## Dynamic Markdown documents in Stata 15: An initial look

First I open the example data nlsw88 and run the describe the command.

The tags around the code **«dd\_do»** tells Stata to execure this block of code and and include its output in the document. **«/dd\_do»** indicates the end of a **«do\_do»**.

The four tilde (~) symbols indicate that this block should appear as a block of code in the HTML document (i.e. they will be inset from the text).

Here I have run the commands twice. The first time I add the tag **«dd\_ignore»** which tells Stata not to run this command but print all the code in the document. This just lets you see what the whole block of code looks like in the plain text file.

The second time I do not include the «dd\_ignore» tag so you see the output and code as you would see it in Stata.

<<dd do>> sysuse nlsw88, clear describe <</dd do>> . sysuse nlsw88, clear (NLSW, 1988 extract) . describe Contains data from C:\Program Files (x86)\Stata15\ado\base/n/nls > w88.dta obs: 2,246 NLSW, 1988 extract 17 1 May 2016 22:52 vars: 60,642 size: ( dta has notes) \_\_\_\_\_ storage display value variable name type format label variable label \_\_\_\_\_ idcode %8.0g int NLS id byte %8.0g age in current age year race byte %8.0g racelbl race married byte %8.0g marlbl marri married never\_married byte %8.0g never married byte %8.0g grade current grade completed collgrad byte %16.0g gradlbl college graduate south byte %8.0g lives in south byte %9.0g smsalbl lives in SMSA smsa byte %8.0g lives in central c city city byte %23.0g indlbl industry industry byte %22.0g occlbl occupation occupation byte %8.0g unionlbl union worker union float %9.0g hourly wage wage hours byte %8.0g usual hours worked float %9.0g ttl exp total work experience float %9.0g tenure job tenure (years) \_\_\_\_\_ Sorted by: idcode

Now, I summarize the data.

<<	(dd_do>>					
su	ımm					
<<	/dd_do>>					
•	summ					
	Variable	Obs	Mean	Std. Dev.	Min	
>	Max					
		-+				
>			0.61.0	1 4 0 0 0 6 4	1	
	lacoae	2,246	2612.654	1480.864	Ţ	
	2123	1 2 246	20 15216	2 0 6 0 0 0 2	2.4	
	age	2,240	39.15316	3.060002	34	
	40	1 2 246	1 282725	1751113	1	
>	3	2,240	1.202725	. 1/01110	Ţ	
Ĺ	married	2,246	. 6420303	4795099	0	
>	1	, 2,210		. 1, 50055	0	
ne	ever marr~d	2,246	.1041852	.3055687	0	
>	_ 1	. ,				
		-+				
>						
	grade	2,244	13.09893	2.521246	0	
>	18					
	collgrad	2,246	.2368655	.4252538	0	
>	1					
	south	2,246	.4194123	.4935728	0	
>	1					
	smsa	2,246	.7039181	.4566292	0	
>	1					
	c_city	2,246	.2916296	.4546139	0	
>	1					
		-+				
>			0 100516	2 010075	1	
	industry	2,232	8.189516	3.0108/5	Ţ	
	12	1 2 2 2 7	1 612925	3 100007	1	
	13		4.042025	5.400097	Ţ	
	union	1 1 8 7 8	2454739	4304825	0	
>	1	1 1,070	.2101/00	.1301023	0	
	wage	2,246	7.766949	5.755523	1.004952	4
>	0.74659	, _ 10				-
	hours	2,242	37.21811	10.50914	1	
>	80					
		-+				
>						
	ttl_exp	2,246	12.53498	4.610208	.1153846	2
>	8.88461					
	tenure	2,231	5.97785	5.510331	0	2
	5 01667					

We can use numbers from the Stata output in our text in the HTML document. We always want to avoid cutting and pasting numbers. We can use the **dd\_display** tag to retrieve stored results from the summ command and use them in our text.

First we run the summ command for our variable of interest. We have run this above so we don't need this to appear in the HTML

document. Therefore we can use the **«dd\_do:quitely»** tag so Stata does the work but doesn't tell us about it.

```
<<dd_do: quietly>>
summ age
<</dd_do>>
```

Then we use the stored values for minimum and maximum age in the text.

```
> The variable age has minimum value <<dd_display: %4.2f `r(min)'>>
and has maximum value <<dd_display: %4.2f `r(max)'>>.
> The variable age has minimum value 34.00
and has maximum value 46.00.
```

Now lets see if this will work for something a little more complex. Here I have run a regression, the outcome variable is wage, I have run this quitely as we might not want to show all the output Stata gives in the standard regression output.

We store these estimates as "m1".

```
<<dd_do: quietly>>
regress wage age married i.race, allbaselevels
est sto m1
<</dd_do>>
```

No lets present the output of the regression in the HTML document.

```
<<dd do>>
esttab m1, b se wide
<</dd do>>
. esttab m1, b se wide
 _____
              (1)
             wage
_____
                  (0.0395)
           -0.0839*
age
married
           -0.782**
                    (0.258)
             0
1.race
                       (.)
           -1.459***
                     (0.283)
2.race
3.race
            0.463
                      (1.130)
            11.93***
                     (1.575)
cons
------
             2246
Ν
_____
Standard errors in parentheses
* p<0.05, ** p<0.01, *** p<0.001
```

We can also use the stored results to say a little bit more about this regression model.

```
> The sample size was <<dd_display: %4.2f `e(N)'>>
and the model has an adjusted R2 value of <<dd_display: %4.2f `e(r2_a)'>>.
> The sample size was 2246.00
and the model has an adjusted R2 value of 0.01.
```

Now lets do a graph.

Here is a scatterplot of age and wage.

```
<<dd_do:nooutput>>
scatter age wage, mcolor(blue%50)
<</dd_do>>
. scatter age wage, mcolor(blue%50)
<<dd_graph: sav("graph1.svg") alt("scatter age wage") replace height(400)>>
```

Here is the graph:



end dyndoc blogexample.do