Package ‘EasyDescribe’

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Type Package

Title A Convenient Way of Descriptive Statistics

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Depends R (>= 3.5.0)

Imports multiCA, CATT, gmodels, psych, rcompanion, FSA, trend

Description Descriptive Statistics is essential for publishing articles. This package can perform descriptive statistics according to different data types. If the data is a continuous variable, the mean and standard deviation or median and quartiles are automatically output; if the data is a categorical variable, the number and percentage are automatically output. In addition, if you enter two variables, the first variable will be described hierarchically based on the second variable and the statistical differences between different groups will be compared using appropriate statistical methods. And for groups more than two, the post hoc test will be applied. For more information on the methods we used, please see the following references:
David, F. B. (1972) <doi:10.1080/01621459.1972.10481279>,
Dunn, O. J. (1964) <doi:10.1080/00401706.1964.10490181>,
Copenhaver, M. D. and Holland, B. S. (1988) <doi:10.1080/00949658808811082>,

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EasyDescribe-package  A Convenient Way of Descriptive Statistics

Description

EasyDescribe provide a convenient way of descriptive statistics.

fundescribe  A Convenient Way of Descriptive Statistics

Description

This function can perform descriptive statistics according to different data types.

Usage

fundescribe(x, y, data = NULL, na.rm = TRUE)

Arguments

x The variable to be statistically described.
y An optional variable need to be a factor, or a character, or a logical vector.
data An optional parameter, the name of the data containing x and y.
na.rm An optional parameter, if FALSE, the information of NA will be given.
Details

This function can perform descriptive statistics according to different data types. If the data is a continuous variable, the mean and standard deviation or median and quartile are automatically output; if the data is a categorical variable, the number and percentage are automatically output. In addition, if you enter two variables, the first variable will be described hierarchically based on the second variable and the statistical differences between different groups will be compared using appropriate statistical methods. And for groups more than two, the post hoc test will be applied.

Value

No return value, called for side effects.

Author(s)

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References


### Examples

```r
data(T2D)
fundescribe(T2D$age)
fundescribe(gender, data = T2D)
fundescribe(education, diabetes, data = T2D)
fundescribe(T2D$glucose, T2D$diabetes)
```

### Description

A data for 20 diabetes patients. The data were fabricated.

### Usage

```r
T2D
```

### Format

A data.frame contains 20 obs of 8 variables. The variables are:

- **ID** The ID of these 20 people.
- **gender** A character ("F" and "M").
- **age** A numeric.
- **education** A ordered factor ("1"<"2"<"3"<"4").
- **marriage** A logical.
- **smoke** A factor (0: "never smoker", 1: "current smoker", 2: "ex-smoker").
- **glucose** A numeric.
- **diabetes** A factor (0: "normal people", 1: "patient").
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