Package 'vizdraws'

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Title Visualize Draws from the Prior and Posterior Distributions			
Version 1.2			
Date 2022-02-04			
Description Interactive visualization for Bayesian prior and posterior distributions. When both distributions are provided the animation shows a transition from prior to posterior. Finally, the animation splits the distribution using the provided 'breaks' into bars that show the probability for each region. If no 'breaks' are providers it will use zero by default.			
License GPL-3			
Encoding UTF-8			
<pre>URL https://github.com/ignacio82/vizdraws/,</pre>			
https://vizdraws.martinez.fyi/			
Imports dplyr, htmlwidgets, magrittr, stats, stringr			
Suggests knitr, rmarkdown			
RoxygenNote 7.1.1			
VignetteBuilder knitr			
NeedsCompilation no			
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vizdraws

vizdraws

Description

vizdraws

Usage

```
vizdraws(
  prior = NULL,
  posterior = NULL,
  MME = 0,
  threshold = NULL,
  units = NULL,
  quantity = FALSE,
  tense = c("future", "past"),
  xlab = NULL,
  breaks = NULL,
  break_names = NULL,
  colors = NULL,
  width = NULL,
  height = NULL,
  xlim = NULL,
  font_scale = 1,
  display_mode_name = FALSE,
  title = "",
  stop_trans = FALSE,
  percentage = FALSE,
  elementId = NULL
)
```

Arguments

prior	prior distribution or draws from it. Currently 'Normal', 'uniform', 'beta', and 'gamma' are supported. This is an optional parameter but either this or posterior should be provided
posterior	draws from the posterior distribution. This is an optional parameter but either this or prior should be provided
MME	minimum meaningful effect. If not provided MME is set to zero
threshold	if the probability is greater than this threshold, you would feel comfortable making a decision
units	optional argument to specify the units of x. For example, dollars or applications
quantity	defaults to FALSE. When set to true text will change to reflect that you are predicting a quantity rather than a treatment effect

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tense either "future" or "past". This is the tense that it will be use in the description if

quantity is set to TRUE. NULL

xlab defaults to NULL breaks defaults to NULL break_names defaults to NULL

colors colors for the left, middle, and right areas. The defaults are c("#e41a1c", "#377eb8",

"#4daf4a")

width width for shiny
height height for shiny
xlim defaults to NULL
font_scale defaults to 1

display_mode_name

defaults to FALSE

title defaults to ''

stop_trans defaults to FALSE. When set to true, initial transition stops at posterior density.

defaults to FALSE. When set to true, the x axis tick format will be set to percent-

age.

elementId Use an explicit element ID for the widget (rather than an automatically generated

one).elementID for shiny

Value

A HTML widget object

Examples

```
if(interactive()){
set.seed(9782)
library(vizdraws)
vizdraws(prior= rnorm(100000))
}
```

vizdraws-shiny

Shiny bindings for vizdraws

Description

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

Usage

```
vizdrawsOutput(outputId, width = "100%", height = "100%")
rendervizdraws(expr, env = parent.frame(), quoted = FALSE)
```

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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.

expr An expression that generates a vizdraws
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.

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