

Package ‘WeibullR.plotly’

July 8, 2024

Type Package

Title Interactive Weibull Probability Plots with 'WeibullR'

Version 0.2.1

Description Build interactive Weibull Probability Plots with 'WeibullR' by David Silkworth and Jurgen Symynck (2022) <<https://CRAN.R-project.org/package=WeibullR>>, an R package for Weibull analysis, and 'plotly' by Carson Sievert (2020) <<https://plotly-r.com>>, an interactive web-based graphing library.

URL <https://paulgovan.github.io/WeibullR.plotly/>,
<https://github.com/paulgovan/WeibullR.plotly>

BugReports <https://github.com/paulgovan/WeibullR.plotly/issues>

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Imports WeibullR, plotly

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Encoding UTF-8

RoxygenNote 7.2.3

Config/testthat/edition 3

NeedsCompilation no

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plotly_contour *Interactive Contour Plot.*

Description

Interactive Contour Plot.

Usage

```
plotly_contour(  
  wblr_obj,  
  main = NULL,  
  xlab = NULL,  
  ylab = NULL,  
  showGrid = NULL,  
  col = NULL,  
  gridCol = NULL,  
  signif = NULL  
)
```

Arguments

wblr_obj	An object of class 'wblr'.
main	Main title.
xlab	X-axis label.
ylab	Y-axis label.
showGrid	Show grid (TRUE) or hide grid (FALSE).
col	Color of the model contour
gridCol	Color of the grid.
signif	Significant digits of results

Value

The function returns no value.

Examples

```
library(WeibullR)  
library(WeibullR.plotly)  
failures<-c(30, 49, 82, 90, 96)  
obj<-wblr.conf(wblr.fit(failures), method.fit = 'mle'), method.conf = 'lrb')  
plotly_contour(obj)
```

plotly_wblr *Interactive Probability Plot.*

Description

Interactive Probability Plot.

Usage

```
plotly_wblr(  
  wblr_obj,  
  susp = NULL,  
  showConf = NULL,  
  showSusp = NULL,  
  showRes = NULL,  
  showGrid = NULL,  
  main = NULL,  
  xlab = NULL,  
  ylab = NULL,  
  probCol = NULL,  
  fitCol = NULL,  
  confCol = NULL,  
  intCol = NULL,  
  gridCol = NULL,  
  signif = NULL  
)
```

Arguments

wblr_obj	An object of class 'wblr'.
susp	An optional numeric vector of suspension data.
showConf	Show the confidence bounds (TRUE) or not (FALSE).
showSusp	Show the suspensions plot (TRUE) or not (FALSE).
showRes	Show the results table (TRUE) or not (FALSE).
showGrid	Show grid (TRUE) or hide grid (FALSE).
main	Main title.
xlab	X-axis label.
ylab	Y-axis label.
probCol	Color of the probability values.
fitCol	Color of the model fit.
confCol	Color of the confidence bounds.
intCol	Color of the intervals for interval censored models.
gridCol	Color of the grid.
signif	Significant digits of results

Value

The function returns no value.

Examples

```
library(WeibullR)
library(WeibullR.plotly)
failures<-c(30, 49, 82, 90, 96)
obj<-wblr.conf(wblr.fit(wblr(failures)))
plotly_wblr(obj)
```

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