Package 'zfit'

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Type Package

Title Fit Models in a Pipe

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Description The goal of 'zfit' is to improve the usage of basic model fitting
functions within a piped work flow, in particular when passing
and processing a data.frame using 'dplyr' or similar packages.

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R topics documented:

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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 work flow, in particular when passing and processing a tibble (or data.frame) using `dplyr` and associated packages.

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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()`

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zlm   *Run an lm model in a pipe*

Description

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

Usage

```
zlm(data, formula, ...)
```

Arguments

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

Value

A fitted model.

See Also

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

Examples

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

# 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()

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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

Value

The original object x

See Also

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

Examples

```
m <- lm( speed ~ dist, cars) %>%
  zprint(summary) # prints summary(x)
m                 # 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 # cw_subset is ungrouped, but filtered by feed
}
```

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zprobit *Run a probit model in a pipe (see* zlm*)*

Description

Run a probit model in a pipe (see zlm)

Usage

```
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()

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