# Package: CoxR2 (via r-universe)

# September 10, 2024

Type Package	
<b>Title</b> R-Squared Measure Based on Partial LR Statistic, for the Cox PH Regression Model	
Version 1.0	
<b>Date</b> 2020-02-28	
Author Hyeri You, Ronghui Xu	
Maintainer Hyeri You <h2you@health.ucsd.edu></h2you@health.ucsd.edu>	
<b>Description</b> Calculate the R-squared, aka explained randomness, based on the partial likelihood ratio statistic under the Cox Proportional Hazard model [J O'Quigley, R Xu, J Stare (2005) <doi:10.1002 sim.1946="">].</doi:10.1002>	
<b>Depends</b> survival, stats	
License GPL-2	
NeedsCompilation no	
<b>Date/Publication</b> 2020-03-19 14:10:08 UTC	
Repository https://hyeriu.r-universe.dev	
RemoteUrl https://github.com/cran/CoxR2	
RemoteRef HEAD	
<b>RemoteSha</b> 248c2fdc29dfbd8197149893316e1be60e02ab78	
Contents	
coxr2	2
Index	4

2 coxr2

coxr2

R-Squared under the Cox model

# Description

Calculate the R-squared, aka explained randomness, based on the partial likelihood ratio statistic under the Cox model.

## Usage

```
##object is the result of a 'coxph'
coxr2(object)
```

### Arguments

object

The result of a coxph fit

### **Details**

Calculate the R-squared based on the partial likelihood ratio statistic under the Cox model. Difference in log partial likelihoods between the fitted model and the null model with no regressors is divided by the number of uncensored events, while the existing summary function divides it by the number of total observations.

#### Value

nevent number of uncensored events

logtest partial likelihood ratio test statistics

rsq explained randomness

# Author(s)

Hyeri You, Rounghui Xu

#### References

John O'Quigley, Ronghui Xu and Janez Stare, (2005), Explained randomness in proportional hazards models, STATISTICS IN MEDICINE, 24:479-489.

#### See Also

coxph, summary.coxph

coxr2

# Examples

# **Index**

coxr2, 2