Package: ggQQunif (via r-universe)

September 6, 2024

Type Package

Title Compare Big Datasets to the Uniform Distribution	
Version 0.1.5	
Description A quantile-quantile plot can be used to compare a sample of p-values to the uniform distribution. But when the dataset is big (i.e. > 1e4 p-values), plotting the quantile-quantile plot can be slow. geom_QQ uses all the data to calculate the quantiles, but thins it out in a way that focuses on points near zero before plotting to speed up plotting and decrease file size, when vector graphics are stored.	
License GPL-3	
Encoding UTF-8	
LazyData true	
Imports scales, ggplot2, dplyr	
RoxygenNote 6.0.1	
Repository https://rcorty.r-universe.dev	
RemoteUrl https://github.com/rcorty/ggqqunif	
RemoteRef HEAD	
RemoteSha 4af43e0e78e9f6e1e7d8965144f8ef6c28ae36c6	
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geom_QQ_unif

geom_QQ_unif	$geom_QQ_unif$

Description

```
geom_QQ_unif
```

Usage

```
geom_QQ_unif(mapping = NULL, data = NULL, geom = "point",
position = "identity", show.legend = NA, inherit.aes = TRUE,
keep_first_n = 1024, step = 8, sorted = FALSE)
```

Arguments

mapping Default list of aesthetic mappings to use for plot. If not specified, must be su pled in each layer added to the plot.	-r
Default dataset to use for plot. If not already a data.frame, will be converted one by fortify. If not specified, must be suppled in each layer added to the plot.	
geom Specify which geom to plot – 'point' and 'line' are the two choices that massense.	ıke
position Position adjustment, either as a string, or the result of a call to a position adjustment function.	ıst-
show.legend logical. Should this layer be included in the legends? NA, the default, included any aesthetics are mapped. FALSE never includes, and TRUE always included.	
inherit.aes If FALSE, overrides the default aesthetics, rather than combining with the This is most useful for helper functions that define both data and aesthetics a shouldn't inherit behaviour from the default plot specification.	
keep_first_n Keep the first n p-values (closest to 0).	
How many points to plot with each doubling, e.g. between 1/8 and 1/4, between 1/4 and 1/2, etc.	en
sorted logical. Are the p-values already sorted?	

Value

a ggplot

Examples

```
library(ggplot2)
library(dplyr)

set.seed(27599)
d <- data.frame(s = runif(n = 5e3))</pre>
```

scale_x_QQ 3

```
d %>%
ggplot(mapping = aes(sample = s)) +
geom_QQ_unif() +
scale_x_QQ() +
scale_y_QQ() +
theme_minimal()
```

 $scale_x_QQ$

 $scale_x_QQ$

Description

Scale the axes to show negative log 10 of the p-values.

Usage

```
scale_x_QQ()
scale_y_QQ()
```

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