Package 'base.rms'

October 12, 2022

Title Convert Regression Between Base Function and 'rms' Package

Version 1.0

Description We perform linear, logistic, and cox regression using the base functions lm(),
glm(), and coxph() in the R software and the 'survival' package. Likewise, we
can use ols(), lrm() and cph() from the 'rms' package for the same
functionality. Each of these two sets of commands has a different focus.
In many cases, we need to use both sets of commands in the same situation,
e.g. we need to filter the full subset model using AIC, and we need to build
a visualization graph for the final model. 'base.rms' package can help you to switch
between the two sets of commands easily.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports rms, survival, do, splines, stats

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2020-08-01 11:10:08 UTC

R topics documented:

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coxph2cph   *Convert results of cox regression from coxph() to cph()*

Description

Convert results of cox regression from coxph() in 'survival' package to cph() in 'rms' package.

Usage

```
coxph2cph(fit)
```

Arguments

fit   cox regression results of coxph()

Value

results of coxph()

Examples

```
library(survival)
fit <- coxph(Surv(mpg,vs)~am+gear+carb,data=mtcars)
coxph2cph(fit)
```

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cph2coxph   *Convert results of cox regression from cph() to coxph()*

Description

Convert results of cox regression from cph() in 'rms' package to coxph() in 'stats' package.

Usage

```
cph2coxph(fit)
```

Arguments

fit   cox regression results of cph()

Value

results of coxph()

Examples

```
library(rms)
fit <- cph(formula = Surv(mpg, vs) ~ am + gear + carb, data = mtcars)
cph2coxph(fit)
```

---

lm2ols	*Convert results of lm() to ols()*

Description

Convert results of lm() from 'stats' package to ols() from 'rms' package.

Usage

```
lm2ols(fit)
```

Arguments

fit   reults of lm()

Value

results of ols()

Examples

```
fit <- lm(mpg ~ disp,data=mtcars)
lm2ols(fit)
```

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logit2lrm	*Convert results of logistic regression from glm() to lrm()*

Description

Convert results of logistic regression from glm() in 'stats' package to lrm() in 'rms' package.

Usage

```
logit2lrm(fit)
```

Arguments

fit   logistic regression reults of glm()

Value

results of lrm()

Examples

```
fit <- glm(vs~mpg+cyl,data=mtcars, family = binomial(link = 'logit'))
logit2lrm(fit)
```

---

lrm2logit   *Convert results of logistic regression from lrm() to glm()*

Description

Convert results of logistic regression from lrm() in 'rms' package to glm() in 'stats' package.

Usage

```
lrm2logit(fit)
```

Arguments

fit   logistic regression reults of lrm()

Value

results of glm()

Examples

```
library(rms)
fit <- lrm(vs ~ mpg + cyl, data = mtcars)
lrm2logit(fit)
```

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ols2lm   *Convert results of ols() to lm()*

Description

Convert results of ols() from 'rms' package to lm() from 'stats' package.

Usage

```
ols2lm(fit)
```

Arguments

fit   reults of ols()

Value

results of lm()

Examples

```
library(rms)
fit <- ols(mpg ~ disp^2,data=mtcars)
ols2lm(fit)
```

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