

# 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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**Repository** CRAN

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gofchisq                      *Goodness of fit test*

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**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)
```

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indchisq                      *Independence test*

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**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)
```

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plotchisq	<i>Plot of Chi-squared distribution</i>
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**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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