Package ‘zfit’

June 26, 2020

Type Package
Title Fit Models in a Pipe
Version 0.1.0
Author Magnus Thor Torfason
Maintainer Magnus Thor Torfason &lt;m@zulutime.net&gt;
Description The goal of ‘zfit’ is to improve the usage of basic model fitting functions within a piped workflow, in particular when passing and processing a data.frame using ‘dplyr’ or similar packages.
License MIT + file LICENSE
Language en-US
Encoding UTF-8
LazyData true
RoxygenNote 7.1.0
Suggests testthat, dplyr
Imports magrittr
NeedsCompilation no
Repository CRAN
Date/Publication 2020-06-26 16:00:02 UTC

R topics documented:

zfit ......................................................... 2
zglm ....................................................... 2
zlm ......................................................... 3
zlogit ..................................................... 4
zprint ..................................................... 4
zprobit ................................................... 5

Index 6
### zfit

**zfit: Fit Models in a Pipe**

**Description**

The goal of zfit is to improve the usage of basic model fitting functions within a piped workflow, in particular when passing and processing a tibble (or data.frame) using dplyr and associated packages.

### zglm

**Run a glm model in a pipe (see zlm)**

**Description**

Run a glm model in a pipe (see zlm)

**Usage**

```
zglm(data, formula, family = gaussian, ...)
```

**Arguments**

- `data`: A data.frame containing the model data.
- `formula`: The formula to be fitted.
- `family`: The family function to use for fitting the model.
- `...`: Other arguments to be passed to the glm function.

**Value**

A fitted model.

**See Also**

Other zfit: `zlm()`, `zlogit()`, `zprint()`, `zprobit()`
Run an lm model in a pipe

Description

This function wraps around the \texttt{lm} function in order to make it more friendly to pipe syntax (with the data first).

Usage

\texttt{zlm(data, formula, \ldots)}

Arguments

- \texttt{data} A \texttt{data.frame} containing the model data.
- \texttt{formula} The formula to be fitted.
- \texttt{\ldots} Other arguments to be passed to the \texttt{lm} function.

Value

A fitted model.

See Also

Other \texttt{zfit}: \texttt{zglm()}, \texttt{zlogit()}, \texttt{zprint()}, \texttt{zprobit()}

Examples

```r
# Pipe cars dataset into zlm for fitting
cars %>% zlm( speed ~ dist )
```

```r
# Process iris with filter before piping to zlm (requires dplyr)
if(require("dplyr")) {
  iris %>%
    filter(Species=="setosa") %>%
  zlm(Sepal.Length ~ Sepal.Width + Petal.Width)
}
```
zlogit  
*Run a logit model in a pipe (see zlm)*

**Description**

Run a logit model in a pipe (see zlm)

**Usage**

zlogit(data, formula, ...)

**Arguments**

- **data** A data.frame containing the model data.
- **formula** The formula to be fitted.
- **...** Other arguments to be passed to the glm function.

**Value**

A fitted model.

**See Also**

Other zfit: zglm(), zlm(), zprint(), zprobit()

zprint  
*Print the result of a function in a pipe but return original object*

**Description**

This function passes x to f and prints the result, but then returns the original x. It is useful in a pipe, when one wants a to print the derivative of an object in the pipe but then return or assign the original object. An example is printing the summary() of an estimated model but

**Usage**

zprint(x, f, ...)

**Arguments**

- **x** An object, typically in a pipe
- **f** A function to be applied to x before printing
- **...** Other arguments to be passed to f
zprobit

Value

The original object x

See Also

Other zfit: zglm(), zlm(), zlogit(), zprobit()

Examples

```r
m <- lm(speed ~ dist, cars) %>%
  zprint(summary) # prints summary(x)
  # m is the original model object

if(require("dplyr")) {
  cw_subset <- chickwts %>%
    zprint(count, feed, sort=TRUE) %>% # prints counts by feed
    filter(feed="soybean")
    # cw_subset is ungrouped, but filtered by feed
}
```

zprobit

Run a probit model in a pipe (see zlm)

Description

Run a probit model in a pipe (see zlm)

Usage

```r
zprobit(data, formula, ...)
```

Arguments

- **data**
  - A data.frame containing the model data.
- **formula**
  - The formula to be fitted.
- **...**
  - Other arguments to be passed to the glm function.

Value

A fitted model.

See Also

Other zfit: zglm(), zlm(), zlogit(), zprint()
Index

zfit, 2
zglm, 2, 3–5
zlm, 2, 3, 4, 5
zlogit, 2, 3, 4, 5
zprint, 2–4, 4, 5
zprobit, 2–3, 5