Package

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Title Package to create interactive Ceteris Paribus plots Version 0.0.1 Description Package to create interactive Ceteris Paribus plots based on ceterisParibus package using D3. Depends R (>= 3.4.4), htmlwidgets Suggests randomForest, ceterisParibus Imports ceterisParibus License GPL-2 Encoding UTF-8 LazyData true URL https://github.com/flaminka/ceterisParibusD3 BugReports https://github.com/flaminka/ceterisParibusD3/issues RoxygenNote 6.1.1 R topics documented: ceterisParibusD3	Water 17, 2019
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	ceterisParibusD3 Create interactive D3-based Ceteris Paribus Explanations Plots

Description

Function 'ceterisParibusD3' plots interactive version of Ceteris Paribus Plots available in ceterisParibus package. Various parameters help to decide what (profiles, aggregated profiles, points or rugs) and how it should be plotted.

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Usage

```
ceterisParibusD3(model, ..., selected_variables = NULL, color = NULL,
  width = NULL, height = NULL, no_colors = 3,
  is_categorical_ordered = FALSE, size_rugs = NULL,
  alpha_rugs = NULL, color_rugs = NULL, color_points = NULL,
  color_residuals = NULL, color_pdps = NULL, alpha_residuals = NULL,
  alpha_points = NULL, alpha_ices = NULL, alpha_pdps = NULL,
  size_points = NULL, size_residuals = NULL, size_ices = NULL,
  size_pdps = NULL, show_profiles = TRUE, show_observations = TRUE,
  show_rugs = NULL, show_residuals = NULL, aggregate_profiles = NULL,
  font_size_titles = NULL, font_size_legend = NULL,
  font_size_axes = NULL, font_size_tootlips = NULL,
  font_size_table = NULL, add_table = NULL,
  font_size_plot_title = NULL, plot_title = NULL, yaxis_title = NULL,
  auto_resize = TRUE)
```

Arguments

model a ceteris paribus explainer produced with function 'ceteris paribus()' from ce-

terisParibus package

... other explainers that shall be plotted together

selected_variables

if not NULL then only 'selected_variables' will be presented

color a character. Either name of a color or name of a variable that should be used for

coloring. If color is a categorical variable, it should have max. 9 categories. Use

'_label_' to color by model type

width a numeric. Width (in px) of the whole plot height a numeric. Height (in px) of the whole plot

no_colors a numeric. Number of colors in legend for sequential scales (currently available:

between 1 and 9)

is_categorical_ordered

a logical. If TRUE categorical variables values on x axis will be sorted alpha-

betically

size_rugs a numeric. Size of rugs to be plotted, between 0 and 1

alpha_rugs a numeric between 0 and 1. Opacity of rug lines

color_rugs a character. Name of a color. If NULL elements are plotted according to 'color'

arguments

color_points a character. Name of a color. If NULL elements are plotted according to 'color'

arguments

color_residuals

a character. Name of a color. If NULL elements are plotted according to 'color'

arguments

color_pdps a character. Name of a color.

alpha_residuals

a numeric between 0 and 1. Opacity of residuals

alpha_points a numeric between 0 and 1. Opacity of points alpha_ices a numeric between 0 and 1. Opacity of ICE lines alpha_pdps a numeric between 0 and 1. Opacity of PDP lines

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```
size_points
                  a numeric. Size of points to be plotted
size_residuals a numeric. Size of residuals (lines and points) to be plotted
                  a numeric. Size of ICE lines to be plotted
size_ices
                  a numeric. Size of PDP lines to be plotted
size_pdps
                  a logical. If TRUE then individual profiles will be plotted
show_profiles
show_observations
                  a logical. If TRUE then individual observations will be marked as points
                  a logical. If TRUE then individual observations will be marked as rugs
show_rugs
show_residuals a logical. If TRUE then residuals will be plotted as a line ended with a point
aggregate_profiles
                  a character. Either 'mean' or 'median'. If not NULL then profiles will be aggre-
                  gated according to chosen metric and the aggregate profiles will be plotted
font_size_titles
                  a numeric. Font size in px of subplots titles
font_size_legend
                  a numeric. Font size in px of texts in legend
font_size_axes a numeric. Font size in px of texts on axes
font_size_tootlips
                  a numeric. Font size in px of texts in tooltip
font_size_table
                  a numeric. Font size in px of texts in table
                  a logical. If TRUE then table will be plotted, default is TRUE
add_table
font_size_plot_title
                  a numeric. Font size in px of plot main title
                  a character. Main title of the plot
plot_title
yaxis_title
                  a character. Vertical (y) axis title of the plot
                  a logical. If FALSE plot's elements (like fonts or lines) won't be automatically
auto_resize
                  resized when changinh size of the window.
```

Value

a ceterisParibusD3 object

Examples

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