Package ‘shinyTime’

October 14, 2022

Type Package
Title A Time Input Widget for Shiny
Version 1.0.3
Description Provides a time input widget for Shiny. This widget allows intuitive time input in the
'[hh]:[mm]:[ss]' or '[hh]:[mm]' (24H) format by using a separate numeric input for each time
component. The interface with R uses date-time objects. See the project page for more
information and examples.
License GPL-3 | file LICENSE
Imports htmltools, shiny
URL https://burgerga.github.io/shinyTime/,
https://github.com/burgerga/shinyTime
BugReports https://github.com/burgerga/shinyTime/issues
RoxygenNote 7.2.1
Encoding UTF-8
Language en-US
Suggests testthat (>= 2.1.0), spelling, hms
NeedsCompilation no
Author Gerhard Burger [aut, cre] (<https://orcid.org/0000-0003-1062-5576>)
Maintainer Gerhard Burger <burger.ga@gmail.com>
Repository CRAN
Date/Publication 2022-08-19 21:30:02 UTC

R topics documented:

shinyTimeExample ........................................... 2
timeInput ....................................................... 2
updateTimeInput ............................................. 3

Index 5

1
shinyTimeExample  

Show the shinyTime example app

Description

Run a simple shiny app demonstrating the shinyTime functionality.

Usage

shinyTimeExample()

See Also

Other shinyTime functions: timeInput(), updateTimeInput()

timeInput

Create a time input

Description

Creates a time widget that consists of separate numeric inputs for the hours, minutes, and seconds. The input and output values of the time widget are instances of DateTimeClasses, these can be converted to and from character strings with strptime and strftime. Additionally, the input can be specified as a character string in the ‘hh:mm:ss’ format or an hms class. For a simple example app see shinyTimeExample.

Usage

timeInput(inputId, label, value = NULL, seconds = TRUE, minute.steps = 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.
value  The desired time value. Must be a instance of DateTimeClasses.
seconds  Show input for seconds. Defaults to TRUE.
minute.steps  Round time to multiples of minute.steps (should be a whole number). If not NULL sets seconds to FALSE.

Value

Returns a POSIXlt object, which can be converted to a POSIXct object with as.POSIXct for more efficient storage.
UpdateTimeInput

See Also

strptime, strftime, DateTimeClasses

Other shinyTime functions: shinyTimeExample(), updateTimeInput()

Examples

```r
## Only run examples in interactive R sessions
if (interactive()) {

ui <- fluidPage(
  # Default value is 00:00:00
  timeInput("time1", "Time:"),

  # Set to current time
  timeInput("time2", "Time:", value = Sys.time()),

  # Set to custom time
  timeInput("time3", "Time:", value = strptime("12:34:56", "%T")),

  # Set to custom time using hms
  timeInput("time4", "Time:", value = hms::as_hms("23:45:07")),

  # Set to custom time using character string
  timeInput("time5", "Time:", value = "21:32:43"),

  # Use hh:mm format
  timeInput("time6", "Time:", seconds = FALSE),

  # Use multiples of 5 minutes
  timeInput("time7", "Time:", minute.steps = 5)
)

shinyApp(ui, server = function(input, output) { })
}
```

UpdateTimeInput

Change a time input on the client

Description

Change the label and/or value of a time input

Usage

```r
updateTimeInput(session, inputId, label = NULL, value = NULL)
```
Arguments

- **session**: The session object passed to function given to `shinyServer`. Default is `getDefaultReactiveDomain()`.
- **inputId**: The id of the input object.
- **label**: The label to set for the input object.
- **value**: The desired time value. Must be an instance of `DateTimeClasses`.

See Also

Other `shinyTime` functions: `shinyTimeExample()`, `timeInput()`

Examples

```r
## Only run examples in interactive R sessions
if (interactive()) {

ui <- fluidPage(
  timeInput("time", "Time:"),
  actionButton("to_current_time", "Current time")
)

server <- function(input, output, session) {
  observeEvent(input$to_current_time, {
    updateTimeInput(session, "time", value = Sys.time())
  })
}

shinyApp(ui, server)
}
```
Index

* **shinyTime functions**
  shinyTimeExample, 2
  timeInput, 2
  updateTimeInput, 3

DateTimeClasses, 2–4

hms, 2

shinyTimeExample, 2, 2, 3, 4
strftime, 2, 3
strptime, 2, 3

timeInput, 2, 2, 4

updateTimeInput, 2, 3, 3