

Package ‘parcats’

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Title Interactive Parallel Categories Diagrams for 'easyalluvial'

Version 0.1.0

URL <https://erblast.github.io/parcats/>

BugReports <https://github.com/erblast/parcats/issues/>

Description Complex graphical representations of data are best explored using interactive elements. 'parcats' adds interactive graphing capabilities to the 'easyalluvial' package. The 'plotly.js' parallel categories diagrams offer a good framework for creating interactive flow graphs that allow manual drag and drop sorting of dimensions and categories, highlighting single flows and displaying mouse over information. The 'plotly.js' dependency is quite heavy and therefore is outsourced into a separate package.

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Encoding UTF-8

Depends R (>= 3.0.0)

Suggests testthat, covr, randomForest, knitr, rmarkdown, spelling, plotly, shiny

RoxygenNote 7.3.2

Imports easyalluvial (>= 0.4.0), tidyr (>= 1.0.0), dplyr, purrr, forcats, magrittr, tibble, htmlwidgets, stringr

Language en-US

NeedsCompilation no

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parcats *create plotly parallel categories diagram from alluvial plot*

Description

creates an interactive parallel categories diagram from an 'easyalluvial' plot using the 'plotly.js' library

Usage

```
parcats(
  p,
  marginal_histograms = TRUE,
  data_input = NULL,
  imp = TRUE,
  width = NULL,
  height = NULL,
  elementId = NULL,
  hoveron = "color",
  hoverinfo = "count+probability",
  arrangement = "perpendicular",
  bundlecolors = TRUE,
  sortpaths = "forward",
  labelfont = list(size = 24, color = "black"),
  tickfont = NULL,
  offset_marginal_histograms = 0.7,
  offset_imp = 0.9
)
```

Arguments

p	alluvial plot
marginal_histograms	logical, add marginal histograms, Default: TRUE
data_input	dataframe, data used to create alluvial plot, Default: NULL
imp	dataframe, with not more then two columns one of them numeric containing importance measures and one character or factor column containing corresponding variable names as found in training data.
width	integer, htmlwidget width in pixels, Default: NULL
height	integer, htmlwidget height in pixels, Default: NULL
elementId	, htmlwidget elementid, Default: NULL

hoveron	character, one of c('category', 'color', 'dimension'), Sets the hover interaction mode for the parcats diagram.', 'If 'category', hover interaction take place per category.', 'If 'color', hover interactions take place per color per category.', 'If 'dimension', hover interactions take place across all categories per dimension., Default: 'color'
hoverinfo	character, one of c('count', 'probability', 'count+probability') set info displayed on mouse hover Default: 'count+probability'
arrangement	character, one of c('perpendicular', 'freeform', 'fixed') 'Sets the drag interaction mode for categories and dimensions.', 'If 'perpendicular', the categories can only move along a line perpendicular to the paths.', 'If 'freeform', the categories can freely move on the plane.', 'If 'fixed', the categories and dimensions are stationary.', Default: 'perpendicular'
bundlecolors	logical, 'Sort paths so that like colors are bundled together within each category.', Default: TRUE
sortpaths	character, one of c('forward', 'backward'), 'Sets the path sorting algorithm.', 'If 'forward', sort paths based on dimension categories from left to right.', Default: 'forward' 'If 'backward', sort paths based on dimensions categories from right to left.'
labelfont	list, 'Sets the font for the 'dimension' labels.', Default: list(size = 24, color = 'black')
tickfont	list, Sets the font for the 'category' labels.', Default: NULL
offset_marginal_histograms	double, height ratio reserved for parcats diagram, Default: 0.8
offset_imp	double, width ratio reserved for parcats diagram, Default: 0.9

Details

most parameters are best left at default values

Value

htmlwidget

See Also

[alluvial_wide](#), [alluvial_long](#), [alluvial_model_response](#), [alluvial_model_response_caret](#)

Examples

```
library(easyalluvial)

# alluvial wide -----
p = alluvial_wide(mtcars2, max_variables = 5)

parcats(p, marginal_histograms = FALSE)

parcats(p, marginal_histograms = TRUE, data_input = mtcars2)
```

```

if(check_pkg_installed("randomForest", raise_error = FALSE)) {
  # alluvial for model response -----
  df = mtcars2[, ! names(mtcars2) %in% 'ids' ]
  m = randomForest::randomForest( disp ~ ., df)
  imp = m$importance
  dspace = get_data_space(df, imp, degree = 3)
  pred = predict(m, newdata = dspace)
  p = alluvial_model_response(pred, dspace, imp, degree = 3)

  parcats(p, marginal_histograms = TRUE, imp = TRUE, data_input = df)
}

```

parcats-shiny

Shiny bindings for parcats

Description

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

Usage

```

parcatsOutput(outputId, width = "100%", height = "100%", inline = FALSE)

render_parcats(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.
inline	logical, Default: FALSE
expr	An expression that generates a parcats
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.

Value

No return value, called for side effects

<code>parcats_demo</code>	<i>run parcats shiny demo</i>
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Description

run parcats shiny demo

Usage

`parcats_demo()`

Value

No return value, called for side effects

Examples

```
if (interactive()) {  
  parcats_demo()  
}
```

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