Nice output presentation using Stata code

(v3.3)

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First published: March 2014
Last revised: August 2024

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Contents

REGRESSION MODELS

Linear regression: single predictor

```
ssc install outreg2 // do this only once

sysuse nlsw88.dta  // sample data
reg wage ttl_exp, robust
outreg2 using myreg.doc, replace label ctitle(Model 1) title(Table
XX: Linear regression)
```

myreg.doc ← **Windows** users click here to open the file `myreg.doc` in Word.

dir : seeout

↑ **Mac** users click on "**dir**" to go to the directory where `myreg.doc` is saved, open it with Word.

Table XX: Linear regression

VARIABLES	(1) Model 1
Total work experience (years)	0.331***
	(0.0226)
Constant	3.612***
	(0.287)
Observations	2,246
R-squared	0.070

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

OLS regression: comparing multiple predictors

Adding other predictors, side-by-side comparison (make sure to close `myreg.doc`)

```
reg wage ttl_exp hours tenure, robust
outreg2 using myreg.doc, append label ctitle(Model 2)
```

Table XX: Linear regression

VARIABLES	(1) Model 1	(2) Model 2
Total work experience (years)	0.331***	0.274***
	(0.0226)	(0.0305)
Usual hours worked		0.0566***
		(0.0111)
Job tenure (years)		0.0363
		(0.0255)
Constant	3.612***	2.032***
	(0.287)	(0.402)
Observations	2,246	2,227
R-squared	0.070	0.080

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

NOTE: Other options for `label`: `label(insert)`; `label(proper)`; `label(upper)`; `label(lower)`.
Type `help outreg2` for more details.

You also have the option to export to Excel, just use the extension *.xls.

Comparing OLS with Fixed effects and time fixed effects

```
webuse nlswork   // sample data
xtset idcode year   // set as panel data

reg ln_w union ttl_exp tenure,  robust
outreg2 using my_panel_reg.doc, replace label ctitle(OLS) title(Table XX: Comparing OLS and FE models)

xtreg ln_w union ttl_exp tenure, fe robust
outreg2 using my_panel_reg.doc, append label ctitle(FE indiv.) addtext(Individual FE, YES)

xtreg ln_w union ttl_exp tenure i.year, fe robust
outreg2 using my_panel_reg.doc, append label ctitle(FE/Time FE.) keep(union ttl_exp tenure)
                                addtext(Individual FE, YES, Year FE, YES)
```

The file `my_panel_reg.doc` will be saved in the working directory

In fixed effects models you do not have to add the FE coefficients, you can just add a note indicating that the model includes fixed effects. This can be added from `outreg2`, see the option `addtex()` above.

Table XX: Comparing OLS and FE models

VARIABLES	(1) OLS	(2) FE indiv.	(3) FE/Time FE.
1 if union	0.179***	0.0997***	0.0998***
	(0.00706)	(0.00955)	(0.00946)
Total work experience	0.0284***	0.0188***	0.0358***
	(0.000954)	(0.00122)	(0.00283)
Job tenure, in years	0.0161***	0.0112***	0.00855***
	(0.00104)	(0.00129)	(0.00133)
Constant	1.431***	1.543***	1.538***
	(0.00598)	(0.00697)	(0.0122)
Observations	19,010	19,010	19,010
R-squared	0.188	0.142	0.150
Number of idcode		4,134	4,134
Individual FE		YES	YES
Year FE			YES

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Logit and probit models

```
webuse lbw  // sample data

logit low  smoke ht lwt i.race , robust
outreg2 using mylogit_probit.doc, replace label ctitle(Logit: Log odds)
                          title(Table XX: Dependent Birthweight<2500g)

probit low  smoke ht lwt i.race , robust
outreg2 using mylogit_probit.doc, append label ctitle(Probit: Z-score change)
```

Table XX: Dependent Birthweight<2500g

VARIABLES	(1) Logit: Log odds	(2) Probit: Z-score change
Smoked during pregnancy	1.072***	0.652***
	(0.378)	(0.223)
Has history of hypertension	1.748***	1.040***
	(0.671)	(0.402)
Weight at last menstrual period	-0.0179**	-0.0105***
	(0.00697)	(0.00389)
Race = 2, Black	1.287**	0.783**
	(0.507)	(0.305)
Race = 3, Other	0.944**	0.561**
	(0.412)	(0.242)
Constant	0.349	0.171
	(0.943)	(0.540)
Observations	189	189

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Logit model: odds ratio

```
logit low  smoke ht lwt i.race , robust or
outreg2 using mylogit.doc, append label ctitle(Ods ratio) eform
```

Table XX: Logit model. Dependent Birthweight<2500g

VARIABLES	(1) Log odds	(2) Ods ratio
Birthweight<2500g		
Smoked during pregnancy	1.072***	2.920***
	(0.378)	(1.105)
Has history of hypertension	1.748***	5.744***
	(0.671)	(3.852)
Weight at last menstrual period	-0.0179**	0.982**
	(0.00697)	(0.00685)
Race = 2, Black	1.287**	3.623**
	(0.507)	(1.837)
Race = 3, Other	0.944**	2.570**
	(0.412)	(1.058)
Constant	0.349	1.417
	(0.943)	(1.337)
Observations	189	189

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

For more details/options and examples type `help outreg2`

Logit model: marginal effects

```
logit low  smoke ht lwt i.race , robust
margins, dydx(*) post
outreg2 using mylogit.doc, append label ctitle(Marg. Eff.)
```

Table XX: Logit model. Dependent Birthweight<2500g

VARIABLES	(1) Log odds	(2) Ods ratio	(3) Marg. Eff.
Birthweight<2500g			
Smoked during pregnancy	1.072***	2.920***	0.199***
	(0.378)	(1.105)	(0.0669)
Has history of hypertension	1.748***	5.744***	0.325***
	(0.671)	(3.852)	(0.116)
Weight at last menstrual period	-0.0179**	0.982**	-0.00332***
	(0.00697)	(0.00685)	(0.00122)
Race = 2, Black	1.287**	3.623**	0.246**
	(0.507)	(1.837)	(0.101)
Race = 3, Other	0.944**	2.570**	0.173**
	(0.412)	(1.058)	(0.0740)
Constant	0.349	1.417	
	(0.943)	(1.337)	
Observations	189	189	189

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

For more details/options and examples type `help outreg2`

Logit model compare to linear probability model (LPM)

```
reg low  smoke ht lwt i.race , robust
outreg2 using mylogit.doc, append label ctitle(LPM)
```

Table XX: Logit model. Dependent Birthweight<2500g

VARIABLES	(1) Log odds	(2) Ods ratio	(3) Marg. Eff.	(4) LPM
Birthweight<2500g				
Smoked during pregnancy	1.072***	2.920***	0.199***	0.195***
	(0.378)	(1.105)	(0.0669)	(0.0689)
Has history of hypertension	1.748***	5.744***	0.325***	0.351**
	(0.671)	(3.852)	(0.116)	(0.137)
Weight at last menstrual period	-0.0179**	0.982**	-0.00332***	-0.00308***
	(0.00697)	(0.00685)	(0.00122)	(0.00104)
Race = 2, Black	1.287**	3.623**	0.246**	0.237**
	(0.507)	(1.837)	(0.101)	(0.101)
Race = 3, Other	0.944**	2.570**	0.173**	0.165**
	(0.412)	(1.058)	(0.0740)	(0.0724)
Constant	0.349	1.417		0.522***
	(0.943)	(1.337)		(0.156)
Observations	189	189	189	189
R-squared				0.129

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

For more details/options and examples type `help outreg2`

Logit / probit models

For predicted probabilities and marginal effects, see the following document

https://www.princeton.edu/~otorres/Margins.pdf

See also:

asdoc: https://fintechprofessor.com/2018/01/31/asdoc/

tabout: https://ianwatson.com.au/stata/tabout_tutorial.pdf

DESCRIPTIVE STATISTICS

Using `outreg2` for summary statistics: all variables in dataset

```
sysuse auto, clear
outreg2 using x.doc, replace sum(log)
```

```
. outreg2 using x.doc, replace sum(log)
```

Variable	Obs	Mean	Std. Dev.	Min	Max
price	74	6165.257	2949.496	3291	15906
mpg	74	21.2973	5.785503	12	41
rep78	69	3.405797	.9899323	1	5
headroom	74	2.993243	.8459948	1.5	5
trunk	74	13.75676	4.277404	5	23
weight	74	3019.459	777.1936	1760	4840
length	74	187.9324	22.26634	142	233
turn	74	39.64865	4.399354	31	51
displacement	74	197.2973	91.83722	79	425
gear_ratio	74	3.014865	.4562871	2.19	3.89
foreign	74	.2972973	.4601885	0	1

```
Following variable is string, not included:
make
x.doc
dir : seeout
```

Windows users click here to open the file `x.doc` in Word (you can replace this name with your own) . Otherwise follow the Mac instructions.

Mac users click here to go to the directory where `x.doc` is saved, open it with Word (you can replace this name with your own)

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max
price	74	6,165	2,949	3,291	15,906
mpg	74	21.30	5.786	12	41
rep78	69	3.406	0.990	1	5
headroom	74	2.993	0.846	1.500	5
trunk	74	13.76	4.277	5	23
weight	74	3,019	777.2	1,760	4,840
length	74	187.9	22.27	142	233
turn	74	39.65	4.399	31	51
displacement	74	197.3	91.84	79	425
gear_ratio	74	3.015	0.456	2.190	3.890
foreign	74	0.297	0.460	0	1

For more details/options and examples type `help outreg2`

Using outreg2 for summary statistics: selected variables

```
sysuse auto, clear
outreg2 using x.doc, replace sum(log) keep(price mpg turn)
```

```
. outreg2 using x.doc, replace sum(log) keep(price mpg turn)
```

Variable	Obs	Mean	Std. Dev.	Min	Max
price	74	6165.257	2949.496	3291	15906
mpg	74	21.2973	5.785503	12	41
rep78	69	3.405797	.9899323	1	5
headroom	74	2.993243	.8459948	1.5	5
trunk	74	13.75676	4.277404	5	23
weight	74	3019.459	777.1936	1760	4840
length	74	187.9324	22.26634	142	233
turn	74	39.64865	4.399354	31	51
displacement	74	197.2973	91.83722	79	425
gear_ratio	74	3.014865	.4562871	2.19	3.89
foreign	74	.2972973	.4601885	0	1

```
Following variable is string, not included:
make
x.doc
dir : seeout
```

Windows users click here to open the file `x.doc` in Word (you can replace this name with your own) . Otherwise follow the Mac instructions.

Mac users click here to go to the directory where `x.doc` is saved, open it with Word (you can replace this name with your own)

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max
price	74	6,165	2,949	3,291	15,906
mpg	74	21.30	5.786	12	41
turn	74	39.65	4.399	31	51

For more details/options and examples type `help outreg2`

Using `outreg2` for summary statistics: selected variables in dataset and selected statistics

```
sysuse auto, clear
outreg2 using x.doc, replace sum(log) keep(price mpg turn) eqkeep(N mean)
```

```
. outreg2 using x.doc, replace sum(log) keep(price mpg turn) eqkeep(N mean)
```

Variable	Obs	Mean	Std. Dev.	Min	Max
price	74	6165.257	2949.496	3291	15906
mpg	74	21.2973	5.785503	12	41
rep78	69	3.405797	.9899323	1	5
headroom	74	2.993243	.8459948	1.5	5
trunk	74	13.75676	4.277404	5	23
weight	74	3019.459	777.1936	1760	4840
length	74	187.9324	22.26634	142	233
turn	74	39.64865	4.399354	31	51
displacement	74	197.2973	91.83722	79	425
gear_ratio	74	3.014865	.4562871	2.19	3.89
foreign	74	.2972973	.4601885	0	1

```
Following variable is string, not included:
make
x.doc
dir : seeout
```

Windows users click here to open the file `x.doc` in Word (you can replace this name with your own) . Otherwise follow the Mac instructions.

Mac users click here to go to the directory where `x.doc` is saved, open it with Word (you can replace this name with your own)

VARIABLES	(1) N	(2) mean
price	74	6,165
mpg	74	21.30
turn	74	39.65

For more details/options and examples type `help outreg2`

Using `outreg2` for summary statistics: selected variables in dataset and detail statistics

*NOTE: The option "sum(detail)" will give all the summary statistics shown below for the selected variables but it will show in the output window results for all the variables in the dataset. This is similar to typing "summarize, detail"

```
sysuse auto, clear
set more off
outreg2 using x.doc, replace sum(detail) keep(price mpg turn)
```

```
Following variable is string, not included:
make
x.doc
dir : seeout
```

Windows users click here to open the file `x.doc` in Word (you can replace this name with your own) . Otherwise follow the Mac instructions.

Mac users click here to go to the directory where `x.doc` is saved, open it with Word (you can replace this name with your own)

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max	(6) sum_w	(7) Var	(8) skewness	(9) kurtosis	(10) sum	(11) p1	(12) p5	(13) p10	(14) p25	(15) p50	(16) p75	(17) p90	(18) p95	(19) p99
price	74	6,165	2,949	3,291	15,906	74	8.700e+06	1.653	4.819	456,229	3,291	3,748	3,895	4,195	5,007	6,342	11,385	13,466	15,906
mpg	74	21.30	5.786	12	41	74	33.47	0.949	3.975	1,576	12	14	14	18	20	25	29	34	41
turn	74	39.65	4.399	31	51	74	19.35	0.124	2.229	2,934	31	33	34	36	40	43	45	46	51

For more details/options and examples type `help outreg2`

Using `outreg2` for summary statistics: selected variables in dataset and selected detail statistics

```
*NOTE: The option "sum(detail)" will give all the summary statistics shown below for
the selected variables but it will show in the output window results for all the
variables in the dataset. This is similar to typing "summarize, detail"
* The option "p50" gives the median

sysuse auto, clear
set more off
outreg2 using x.doc, replace sum(detail) keep(price mpg turn) eqkeep(N mean p50)
```

```
Following variable is string, not included:
make
x.doc
dir : seeout
```

Windows users click here to open the file `x.doc` in Word (you can replace this name with your own) . Otherwise follow the Mac instructions.

Mac users click here to go to the directory where `x.doc` is saved, open it with Word (you can replace this name with your own)

VARIABLES	(1) N	(2) mean	(3) p50
price	74	6,165	5,007
mpg	74	21.30	20
turn	74	39.65	40

For more details/options and examples type `help outreg2`

Using `outreg2` for summary statistics: by group, selected variables in dataset and detail statistics

```
*NOTE: You need to specify either keeping statistics (eqkeep) and droping variables
(drop) or viceversa. You can't specify eqkeep() and keep() at the same time

sysuse auto, clear
set more off
bysort foreign: outreg2 using x.doc, replace sum(log) eqkeep(N mean) drop(make rep78
headroom trunk weight length displacement gear_ratio)
```

```
Following variable is string, not included:
make
x.doc
dir : seeout
```

Windows users click here to open the file `x.doc` in Word (you can replace this name with your own) . Otherwise follow the Mac instructions.

Mac users click here to go to the directory where `x.doc` is saved, open it with Word (you can replace this name with your own)

VARIABLES	(1) foreign 0 N	(2) mean	(3) foreign 1 N	(4) mean
price	52	6,072	22	6,385
mpg	52	19.83	22	24.77
turn	52	41.44	22	35.41

For more details/options and examples type `help outreg2`

CUSTOM TABLES FOR DESCRIPTIVE STATISTICS

Numeric and factor variables in one table

```
sysuse nlsw88.dta  // sample data

help table

table () (result), ///
        statistic(mean wage hours ttl_exp tenure age) ///
        statistic(sd wage hours ttl_exp tenure age) ///
        statistic(fvpercent race married c_city south) ///
        style(dtable) nformat(%8.2f mean sd) ///
        sformat("(%s)" sd) sformat("%s%%" fvpercent) ///
        name(table1) replace
```

[SEE OUTPUT IN THE NEXT SLIDE]

See:
* https://www.stata.com/manuals/rtablemultiway.pdf#rtablemultiway
* https://www.stata.com/manuals/tablespredefinedstyles.pdf#tablesPredefinedstyles

Numeric and factor variables in one table

	Mean	Standard deviation	Factor-variable percent
Hourly wage	7.77	(5.76)	
Usual hours worked	37.22	(10.51)	
Total work experience (years)	12.53	(4.61)	
Job tenure (years)	5.98	(5.51)	
Age in current year	39.15	(3.06)	
Race			
White			72.9%
Black			26.0%
Other			1.2%
Married			
Single			35.8%
Married			64.2%
Lives in a central city			
Not central city			70.8%
Central city			29.2%
Lives in the south			
Not south			58.1%
South			41.9%

Export table to Word

```
collect set table1  // after running the table command

* Add shading to specific variables
* https://www.stata.com/manuals/tablesappendix.pdf#tablesAppendix

collect style cell var[hours tenure i.race i.c_city],
                shading(background(lightsteelblue))

collect title "Table XX. Descriptive statistics"

collect preview

* Export table to Word (click on the blue link)
*https://www.stata.com/manuals/tablescollectexport.pdf#tablescollectexport

collect export table1.docx, replace
```

[SEE OUTPUT IN THE NEXT SLIDE]

Table XX. Descriptive statistics

	Mean	Standard deviation	Factor-variable percent
Hourly wage	7.77	(5.76)	
Usual hours worked	37.22	(10.51)	
Total work experience (years)	12.53	(4.61)	
Job tenure (years)	5.98	(5.51)	
Age in current year	39.15	(3.06)	
Race			
White			72.9%
Black			26.0%
Other			1.2%
Married			
Single			35.8%
Married			64.2%
Lives in a central city			
Not central city			70.8%
Central city			29.2%
Lives in the south			
Not south			58.1%
South			41.9%

Numeric and factor variables by group

```
sysuse nlsw88.dta  // sample data

help table

table () (union), ///
        statistic(mean wage hours ttl_exp tenure age) ///
        statistic(sd wage hours ttl_exp tenure age) ///
        statistic(fvpercent race married c_city south) ///
        style(dtable) nformat(%8.2f mean sd) ///
        sformat("(%s)" sd) sformat("%s%%" fvpercent) ///
        name(table1) replace
```

[SEE OUTPUT IN THE NEXT SLIDE]

See:
* https://www.stata.com/manuals/rtablemultiway.pdf#rtablemultiway
* https://www.stata.com/manuals/tablespredefinedstyles.pdf#tablesPredefinedstyles

Numeric and factor variables by group

	Nonunion	Union	Total
Mean			
Hourly wage	7.20	8.67	7.57
Usual hours worked	37.26	38.66	37.61
Total work experience (years)	12.68	13.25	12.82
Job tenure (years)	6.14	7.89	6.57
Age in current year	39.21	39.28	39.22
Standard deviation			
Hourly wage	(4.10)	(4.17)	(4.17)
Usual hours worked	(10.23)	(9.11)	(9.98)
Total work experience (years)	(4.62)	(4.55)	(4.61)
Job tenure (years)	(5.41)	(6.11)	(5.64)
Age in current year	(3.04)	(3.02)	(3.03)
Factor-variable percent			
Race			
White	74.2%	65.5%	72.0%
Black	24.7%	32.8%	26.7%
Other	1.1%	1.7%	1.3%
Married			
Single	33.5%	39.3%	34.9%
Married	66.5%	60.7%	65.1%
Lives in a central city			
Not central city	73.0%	62.5%	70.4%
Central city	27.0%	37.5%	29.6%
Lives in the south			
Not south	53.2%	70.5%	57.5%
South	46.8%	29.5%	42.5%

Export table to Word

```
collect set table2  // after running the table command

* Add shading to specific variables
* https://www.stata.com/manuals/tablesappendix.pdf#tablesAppendix

collect style cell var[hours tenure i.race i.c_city],
                shading(background(lightsteelblue))

collect title "Table XX. Descriptive statistics by being in a union"

collect preview

* Export table to Word (click on the blue link)
*https://www.stata.com/manuals/tablescollectexport.pdf#tablescollectexport

collect export table2.docx, replace
```

[SEE OUTPUT IN THE NEXT SLIDE]

Table XX. Descriptive statistics by being in a union

	Nonunion	Union	Total
Mean			
Hourly wage	7.20	8.67	7.57
Usual hours worked	37.26	38.66	37.61
Total work experience (years)	12.68	13.25	12.82
Job tenure (years)	6.14	7.89	6.57
Age in current year	39.21	39.28	39.22
Standard deviation			
Hourly wage	(4.10)	(4.17)	(4.17)
Usual hours worked	(10.23)	(9.11)	(9.98)
Total work experience (years)	(4.62)	(4.55)	(4.61)
Job tenure (years)	(5.41)	(6.11)	(5.64)
Age in current year	(3.04)	(3.02)	(3.03)
Factor-variable percent			
Race			
White	74.2%	65.5%	72.0%
Black	24.7%	32.8%	26.7%
Other	1.1%	1.7%	1.3%
Married			
Single	33.5%	39.3%	34.9%
Married	66.5%	60.7%	65.1%
Lives in a central city			
Not central city	73.0%	62.5%	70.4%
Central city	27.0%	37.5%	29.6%
Lives in the south			
Not south	53.2%	70.5%	57.5%
South	46.8%	29.5%	42.5%

HYPOTHESIS TESTING

Hypothesis testing

```
sysuse nlsw88.dta
```

```
ttest wage, by(union)
```

```
Two-sample t test with equal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
Nonunion |   1,417    7.204669    .1090159    4.103694    6.990819    7.418519
   Union |     461    8.674294    .1944277    4.174539    8.292218    9.056371
---------+--------------------------------------------------------------------
Combined |   1,878    7.565423    .0961874    4.168369    7.376778    7.754069
---------+--------------------------------------------------------------------
    diff |           -1.469625    .2209702               -1.902999   -1.036252
------------------------------------------------------------------------------
    diff = mean(Nonunion) - mean(Union)                           t =  -6.6508
H0: diff = 0                                     Degrees of freedom =     1876

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000
```

Hypothesis testing

```
return list
```

```
scalars:
                  r(level) =  95
                     r(sd) =  4.168369257933639
                   r(sd_2) =  4.174538873345928
                   r(sd_1) =  4.1036938325326
                     r(se) =  .2209702313599325
                    r(p_u) =  .9999999999809384
                    r(p_l) =  1.90616301182e-11
                      r(p) =  3.81232602363e-11
                      r(t) =  -6.650784018445881
                   r(df_t) =  1876
                   r(mu_2) =  8.674294102217784
                    r(N_2) =  461
                   r(mu_1) =  7.204668818936856
                    r(N_1) =  1417
```

Hypothesis testing

```
table (command) (result),///
      command(Yes=r(mu_2) No=r(mu_1) ///
            Difference= (r(mu_2) - r(mu_1)) ///
      p_value= r(p): ttest wage, by(union)) ///
      nformat(%9.3f) ///
      stars(p_value 0.1 "*" 0.05 "**" 0.01 "***",
            shownote)
```

	Yes	No	Difference	p_value	stars
ttest wage, by(union)	8.674	7.205	1.470	0.000	***

*** p<.01, ** p<.05, * p<.1

See: https://www.stata.com/manuals/rtablehypothesistests.pdf#rtablehypothesistests

Hypothesis testing, multiple variables

```
table (command) (result), ///
command(Yes=r(mu_2) No=r(mu_1) Difference= (r(mu_2) - r(mu_1)) p_value = r(p): ttest wage, by(union))  ///
command(Yes=r(mu_2) No=r(mu_1) Difference= (r(mu_2) - r(mu_1)) p_value = r(p): ttest hours, by(union)) ///
command(Yes=r(mu_2) No=r(mu_1) Difference= (r(mu_2) - r(mu_1)) p_value = r(p): ttest ttl_exp, by(union)) ///
command(Yes=r(mu_2) No=r(mu_1) Difference= (r(mu_2) - r(mu_1)) p_value = r(p): ttest tenure, by(union)) ///
command(Yes=r(mu_2) No=r(mu_1) Difference= (r(mu_2) - r(mu_1)) p_value = r(p): ttest age, by(union)) ///
 nformat(%9.3f) stars(p_value 0.1 "*" 0.05 "**" 0.01 "***", shownote)  name(t_test1) replace
```

	Yes	No	Difference	p_value	stars
ttest wage, by(union)	8.674	7.205	1.470	0.000	***
ttest hours, by(union)	38.659	37.262	1.397	0.009	***
ttest ttl_exp, by(union)	13.254	12.677	0.577	0.019	**
ttest tenure, by(union)	7.888	6.141	1.747	0.000	***
ttest age, by(union)	39.284	39.205	0.079	0.628	

*** p<.01, ** p<.05, * p<.1

See: https://www.stata.com/manuals/rtablehypothesistests.pdf#rtablehypothesistests

Export table to Word

```
collect set t_test1 // after running the table command

collect label levels command 1 "Hourly wage" 2 "Usual hours worked" 3
"Work experience (years)" 4 "Job tenure" 5 "Age in current year",
modify

collect title "Table XX. T-tests comparing union vs non-union members
across different metrics"

collect preview

collect style cell command[2 4]#result[Yes No Difference p_value
stars], shading(background(lightsteelblue))

collect export t_test1.docx, replace
```

[SEE OUTPUT IN THE NEXT SLIDE]

Table XX. T-tests comparing union vs non-union members across different metrics

	Yes	No	Difference	p_value	stars
Hourly wage	8.674	7.205	1.470	0.000	***
Usual hours worked	38.659	37.262	1.397	0.009	***
Work experience (years)	13.254	12.677	0.577	0.019	**
Job tenure	7.888	6.141	1.747	0.000	***
Age in current year	39.284	39.205	0.079	0.628	

*** p<.01, ** p<.05, * p<.1