

Package ‘radiant.model’

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Type Package

Title Model Menu for Radiant: Business Analytics using R and Shiny

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Description The Radiant Model menu includes interfaces for linear and logistic regression, Neural Networks, model evaluation, decision analysis, and simulation. The application extends the functionality in radiant.data.

Depends R (>= 3.3.0),
radiant.data (>= 0.6.0)

Imports radiant.basics (>= 0.6.0),
shiny (>= 0.14),
nnet (>= 7.3.12),
NeuralNetTools (>= 1.4.0),
sandwich (>= 2.3.4),
car (>= 2.1.3),
ggplot2 (>= 2.1.0),
gridExtra (>= 2.0.0),
data.tree (>= 0.4.0),
yaml (>= 2.1.13),
stringr (>= 1.1.0),
pryr (>= 0.1.2),
lubridate (>= 1.6.0),
tidyr (>= 0.6.0),
dplyr (>= 0.5),
magrittr (>= 1.5),
DiagrammeR (>= 0.8.4),
import (>= 1.1.0),
methods

Suggests testthat (>= 1.0.0),
covr (>= 1.2.0)

URL <https://github.com/radiant-rstats/radiant.model>

BugReports <https://github.com/radiant-rstats/radiant.model/issues>

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LazyData true

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ann	<i>Artificial Neural Networks</i>
-----	-----------------------------------

Description

Artificial Neural Networks

Usage

```
ann(dataset, rvar, evar, type = "classification", lev = "", size = 1,
     decay = 0.5, wts = "None", seed = NA, check = "standardize",
     data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
rvar	The response variable in the logit (probit) model
evar	Explanatory variables in the model
type	Model type (i.e., "classification" or "regression")
lev	The level in the response variable defined as <code>_success_</code>
size	Number of units (nodes) in the hidden layer
decay	Parameter decay
wts	Weights to use in estimation
seed	Random seed to use as the starting point
check	Optional estimation parameters ("standardize" is the default)
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See <http://radiant-rstats.github.io/docs/model/ann.html> for an example in Radiant

Value

A list with all variables defined in ann as an object of class ann

See Also

[summary.ann](#) to summarize results

[plot.ann](#) to plot results

[predict.ann](#) for prediction

Examples

```
result <- ann("titanic", "survived", c("pclass","sex"), lev = "Yes")
result <- ann("titanic", "survived", c("pclass","sex"))
result <- ann("diamonds", "price", c("carat","clarity"), type = "regression")
```

auc	<i>Area Under the Curve (AUC)</i>
-----	-----------------------------------

Description

Area Under the Curve (AUC)

Usage

```
auc(pred, rvar, lev)
```

Arguments

pred	Prediction or predictor
rvar	Response variable
lev	The level in the response variable defined as <code>_success_</code>

Details

See <http://radiant-rstats.github.io/docs/model/evalbin.html> for an example in Radiant

Value

AUC statistic

See Also

[evalbin](#) to calculate results

[summary.evalbin](#) to summarize results

[plot.evalbin](#) to plot results

Examples

```
auc(mtcars$mpg, mtcars$vs, 1)
```

catalog	<i>Catalog sales for men's and women's apparel</i>
---------	--

Description

Catalog sales for men's and women's apparel

Usage

```
data(catalog)
```

Format

A data frame with 200 rows and 5 variables

Details

Description provided in attr(catalog,"description")

confint_robust	<i>Confidence interval for robust estimators</i>
----------------	--

Description

Confidence interval for robust estimators

Usage

```
confint_robust(object, parm, level = 0.95, vcov = NULL, ...)
```

Arguments

object	A fitted model object
parm	A specification of which parameters are to be given confidence intervals, either a vector of numbers or a vector of names. If missing, all parameters are considered
level	The confidence level required
vcov	Covariance matrix generated by, e.g., sandwich::vcovHC
...	Additional argument(s) for methods

Details

Wrapper for confint.default with robust standard errors. See <http://stackoverflow.com/a/3820125/1974918>

 confusion

Confusion matrix

Description

Confusion matrix

Usage

```
confusion(dataset, pred, rvar, lev = "", margin = 1, cost = 1,
  train = "", method = "xtile", data_filter = "", ...)
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
pred	Predictions or predictors
rvar	Response variable
lev	The level in the response variable defined as <code>_success_</code>
margin	Margin on each customer purchase
cost	Cost for each connection (e.g., email or mailing)
train	Use data from training ("Training"), validation ("Validation"), both ("Both"), or all data ("All") to evaluate model evalbin
method	Use either <code>ntile</code> or <code>xtile</code> to split the data (default is <code>xtile</code>)
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/evalbin.html> for an example in Radiant

Value

A list of results

See Also

[summary.evalbin](#) to summarize results

[plot.evalbin](#) to plot results

Examples

```
result <- evalbin("titanic", c("age", "fare"), "survived")
```

crs	<i>Collaborative Filtering</i>
-----	--------------------------------

Description

Collaborative Filtering

Usage

```
crs(dataset, id, prod, pred, rate, name = "pred", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
id	String with name of the variable containing user ids
prod	String with name of the variable with product ids
pred	Products to predict for
rate	String with name of the variable with product ratings
name	Name for the prediction variable
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See <http://radiant-rstats.github.io/docs/model/crs.html> for an example in Radiant

Value

A data.frame with the original data and a new column with predicted ratings

direct_marketing	<i>Direct marketing data</i>
------------------	------------------------------

Description

Direct marketing data

Usage

```
data(direct_marketing)
```

Format

A data frame with 1,000 rows and 12 variables

Details

Description provided in `attr(direct_marketing,"description")`

dtree	Create a decision tree
-------	------------------------

Description

Create a decision tree

Usage

```
dtree(yl, opt = "max")
```

Arguments

yl	A yaml string or a list (e.g., from <code>yaml::yaml.load_file()</code>)
opt	Find the maximum ("max") or minimum ("min") value for each decision node

Details

See <http://radiant-rstats.github.io/docs/model/dtree.html> for an example in Radiant

Value

A list with the initial tree and the calculated tree

See Also

[summary.dtree](#) to summarize results
[plot.dtree](#) to plot results
[sensitivity.dtree](#) to plot results

dtree_parser	Parse yaml input for dtree to provide (more) useful error messages
--------------	--

Description

Parse yaml input for dtree to provide (more) useful error messages

Usage

```
dtree_parser(yl)
```

Arguments

yl	A yaml string
----	---------------

Details

See <http://radiant-rstats.github.io/docs/model/dtree.html> for an example in Radiant

Value

An updated yaml string or a vector messages to return to the users

See Also

[dtree](#) to calculate tree

[summary.dtree](#) to summarize results

[plot.dtree](#) to plot results

dvd	<i>Data on DVD sales</i>
-----	--------------------------

Description

Data on DVD sales

Usage

```
data(dvd)
```

Format

A data frame with 20,000 rows and 4 variables

Details

Binary purchase response to coupon value. Description provided in attr(dvd,"description")

evalbin	<i>Model evalbin</i>
---------	----------------------

Description

Model evalbin

Usage

```
evalbin(dataset, pred, rvar, lev = "", qnt = 10, margin = 1, cost = 1,  
        train = "", method = "xtile", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
pred	Predictions or predictors
rvar	Response variable
lev	The level in the response variable defined as <code>_success_</code>
qnt	Number of bins to create
margin	Margin on each customer purchase
cost	Cost for each connection (e.g., email or mailing)
train	Use data from training ("Training"), validation ("Validation"), both ("Both"), or all data ("All") to evaluate model evalbin
method	Use either <code>ntile</code> or <code>xtile</code> to split the data (default is <code>xtile</code>)
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See <http://radiant-rstats.github.io/docs/model/evalbin.html> for an example in Radiant

Value

A list of results

See Also

`summary.evalbin` to summarize results

`plot.evalbin` to plot results

Examples

```
result <- evalbin("titanic", c("age","fare"), "survived")
```

evalreg

Model evalreg

Description

Model evalreg

Usage

```
evalreg(dataset, pred, rvar, train = "", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
pred	Predictions or predictors
rvar	Response variable
train	Use data from training ("Training"), validation ("Validation"), both ("Both"), or all data ("All") to evaluate model <code>evalreg</code>
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See <http://radiant-rstats.github.io/docs/model/evalreg.html> for an example in Radiant

Value

A list of results

See Also

`summary.evalreg` to summarize results

`plot.evalreg` to plot results

find_max

Find maximum value of a vector

Description

Find maximum value of a vector

Usage

```
find_max(var, val = "")
```

Arguments

var	Variable to find the maximum for
val	Variable to find the value for at the maximum of var

Value

Value of val at the maximum of var

find_min	<i>Find minimum value of a vector</i>
----------	---------------------------------------

Description

Find minimum value of a vector

Usage

```
find_min(var, val = "")
```

Arguments

var	Variable to find the minimum for
val	Variable to find the value for at the maximum of var

Value

Value of val at the minimum of var

houseprices	<i>Houseprices</i>
-------------	--------------------

Description

Houseprices

Usage

```
data(houseprices)
```

Format

A data frame with 128 home sales and 6 variables

Details

Description provided in attr(houseprices,"description")

ideal	<i>Ideal data for linear regression</i>
-------	---

Description

Ideal data for linear regression

Usage

```
data(ideal)
```

Format

A data frame with 1,000 rows and 4 variables

Details

Description provided in attr(ideal,"description")

logistic	<i>Generalized linear models (GLM)</i>
----------	--

Description

Generalized linear models (GLM)

Usage

```
logistic(dataset, rvar, evar, lev = "", int = "", wts = "None",
  check = "", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
rvar	The response variable in the logit (probit) model
evar	Explanatory variables in the model
lev	The level in the response variable defined as <code>_success_</code>
int	Interaction term to include in the model
wts	Weights to use in estimation
check	Optional estimation parameters. "standardize" to output standardized coefficient estimates. "stepwise" to apply step-wise selection of variables
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See <http://radiant-rstats.github.io/docs/model/logistic.html> for an example in Radiant

Value

A list with all variables defined in `logistic` as an object of class `logistic`

See Also

`summary.logistic` to summarize the results

`plot.logistic` to plot the results

`predict.logistic` to generate predictions

`plot.model.predict` to plot prediction output

Examples

```
result <- logistic("titanic", "survived", c("pclass","sex"), lev = "Yes")
result <- logistic("titanic", "survived", c("pclass","sex"))
```

plot.ann	<i>Plot method for the ann function</i>
----------	---

Description

Plot method for the `ann` function

Usage

```
## S3 method for class 'ann'
plot(x, shiny = FALSE, ...)
```

Arguments

<code>x</code>	Return value from <code>ann</code>
<code>shiny</code>	Did the function call originate inside a shiny app
<code>...</code>	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/ann.html> for an example in Radiant

See Also

`ann` to generate results

`summary.ann` to summarize results

`predict.ann` for prediction

Examples

```
result <- ann("titanic", "survived", c("pclass","sex"), lev = "Yes")
plot(result, plots = c("imp","net"))
```

plot.confusion	<i>Plot method for the confusion matrix</i>
----------------	---

Description

Plot method for the confusion matrix

Usage

```
## S3 method for class 'confusion'  
plot(x, scale_y = FALSE, shiny = FALSE, ...)
```

Arguments

x	Return value from evalreg
scale_y	Free scale in faceted plot of the confusion matrix (TRUE or FALSE)
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/evalreg.html> for an example in Radiant

See Also

[evalreg](#) to generate results
[summary.evalreg](#) to summarize results

plot.crs	<i>Plot method for the crs function</i>
----------	---

Description

Plot method for the crs function

Usage

```
## S3 method for class 'crs'  
plot(x, shiny = FALSE, ...)
```

Arguments

x	Return value from crs
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/crs.html> for an example in Radiant

See Also

[crs](#) to generate results

[summary.crs](#) to summarize results

plot.dtree

Plot method for the dtree function

Description

Plot method for the dtree function

Usage

```
## S3 method for class 'dtree'  
plot(x, symbol = "$", dec = 2, final = FALSE,  
     orient = "LR", shiny = FALSE, ...)
```

Arguments

x	Return value from dtree
symbol	Monetary symbol to use (\$ is the default)
dec	Decimal places to round results to
final	If TRUE plot the decision tree solution, else the initial decision tree
orient	Plot orientation: LR for vertical and TD for horizontal
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/dtree.html> for an example in Radiant

See Also

[dtree](#) to generate the result

[summary.dtree](#) to summarize results

[sensitivity.dtree](#) to plot results

plot.evalbin	<i>Plot method for the evalbin function</i>
--------------	---

Description

Plot method for the evalbin function

Usage

```
## S3 method for class 'evalbin'  
plot(x, plots = c("lift", "gains"), shiny = FALSE, ...)
```

Arguments

x	Return value from evalbin
plots	Plots to return
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/evalbin.html> for an example in Radiant

See Also

[evalbin](#) to generate results
[summary.evalbin](#) to summarize results

Examples

```
evalbin("titanic", "age", "survived") %>% plot  
evalbin("titanic", c("age", "fare"), "survived") %>% plot  
evalbin("titanic", c("age", "fare"), "survived", method = "xtile") %>% plot  
evalbin("titanic", c("age", "fare"), "survived") %>% summary
```

plot.evalreg	<i>Plot method for the evalreg function</i>
--------------	---

Description

Plot method for the evalreg function

Usage

```
## S3 method for class 'evalreg'  
plot(x, shiny = FALSE, ...)
```

Arguments

x	Return value from evalreg
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/evalreg.html> for an example in Radiant

See Also

[evalreg](#) to generate results
[summary.evalreg](#) to summarize results

plot.logistic	<i>Plot method for the logistic function</i>
---------------	--

Description

Plot method for the logistic function

Usage

```
## S3 method for class 'logistic'
plot(x, plots = "", conf_lev = 0.95, intercept = FALSE,
     shiny = FALSE, custom = FALSE, ...)
```

Arguments

x	Return value from logistic
plots	Plots to produce for the specified GLM model. Use "" to avoid showing any plots (default). "hist" shows histograms of all variables in the model. "scatter" shows scatter plots (or box plots for factors) for the response variable with each explanatory variable. "dashboard" is a series of four plots used to visually evaluate model. "coef" provides a coefficient plot
conf_lev	Confidence level to use for coefficient and odds confidence intervals (.95 is the default)
intercept	Include the intercept in the coefficient plot (TRUE or FALSE). FALSE is the default
shiny	Did the function call originate inside a shiny app
custom	Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/ for options.
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/logistic.html> for an example in Radiant

See Also

[logistic](#) to generate results
[plot.logistic](#) to plot results
[predict.logistic](#) to generate predictions
[plot.model.predict](#) to plot prediction output

Examples

```
result <- logistic("titanic", "survived", c("pclass","sex"), lev = "Yes")
plot(result, plots = "coef")
```

plot.model.predict	<i>Plot method for model.predict functions</i>
--------------------	--

Description

Plot method for model.predict functions

Usage

```
## S3 method for class 'model.predict'
plot(x, xvar = "", facet_row = ".",
     facet_col = ".", color = "none", conf_lev = 0.95, ...)
```

Arguments

x	Return value from predict functions (e.g., predict.regress)
xvar	Variable to display along the X-axis of the plot
facet_row	Create vertically arranged subplots for each level of the selected factor variable
facet_col	Create horizontally arranged subplots for each level of the selected factor variable
color	Adds color to a scatter plot to generate a heat map. For a line plot one line is created for each group and each is assigned a different colour
conf_lev	Confidence level to use for prediction intervals (.95 is the default)
...	further arguments passed to or from other methods

See Also

[predict.regress](#) to generate predictions
[predict.logistic](#) to generate predictions

Examples

```
regress("diamonds", "price", c("carat","clarity")) %>%
  predict(pred_cmd = "carat = 1:10") %>%
  plot(xvar = "carat")
logistic("titanic", "survived", c("pclass","sex","age"), lev = "Yes") %>%
  predict(pred_cmd="pclass=levels(pclass), sex=levels(sex), age=seq(0,100,20)") %>%
  plot(xvar = "age", color = "sex", facet_col = "pclass")
```

plot.regress

Plot method for the regress function

Description

Plot method for the regress function

Usage

```
## S3 method for class 'regress'
plot(x, plots = "", lines = "", conf_lev = 0.95,
     intercept = FALSE, shiny = FALSE, custom = FALSE, ...)
```

Arguments

x	Return value from regress
plots	Regression plots to produce for the specified regression model. Enter "" to avoid showing any plots (default). "hist" to show histograms of all variables in the model. "correlations" for a visual representation of the correlation matrix selected variables. "scatter" to show scatter plots (or box plots for factors) for the response variable with each explanatory variable. "dashboard" for a series of six plots that can be used to evaluate model fit visually. "resid_pred" to plot the explanatory variables against the model residuals. "coef" for a coefficient plot with adjustable confidence intervals. "leverage" to show leverage plots for each explanatory variable
lines	Optional lines to include in the select plot. "line" to include a line through a scatter plot. "loess" to include a polynomial regression fit line. To include both use c("line","loess")
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
intercept	Include the intercept in the coefficient plot (TRUE, FALSE). FALSE is the default
shiny	Did the function call originate inside a shiny app
custom	Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and http://docs.ggplot2.org/ for options.
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

See Also

[regress](#) to generate the results
[summary.regress](#) to summarize results
[predict.regress](#) to generate predictions

Examples

```

result <- regress("diamonds", "price", c("carat","clarity"))
plot(result, plots = "dashboard", lines = c("line","loess"))
plot(result, plots = "coef", conf_lev = .99, intercept = TRUE)
plot(result, plots = "hist")
plot(result, plots = "scatter", lines = c("line","loess"))
plot(result, plots = "correlations")
plot(result, plots = "resid_pred", lines = "line")

```

plot.repeater	<i>Plot repeated simulation</i>
---------------	---------------------------------

Description

Plot repeated simulation

Usage

```

## S3 method for class 'repeater'
plot(x, shiny = FALSE, ...)

```

Arguments

x	Return value from repeater
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

plot.simulater	<i>Plot method for the simulater function</i>
----------------	---

Description

Plot method for the simulater function

Usage

```

## S3 method for class 'simulater'
plot(x, shiny = FALSE, ...)

```

Arguments

x	Return value from simulater
shiny	Did the function call originate inside a shiny app
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/simulater> for an example in Radiant

See Also

[simulator](#) to generate the result
[summary.simulator](#) to summarize results

Examples

```
result <- simulator(const = "cost 3", norm = "demand 2000 1000",
                   discrete = "price 5 8 .3 .7",
                   form = "profit = demand * (price - cost)")
plot(result)
```

predict.ann	<i>Predict method for the ann function</i>
-------------	--

Description

Predict method for the ann function

Usage

```
## S3 method for class 'ann'
predict(object, pred_data = "", pred_cmd = "",
        conf_lev = 0.95, se = FALSE, dec = 3, ...)
```

Arguments

object	Return value from ann
pred_data	Provide the name of a dataframe to generate predictions (e.g., "titanic"). The dataset must contain all columns used in the estimation
pred_cmd	Generate predictions using a command. For example, 'pclass = levels(pclass)' would produce predictions for the different levels of factor 'pclass'. To add another variable use a ',' (e.g., 'pclass = levels(pclass), age = seq(0,100,20)')
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/ann.html> for an example in Radiant

See Also

[ann](#) to generate the result
[summary.ann](#) to summarize results

Examples

```
result <- logistic("titanic", "survived", c("pclass","sex"), lev = "Yes")
predict(result, pred_cmd = "pclass = levels(pclass)")
logistic("titanic", "survived", c("pclass","sex"), lev = "Yes") %>%
  predict(pred_cmd = "sex = c('male','female')")
logistic("titanic", "survived", c("pclass","sex"), lev = "Yes") %>%
  predict(pred_data = "titanic")
```

predict.logistic	<i>Predict method for the logistic function</i>
------------------	---

Description

Predict method for the logistic function

Usage

```
## S3 method for class 'logistic'
predict(object, pred_data = "", pred_cmd = "",
  conf_lev = 0.95, se = FALSE, dec = 3, ...)
```

Arguments

object	Return value from logistic
pred_data	Provide the name of a dataframe to generate predictions (e.g., "titanic"). The dataset must contain all columns used in the estimation
pred_cmd	Generate predictions using a command. For example, 'pclass = levels(pclass)' would produce predictions for the different levels of factor 'pclass'. To add another variable use a ',' (e.g., 'pclass = levels(pclass), age = seq(0,100,20)')
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/logistic.html> for an example in Radiant

See Also

[logistic](#) to generate the result
[summary.logistic](#) to summarize results
[plot.logistic](#) to plot results
[plot.model.predict](#) to plot prediction output

Examples

```
result <- logistic("titanic", "survived", c("pclass","sex"), lev = "Yes")
predict(result, pred_cmd = "pclass = levels(pclass)")
logistic("titanic", "survived", c("pclass","sex"), lev = "Yes") %>%
  predict(pred_cmd = "sex = c('male','female')")
logistic("titanic", "survived", c("pclass","sex"), lev = "Yes") %>%
  predict(pred_data = "titanic")
```

predict.model	<i>Predict method for model functions</i>
---------------	---

Description

Predict method for model functions

Usage

```
## S3 method for class 'model'
predict(object, pfun, mclass, pred_data = "", pred_cmd = "",
  conf_lev = 0.95, se = FALSE, dec = 3, ...)
```

Arguments

object	Return value from regress
pfun	Function to use for prediction
mclass	Model class to attach
pred_data	Name of the dataset to use for prediction
pred_cmd	Command used to generate data for prediction
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

predict.regress	<i>Predict method for the regress function</i>
-----------------	--

Description

Predict method for the regress function

Usage

```
## S3 method for class 'regress'  
predict(object, pred_data = "", pred_cmd = "",  
        conf_lev = 0.95, se = TRUE, dec = 3, ...)
```

Arguments

object	Return value from regress
pred_data	Name of the dataset to use for prediction
pred_cmd	Command used to generate data for prediction
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
se	Logical that indicates if prediction standard errors should be calculated (default = FALSE)
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

See Also

[regress](#) to generate the result
[summary.regress](#) to summarize results
[plot.regress](#) to plot results

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))  
predict(result, pred_cmd = "carat = 1:10")  
predict(result, pred_cmd = "clarity = levels(clarity)")  
result <- regress("diamonds", "price", c("carat","clarity"), int = c("carat:clarity"))  
dpred <- getdata("diamonds") %>% slice(1:10)  
predict(result, pred_data = "dpred")  
rm(dpred, envir = .GlobalEnv)
```

print.ann.predict	<i>Print method for predict.ann</i>
-------------------	-------------------------------------

Description

Print method for predict.ann

Usage

```
## S3 method for class 'ann.predict'
print(x, ..., n = 10)
```

Arguments

x	Return value from prediction method
...	further arguments passed to or from other methods
n	Number of lines of prediction results to print. Use -1 to print all lines

print.logistic.predict	<i>Print method for logistic.predict</i>
------------------------	--

Description

Print method for logistic.predict

Usage

```
## S3 method for class 'logistic.predict'
print(x, ..., n = 10)
```

Arguments

x	Return value from prediction method
...	further arguments passed to or from other methods
n	Number of lines of prediction results to print. Use -1 to print all lines

print.model.predict *Print method for the model prediction*

Description

Print method for the model prediction

Usage

```
## S3 method for class 'model.predict'  
print(x, ..., n = 10, header = "", lev = "")
```

Arguments

x	Return value from prediction method
...	further arguments passed to or from other methods
n	Number of lines of prediction results to print. Use -1 to print all lines
header	Header line
lev	The level in the response variable defined as <code>_success_</code> for classification models

print.regress.predict *Print method for predict.regress*

Description

Print method for predict.regress

Usage

```
## S3 method for class 'regress.predict'  
print(x, ..., n = 10)
```

Arguments

x	Return value from prediction method
...	further arguments passed to or from other methods
n	Number of lines of prediction results to print. Use -1 to print all lines

radiant.model	<i>radiant.model</i>
---------------	----------------------

Description

radiant.model
Launch Radiant in the default browser

Usage

radiant.model()

Details

See <http://radiant-rstats.github.io/docs> for documentation and tutorials

radiant.model-deprecated	<i>Deprecated function(s) in the radiant.model package</i>
--------------------------	--

Description

These functions are provided for compatibility with previous versions of radiant. They will eventually be removed.

Usage

regression(...)

Arguments

... Parameters to be passed to the updated functions

Details

regression is now a synonym for [regress](#)
 glm_reg is now a synonym for [logistic](#)
 performance is now a synonym for [evalbin](#)

regress	<i>Linear regression using OLS</i>
---------	------------------------------------

Description

Linear regression using OLS

Usage

```
regress(dataset, rvar, evar, int = "", check = "", data_filter = "")
```

Arguments

dataset	Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant
rvar	The response variable in the regression
evar	Explanatory variables in the regression
int	Interaction terms to include in the model
check	"standardize" to see standardized coefficient estimates. "stepwise" to apply step-wise selection of variables in estimation
data_filter	Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

Value

A list of all variables used in the regress function as an object of class `regress`

See Also

[summary.regress](#) to summarize results
[plot.regress](#) to plot results
[predict.regress](#) to generate predictions

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))
result <- regress("diamonds", "price", c("carat","clarity"), check = "standardize")
```

render.DiagrammeR	<i>Method to render DiagrammeR plots</i>
-------------------	--

Description

Method to render DiagrammeR plots

Usage

```
## S3 method for class 'DiagrammeR'
render(object, ...)
```

Arguments

object	DiagrammeR plot
...	Additional arguments

repeater	<i>Repeat simulation</i>
----------	--------------------------

Description

Repeat simulation

Usage

```
repeater(nr = 12, vars = "", grid = "", sum_vars = "", byvar = "sim",
  fun = "sum_rm", form = "", seed = "", name = "", sim = "")
```

Arguments

nr	Number times to repeat the simulation
vars	Variables to use in repeated simulation
grid	Expression to use in grid search for constants
sum_vars	(Numeric) variables to summaries
byvar	Variable(s) to group data by before summarizing
fun	Functions to use for summarizing
form	A string with the formula to apply to the summarized data
seed	To repeat a simulation with the same randomly generated values enter a number into Random seed input box.
name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
sim	Return value from the simulator function

Examples

```
result <- simulator(const = "var_cost 5;fixed_cost 1000;", norm = "E 0 100;",
  discrete = "price 6 8 .3 .7;",
  form = "demand = 1000 - 50*price + E;
  profit = demand*(price-var_cost) - fixed_cost;
  profit_small = profit < 100",
  seed = "1234")
repeater(nr = 12, vars = c("E","price"), sum_vars = "profit",
  byvar = "sim", form = "profit_365 = profit < 36500",
  seed = "1234", sim = result) %>% head
```

scaledf	<i>Center or standardize variables in a data frame</i>
---------	--

Description

Center or standardize variables in a data frame

Usage

```
scaledf(dat, center = TRUE, scale = TRUE, sf = 2, wts = NULL,  
        calc = TRUE)
```

Arguments

dat	Data frame
center	Center data (TRUE or FALSE)
scale	Scale data (TRUE or FALSE)
sf	Scaling factor (default is 2)
wts	Weights to use (default is NULL for no weights)
calc	Calculate mean and sd or use available attributes

Value

Scaled data frame

sdw	<i>Standard deviation of weighted sum of variables</i>
-----	--

Description

Standard deviation of weighted sum of variables

Usage

```
sdw(...)
```

Arguments

...	A matched number of weights and stocks
-----	--

Value

A vector of standard deviation estimates

sensitivity	<i>Method to evaluate sensitivity of an analysis</i>
-------------	--

Description

Method to evaluate sensitivity of an analysis

Usage

```
sensitivity(object, ...)
```

Arguments

object	Object of relevant class for which to evaluate sensitivity
...	Additional arguments

sensitivity.dtree	<i>Evaluate sensitivity of the decision tree</i>
-------------------	--

Description

Evaluate sensitivity of the decision tree

Usage

```
## S3 method for class 'dtree'  
sensitivity(object, vars = NULL, decs = NULL,  
  shiny = FALSE, ...)
```

Arguments

object	Return value from dtree
vars	Variables to include in the sensitivity analysis
decs	Decisions to include in the sensitivity analysis
shiny	Did the function call originate inside a shiny app
...	Additional arguments

Details

See <http://radiant-rstats.github.io/docs/model/dtree.html> for an example in Radiant

See Also

[dtree](#) to generate the result
[plot.dtree](#) to summarize results
[summary.dtree](#) to summarize results

simulater

*Simulate data for decision analysis***Description**

Simulate data for decision analysis

Usage

```
simulater(const = "", lnorm = "", norm = "", unif = "", discrete = "",
  binom = "", sequ = "", grid = "", data = "", form = "", seed = "",
  name = "", nr = 1000, dat = NULL)
```

Arguments

const	A string listing the constants to include in the analysis (e.g., "cost = 3; size = 4")
lnorm	A string listing the log-normally distributed random variables to include in the analysis (e.g., "demand 2000 1000" where the first number is the log-mean and the second is the log-standard deviation)
norm	A string listing the normally distributed random variables to include in the analysis (e.g., "demand 2000 1000" where the first number is the mean and the second is the standard deviation)
unif	A string listing the uniformly distributed random variables to include in the analysis (e.g., "demand 0 1" where the first number is the minimum value and the second is the maximum value)
discrete	A string listing the random variables with a discrete distribution to include in the analysis (e.g., "price 5 8 .3 .7" where the first set of numbers are the values and the second set the probabilities)
binom	A string listing the random variables with a binomial distribution to include in the analysis (e.g., "crash 100 .01") where the first number is the number of trials and the second is the probability of success)
sequ	A string listing the start and end for a sequence to include in the analysis (e.g., "trend 1 100 1"). The number of 'steps' is determined by the number of simulations.
grid	A string listing the start, end, and step for a set of sequences to include in the analysis (e.g., "trend 1 100 1"). The number of rows in the expanded will override the number of simulations
data	Name of a dataset to be used in the calculations
form	A string with the formula to evaluate (e.g., "profit = demand * (price - cost)")
seed	To repeat a simulation with the same randomly generated values enter a number into Random seed input box.
name	To save the simulated data for further analysis specify a name in the Sim name input box. You can then investigate the simulated data by choosing the specified name from the Datasets dropdown in any of the other Data tabs.
nr	Number of simulations
dat	Data list from previous simulation. Used by repeater function

Details

See <http://radiant-rstats.github.io/docs/model/simulater.html> for an example in Radiant

Value

A data.frame with the created variables

See Also

`summary.simulater` to summarize results

`plot.simulater` to plot results

Examples

```
result <- simulater(const = "cost 3", norm = "demand 2000 1000",
  discrete = "price 5 8 .3 .7",
  form = "profit = demand * (price - cost)")
```

sim_cleaner

Clean input command string

Description

Clean input command string

Usage

```
sim_cleaner(x)
```

Arguments

x Input string

Value

Cleaned string

sim_splitter	<i>Split input command string</i>
--------------	-----------------------------------

Description

Split input command string

Usage

```
sim_splitter(x, symbol = " ")
```

Arguments

x	Input string
symbol	Symbol used to split the command string

Value

Split input command string

sim_summary	<i>Print simulation summary</i>
-------------	---------------------------------

Description

Print simulation summary

Usage

```
sim_summary(dat, dc = getclass(dat), fun = "", dec = 4)
```

Arguments

dat	Simulated data
dc	Variable classes
fun	Summary function to apply
dec	Number of decimals to show

store.model	<i>Store residuals from a model</i>
-------------	-------------------------------------

Description

Store residuals from a model

Usage

```
## S3 method for class 'model'
store(object, ..., name = "residuals")
```

Arguments

object	Return value from a model function
...	Additional arguments
name	Variable name(s) assigned to predicted values

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

Examples

```
regress(diamonds, rvar = "price", evar = c("carat", "cut")) %>%
  store %>% head
```

store.model.predict	<i>Store predicted values generated in model functions</i>
---------------------	--

Description

Store predicted values generated in model functions

Usage

```
## S3 method for class 'model.predict'
store(object, ..., data = attr(object, "pred_data"),
      name = "prediction")
```

Arguments

object	Return value from model function
...	Additional arguments
data	Data or dataset name (e.g., data = mtcars or data = "mtcars")
name	Variable name(s) assigned to predicted values

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

Examples

```
regress(diamonds, rvar = "price", evar = c("carat", "cut")) %>%
  predict(diamonds) %>%
  store(name = "pred, pred_low, pred_high") %>% head
```

store_ann	<i>Deprecated function to store predictions from an ANN</i>
-----------	---

Description

Deprecated function to store predictions from an ANN

Usage

```
store_ann(object, data = object$dataset, name = paste0("predict_ann"))
```

Arguments

object	Return value from <code>predict.ann</code>
data	Dataset name
name	Variable name assigned to the residuals or predicted values

Details

Use `store.model.predict` or `store.model` instead

store_crs	<i>Store predicted values generated in the crs function</i>
-----------	---

Description

Store predicted values generated in the crs function

Usage

```
store_crs(pred, data, name = "pred_crs")
```

Arguments

pred	Return value from <code>predict.nnet</code>
data	Dataset name
name	Variable name assigned to the predicted values

Details

See <http://radiant-rstats.github.io/docs/model/crs.html> for an example in Radiant

store_glm	<i>Deprecated function to store logistic regression residuals and predictions</i>
-----------	---

Description

Deprecated function to store logistic regression residuals and predictions

Usage

```
store_glm(object, data = object$dataset, type = "residuals",
  name = paste0(type, "_logit"))
```

Arguments

object	Return value from logistic or predict.logistic
data	Dataset name
type	Residuals ("residuals") or predictions ("predictions"). For predictions the dataset name must be provided
name	Variable name assigned to the residuals or predicted values

Details

Use [store.model.predict](#) or [store.model](#) instead

store_reg	<i>Deprecated function to store regression residuals and predictions</i>
-----------	--

Description

Deprecated function to store regression residuals and predictions

Usage

```
store_reg(object, data = object$dataset, type = "residuals",
  name = paste0(type, "_reg"))
```

Arguments

object	Return value from regress or predict.regress
data	Dataset name
type	Residuals ("residuals") or predictions ("predictions"). For predictions the dataset name must be provided
name	Variable name assigned to the residuals or predicted values

Details

Use [store.model.predict](#) or [store.model](#) instead

summary.ann	<i>Summary method for the ann function</i>
-------------	--

Description

Summary method for the ann function

Usage

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

Arguments

object	Return value from ann
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/ann.html> for an example in Radiant

See Also

[ann](#) to generate esults
[plot.ann](#) to plot results
[predict.ann](#) for prediction

Examples

```
result <- ann("titanic", "survived", "pclass", lev = "Yes")  
summary(result)
```

summary.crs	<i>Summary method for Collaborative Filter</i>
-------------	--

Description

Summary method for Collaborative Filter

Usage

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

Arguments

object	Return value from crs
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/crs.html> for an example in Radiant

See Also

[crs](#) to generate the results

[plot.crs](#) to plot results

summary.dtree

Summary method for the dtree function

Description

Summary method for the dtree function

Usage

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

Arguments

object	Return value from simulator
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/dtree.html> for an example in Radiant

See Also

[dtree](#) to generate the results

[plot.dtree](#) to plot results

[sensitivity.dtree](#) to plot results

summary.evalbin

Summary method for the evalbin function

Description

Summary method for the evalbin function

Usage

```
## S3 method for class 'evalbin'
summary(object, prn = TRUE, ...)
```


Arguments

object	Return value from evalbin
prn	Print model evalbin results (default is TRUE)
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/evalbin.html> for an example in Radiant

See Also

[evalbin](#) to summarize results

[plot.evalbin](#) to plot results

Examples

```
evalbin("titanic", "age", "survived") %>% summary
evalbin("titanic", c("age", "fare"), "survived") %>% summary
```

summary.evalreg

Summary method for the evalreg function

Description

Summary method for the evalreg function

Usage

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

Arguments

object	Return value from evalreg
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/evalreg.html> for an example in Radiant

See Also

[evalreg](#) to summarize results

[plot.evalreg](#) to plot results

summary.logistic

*Summary method for the logistic function***Description**

Summary method for the logistic function

Usage

```
## S3 method for class 'logistic'
summary(object, sum_check = "", conf_lev = 0.95,
        test_var = "", dec = 3, ...)
```

Arguments

object	Return value from logistic
sum_check	Optional output. "vif" to show multicollinearity diagnostics. "confint" to show coefficient confidence interval estimates. "odds" to show odds ratios and confidence interval estimates.
conf_lev	Confidence level to use for coefficient and odds confidence intervals (.95 is the default)
test_var	Variables to evaluate in model comparison (i.e., a competing models Chi-squared test)
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/logistic.html> for an example in Radiant

See Also

[logistic](#) to generate the results
[plot.logistic](#) to plot the results
[predict.logistic](#) to generate predictions
[plot.model.predict](#) to plot prediction output

Examples

```
result <- logistic("titanic", "survived", "pclass", lev = "Yes")
summary(result, test_var = "pclass")
res <- logistic("titanic", "survived", c("pclass", "sex"), int="pclass:sex", lev="Yes")
summary(res, sum_check = c("vif", "confint", "odds"))
titanic %>% logistic("survived", c("pclass", "sex", "age"), lev = "Yes") %>% summary("vif")
```

summary.regress	<i>Summary method for the regress function</i>
-----------------	--

Description

Summary method for the regress function

Usage

```
## S3 method for class 'regress'
summary(object, sum_check = "", conf_lev = 0.95,
        test_var = "", dec = 3, ...)
```

Arguments

object	Return value from regress
sum_check	Optional output. "rsme" to show the root mean squared error and the standard deviation of the residuals. "sumsquares" to show the sum of squares table. "vif" to show multicollinearity diagnostics. "confint" to show coefficient confidence interval estimates.
conf_lev	Confidence level used to estimate confidence intervals (.95 is the default)
test_var	Variables to evaluate in model comparison (i.e., a competing models F-test)
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

See Also

[regress](#) to generate the results
[plot.regress](#) to plot results
[predict.regress](#) to generate predictions

Examples

```
result <- regress("diamonds", "price", c("carat","clarity"))
summary(result, sum_check = c("rmse","sumsquares","vif","confint"), test_var = "clarity")
result <- regress("ideal", "y", c("x1","x2"))
summary(result, test_var = "x2")
ideal %>% regress("y", "x1:x3") %>% summary
```

summary.repeater	<i>Summarize repeated simulation</i>
------------------	--------------------------------------

Description

Summarize repeated simulation

Usage

```
## S3 method for class 'repeater'
summary(object, dec = 4, ...)
```

Arguments

object	Return value from repeater
dec	Number of decimals to show
...	further arguments passed to or from other methods

summary.simulater	<i>Summary method for the simulater function</i>
-------------------	--

Description

Summary method for the simulater function

Usage

```
## S3 method for class 'simulater'
summary(object, dec = 4, ...)
```

Arguments

object	Return value from simulater
dec	Number of decimals to show
...	further arguments passed to or from other methods

Details

See <http://radiant-rstats.github.io/docs/model/simulater.html> for an example in Radiant

See Also

[simulater](#) to generate the results
[plot.simulater](#) to plot results

Examples

```
result <- simulater(norm = "demand 2000 1000")
summary(result)
```

test_specs	<i>Add interaction terms to list of test variables if needed</i>
------------	--

Description

Add interaction terms to list of test variables if needed

Usage

```
test_specs(test_var, int)
```

Arguments

test_var	List of variables to use for testing for regress or logistic
int	Interaction terms specified

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

Value

A vector of variables names to test

Examples

```
test_specs("a", c("a:b", "b:c"))
```

var_check	<i>Check if main effects for all interaction effects are included in the model If ':' is used to select a range _evar_ is updated</i>
-----------	---

Description

Check if main effects for all interaction effects are included in the model If ':' is used to select a range _evar_ is updated

Usage

```
var_check(ev, cn, intv = "")
```

Arguments

ev	List of explanatory variables provided to _regress_ or _logistic_
cn	Column names for all explanatory variables in _dat_
intv	Interaction terms specified

Details

See <http://radiant-rstats.github.io/docs/model/regress.html> for an example in Radiant

Value

'vars' is a vector of right-hand side variables, possibly with interactions, 'iv' is the list of explanatory variables, and intv are interaction terms

Examples

```
var_check("a:d", c("a", "b", "c", "d"))  
var_check(c("a", "b"), c("a", "b"), "a:c")
```

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