Package 'burgle'

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Type Package

Title 'Burgle': Stealing the Necessary Parts of Model Objects

Version 0.1.2

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Description Provides a way to reduce model objects to necessary parts, making them easier to work with, store, share and simulate multiple values for new responses while allowing for parameter uncertainty.

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Encoding UTF-8

RoxygenNote 7.2.3

Imports stats, MASS, survival, riskRegression

Suggests flexsurv, nnet

Depends R (>= 4.0.0)

NeedsCompilation no

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Repository CRAN

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burgle_ *Burgle*

Description

Burgling what is necessary from different objects

Usage

```
burgle(object, ...)

## S3 method for class 'lm'
burgle(object, ...)

## S3 method for class 'glm'
burgle(object, ...)

## S3 method for class 'CauseSpecificCox'
burgle(object, ...)

## S3 method for class 'cph'
burgle(object, ...)

## S3 method for class 'flexsurvreg'
burgle(object, ...)

## S3 method for class 'multinom'
burgle(object, ...)

## S3 method for class 'coxph'
burgle(object, ...)
```

Arguments

object	the model object to burgle
...	must be left empty for now

Value

a burgle_ object

Examples

```
fit <- lm(Sepal.Length ~ Sepal.Width + Petal.Length, data = iris)
bfit <- burgle(fit)
object.size(fit)
object.size(bfit)
```

predict_burgle *Predict for burgle methods*

Description

Predict for burgle methods

Usage

```
## S3 method for class 'burgle_CauseSpecificCox'
predict(
  object,
  newdata = NULL,
  type = "lp",
  cause = 1,
  original = TRUE,
  draws = 1,
  sims = 1,
  times = NULL,
  ...
)

## S3 method for class 'burgle_cph'
predict(object, ...)

## S3 method for class 'burgle_flexsurvreg'
predict(
  object,
  newdata = NA,
  original = TRUE,
  draws = 1,
  sims = 1,
  type = "lp",
  times = NULL,
  ...
)

## S3 method for class 'burgle_multinom'
predict(
  object,
  newdata = NA,
  original = TRUE,
  draws = 1,
  sims = 1,
  type = "lp",
  floor = FALSE,
  seed = NULL,
```

```
  ...
)

## S3 method for class 'burgle_coxph'
predict(
  object,
  newdata = NA,
  original = TRUE,
  draws = 1,
  sims = 1,
  type = "lp",
  times = NULL,
  ...
)

## S3 method for class 'burgle_lm'
predict(
  object,
  newdata,
  original = TRUE,
  draws = 1,
  sims = 1,
  type = "lp",
  se = FALSE,
  limits = NULL,
  ...
)

## S3 method for class 'burgle_glm'
predict(
  object,
  newdata,
  original = TRUE,
  draws = 1,
  sims = 1,
  type = "lp",
  se = FALSE,
  ...
)
```

Arguments

object	the results of burgle_* object
newdata	new data of class data.frame
type	either 'lp', 'response', 'link' for glm or 'risk' if time dependent
cause	which cause do you want to predict
original	whether or not to predict using the original model

draws	how many different models to simulate
sims	how many simulated response to draw
times	if type = "risk" time for which to predict risk, if times and sims is multiple the return will be lists within lists
...	for future methods
floor	will set the minimum odds to 0, if negative odds exists
seed	a seed to specificy for simulating responses (multinomial only)
se	whether or not to include the standard error in the simulations
limits	limits (minimum and maximum) for simulated response values.

Value

either a matrix or list of new model predictions

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