

Package ‘strip’

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Type Package

Title Lighten your R Model Outputs

Version 1.0.0

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Description The strip function deletes components of R model outputs that are useless for specific purposes, such as predict[ing], print[ing], summary[izing], etc.

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LazyData TRUE

Depends R (>= 3.1.3)

Imports rlist

Suggests caret, datasets, e1071, knitr, randomForest, stats, testthat, utils

URL <https://github.com/paulponcet/strip>

BugReports <https://github.com/paulponcet/strip/issues>

RoxygenNote 6.1.0

NeedsCompilation no

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keep	character. A vector of values among "everything", "predict", "print", and "summary". Except for <code>strip.lm</code> , currently only the values "everything", "predict", and "print", are implemented.
...	Additional arguments to be passed to other methods.
use_trim	boolean. For the <code>strip.train</code> method, if <code>use_trim=TRUE</code> and if <code>keep="predict"</code> , then the function applied is (if it exists) the <code>trim</code> function embedded as <code>object\$modelInfo\$trim</code> .

Details

If `keep="predict"`, components inside the list object are kept if they are needed by the `predict` method, otherwise they are set to `NULL`. If `keep=c("predict", "print")`, components are kept as soon as they are needed by one of the `predict` or `print` methods. If `keep="everything"`, object is returned with no modifications.

Currently the models supported are limited to the following list:

- `lm` and `glm`, the linear and generalized linear regression function from package **stat**;
- `loess`, the local polynomial regression function from package **stat**;
- `randomForest`, from package **randomForest**.

There is also a `strip` function for 'train' objects built with the **caret** package.

Further developments of the package should include additional models, and should enable additional `keep` values (e.g. `keep="summary"`, `keep="anova"`, etc.)

Value

A list of the same class as `object` is returned.

Author(s)

The method for `glm` objects is adapted from [Nina Zumel's post](#) on Win-Vector Blog.

The method for `randomForest` objects is adapted from [ReKa's answer](#) on StackExchange.

See Also

See [Nina Zumel's post](#) on Win-Vector Blog for further insight, examples, and motivations; [ReKa's answer](#) on StackExchange for reducing the size of a `randomForest` object; [this discussion](#) for limiting the 'footprint' of regression and classification objects within the **caret** package.

Examples

```
data("mtcars")
set.seed(110)
i = sample(2, nrow(mtcars), replace = TRUE, prob=c(0.8, 0.2))
r1 = lm(mpg ~ ., data = mtcars[i==1,])
r2 = strip(r1, keep = "predict")

# Estimate the objects' size as the size of their serialization
length(serialize(r1, NULL))
```

```
length(serialize(r2, NULL))

# Check that predictions are the same
p1 = predict(r1, newdata = mtcars[i==2,])
p2 = predict(r2, newdata = mtcars[i==2,])
identical(p1, p2) # TRUE
```

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