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:

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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)
gradientPickerD3-shiny

Shiny bindings for gradientPickerD3

Description

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

Usage

```r
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.

gradientPickerD3_example

```r
gradientPickerD3_example()
```

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

```r
gradientPickerD3_example()
```
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