

Dynamic Markdown documents in Stata 15: An initial look

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

The tags around the code `«dd_do»` tells Stata to execute this block of code 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
vars:          17          1 May 2016 22:52
size:          60,642          (_dta has notes)
```

```
-----
```

	storage	display	value	
variable name	type	format	label	variable label
idcode	int	%8.0g		NLS id
age	byte	%8.0g		age in current year
race	byte	%8.0g	racelbl	race
married	byte	%8.0g	marlbl	married
never_married	byte	%8.0g		never married
grade	byte	%8.0g		current grade completed

collgrad	byte	%16.0g	gradlbl	college graduate
south	byte	%8.0g		lives in south
smsa	byte	%9.0g	smsalbl	lives in SMSA
c_city	byte	%8.0g		lives in central
				city
industry	byte	%23.0g	indlbl	industry
occupation	byte	%22.0g	occlbl	occupation
union	byte	%8.0g	unionlbl	union worker
wage	float	%9.0g		hourly wage
hours	byte	%8.0g		usual hours worked
ttl_exp	float	%9.0g		total work
				experience
tenure	float	%9.0g		job tenure (years)

Sorted by: idcode

Now, I summarize the data.

```
<<dd_do>>
summ
<</dd_do>>
```

```
. summ
```

Variable	Obs	Mean	Std. Dev.	Min
Max				
-----+-----				
idcode	2,246	2612.654	1480.864	1
age	2,246	39.15316	3.060002	34
race	2,246	1.282725	.4754413	1
married	2,246	.6420303	.4795099	0
never_marr~d	2,246	.1041852	.3055687	0
-----+-----				
grade	2,244	13.09893	2.521246	0
collgrad	2,246	.2368655	.4252538	0
south	2,246	.4194123	.4935728	0

```

>      smsa |      2,246      .7039181      .4566292          0
>      1
>      c_city |      2,246      .2916296      .4546139          0
>      1
-----+-----
> -----
>      industry |      2,232      8.189516      3.010875          1
>      12
>      occupation |      2,237      4.642825      3.408897          1
>      13
>      union |      1,878      .2454739      .4304825          0
>      1
>      wage |      2,246      7.766949      5.755523      1.004952      4
> 0.74659
>      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
> 5.91667

```

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:quietly**» 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 let's 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 quietly 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	
age	-0.0839*	(0.0395)
married	-0.782**	(0.258)
1.race	0	(.)
2.race	-1.459***	(0.283)
3.race	0.463	(1.130)
_cons	11.93***	(1.575)

```
-----
```

```
N                2246
```

```
-----
```

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.

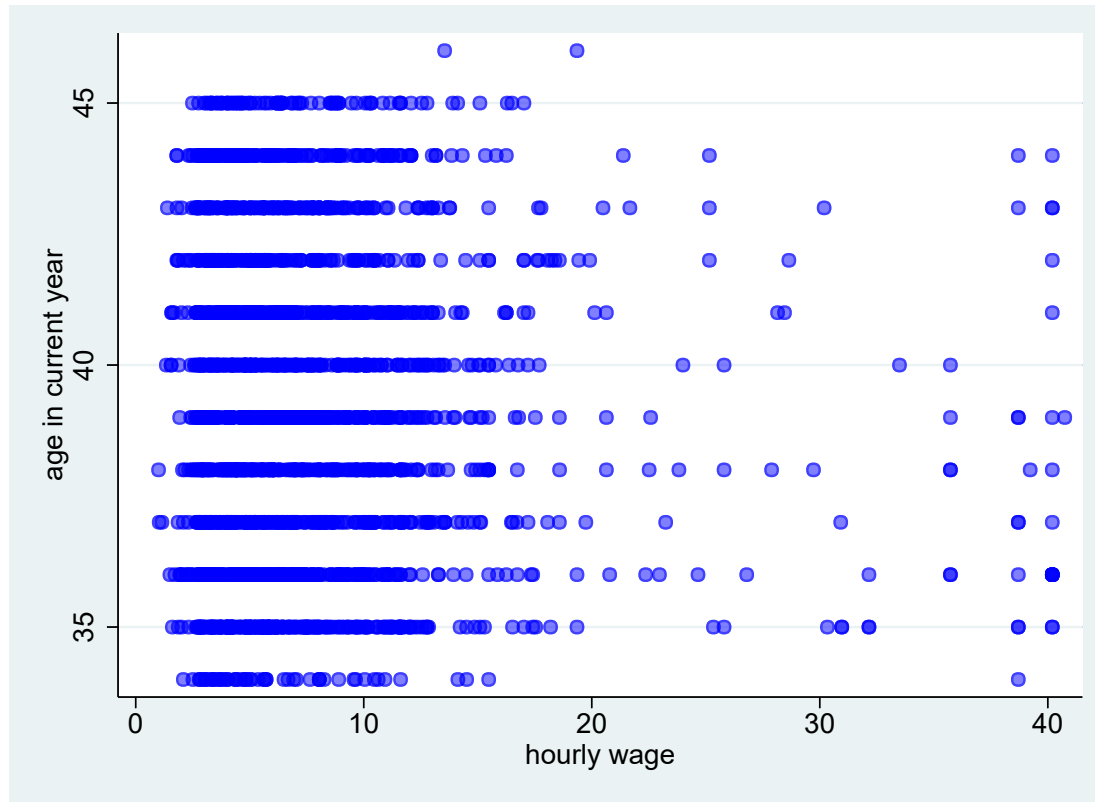
Here is a scatterplot of age and wage.

```
<<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