

Package ‘outreg’

October 14, 2022

Type Package

Title Regression Table for Publication

Version 0.2.2

Description Create regression tables for publication.
Currently supports 'lm', 'glm', 'survreg', and 'ivreg' outputs.

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Depends R (>= 3.0)

Imports magrittr, reshape2, sandwich, stats, stringr, tidyr, utils

Suggests AER, survival, testthat

RoxygenNote 5.0.1

URL <https://github.com/kota7/outreg>

BugReports <https://github.com/kota7/outreg/issues>

NeedsCompilation no

Author Kota Mori [aut, cre]

Maintainer Kota Mori <kmori05@gmail.com>

Repository CRAN

Date/Publication 2017-03-14 06:58:31

R topics documented:

get_display_names	2
outreg	2
outreg_stat_list	4

Index	5
--------------	----------

get_display_names	<i>Return display name for stats</i>
-------------------	--------------------------------------

Description

Return display name for stats

Usage

```
get_display_names(stats)
```

Arguments

stats	character vector of stats
-------	---------------------------

Value

character vector of display names

outreg	<i>Generate Regression Table</i>
--------	----------------------------------

Description

Generate a regression table in data.frame format from a set of model fit objects. Currently supports lm, glm, survreg, and ivreg model outcomes.

Usage

```
outreg(fitlist, digits = 3L, alpha = c(0.1, 0.05, 0.01),
       bracket = c("se"), starred = c("coef"), robust = FALSE, small = TRUE,
       constlast = FALSE, norepeat = TRUE, displayed = list(), ...)
```

Arguments

fitlist	list of regression outcomes
digits	number of dicimal places for real numbers
alpha	vector of significance levels to star
bracket	stats to be in brackets
starred	stats to put stars on
robust	if TRUE, robust standard error is used
small	if TRUE, small sample parameter distribution is used
constlast	if TRUE, intercept is moved to the end of coefficient list
norepeat	if TRUE, repeated variable names are replaced by a empty string
displayed	a list of named logicals to customize the stats to display
...	alternative way to specify which stats to display

Details

Use `outreg_stat_list` to see the available stats names. The stats names are to be used for specifying bracket, starred, and displayed options.

Statistics to include can be chosen by displayed option or by ``...``. For example, `outreg(fitlist, displayed = list(pv = TRUE))` is identical with `outreg(fitlist pv = TRUE)`, and p values of coefficients are displayed.

Value

regression table in `data.frame` format

Examples

```
fitlist <- list(lm(mpg ~ cyl, data = mtcars),
              lm(mpg ~ cyl + wt + hp, data = mtcars),
              lm(mpg ~ cyl + wt + hp + drat, data = mtcars))
outreg(fitlist)

# with custom regression names
outreg(setNames(fitlist, c('small', 'medium', 'large'))))

# star on standard errors, instead of estimate
outreg(fitlist, starred = 'se')

# include other stats
outreg(fitlist, pv = TRUE, tv = TRUE, se = FALSE)

# poisson regression
counts <- c(18,17,15,20,10,20,25,13,12)
outcome <- gl(3,1,9)
treatment <- gl(3,3)
fitlist2 <- list(glm(counts ~ outcome, family = poisson()),
               glm(counts ~ outcome + treatment, family = poisson()))
outreg(fitlist2)

# logistic regression
fitlist3 <- list(glm(cbind(ncases, ncontrols) ~ agegp,
                    data = esoph, family = binomial()),
               glm(cbind(ncases, ncontrols) ~ agegp + tobgp + alcgp,
                    data = esoph, family = binomial()),
               glm(cbind(ncases, ncontrols) ~ agegp + tobgp * alcgp,
                    data = esoph, family = binomial()))
outreg(fitlist3)

# survival regression
library(survival)
fitlist4 <- list(survreg(Surv(time, status) ~ ph.ecog + age,
                       data = lung),
```

```

survreg(Surv(time, status) ~ ph.ecog + age + strata(sex),
        data = lung))
outreg(fitlist4)

# tobit regression
fitlist5 <- list(survreg(Surv(durable, durable>0, type='left') ~ 1,
                        data=tobin, dist='gaussian'),
                survreg(Surv(durable, durable>0, type='left') ~ age + quant,
                        data=tobin, dist='gaussian'))
outreg(fitlist5)

# instrumental variable regression
library(AER)
data("CigarettesSW", package = "AER")
CigarettesSW$rprice <- with(CigarettesSW, price/cpi)
CigarettesSW$rincome <- with(CigarettesSW, income/population/cpi)
CigarettesSW$tdiff <- with(CigarettesSW, (taxes - tax)/cpi)

fitlist6 <- list(OLS = lm(log(packs) ~ log(rprice) + log(rincome),
                          data = CigarettesSW, subset = year == "1995"),
                IV1 = ivreg(log(packs) ~ log(rprice) + log(rincome) |
                            log(rincome) + tdiff + I(tax/cpi),
                            data = CigarettesSW, subset = year == "1995"),
                IV2 = ivreg(log(packs) ~ log(rprice) + log(rincome) |
                            log(population) + tdiff + I(tax/cpi),
                            data = CigarettesSW, subset = year == "1995"))
outreg(fitlist6)

```

outreg_stat_list *List of Statistics Available on outreg*

Description

Returns all available statistics on `outreg`. Statistics names can be used for customizing the outputs, e.g., to choose stats to display or to choose stats to put starts.

Usage

```
outreg_stat_list()
```

Value

a data.frame that matches stat name and display name

Examples

```
outreg_stat_list()
```

Index

`get_display_names`, [2](#)

`outreg`, [2](#), [4](#)

`outreg_stat_list`, [3](#), [4](#)