boxlinre

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1. Load library and dataset

```
library(boxlinre)
```

```
##
## Attaching package: 'boxlinre'
```

```
## The following objects are masked from 'package:stats':
##
##     coef, resid
```

```
## The following object is masked from 'package:base':
##
##     summary
```

```
library(ggplot2)
library(gridExtra)

data(iris)
```

2. Create formula and fitting the model

```
formula = Sepal.Length ~ Sepal.Width + Petal.Length + Petal.Width
m = linreg(formula, iris)
summary(m)
```

```
## Call:
## linreg(formula = Sepal.Width + Petal.Length + Petal.Width, data = iris)
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.8560     0.2508  7.4010        0 ***
## Sepal.Width    0.6508     0.0666  9.7654        0 ***
## Petal.Length   0.7091     0.0567 12.5025        0 ***
## Petal.Width   -0.5565     0.1275 -4.3629        0 ***
## Residual standard error: 0.3145 on 146 degrees of freedom
```

The model is fitted and we can see the summary about coefficients.

3. Inspect the residuals

First the residuals:

```
summary(resid(m))
```

```
##     Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
## -0.82816 -0.21989  0.01875  0.00000  0.19709  0.84570
```