

# Package ‘daterangepicker’

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**Type** Package

**Title** Create a Shiny Date-Range Input

**Version** 0.1.0

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**Description** A Shiny Input for date-ranges, which pops up two calendars for selecting dates, times, or predefined ranges like “Last 30 Days”. It wraps the JavaScript library ‘daterangepicker’ which is available at <<https://www.daterangepicker.com>>.

**License** MIT + file LICENSE

**Depends** R (>= 3.2.0)

**Imports** htmltools, jsonify, shiny

**URL** <https://github.com/trafficonese/daterangepicker/>,  
<https://www.daterangepicker.com>

**BugReports** <https://github.com/trafficonese/daterangepicker/issues>

**Encoding** UTF-8

**RoxygenNote** 7.0.2

**Suggests** testthat (>= 2.1.0), covr

**NeedsCompilation** no

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**Repository** CRAN

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checkMaxSpan	<i>checkMaxSpan</i> Check the maxSpan element, for Time objects
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**Description**

checkMaxSpan Check the maxSpan element, for Time objects

**Usage**

```
checkMaxSpan(maxSpan)
```

**Arguments**

maxSpan	The list of ranges
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checkRanges	<i>checkRanges</i> Check the ranges element, for Date objects
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**Description**

checkRanges Check the ranges element, for Date objects

**Usage**

```
checkRanges(ranges)
```

**Arguments**

ranges	The list of ranges
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daterangepicker	<i>daterangepicker</i>
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## Description

The Date Range Picker pops up two calendars for selecting dates, times, or predefined ranges like "Yesterday", "Last 30 Days", etc.

## Usage

```
daterangepicker(  
  inputId = NULL,  
  label = "Select a Date",  
  start = NULL,  
  end = NULL,  
  min = NULL,  
  max = NULL,  
  ranges = NULL,  
  language = "en",  
  style = "width:100%;border-radius:4px;text-align:center;",  
  class = NULL,  
  icon = NULL,  
  options = daterangepickerOptions()  
)
```

## Arguments

inputId	The input ID
label	The label for the control, or NULL for no label.
start	The beginning date of the initially selected. Must be a Date / POSIXt or string. If NULL will default to the current day.
end	The end date of the initially selected date range. Must be a Date / POSIXt or string. If NULL will default to the current day.
min	The earliest date a user may select. Must be a Date or string
max	The latest date a user may select. Must be a Date or string
ranges	Set predefined date ranges the user can select from. Each key is the label for the range, and its value an array with two dates representing the bounds of the range.
language	The language used for month and day names. Default is "en". See the <a href="#">Multiple Locale Support</a> for a list of other valid values.
style	Add CSS-styles to the input.
class	Custom class
icon	Icon to display next to the label.
options	List of further options. See <a href="#">daterangepickerOptions</a>

**See Also**

[www.daterangepicker.com](http://www.daterangepicker.com)

Other daterangepicker Functions: `daterangepickerOptions()`, `updateDaterangepicker()`

**Examples**

```

if (interactive()) {
  library(shiny)
  library(daterangepicker)

  ## UI #####
  ui <- fluidPage(
    tags$head(tags$style(".myclass {background-color: #96dafb;}")),
    daterangepicker(
      inputId = "daterange",
      label = "Pick a Date",
      start = Sys.Date() - 30, end = Sys.Date(),
      max = Sys.Date(),
      language = "en",
      ranges = list("Today" = Sys.Date(),
                   "Yesterday" = Sys.Date() - 1,
                   "Last 3 days" = c(Sys.Date() - 2, Sys.Date()),
                   "Last 7 days" = c(Sys.Date() - 6, Sys.Date()))
    ),
    style = "width:100%; border-radius:4px",
    class = "myclass",
    icon = icon("calendar")
  ),
  verbatimTextOutput("print"),
  actionButton("act", "Update Daterangepicker"),
)

  ## SERVER #####
  server <- function(input, output, session) {
    output$print <- renderPrint({
      req(input$daterange)
      input$daterange
    })
    observeEvent(input$act, {
      updateDaterangepicker(session, "daterange",
                           start = Sys.Date(),
                           end = Sys.Date() - 100)
    })
  }
  shinyApp(ui, server)
}

```

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daterangepickerOptions

*daterangepickerOptions*

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**Description**

Update the daterangepicker

**Usage**

```

daterangepickerOptions(
  minYear = NULL,
  maxYear = NULL,
  showDropdowns = TRUE,
  showCustomRangeLabel = TRUE,
  opens = c("right", "left", "center"),
  drops = c("down", "up"),
  timePicker = FALSE,
  timePickerIncrement = 1,
  timePicker24Hour = FALSE,
  timePickerSeconds = FALSE,
  showWeekNumbers = FALSE,
  showISOWeekNumbers = FALSE,
  parentEl = NULL,
  maxSpan = NULL,
  alwaysShowCalendars = FALSE,
  buttonClasses = NULL,
  applyButtonClasses = NULL,
  cancelButtonClasses = NULL,
  cancelIsClear = FALSE,
  locale = NULL,
  singleDatePicker = FALSE,
  autoApply = FALSE,
  linkedCalendars = TRUE,
  autoUpdateInput = TRUE
)

```

**Arguments**

minYear	The minimum year as numeric shown in the dropdowns when showDropdowns is set to TRUE
maxYear	The maximum year as numeric shown in the dropdowns when showDropdowns is set to TRUE
showDropdowns	Show year and month select boxes above calendars to jump to a specific month and year.
showCustomRangeLabel	Displays "Custom Range" at the end of the list of predefined ranges, when the ranges option is used. This option will be highlighted whenever the current date range selection does not match one of the predefined ranges. Clicking it will display the calendars to select a new range.
opens	Whether the picker appears aligned to the left, to the right, or to the center under the HTML element it's attached to.

<code>drops</code>	Whether the picker appears below (down) or above (up) the HTML element it's attached to. Default is down
<code>timePicker</code>	Adds select boxes to choose times in addition to dates.
<code>timePickerIncrement</code>	Increment of the minutes selection list for times (i.e. 30 to allow only selection of times ending in 0 or 30).
<code>timePicker24Hour</code>	Use 24-hour instead of 12-hour times, removing the AM/PM selection.
<code>timePickerSeconds</code>	Show seconds in the timePicker.
<code>showWeekNumbers</code>	Show localized week numbers at the start of each week on the calendars.
<code>showISOWeekNumbers</code>	Show ISO week numbers at the start of each week on the calendars.
<code>parentEl</code>	jQuery selector of the parent element that the date range picker will be added to, if not provided this will be 'body'
<code>maxSpan</code>	The maximum span between the selected start and end dates as List or table. You can provide any object the moment library would let you add to a date.
<code>alwaysShowCalendars</code>	Normally, if you use the ranges option to specify pre-defined date ranges, calendars for choosing a custom date range are not shown until the user clicks "Custom Range". When this option is set to TRUE, the calendars for choosing a custom date range are always shown instead.
<code>buttonClasses</code>	CSS class names that will be added to both the apply and cancel buttons.
<code>applyButtonClasses</code>	CSS class names that will be added only to the apply button.
<code>cancelButtonClasses</code>	CSS class names that will be added only to the cancel button.
<code>cancelIsClear</code>	If TRUE, will treat the Cancel Button like a Clear Button.
<code>locale</code>	Allows you to provide localized strings for buttons and labels, customize the date format, and change the first day of week for the calendars.
<code>singleDatePicker</code>	Show only a single calendar to choose one date, instead of a range picker with two calendars. The start and end dates provided to your callback will be the same single date chosen.
<code>autoApply</code>	Hide the apply and cancel buttons, and automatically apply a new date range as soon as two dates are clicked.
<code>linkedCalendars</code>	When enabled, the two calendars displayed will always be for two sequential months (i.e. January and February), and both will be advanced when clicking the left or right arrows above the calendars. When disabled, the two calendars can be individually advanced and display any month/year.
<code>autoUpdateInput</code>	Indicates whether the date range picker should automatically update the value of the <input> element it's attached to at initialization and when the selected dates change.

**See Also**

[www.daterangepicker.com](http://www.daterangepicker.com)

Other daterangepicker Functions: [daterangepicker\(\)](#), [updateDaterangepicker\(\)](#)

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filterEMPTY	<i>filterEMPTY Filter empty elements of a list</i>
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**Description**

filterEMPTY Filter empty elements of a list

**Usage**

```
filterEMPTY(x)
```

**Arguments**

x	The list of values
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makeInput	<i>makeInput Make the input div-tag</i>
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**Description**

makeInput Make the input div-tag

**Usage**

```
makeInput(label, inputId, class, icon, style, options)
```

**Arguments**

label	The label of the daterangepicker
inputId	The inputId of the daterangepicker
class	The class of the daterangepicker
icon	The icon of the daterangepicker
style	The style of the daterangepicker
options	The options of the daterangepicker

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makeLabel	<i>makeLabel Make the label</i>
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**Description**

makeLabel Make the label

**Usage**

```
makeLabel(label, inputId)
```

**Arguments**

label	The label of the daterangepicker
inputId	The inputId of the daterangepicker

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updateDaterangepicker	<i>updateDaterangepicker</i>
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**Description**

Change the start and end values of a daterangepicker on the client

**Usage**

```
updateDaterangepicker(  
  session,  
  inputId,  
  label = NULL,  
  start = NULL,  
  end = NULL,  
  min = NULL,  
  max = NULL,  
  icon = NULL,  
  options = NULL  
)
```

**Arguments**

session	The session object passed to function given to shinyServer.
inputId	The id of the input object.
label	The label to set for the input object.
start	The start date. Either a Date object, or a string in yyyy-mm-dd format.
end	The end date. Either a Date object, or a string in yyyy-mm-dd format.



min	The earliest date a user may select.
max	The latest date a user may select.
icon	Icon to display next to the label.
options	List of further options. See <a href="#">daterangepickerOptions</a>

**See Also**

Other daterangepicker Functions: [daterangepickerOptions\(\)](#), [daterangepicker\(\)](#)

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