

Package ‘Mychisq’

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Type Package

Title Chi-Squared Test for Goodness of Fit and Independence Test

Version 0.1.3

Language en-US

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Description The chi-squared test for goodness of fit
and independence test.

License GPL-3

Encoding UTF-8

Imports stats,graphics

RoxygenNote 7.1.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

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gofchisq *Goodness of fit test*

Description

This function is the goodness of fit test

Usage

```
gofchisq(x, p, conf.level = 0.95)
```

Arguments

x	a vector of observed
p	probability of each group
conf.level	confidence level

Value

output for goodness of fit test

References

Chernoff, H.; Lehmann, E. L.(1954) <doi:10.1214/aoms/1177728726>.

Examples

```
x=c(12,9,10,7,12)
prob=c(1/5,1/5,1/5,1/5,1/5) #1:1:1:1:1
gofchisq(x=x,p=prob)
```

indchisq *Independence test*

Description

This function is for independence test

Usage

```
indchisq(0, conf.level = 0.95)
```

Arguments

0	an observed matrix has a rows and b columns
conf.level	confidence level

Value

output for independence test

References

Plackett, R. L. (1983). <doi:10.2307/1402731>.

Examples

```
v <- c(80,60,150,50,40,20)
X<- matrix(v,ncol=2,byrow = TRUE) # 3x2
indchisq(X)
```

plotchisq *Plot of Chi-squared distribution*

Description

The plot of Chi-squared distribution with k degrees of freedom

Usage

```
plotchisq(df = 8)
```

Arguments

df degrees of freedom

Value

The figure of Chi-squared distribution with k degrees of freedom

Examples

```
plotchisq(df=10)
```

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