Package 'SDPrism2D'

October 12, 2022

Type Package

Title Visualizing the Standard Deviation as the Size of a Prism

Version 0.1.1

Maintainer Hieu Nguyen <hieunguyen04062003@gmail.com>

Description
We visualize the standard deviation of a data set as the size of a prism whose volume equals the total volume of several prisms made from the Empirical Cumulative Distribution Function.

License GPL-3

Encoding UTF-8

NeedsCompilation no

Author Hieu Nguyen [aut, cre],
Tom Nguyen [aut],
Mamunur Rashid [aut],
Jyotirmoy Sarkar [aut]

Repository CRAN

Date/Publication 2022-09-21 08:20:02 UTC

R topics documented:

`sdprism2d` *Visualizing the Standard Deviation as the Size of a Prism*

Description

We visualize the standard deviation of a data set as the size of a prism whose volume equals the total volume of several prisms made from the Empirical Cumulative Distribution Function.

Usage

```
sdprism2d(data, hlim = NULL, xyscale = NULL)
```

Arguments

data	The data that a user inputs, usually a vector of values.
hlim	Optional, 4 by default. The height limit for the plot of step 2, step3, and step 4.
xyscale	Optional, 4 by default. The ratio of scales between the x-axis and the y-axis.

Value

No return value, the function will open a new window and display the graphs of the 4 steps of visualizing the standard deviation.

Examples

```
sdprism2d(c(10,18,23,30,36),4,4)
```

Index