Package 'distWorkshop'

	November 4, 2019			
Title I	Distributional analyses of linguistic data in the GAMM framework			
Version	n 1.0			
Descri	Description Data sets and code for distributional analyses of linguistic data in the GAMM framework.			
Depen	ds R (>= 3.3.3), survival, mgcv, qgam, pammtools			
Impor	ts survival, mgcv, qgam, pammtools			
Licens	e GNU General Public License v3.0			
Encodi	ing UTF-8			
LazyD	ata true			
Roxyg	enNote 6.1.1.9000			
R to	pics documented:			
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ld	Lexical decision data			
Descri _j	ption xical decision data from the British Lexicon Project (Keuleers et al., 2012)			
Usage				
ld				

An object of class data.frame with 25401 rows and 6 columns.

Format

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Source

Keuleers, E., Lacey, P., Rastle, K., & Brysbaert, M. (2012). The British Lexicon Project: Lexical decision data for 28,730 monosyllabic and disyllabic English words. Behavior Research Methods, 44(1), 287-304.

nam

Word naming data

Description

Word naming data from the English Lexicon Project (Balota et al., 2007)

Usage

nam

Format

An object of class data. frame with 37107 rows and 6 columns.

Source

Balota, D. A., Yap, M. J., Hutchison, K. A., Cortese, M. J., Kessler, B., Loftis, B., ... & Treiman, R. (2007). The English lexicon project. Behavior Research Methods, 39(3), 445-459.

plotPAMs

Plot PAM

Description

Plot the results of a series of PAM model

Usage

```
plotPAMs(model, data, predictor = "logFrequency", response = "RT",
    se = 2, area = FALSE, num_grid = 100,
    pallet = colorRampPalette(rev(brewer.pal(n = 7, name =
    "RdYlBu")))(500), levs = NA, rugx = TRUE, rugy = TRUE, main = NA,
    xlab = NA, ylab = NA, ...)
```

Arguments

model A PAM model.

the task, as well as all predictors in these models. Note: this is the data frame in its raw format, not the data frame converted to the piece-wise exponential data

format.

predictor The predictor to be plotted. This predictor needs to be present in the fitted model,

as well as in data.

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response	The name of the response variable in data.
se	The number of standard errors that is used for the significance test. Default: 2 (i.e., 95% confidence intervals)
area	Should the significance of the effect at different predictor values be plotted. Default: FALSE.
pallet	A vector of color names that will be used for the contour plot.
levs	A vector of values at which the contour lines will be plotted. By default, these values are selected automatically
rugx	Should a rug be plotted for the x-axis? Default: TRUE
rugy	Should a rug be plotted for the y-axis? Default: TRUE

References

Fasiolo M., Goude Y., Nedellec R. and Wood S. N. (2017). Fast calibrated additive quantile regression. URL: https://arxiv.org/abs/1707.03307.

Keuleers, E., Lacey, P., Rastle, K., & Brysbaert, M. (2012). The British Lexicon Project: Lexical decision data for 28,730 monosyllabic and disyllabic English words. Behavior Research Methods, 44(1), 287-304.

Examples

 ${\tt plotQGAMs}$

Plot quantiles

Description

Plot the results of a series of QGAM models

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Usage

```
plotQGAMs(models, predictor, data, cols = c("#000080", "#1A1A9A",
    "#3333B3", "#4D4DCD", "#6666E6"), se = 2, xlab = NA, ylab = NA,
    main = NA, ylim = NA, ...)
```

Arguments

models A list of QGAM models as generated by mqgam().

The predictor to be plotted. This predictor needs to be present in the fitted models, as well as in data.

The data the QGAM models were fit to. Needs to include the response variable, as well as all predictors in these models.

Cols A vector of colors. The lines corresponding to the quantiles will be plotted in these colors.

Se The number of standard errors for the confidence intervals. Default: 2 (i.e., 95%

confidence intervals)

References

Fasiolo M., Goude Y., Nedellec R. and Wood S. N. (2017). Fast calibrated additive quantile regression. URL: https://arxiv.org/abs/1707.03307.

Keuleers, E., Lacey, P., Rastle, K., & Brysbaert, M. (2012). The British Lexicon Project: Lexical decision data for 28,730 monosyllabic and disyllabic English words. Behavior Research Methods, 44(1), 287-304.

Examples

pn 5

pn

Picture naming data

Description

Picture naming data (Balota et al., 2007)

Usage

pn

Format

An object of class data. frame with 484 rows and 6 columns.

Source

Székely, A., D'amico, S., Devescovi, A., Federmeier, K., Herron, D., Iyer, G., ... & Bates, E. (2003). Timed picture naming: Extended norms and validation against previous studies. Behavior Research Methods, Instruments, & Computers, 35(4), 621-633.

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