

Package: `chisq.posthoc.test` (via `r-universe`)

September 1, 2024

Type Package

Title A Post Hoc Analysis for Pearson's Chi-Squared Test for Count Data

Version 0.1.3

Description Perform post hoc analysis based on residuals of Pearson's Chi-squared Test for Count Data based on T. Mark Beasley & Randall E. Schumacker (1995) <[doi:10.1080/00220973.1995.9943797](https://doi.org/10.1080/00220973.1995.9943797)>.

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URL <http://chisq-posthoc-test.ebbert.nrw/>

BugReports <https://github.com/ebbertd/chisq.posthoc.test/issues>

Suggests knitr, testthat

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Repository <https://ebbertd.r-universe.dev>

RemoteUrl <https://github.com/ebbertd/chisq.posthoc.test>

RemoteRef HEAD

RemoteSha 186d2ca6bbdba9fc19601aff4696ae1b85e7e0b0

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chisq.posthoc.test *Perform post hoc analysis based on residuals of Pearson's Chi-squared Test for Count Data.*

Description

Perform post hoc analysis based on residuals of Pearson's Chi-squared Test for Count Data.

Usage

```
chisq.posthoc.test(x, method = "bonferroni", round = 4, alpha = 0.05,
  ...)
```

Arguments

x	A matrix passed on to the chisq.test function.
method	The p adjustment method to be used. This is passed on to the p.adjust function.
round	Number of digits to round the p.value to. Defaults to 4.
alpha	The alpha value to the compare the p values to. Defaults to 0.05.
...	Additional arguments passed on to the chisq.test function.

Value

A table with the adjusted p value for each x y combination.

References

Agresti, A. (2007). *An Introduction to Categorical Data Analysis*, 2nd ed. New York: John Wiley & Sons. Page 38.

Beasley, T. M., & Schumacker, R. E. (1995). Multiple Regression Approach to Analyzing Contingency Tables: Post Hoc and Planned Comparison Procedures. *The Journal of Experimental Education*, 64(1), 79–93.

Examples

```
# Data from Agresti(2007) p.39
M <- as.table(rbind(c(762, 327, 468), c(484, 239, 477)))
dimnames(M) <- list(gender = c("F", "M"),
  party = c("Democrat", "Independent", "Republican"))

# Pass data matrix to chisq.posthoc.test function
chisq.posthoc.test(M, alpha = 0.05)
```

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