# **Package**

January 28, 2019

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Title Package to create interactive Ceteris Paribus plots	
Version 0.0.1	
<b>Description</b> Package to create interactive Ceteris Paribus plots based on ceterisParibus package using D3.	
<b>Depends</b> R (>= 3.4.4), htmlwidgets	
Suggests randomForest, ceterisParibus	
Imports ceterisParibus	
License GPL-2	
Encoding UTF-8	
LazyData true	
<pre>URL https://github.com/flaminka/ceterisParibusD3</pre>	
BugReports https://github.com/flaminka/ceterisParibusD3/issues	
RoxygenNote 6.1.1	
R topics documented:	
ceterisParibusD3	1
Index	5
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.

2 ceterisParibusD3

#### **Usage**

```
ceterisParibusD3(model, ..., selected_variables = NULL, color = NULL,
 width = NULL, height = NULL, no_colors = NULL,
 categorical_order = NULL, 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,
 legend_keys_size = NULL)
```

#### **Arguments**

a ceteris paribus explainer produced with function 'ceteris\_paribus()' from cemodel

terisParibus package

other explainers that shall be plotted together

selected\_variables

if not NULL then only 'selected\_variables' will be presented

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

coloring

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

no\_colors a numeric. Number of colors in legend for sequential scales

categorical\_order

a list. List with order of values for categorical variables in form as follows: list(variableName = c('category1', 'category2'), variableName2 = c('category3',

'category4'))

a numeric. Size of rugs to be plotted size\_rugs

a numeric between 0 and 1. Opacity of rug lines alpha\_rugs

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. If NULL elements are plotted according to 'color'

arguments

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 ceterisParibusD3 3

```
alpha_pdps
                  a numeric between 0 and 1. Opacity of PDP lines
                  a numeric. Size of points to be plotted
size_points
size_residuals a numeric. Size of residuals (lines and points) to be plotted
size_ices
                  a numeric. Size of ICE lines to be plotted
size_pdps
                  a numeric. Size of PDP lines to be plotted
show_profiles
                  a logical. If TRUE then individual profiles will be plotted
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
plot_title
                  a character. Main title of the plot
yaxis_title
                  a character. Vertical (y) axis title of the plot
legend_keys_size
                  a numeric. Size of legend keys in px
```

### Value

a ceterisParibusD3 object

### **Examples**

4 ceterisParibusD3

# Index

ceterisParibusD3, 1