Package 'meifly'

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Type Package

Title Interactive Model Exploration using 'GGobi'

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Author Hadley Wickham <h.wickham@gmail.com>

Maintainer Hadley Wickham <h.wickham@gmail.com>

Description Exploratory model analysis with <http://ggobi.org>.
Fit and graphical explore ensembles of linear models.

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URL https://github.com/hadley/meifly

BugReports https://github.com/hadley/meifly/issues

Imports leaps, MASS, plyr

Encoding UTF-8

RoxygenNote 7.2.0

NeedsCompilation no

Repository CRAN

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Contents

`coef.ensemble` *Calculcate coefficients for all models in ensemble. Returns raw, t-value, absolute t-value, and standardised coefficent values.*

Description

Calculcate coefficients for all models in ensemble. Returns raw, t-value, absolute t-value, and standardised coefficent values.

Usage

```
## S3 method for class 'ensemble'
coef(object, ...)
```

Arguments

`object`	ensemble of models
`...`	other arguments ignored

`findmodels` *General ensemble of models from models in global workspace'*

Description

General ensemble of models from models in global workspace'

Usage

```
findmodels(modeltype = "lm", dataset, pattern)
```

Arguments

`modeltype`	model class
`dataset`	if specified, all models must use this dataset
`pattern`	pattern of model object names to match

fitall — *Fit all combinations of x variables (2^p).*

Description

This technique generalises `fitbest`. While it is much slower it will work for any type of model.

Usage

```
fitall(y, x, method = "lm", ...)
```

Arguments

`y`	vector y values
`x`	matrix of x values
`method`	name of method used to fit the model, e.g `lm`,`rlm`
`...`	other arguments passed on to `method`

Examples

```
y <- swiss$Fertility
x <- swiss[, -1]
mods <- fitall(y, x, "lm")
```

fitbest — *Use the leaps package to generate the best subsets.*

Description

Use the leaps package to generate the best subsets.

Usage

```
fitbest(formula, data, nbest = 10, ...)
```

Arguments

`formula`	model formula
`data`	data frame
`nbest`	number of subsets of each size to record
`...`	other arguments passed to `regsubsets`

Examples

```
y <- swiss$Fertility
mods <- fitbest(Fertility ~ ., swiss)
```

lmboot *Generate linear models by bootstrapping observations*

Description

Generate linear models by bootstrapping observations

Usage

```
lmboot(formula, data, n = 100)
```

Arguments

formula	model formula
data	data set
n	number of bootstrapped data sets to generate

meifly *Interactive model ensemble exploration.*

Description

Interactive model ensemble exploration.

residuals.ensemble *Calculate residuals for all models in ensemble.*

Description

Calculate residuals for all models in ensemble.

Usage

```
## S3 method for class 'ensemble'
residuals(object, ...)
```

Arguments

object	ensemble of models
...	other arguments ignored

Value

data.frame of class resid_ensemble

See Also

summary.resid_ensemble

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summary.ensemble *Returns degrees of freedom, log likelihood, R-squared, AIC, BIC and adjusted R-squared.*

Description

Returns degrees of freedom, log likelihood, R-squared, AIC, BIC and adjusted R-squared.

Usage

```
## S3 method for class 'ensemble'
summary(object, ...)
```

Arguments

object	ensemble of models
...	other arguments ignored

---

summary.resid_ensemble *Summarise residuals from ensemble.*

Description

Summarise residuals from ensemble.

Usage

```
## S3 method for class 'resid_ensemble'
summary(object, data = attr(object, "data"), ...)
```

Arguments

object	model residuals from residuals.ensemble
data	associated data set
...	other arguments ignored

summary.variable_ensemble *Summarise variable ensemble.*

Description

Provides variable level statistics.

Usage

```
## S3 method for class 'variable_ensemble'
summary(object, ...)
```

Arguments

object	ensemble of models
...	other arguments ignored

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