Package 'panelsummary'

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Type Package

Title Create Publication-Ready Regression Tables with Panels

Version 0.1.0

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Description Create an automated regression table that is well-suited for models that are estimated with multiple dependent variables. 'panelsummary' extends 'modelsummary' (Arel-Bundock, V. (2022) <doi:10.18637/jss.v103.i01>) by allowing regression tables to be split into multiple sections with a simple function call. Utilize familiar arguments such as fmt, estimate, statis-tic, vcov, conf_level, stars, coef_map, coef_omit, coef_rename, gof_map, and gof_omit from 'mod-

elsummary' to clean the table, and additionally, add a row for the mean of the dependent variable without external manipulation.

License GPL (>= 3)

URL https://github.com/michaeltopper1/panelsummary,

https://michaeltopper1.github.io/panelsummary/

BugReports https://github.com/michaeltopper1/panelsummary/issues

Imports dplyr (>= 1.0.9), fixest (>= 0.10.4), kableExtra (>= 1.3.4), methods (>= 4.1.3), modelsummary (>= 1.0.2), rlang (>= 1.0.6), stringr (>= 1.4.1), tidyselect (>= 1.2.0)

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clean_raw	Pass a panelsummary::panelsummary_raw dataframe into kableEx-
	tra::kbl() with typical defaults

Description

'clean_raw' Passes a panelsummary::panelsummary_raw dataframe that has (or has not) been edited further into kableExtra::kbl() with default settings that look publication-ready. This includes changing the column names and fixing the alignment.

Usage

```
clean_raw(
   data.frame,
   alignment = NULL,
   colnames = NULL,
   format = NULL,
   caption = NULL
)
```

Arguments

data.frame	The data.frame (or tibble) from panelsummary::panelsummary_raw() that has been manipulated.
alignment	A character string. By default, it is set to left adjusting the first column, and centering the rest of the columns. For example, a model with three columns will have adjustment of "lcc".
colnames	An optional vector of strings. The vector of strings should have the same length as the number columns of the table. * 'NULL' (the default): colnames are defaulted to a whitespace, followed by (1), (2),etc.
format	A character string. Possible values are latex, html, pipe (Pandoc's pipe tables), simple (Pandoc's simple tables), and rst. The value of this argument will be automatically determined if the function is called within a knitr document. The format value can also be set in the global option knitr.table.format. If format is a function, it must return a character string.
caption	A string. The table caption.

Value

A raw data frame that is ready for further manipulation.

Examples

```
## Cleaning a panelsummary_raw dataframe with clean_raw
ols_1 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_2 <- mtcars |> fixest::feols(disp ~ cyl | gear + carb, cluster = ~hp)
panelsummary_raw(ols_1, ols_2) |> clean_raw()
```

connect_means

Merges the means to the modelsummary output dataframe

Description

'connect_means' connects the means to the modelsummary dataframe.

Usage

```
connect_means(panel_df, means)
```

Arguments

panel_df	The modelsummary dataframe supplied from modelsummary::modelsummary(x, output = "data.frame")
means	The list of named vectors of means which correspond to each model.

Value

A data.frame with the attached means.

models_supported

Description

all models supported by panelsummary

Usage

```
models_supported()
```

Value

a list of all modeltypes supported by panelsummary

Examples

models_supported()

panelsummary

Create a regression table with multiple panels

Description

'panelsummary' Creates a beautiful and customizable regression table with panels. This function is best used to summarize multiple dependent variables that are passed through the same regression models. This function returns a kableExtra object which can then be edited using kableExtra's suite of functions.

Usage

```
panelsummary(
    ...,
    panel_labels = NULL,
    mean_dependent = FALSE,
    colnames = NULL,
    caption = NULL,
    format = NULL,
    collapse_fe = FALSE,
    bold = FALSE,
    italic = FALSE,
    hline_after = FALSE,
    hline_before_fe = TRUE,
    fmt = 3,
```

panelsummary

```
estimate = "estimate",
statistic = "std.error",
vcov = NULL,
conf_level = 0.95,
stars = FALSE,
coef_map = NULL,
coef_omit = NULL,
coef_rename = NULL,
gof_map = NULL,
gof_omit = NULL)
```

Arguments

	A regression model or models (see panelsummary::models_supported for classes that are supported). * The regression model can be a list of models or a singular object. * If a list is passed in, one column for each list is created. Each argument will correspond to a panel. * If only one object is passed in, there will be no pan- els and the output will be similar to evaluating modelsummary::modelsummary() followed by kableExtra::kbl()
panel_labels	A character vector. How to label each panel in the table. * 'NULL' (the default): the panels will be labeled "Panel A:", "Panel B:",etc.
mean_dependent	A boolean. For use with fixest objects only. * 'FALSE' (the default): the mean of the dependent variable will not be shown in the resulting table. * 'TRUE': the mean of the dependent variable will be shown in the resulting table.
colnames	An optional vector of strings. The vector of strings should have the same length as the number columns of the table. * 'NULL' (the default): colnames are defaulted to a whitespace, followed by (1) , (2) ,etc.
caption	A string. The table caption.
format	A character string. Possible values are latex, html, pipe (Pandoc's pipe tables), simple (Pandoc's simple tables), and rst. The value of this argument will be automatically determined if the function is called within a knitr document. The format value can also be set in the global option knitr.table.format. If format is a function, it must return a character string.
collapse_fe	A boolean. For use with fixest objects only. Determines whether fixed effects should only be included in the bottom of the table. This is suited for when each panel has the same models with the same fixed effects. * 'FALSE' (the default): fixed effects are shown in each panel. * 'TRUE': fixed effects are shown only at the bottom of the final panel, separated by a horizontal line (see hline_before_fe)
bold	A boolean. Determines whether the panel names should be in bold font. * 'FALSE' (the default): the panel names are not in bold. * 'TRUE': the panel names are bolded
italic	A boolean. Determines whether the panel names should be in italics. * 'FALSE' (the default): the panel names are not in italics. * 'TRUE': the panel names will be in italics.

hline_after	A boolean. Adds a horizontal line after the panel labels. * 'FALSE' (the de- fault): there is not horizonal line after the panel labels. * 'TRUE': a horizontal line will appear after the panel labels.
hline_before_fe	2
	A boolean. To be used only when $collapse_fe = TRUE$, and hence with fixest objects only. Adds a horizontal line before the fixed effects portion of the table.
fmt	determines how to format numeric values
	 integer: the number of digits to keep after the decimal: format(x, digits = 1, nsmall = fmt, scientific = FALSE)
	• function: returns a formatted character string. For example, the format() function can be used in combination with the fmt argument for full control of number formatting: number of digits, number of digits after the decimal, scientific notation, etc. See the Examples section below.
	• character: passed to the sprintf function (e.g., '%.3f' keeps 3 digits with trailing zero). See ?sprintf
	 NULL: does not format numbers, which allows users to include function in the "glue" strings in the estimate and statistic arguments.
	 A named list to format distinct elements of the table differently. Names correspond to column names produced by get_estimates(model) or get_gof(model). Values are integers, characters, or functions, as described above. The fmt element is used as default for unspecified elements Ex: fmt=list("estimate"=2, "std.error"=1, "r.squared"=4, "fmt"=3)
	• LaTeX output: To ensure proper typography, all numeric entries are enclosed in the command, which requires the siunitx package to be loaded in the LaTeX preamble. This behavior can be altered with global options. See the 'Details' section.
estimate	a single string or a character vector of length equal to the number of mod- els. Valid entries include any column name of the data.frame produced by get_estimates(model), and strings with curly braces compatible with the glue package format. Examples:
	• "estimate"
	"{estimate} ({std.error}){stars}"
	"{estimate} [{conf.low}, {conf.high}]"
statistic	vector of strings or glue strings which select uncertainty statistics to report ver- tically below the estimate. NULL omits all uncertainty statistics.
	 "conf.int", "std.error", "statistic", "p.value", "conf.low", "conf.high", or any column name produced by: get_estimates(model)
	 glue package strings with braces, with or without R functions, such as: "{p.value} [{conf.low}, {conf.high}]"
	- "Std.Error: {std.error}"
	- "exp(estimate) * std.error"
	• Numbers are automatically rounded and converted to strings. To apply functions to their numeric values, as in the last glue example, users must

set fmt=NULL.

	• Parentheses are added automatically unless the string includes glue curly braces {}.
VCOV	robust standard errors and other manual statistics. The vcov argument accepts six types of input (see the 'Details' and 'Examples' sections below):
	 NULL returns the default uncertainty estimates of the model object string, vector, or (named) list of strings. "iid", "classical", and "constant" are aliases for NULL, which returns the model's default uncertainty estimates. The strings "HC", "HC0", "HC1" (alias: "stata"), "HC2", "HC3" (alias: "robust"), "HC4", "HC4m", "HC5", "HAC", "NeweyWest", "Andrews", "panel-corrected", "outer-product", and "weave" use variance-covariance
	matrices computed using functions from the sandwich package, or equiv- alent method. The behavior of those functions can (and sometimes <i>must</i>) be altered by passing arguments to sandwich directly from modelsummary through the ellipsis (), but it is safer to define your own custom functions as described in the next bullet.
	 function or (named) list of functions which return variance-covariance matrices with row and column names equal to the names of your coefficient estimates (e.g., stats::vcov, sandwich::vcovHC, function(x) vcovPC(x, cluster="country")).
	 formula or (named) list of formulas with the cluster variable(s) on the right- hand side (e.g., ~clusterid).
	• named list of length(models) variance-covariance matrices with row and column names equal to the names of your coefficient estimates.
	• a named list of length(models) vectors with names equal to the names of your coefficient estimates. See 'Examples' section below. Warning: since this list of vectors can include arbitrary strings or numbers, modelsummary cannot automatically calculate p values. The stars argument may thus use incorrect significance thresholds when vcov is a list of vectors.
conf_level	numeric value between 0 and 1. confidence level to use for confidence intervals. Setting this argument to NULL does not extract confidence intervals, which can be faster for some models.
stars	to indicate statistical significance
	 FALSE (default): no significance stars. TRUE: +=.1, *=.05, **=.01, ***=0.001
	• Named numeric vector for custom stars such as c('*' = .1, '+' = .05)
	• Note: a legend will not be inserted at the bottom of the table when the estimate or statistic arguments use "glue strings" with {stars}.
coef_map	character vector. Subset, rename, and reorder coefficients. Coefficients omitted from this vector are omitted from the table. The order of the vector determines the order of the table. coef_map can be a named or an unnamed character vector. If coef_map is a named vector, its values define the labels that must appear in the table, and its names identify the original term names stored in the model object: c("hp:mpg"="HPxM/G"). See Examples section below.
coef_omit	integer vector or regular expression to identify which coefficients to omit (or keep) from the table. Positive integers determine which coefficients to omit.

	 Negative integers determine which coefficients to keep. A regular expression can be used to omit coefficients, and perl-compatible "negative lookaheads" can be used to specify which coefficients to <i>keep</i> in the table. Examples: c(2, 3, 5): omits the second, third, and fifth coefficients. c(-2, -3, -5): negative values keep the second, third, and fifth coefficients.
	 "ei": omit coefficients matching the "ei" substring. "^Volume\$": omit the "Volume" coefficient.
	 "ei rc": omit coefficients matching either the "ei" or the "rc" substrings. "^(?!Vol)": keep coefficients starting with "Vol" (inverse match using a negative lookahead).
	 "^(?!.*ei)": keep coefficients matching the "ei" substring. "^(?!.*ei .*pt)": keep coefficients matching either the "ei" or the "pt" substrings.
	• See the Examples section below for complete code.
coef_rename	logical, named or unnamed character vector, or function
	• Logical: TRUE renames variables based on the "label" attribute of each column. See the Example section below.
	• Unnamed character vector of length equal to the number of coefficients in the final table, after coef_omit is applied.
	• Named character vector: Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object. Ex: c("hp:mpg"="hp X mpg")
	• Function: Accepts a character vector of the model's term names and returns a named vector like the one described above. The modelsummary package supplies a coef_rename() function which can do common cleaning tasks: modelsummary(model, coef_rename = coef_rename)
gof_map	rename, reorder, and omit goodness-of-fit statistics and other model information. This argument accepts 4 types of values:
	• NULL (default): the modelsummary::gof_map dictionary is used for for- matting, and all unknown statistic are included.
	 character vector: "all", "none", or a vector of statistics such as c("rmse", "nobs", "r.squared"). Elements correspond to colnames in the data.frame produced by get_gof(model). The modelsummary::gof_mapdefault dic- tionary is used to format and rename statistics.
	• NA: excludes all statistics from the bottom part of the table.
	• data.frame with 3 columns named "raw", "clean", "fmt". Unknown statis- tics are omitted. See the 'Examples' section below.
	• list of lists, each of which includes 3 elements named "raw", "clean", "fmt". Unknown statistics are omitted. See the 'Examples section below'.
gof_omit	string regular expression (perl-compatible) used to determine which statistics to omit from the bottom section of the table. A "negative lookahead" can be used to specify which statistics to <i>keep</i> in the table. Examples:
	• "IC": omit statistics matching the "IC" substring.
	• "BIC AIC": omit statistics matching the "AIC" or "BIC" substrings.

panelsummary

Value

A kableExtra object that is instantly customizable by kableExtra's suite of functions.

Examples

```
# Panelsummary with lm -----
reg_1 <- lm(mpg ~ hp + cyl, data = mtcars)</pre>
reg_2 <- lm(disp ~ hp + cyl, data = mtcars)</pre>
panelsummary(reg_1, reg_2, panel_labels = c("Panel A: MPG", "Panel B: Displacement"))
# Panelsummary with fixest ------
ols_1 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_2 <- mtcars |> fixest::feols(disp ~ cyl | gear + carb, cluster = ~hp)
panelsummary(ols_1, ols_2, mean_dependent = TRUE,
           panel_labels = c("Panel A:MPG", "Panel B: DISP"),
           caption = "The effect of cyl on MPG and DISP",
           italic = TRUE, stars = TRUE)
## Collapsing fixed effects (fixest-only)------
ols_1 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_2 <- mtcars |> fixest::feols(disp ~ cyl | gear + carb, cluster = ~hp)
panelsummary(ols_1, ols_2, mean_dependent = TRUE,
           collapse_fe = TRUE, panel_labels = c("Panel A: MPG", "Panel B: DISP"),
           caption = "The effect of cyl on MPG and DISP",
           italic = TRUE, stars = TRUE)
## Including multiple models------
ols_1 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_2 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_3 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_4 <- mtcars |> fixest::feols(disp ~ cyl | gear + carb, cluster = ~hp)
panelsummary(list(ols_1, ols_2, ols_3), ols_4,
            panel_labels = c("Panel A: MPG", "Panel B: DISP"),
             caption = "Multiple models",
             stars = TRUE)
```

panelsummary_raw

Description

'panelsummary_raw' Creates a data.frame for further editing. The data.frame can be directly passed into kableExtra::kbl(), or alternatively, passed into panelsummary::clean_raw() to get typical defaults from kableExtra::kbl().

Usage

```
panelsummary_raw(
  . . . ,
 mean_dependent = FALSE,
  colnames = NULL,
  caption = NULL,
  format = NULL,
  fmt = 3,
  estimate = "estimate",
  statistic = "std.error",
  vcov = NULL,
  conf_level = 0.95,
  stars = FALSE,
  coef_map = NULL,
  coef_omit = NULL,
  coef_rename = NULL,
  gof_map = NULL,
  gof_omit = NULL
)
```

Arguments

```
. . .
```

all other arguments are passed through to three functions. See the documentation of these functions for lists of available arguments.

- parameters::model_parameters extracts parameter estimates. Available arguments depend on model type, but include:
 - standardize, centrality, dispersion, test, ci_method, prior, diagnostic, rope_range, power, cluster, etc.
- performance::model_performance extracts goodness-of-fit statistics. Available arguments depend on model type, but include:
 - metrics, estimator, etc.
- kableExtra::kbl or gt::gt draw tables, depending on the value of the output argument.

mean_dependent A boolean. For use with fixest objects only. * 'FALSE' (the default): the mean of the dependent variable will not be shown in the resulting table. * 'TRUE': the mean of the dependent variable will be shown in the resulting table.

colnames	An optional vector of strings. The vector of strings should have the same length as the number columns of the table. $*$ 'NULL' (the default): colnames are defaulted to a whitespace, followed by (1), (2),etc.
caption	A string. The table caption.
format	A character string. Possible values are latex, html, pipe (Pandoc's pipe tables), simple (Pandoc's simple tables), and rst. The value of this argument will be automatically determined if the function is called within a knitr document. The format value can also be set in the global option knitr.table.format. If format is a function, it must return a character string.
fmt	determines how to format numeric values
	 integer: the number of digits to keep after the decimal: format(x, digits = 1, nsmall = fmt, scientific = FALSE)
	• function: returns a formatted character string. For example, the format() function can be used in combination with the fmt argument for full control of number formatting: number of digits, number of digits after the decimal, scientific notation, etc. See the Examples section below.
	• character: passed to the sprintf function (e.g., '%.3f' keeps 3 digits with trailing zero). See ?sprintf
	 NULL: does not format numbers, which allows users to include function in the "glue" strings in the estimate and statistic arguments.
	 A named list to format distinct elements of the table differently. Names correspond to column names produced by get_estimates(model) or get_gof(model). Values are integers, characters, or functions, as described above. The fmt element is used as default for unspecified elements Ex: fmt=list("estimate"=2, "std.error"=1, "r.squared"=4, "fmt"=3)
	• LaTeX output: To ensure proper typography, all numeric entries are enclosed in the command, which requires the siunitx package to be loaded in the LaTeX preamble. This behavior can be altered with global options. See the 'Details' section.
estimate	a single string or a character vector of length equal to the number of mod- els. Valid entries include any column name of the data.frame produced by get_estimates(model), and strings with curly braces compatible with the glue package format. Examples:
	• "estimate"
	"{estimate} ({std.error}){stars}"
	"{estimate} [{conf.low}, {conf.high}]"
statistic	vector of strings or glue strings which select uncertainty statistics to report ver- tically below the estimate. NULL omits all uncertainty statistics.
	 "conf.int", "std.error", "statistic", "p.value", "conf.low", "conf.high", or any column name produced by: get_estimates(model)
	• glue package strings with braces, with or without R functions, such as:
	<pre>- "{p.value} [{conf.low}, {conf.high}]"</pre>
	 "Std.Error: {std.error}" - "exp(estimate) * std.error"
	- exp(csumate) succion

- Numbers are automatically rounded and converted to strings. To apply functions to their numeric values, as in the last glue example, users must set fmt=NULL.
- Parentheses are added automatically unless the string includes glue curly braces {}.

robust standard errors and other manual statistics. The vcov argument accepts six types of input (see the 'Details' and 'Examples' sections below):

- NULL returns the default uncertainty estimates of the model object
- string, vector, or (named) list of strings. "iid", "classical", and "constant" are aliases for NULL, which returns the model's default uncertainty estimates. The strings "HC", "HC0", "HC1" (alias: "stata"), "HC2", "HC3" (alias: "robust"), "HC4", "HC4m", "HC5", "HAC", "NeweyWest", "Andrews", "panel-corrected", "outer-product", and "weave" use variance-covariance matrices computed using functions from the sandwich package, or equivalent method. The behavior of those functions can (and sometimes *must*) be altered by passing arguments to sandwich directly from modelsummary through the ellipsis (...), but it is safer to define your own custom functions as described in the next bullet.
- function or (named) list of functions which return variance-covariance matrices with row and column names equal to the names of your coefficient estimates (e.g., stats::vcov, sandwich::vcovHC, function(x) vcovPC(x, cluster="country")).
- formula or (named) list of formulas with the cluster variable(s) on the righthand side (e.g., ~clusterid).
- named list of length(models) variance-covariance matrices with row and column names equal to the names of your coefficient estimates.
- a named list of length(models) vectors with names equal to the names of your coefficient estimates. See 'Examples' section below. Warning: since this list of vectors can include arbitrary strings or numbers, modelsummary cannot automatically calculate p values. The stars argument may thus use incorrect significance thresholds when vcov is a list of vectors.
- conf_level numeric value between 0 and 1. confidence level to use for confidence intervals. Setting this argument to NULL does not extract confidence intervals, which can be faster for some models.

stars to indicate statistical significance

- FALSE (default): no significance stars.
- TRUE: +=.1, *=.05, **=.01, ***=0.001
- Named numeric vector for custom stars such as c('*' = .1, '+' = .05)
- Note: a legend will not be inserted at the bottom of the table when the estimate or statistic arguments use "glue strings" with {stars}.
- coef_map character vector. Subset, rename, and reorder coefficients. Coefficients omitted from this vector are omitted from the table. The order of the vector determines the order of the table. coef_map can be a named or an unnamed character vector. If coef_map is a named vector, its values define the labels that must appear in the table, and its names identify the original term names stored in the model object: c("hp:mpg"="HPxM/G"). See Examples section below.

vcov

coef_omit	integer vector or regular expression to identify which coefficients to omit (or keep) from the table. Positive integers determine which coefficients to omit. Negative integers determine which coefficients to keep. A regular expression can be used to omit coefficients, and perl-compatible "negative lookaheads" can be used to specify which coefficients to <i>keep</i> in the table. Examples:
	 c(2, 3, 5): omits the second, third, and fifth coefficients. c(-2, -3, -5): negative values keep the second, third, and fifth coefficients. "ei": omit coefficients matching the "ei" substring. "^Volume\$": omit the "Volume" coefficient. "ei rc": omit coefficients matching either the "ei" or the "rc" substrings. "^(?!Vol)": keep coefficients starting with "Vol" (inverse match using a negative lookahead). "^(?!.*ei)": keep coefficients matching the "ei" substring.
	 "^(?!.*ei .*pt)": keep coefficients matching either the "ei" or the "pt" substrings. See the Examples section below for complete code.
coef_rename	logical, named or unnamed character vector, or function
	• Logical: TRUE renames variables based on the "label" attribute of each column. See the Example section below.
	• Unnamed character vector of length equal to the number of coefficients in the final table, after coef_omit is applied.
	• Named character vector: Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object. Ex: c("hp:mpg"="hp X mpg")
	 Function: Accepts a character vector of the model's term names and returns a named vector like the one described above. The modelsummary package supplies a coef_rename() function which can do common cleaning tasks: modelsummary(model, coef_rename = coef_rename)
gof_map	rename, reorder, and omit goodness-of-fit statistics and other model information. This argument accepts 4 types of values:
	• NULL (default): the modelsummary::gof_map dictionary is used for for- matting, and all unknown statistic are included.
	 character vector: "all", "none", or a vector of statistics such as c("rmse", "nobs", "r.squared"). Elements correspond to colnames in the data.frame produced by get_gof(model). The modelsummary::gof_mapdefault dic- tionary is used to format and rename statistics.
	• NA: excludes all statistics from the bottom part of the table.
	• data.frame with 3 columns named "raw", "clean", "fmt". Unknown statis- tics are omitted. See the 'Examples' section below.
	• list of lists, each of which includes 3 elements named "raw", "clean", "fmt". Unknown statistics are omitted. See the 'Examples section below'.
gof_omit	string regular expression (perl-compatible) used to determine which statistics to omit from the bottom section of the table. A "negative lookahead" can be used to specify which statistics to <i>keep</i> in the table. Examples:

- "IC": omit statistics matching the "IC" substring.
- "BIC|AIC": omit statistics matching the "AIC" or "BIC" substrings.
- "^(?!.*IC)": keep statistics matching the "IC" substring.

Value

A kableExtra object that is instantly customizable by kableExtra's suite of functions.

Examples

```
## Using panelsummary_raw
ols_1 <- mtcars |> fixest::feols(mpg ~ cyl | gear + carb, cluster = ~hp)
ols_2 <- mtcars |> fixest::feols(disp ~ cyl | gear + carb, cluster = ~hp)
panelsummary_raw(ols_1, ols_2)
## Including multiple models------
```

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