

Package ‘formulize’

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Title Add Formula Interfaces to Modelling Functions

Version 0.1.0

Description Automatically generates wrappers for modelling functions that accept data as a data matrix X and a data vector y and produces a wrapper that allows users to specify input data with a formula and a data frame. In addition to generating formula interfaces, users may also generated wrapper S3 generics.

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Depends R (>= 3.4)

Imports rlang, recipes

Suggests covr, glmnet, testthat

ByteCompile true

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

NeedsCompilation no

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formulize	<i>Create a formula/recipe interface to a modelling method</i>
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Description

Create a formula/recipe interface to a modelling method

Usage

```
formulize(f)
```

Arguments

f A function with a matrix/vector interface. Assumes data is passed to this function via some combination of arguments x, X, y, Y

Value

The same function, wrapped to have formula/dataframe and recipe/dataframe interfaces.

Examples

```
library(glmnet)

glmnet_form <- formulize(cv.glmnet)

model <- glmnet_form(mpg ~ drat * hp - 1, mtcars)
predict(model, head(mtcars))
```

genericize	<i>Turn a modelling function into an S3 modelling generic</i>
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Description

Call this function for its side effects: (1) creating an S3 generic of the passed modelling function, (2) creating a default method that's exactly the X/y interface to formulize, (3) creating a formula method with formulize.

Usage

```
genericize(f, fname = NULL)
```

Arguments

- f Modelling function to turn into a generic.
- fname Optional name of new generic. Useful because otherwise the created generic masks the original modelling function.

Value

Nothing.

predict.wrapped *Predict on new data form a wrapped object*

Description

Predict on new data form a wrapped object

Usage

```
## S3 method for class 'wrapped'  
predict(object, newdata = NULL, ...)
```

Arguments

- object Object of class wrapped with a subclass with a valid predict method.
- newdata Data to predict on.
- ... Additional arguments to pass to the subclass predict method.

Value

Predictions from subclass predict method.

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