Package ‘outreg’

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Type Package
Title Regression Table for Publication
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Description Create regression tables for publication.
          Currently supports 'lm', 'glm', 'survreg', and 'ivreg' outputs.
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LazyData true
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Imports magrittr, reshape2, sandwich, stats, stringr, tidyr, utils
Suggests AER, survival, testthat
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get_display_names  

*Return display name for stats*

**Description**

Return display name for stats

**Usage**

get_display_names(stats)

**Arguments**

- **stats**  
  character vector of stats

**Value**

character vector of display names

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outreg  

*Generate Regression Table*

**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 decimal 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

```r
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),
```
# 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, (taxs - 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)

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**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()`
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