Package ‘gradientPickerD3’

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Type Package

Title Interactive Color Gradient Picker Using 'htmlwidgets' and the Modified JS Script 'jquery-gradient-picker'

Version 0.1.0.0

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Description Widget for an interactive selection and modification of a color gradient. 'gradientPickerD3' allows addition, removal and replacement of color ticks. List of numeric values will automatically translate in their corresponding tick position within the numeric range. App returns a data.frame containing tick values, colors and the positions in percent (0.0 to 1.0) for each color tick in the gradient. The original JS 'jquery-gradient-picker' was implemented by Matt Crinklaw-Vogt (nick: tantaman) <https://github.com/tantaman/>. Widget and JS modifications were done by CD. Peikert.

Depends R (>= 3.3.1)

Imports htmlwidgets, jsonlite, shiny


LazyData true

Encoding UTF-8

License GPL-3

Collate 'gradientPickerD3.R' 'gradientPickerD3_example.R'

RoxygenNote 6.0.1

NeedsCompilation no

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R topics documented:

gradientPickerD3 .................................................. 2
gradientPickerD3-shiny ........................................... 3
gradientPickerD3_example ......................................... 3
gradientPickerD3

Description

Creates a widget for an interactive selection and modification of a color gradient. gradientPickerD3 allows the addition, removal and replacement of color ticks. List of numeric values will automatically translate in its corresponding tick position within the numeric range. App returns a R data.frame containing tick values, colors and the positions in percent (0.0 to 1.0) for each color tick in the gradient. The original JS 'jquery-gradient-picker' was implemented by Matt Crinklaw-Voigt. Widget and JS modifications were done by CD. Peikert.

Usage

gradientPickerD3(payload, width = NULL, height = NULL, elementId = NULL, border_extensions = 0.001, decimal_places = 8)

Arguments

payload list containing 'ticks' and 'colors' to initialize the gradient. Ticks have to been numerical and in a logical order. Colors can be provided as R colors or HEX format.
width, height must be a valid CSS unit (like '100%')
elementId string id as a valid CSS element id
border_extensions add to the min and max data range to cover the whole color spectrum
decimal_places number of decimal places

Source

The interface was designed based on jquery-gradient-picker https://github.com/tantaman/jquery-gradient-picker, htmlwidgets and shiny

See Also

gradientPickerD3_example

Examples

 ticks <- c(-1.8740103, -0.0040747, 1.4022244, 2.2177949, 3.2116766)
 payload <- list(  colors=c("purple","blue", "green", "yellow", "red"),
  ticks=ticks
)
 gradientPickerD3(payload)
Description

Output and render functions for using gradientPickerD3 within Shiny applications and interactive Rmd documents.

Usage

gradientPickerD3Output(outputId, width = "100\%", height = "100\%")

renderGradientPickerD3(expr, env = parent.frame(), quoted = FALSE)

Arguments

outputId output variable to read from
width, height Must be a valid CSS unit (like '100\%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr An expression that generates a gradientPickerD3
env The environment in which to evaluate expr.
quoted Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

Description

Creates an example shiny app which include the gradientPickerD3 and a rendered table for gradientPickerD3 return value. By clicking the reload button new random ticks will be generated.

Usage

gradientPickerD3_example()
Index

gradientPickerD3, 2
gradientPickerD3-shiny, 3
gradientPickerD3_example, 2, 3
gradientPickerD3Output
   (gradientPickerD3-shiny), 3

htmlwidgets, 2

renderGradientPickerD3
   (gradientPickerD3-shiny), 3

shiny, 2