

# Package ‘base.rms’

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**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.

**License** GPL-3

**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

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coxph2cph	<i>Convert results of cox regression from coxph() to cph()</i>
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**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	<i>Convert results of cox regression from cph() to coxph()</i>
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**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)
```

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

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**Description**

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

**Usage**

```
lm2ols(fit)
```

**Arguments**

fit                    results of lm()

**Value**

results of ols()

**Examples**

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

---

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 results 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 results of lrm()

**Value**

results of glm()

**Examples**

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

---

**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**                    results of ols()

**Value**

results of lm()

**Examples**

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

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