

Package ‘Mychisq’

July 21, 2025

Type Package

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

Version 0.1.3

Language en-US

Maintainer Atchanut Rattanalertnusorn <atchanut_r@rmutt.ac.th>

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

Author Atchanut Rattanalertnusorn [cre, aut],
Jiranan Choojai [aut],
Chutima Philadee [aut],
Kittipong Klinjan [aut],
Issaraporn Thiamsorn [aut]

Repository CRAN

Date/Publication 2022-03-16 11:10:02 UTC

Contents

gofchisq	2
indchisq	2
plotchisq	3

Index	4
--------------	----------

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(O, conf.level = 0.95)
```

Arguments

O	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	<i>Plot of Chi-squared distribution</i>
-----------	---

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)
```

Index

`gofchisq`, 2

`indchisq`, 2

`plotchisq`, 3