Package 'stargazer2'

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Type Package

Title Beautiful Regression Tables for Modern Econometrics Packages

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Description Produces publication-quality LaTeX, ASCII, and HTML regression tables. Designed as a drop-in replacement for the 'stargazer' package for 'lm' and 'glm' models, with added native support for 'fixest', 'plm', and 'alpaca' objects including automatic fixed-effect and random-effect indicator rows and SE-type detection. Standard errors can be supplied as variance-covariance matrices, numeric vectors, or auto-extracted from supported model objects. Follows the interface of Hlavac (2022) <https://CRAN.R-project.org/package=stargazer>.

License GPL-3

Encoding UTF-8

Imports stats

Suggests fixest (>= 0.11.0), alpaca, plm, sandwich, wooldridge, stargazer, knitr, rmarkdown, testthat (>= 3.0.0)

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`alpaca_vcovCL` *Cluster-robust variance-covariance matrix for alpaca feglm*

Description

Wraps `summary(mod, type = "clustered", cluster = cluster)` and returns a diagonal variance-covariance matrix that `stargazer` recognises and labels with the appropriate "clustered by ..." description.

Usage

```
alpaca_vcovCL(mod, cluster)
```

Arguments

`mod`	A fitted `feglm` object from the **alpaca** package.
`cluster`	A one-sided formula identifying the clustering variable(s). Use `~X` for one-way, `~X + Y` for two-way additive, or `~X^Y` for two-way interaction clustering.

Value

A square diagonal matrix of class `"vcovAlpacaCL"` with a `"cluster"` attribute containing the cluster formula.

Examples

```
if (requireNamespace("alpaca", quietly = TRUE)) {
  d <- data.frame(
    y   = rbinom(200, 1, 0.5),
    x1  = rnorm(200),
    grp = factor(rep(1:10, 20))
  )
  mod <- alpaca::feglm(y ~ x1 | grp, d, binomial("logit"))
  V   <- alpaca_vcovCL(mod, cluster = ~grp)
  stargazer(mod, vcov = list(V), type = "text")
}
```

alpaca_vcovSandwich *Heteroskedasticity-robust variance-covariance matrix for alpaca feglm*

Description

Wraps `summary(mod, type = "sandwich")` and returns a diagonal variance-covariance matrix that `stargazer` recognises and labels as "heteroskedasticity-robust standard errors".

Usage

```
alpaca_vcovSandwich(mod)
```

Arguments

mod	A fitted `feglm` object from the **alpaca** package.

Value

A square diagonal matrix of class `"vcovAlpacaSandwich"` with squared sandwich standard errors on the diagonal.

Examples

```
if (requireNamespace("alpaca", quietly = TRUE)) {
  d <- data.frame(
    y   = rbinom(200, 1, 0.5),
    x1  = rnorm(200),
    grp = factor(rep(1:10, 20))
  )
  mod <- alpaca::feglm(y ~ x1 | grp, d, binomial("logit"))
  V   <- alpaca_vcovSandwich(mod)
  stargazer(mod, vcov = list(V), type = "text")
}
```

stargazer *Produce Publication-Quality Regression Tables*

Description

Produces publication-quality regression tables, following the interface of the **stargazer** package, with native support for modern econometrics packages including **fixest** and **alpaca**. Outputs LaTeX, plain-text (ASCII), and HTML tables.

Usage

```
stargazer(
  ...,
  type = "latex",
  title = "",
  label = "",
  dep.var.labels = NULL,
  dep.var.caption = NULL,
  column.labels = NULL,
  column.separate = NULL,
  covariate.labels = NULL,
  coef.rename = NULL,
  omit = NULL,
  keep = NULL,
  omit.stat = NULL,
  digits = 3L,
  star.cutoffs = c(0.1, 0.05, 0.01),
  star.char = c("*", "**", "***"),
  notes = NULL,
  notes.append = TRUE,
  notes.align = NULL,
  notes.label = NULL,
  font.size = NULL,
  df = TRUE,
  no.space = FALSE,
  style = "stargazer2",
  obs.label = NULL,
  summary.stat = NULL,
  median = FALSE,
  vcov = NULL,
  se = NULL,
  se_label = NULL,
  out = NULL
)
```

Arguments

`...`	One or more fitted model objects. Supported classes: `lm`, `glm`, `plm`, `fixest` (`feols`, `fepois`, `fenegbin`, `feglm`), `alpaca::feglm`, and `summary.feglm`.
`type`	Character; output format. One of `"latex"` (default), `"text"`, or `"html"`.
`title`	Character; table caption.
`label`	Character; LaTeX cross-reference label (used with `type = "latex"` only).
`dep.var.labels`	Character vector; custom labels for the dependent variable(s). Applied in column order.
`dep.var.caption`	Character; caption text above the dep-var row. Default: `"\textit\{Dependent variable:\}"` for LaTeX.

`column.labels` Character vector; custom column header labels. Overrides the auto-detected model-type labels.

`column.separate`
Integer vector; controls how many consecutive columns share each `column.labels` entry. Unused in the current version.

`covariate.labels`
Character vector; display names for covariates, applied positionally after `omit`/`keep` filtering.

`coef.rename` Named character vector mapping raw coefficient names to new display names before the column union is computed. Names are the existing coefficient names; values are the replacement names. Useful for aligning TWFE event-study year indicators with relative-time labels from other estimators, e.g. `c("year::2004" = "t = -2", "year::2005" = "t = -1")`.

`omit` Character vector; regex patterns — covariates whose names match any pattern are excluded from the table.

`keep` Character vector; regex patterns — only covariates whose names match are included (applied after `omit`).

`omit.stat` Character vector; stat identifiers to suppress. Recognised values: `"n"`, `"r2"`, `"adj.r2"`, `"sigma"`, `"f"`, `"pr2"`, `"ll"`.

`digits` Integer; number of decimal places for coefficients, SEs, and most fit statistics. Default: `3`.

`star.cutoffs` Numeric vector of length 3; p-value thresholds for one, two, and three stars. Default: `c(0.1, 0.05, 0.01)`.

`star.char` Character vector of length 3; star symbols. Default: `c("*", "**", "***")`.

`notes` Character vector; additional table notes appended after the SE-type note.

`notes.append` Logical; if `FALSE`, the default SE-type and significance notes are replaced by `notes`. Default: `TRUE`.

`notes.align` Character; cell alignment for the note row in LaTeX (`"l"`, `"c"`, or `"r"`). `NULL` (default) defers to the `style` preset: `"l"` for `"stargazer2"` and `"aer"`, `"r"` for `"stargazer"` and `"qje"`.

`notes.label` Character; text preceding the note. Default: `"\textit\{Note:\} "`.

`font.size` Character; LaTeX font-size command (e.g. `"small"`, `"footnotesize"`). `NULL` (default) means no size command is inserted.

`df` Logical; if `TRUE` (default), display degrees of freedom alongside the Residual Std. Error and F Statistic rows. Set to `FALSE` to suppress the `(df = ...)` suffixes.

`no.space` Logical; suppress blank spacer rows in the table body. Only affects `style = "stargazer"`. Default: `FALSE`.

`style` Character; table formatting style. Controls overall layout, rule style, notes format, and significance-note wording.

`"stargazer2"` (Default) Clean layout: single `\hline` throughout, no `\cline`, full-width left-aligned notes cell ending in a period, p-value significance legend.

"stargazer" Replicates the original **stargazer** output byte-for-byte: double top rule with \\{[]-1.8ex{]}, \cline, blank spacer rows (controlled by no.space), right-aligned notes.

"aer" American Economic Review style: clean layout, no "Dependent variable:" caption, single bottom rule, left-aligned notes with text significance descriptions.

"qje" Quarterly Journal of Economics style: like "aer" but double bottom rule, right-aligned notes, and \textit{N} for the observations label.

obs.label — Character; overrides the label for the Observations row. Defaults to the style preset ("Observations" for most styles, "\textit\{N\}" for "qje").

summary.stat — Character vector; which summary statistics to include when stargazer is called with a data.frame. Recognised values: "n", "mean", "sd", "min", "max", "median", "p25", "p75". Default: c("n","mean","sd","min","max").

median — Logical; if TRUE, add a Median column to summary tables. Equivalent to including "median" in summary.stat. Default: FALSE.

vcov — List of variance-covariance matrices (one per model, or NULL for a given model to fall back to auto-extraction). Takes priority over se. The square root of the diagonal is extracted internally.

se — List of numeric vectors of standard errors (one per model, or NULL to fall back to auto-extraction). Used only when vcov is not supplied for a given model.

se_label — Character vector (one per model, or a single string applied to all) overriding the auto-detected SE-type description used in the table note. Useful when supplying a vcov matrix whose type cannot be detected automatically. Examples: "Heteroskedasticity-robust standard errors (HC1)", "Standard errors clustered by firm".

out — Character; file path. If provided, output is written to the file (appending the appropriate extension if absent). The table string is also returned invisibly.

Value

The rendered table as a single character string, returned invisibly. Also printed to the console unless out is specified.

Examples

```
m1 <- lm(mpg ~ cyl + hp, mtcars)
m2 <- lm(mpg ~ cyl + hp + wt, mtcars)
stargazer(m1, m2, type = "text")
stargazer(m1, m2, type = "latex")
```

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