition to the activated tab title stored in `input$<id>`, the server will also receive the order of tabs in `input$<id>_order`.

**Usage**

```
sortableTabsetPanel(..., id = NULL, selected = NULL, type = c("tabs",
  "pills"), position = NULL)
```

**Arguments**

...	<a href="#">tabPanel</a> elements to include in the tabset
id	If provided, you can use <code>input\$id</code> in your server logic to determine which of the current tabs is active. The value will correspond to the value argument that is passed to <a href="#">tabPanel</a> .
selected	The value (or, if none was supplied, the title) of the tab that should be selected by default. If NULL, the first tab will be selected.
type	Use "tabs" for the standard look; Use "pills" for a more plain look where tabs are selected using a background fill color.
position	This argument is deprecated; it has been discontinued in Bootstrap 3.



**Value**

A tabset that can be passed to [shiny::mainPanel](#)

**See Also**

[shiny::tabsetPanel](#), [sortableRadioButtons](#), [sortableCheckboxGroupInput](#), [sortableTableOutput](#)

**Examples**

```
## Only run this example in interactive R sessions
if (interactive()) {
  shinyApp(
    ui = fluidPage(
      sortableTabsetPanel(
        id = "tabs",
        tabPanel(title = "A", "AAA"),
        tabPanel(title = "B", "BBB"),
        tabPanel(title = "C", "CCC")
      ),
      verbatimTextOutput("order")
    ),
    server = function(input, output) {
      output$order <- renderPrint({input$tabs_order})
    }
  )
}
```

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