

Example 5 — Table of regression coefficients and confidence intervals
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Description

In this example, we demonstrate how to collect results from a regression and create a table of coefficients and confidence intervals. We also show how to customize the resulting table.

Remarks and examples

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Remarks are presented under the following headings:

Collecting regression results and creating a table
Customizing the table

Collecting regression results and creating a table

Below, we use data from the Second National Health and Nutrition Examination Survey (NHANES II) (McDowell et al. 1981). We fit a model for systolic blood pressure (`bpsystol`) as a function of `age`, `weight`, and the region of the country the individual resides in. We first create a new collection named `ex5` and then use the `collect` prefix to collect the coefficients (`_r_b`) and confidence intervals (`_r_ci`) into the this collection.

```
. use https://www.stata-press.com/data/r17/nhanes21
(Second National Health and Nutrition Examination Survey)
. collect create ex5
(current collection is ex5)
. collect _r_b _r_ci: regress bpsystol age weight i.region
```

Source	SS	df	MS	Number of obs	=	10,351
Model	1708779.02	5	341755.804	F(5, 10345)	=	900.55
Residual	3925891	10,345	379.496472	Prob > F	=	0.0000
				R-squared	=	0.3033
				Adj R-squared	=	0.3029
Total	5634670.03	10,350	544.412563	Root MSE	=	19.481

bpsystol	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
age	.6383029	.0111397	57.30	0.000	.6164668	.6601389
weight	.4069294	.0124796	32.61	0.000	.382467	.4313917
region						
MW	-.2397311	.5640029	-0.43	0.671	-1.345286	.8658237
S	-.6187414	.5604584	-1.10	0.270	-1.717348	.4798654
W	-.8617777	.570496	-1.51	0.131	-1.98006	.2565047
_cons	71.70779	1.107732	64.73	0.000	69.53642	73.87916

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In fact, all visible `e()` results are collected from our regression and stored as levels of the dimension `result`. But by specifying those two results, we have set them to be automatically included in a table when we include the dimension `result`.

Now, we can use `collect layout` to arrange the results into a table. We place the covariate names (`colname`) on the rows and the statistics (`result`) on the columns:

```
. collect layout (colname) (result)
Collection: ex5
  Rows: colname
  Columns: result
Table 1: 7 x 2
```

	Coefficient		95% CI
Age (years)	.6383029	.6164668	.6601389
Weight (kg)	.4069294	.382467	.4313917
NE	0		
MW	-.2397311	-1.345286	.8658237
S	-.6187414	-1.717348	.4798654
W	-.8617777	-1.98006	.2565047
Intercept	71.70779	69.53642	73.87916

Notice that the statistics are labeled and that the variable labels and value labels are used in the table as well.

Customizing the table

With just a few modifications, we can make the table above look better.

By default, the base levels of factor variables are included in the table. Below, we remove the base levels. Then, we get a preview of our table.

```
. collect style showbase off
. collect preview
```

	Coefficient		95% CI
Age (years)	.6383029	.6164668	.6601389
Weight (kg)	.4069294	.382467	.4313917
MW	-.2397311	-1.345286	.8658237
S	-.6187414	-1.717348	.4798654
W	-.8617777	-1.98006	.2565047
Intercept	71.70779	69.53642	73.87916

We would also like to format the statistics to two decimal places. We can do this with `collect style cell`. By not specifying a dimension, we have applied this formatting to all cells in the table with numeric content. The table would look neater if we enclose the confidence intervals in brackets and use a comma as the delimiter. This formatting applies only to the confidence intervals (`_r_ci`), so we specify the dimension and level with `collect style cell`. Finally, we center the coefficients horizontally, remove the vertical border, and preview our table once more.

```
. collect style cell, nformat(%5.2f)
. collect style cell result[_r_ci], sformat("[%s]") cidelimiter(", ")
. collect style cell result[_r_b], halign(center)
. collect style cell border_block, border(right, pattern(nil))
. collect preview
```

	Coefficient	95% CI
Age (years)	0.64	[0.62, 0.66]
Weight (kg)	0.41	[0.38, 0.43]
MW	-0.24	[-1.35, 0.87]
S	-0.62	[-1.72, 0.48]
W	-0.86	[-1.98, 0.26]
Intercept	71.71	[69.54, 73.88]

Reference

McDowell, A., A. Engel, J. T. Massey, and K. Maurer. 1981. Plan and operation of the Second National Health and Nutrition Examination Survey, 1976–1980. *Vital and Health Statistics* 1(15): 1–144.

Also see

[TABLES] [collect style cell](#) — Collection styles for cells

[TABLES] [collect style showbase](#) — Collection styles for displaying base levels