

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

URL <https://github.com/peikert/gradientPickerD3>

BugReports <https://github.com/peikert/gradientPickerD3/issues>

LazyData true

Encoding UTF-8

License GPL-3

Collate 'gradientPickerD3.R' 'gradientPickerD3_example.R'

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

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| gradientPickerD3 | <i>gradientPickerD3</i> |
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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-Vogt. 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 be 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

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

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

Arguments

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

`gradientPickerD3_example`*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

```
gradientPickerD3_example()
```

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