

Package ‘relen’

November 4, 2015

Type Package

Title Compute Relative Entropy

Version 1.0.1

Date 2015-11-04

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Description

This function computes the relative entropy (H) as an index for qualitative variation of a factor.

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NeedsCompilation no

Repository CRAN

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relen-package	<i>Compute Relative Entropy</i>
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This function computes the relative entropy (H) as an index for qualitative variation of a factor. Any factor can be used as argument. H ist computed as follows: $H = (-1/\ln(k))*\sum(hj*\ln(hj))$

Details

Package: relen
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Version: 1.0.1
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License: GPL-2

```
relen(x)
```

Author(s)

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References

Eid, M., Gollwitzer, M. & Schmitt, M. (2013). Statistik und Forschungsmethoden (3 korr.Auflage)
Weinheim: Beltz. p105ff

Examples

```
relen(iris$Species)
```

relen	<i>Compute Relative Entropy</i>
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Description

This function computes the relative entropy (H) as an index for qualitative variation of a factor. Any factor can be used as argument. H is computed as follows: $H = (-1/\ln(k)) * \sum(h_j * \ln(h_j))$

Usage

```
relen(x)
```

Arguments

x A factor with k levels.

Value

The output will be between 0 and one whereas 0 means minimum variation (all units are in one category).

Author(s)

Soeren Braehmer

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