Testing MarkDoc Package

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Introduction to MarkDoc (heading 1)

MarkDoc package provides a convenient way to write dynamic document within Stata dofile editor. Before starting, remember that there are a few things that ***you must absolutely avoid*** while using MarkDoc.

1. Use only one markup language. While you are writing with *Markdown* you may also use *HTML* tags, but **avoid** *LaTeX* in combination of *HTML* or *Markdown*.

2. Only use English letters. Any unsual character (Chinese, French, or special characters) should be avoided.

3. Please make sure you that you have the **permission to write and remove files** in your current working directory. Especially if you are a **Microsoft Windows** user. Ideally, you should be the adminster of your system or at least, you should be able to run Stata as an adminstrator or superuser. Also pay attension to your current working directory.

Using Markdown (heading 2)

Writing with *Markdown* syntax allows you to add text and graphs to *smcl* logfile and export it to a editable document format. I will demonstrate the process by using the **auto.dta** dataset.

Get started with MarkDoc (heading 3)

I will open the dataset, list a few observations, and export a graph. Then I will export the log file to *HTML* format.

```
. quietly sysuse auto, clear

. list in 1/5
```

```
     +------------------------------------------------------------------+
  1. | make          | price | mpg | rep78 | headroom | trunk | weight |
     | AMC Concord   | 4,099 |  22 |     3 |      2.5 |    11 |  2,930 |
     |------------------------------------------------------------------|
     |  length   |  turn   |  displa~t   |   gear_r~o   |    foreign    |
     |     186   |    40   |       121   |       3.58   |   Domestic    |
     +------------------------------------------------------------------+

     +------------------------------------------------------------------+
  2. | make          | price | mpg | rep78 | headroom | trunk | weight |
     | AMC Pacer     | 4,749 |  17 |     3 |      3.0 |    11 |  3,350 |
     |------------------------------------------------------------------|
     |  length   |  turn   |  displa~t   |   gear_r~o   |    foreign    |
     |     173   |    40   |       258   |       2.53   |   Domestic    |
     +------------------------------------------------------------------+

     +------------------------------------------------------------------+
  3. | make          | price | mpg | rep78 | headroom | trunk | weight |
     | AMC Spirit    | 3,799 |  22 |     . |      3.0 |    12 |  2,640 |
     |------------------------------------------------------------------|
     |  length   |  turn   |  displa~t   |   gear_r~o   |    foreign    |
     |     168   |    35   |       121   |       3.08   |   Domestic    |
     +------------------------------------------------------------------+

     +------------------------------------------------------------------+
  4. | make          | price | mpg | rep78 | headroom | trunk | weight |
     | Buick Century | 4,816 |  20 |     3 |      4.5 |    16 |  3,250 |
     |------------------------------------------------------------------|
     |  length   |  turn   |  displa~t   |   gear_r~o   |    foreign    |
     |     196   |    40   |       196   |       2.93   |   Domestic    |
     +------------------------------------------------------------------+

     +------------------------------------------------------------------+
  5. | make          | price | mpg | rep78 | headroom | trunk | weight |
     | Buick Electra | 7,827 |  15 |     4 |      4.0 |    20 |  4,080 |
     |------------------------------------------------------------------|
     |  length   |  turn   |  displa~t   |   gear_r~o   |    foreign    |
```

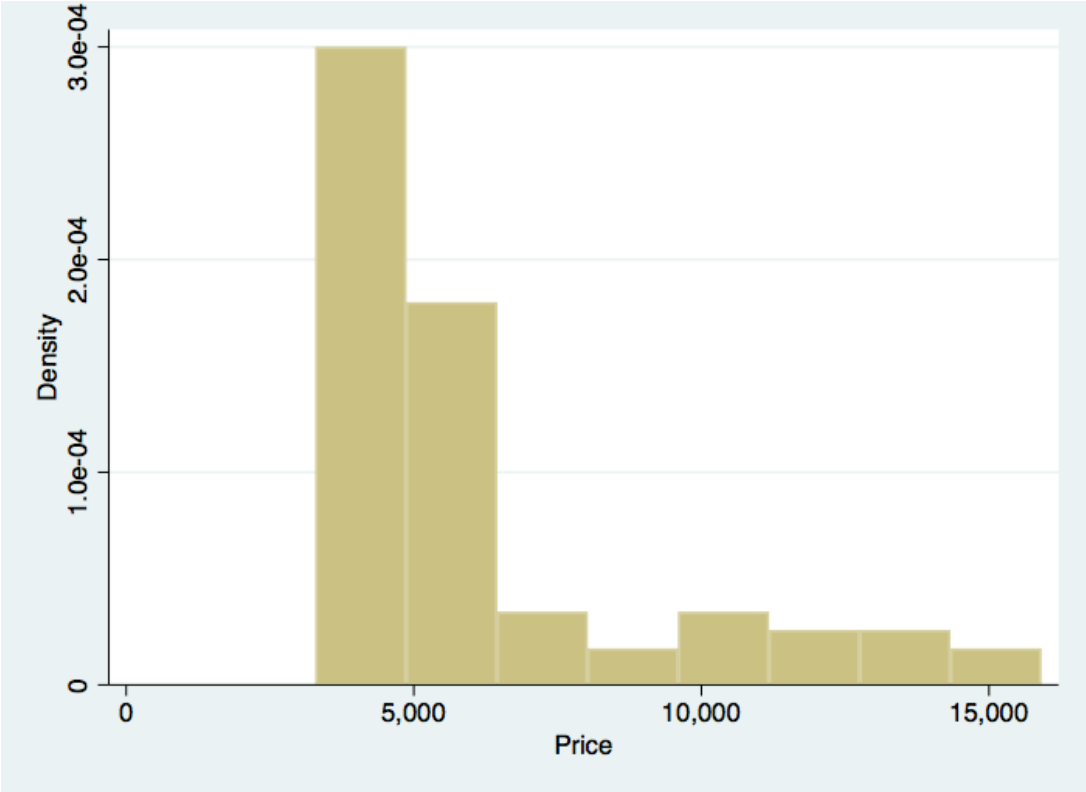
```
|      222    |      43     |       350    |       2.41    |   Domestic   |
+-------------------------------------------------------------------------+
```

```
. histogram price
    (bin=8, start=3291, width=1576.875)

. graph export graph.png, replace width(350)
    (file graph.png written in PNG format)
```

Adding a graph using Markdown

In order to add a graph using Markdown, I export the graph in PNG format. You can explain the graph in the brackets and define the file path in parentheses using Markdown syntax. Note that Markdown format cannot resize the figure and it will include it at its full size. Therefore, when you write with Markdown you should resize the graphs. Of course, if you write with *LaTeX* or *HTML* you will be able to do anything you wish! But *Markdown* is convertable to any format and thus is the prefered markup language for writing dynamic documents. In addition, it is a very minimalistic language. And perhaps that's what makes it so good, because it does not include numerous rules and tags to learn, compared to *HTML* and *LaTeX*. It's simple, easy to learn, and appealing to use.



Writing Dynamic Text

The **txt** command can be used to write dynamic text in MarkDoc. To do so, put the value that you want to print in a Macro and then explain it using the **txt** command. Or instead, I use the stored values that Stata returns after particular commands by typinc **return list**.

In the example below, I use the summarize command, and print the r(N), r(mean), r(sd), r(min), and r(max) which are returned after the **summarize** command.

```
. summarize price
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
       price |         74    6165.257    2949.496       3291      15906
```

The dataset used for this analysis includes 74 observations for the **price** variable, with mean of 6

165.256756756757 and SD of 2949.495884768919. The price of cars' ranged from 3291 to 15906.

```
. regress price mpg

      Source |       SS           df       MS      Number of obs   =        74
-------------+----------------------------------   F(1, 72)        =     20.26
       Model |   139449474         1   139449474   Prob > F        =    0.0000
    Residual |   495615923        72  6883554.48   R-squared       =    0.2196
-------------+----------------------------------   Adj R-squared   =    0.2087
       Total |   635065396        73  8699525.97   Root MSE        =    2623.7

------------------------------------------------------------------------------
       price |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         mpg |  -238.8943   53.07669    -4.50   0.000    -344.7008   -133.0879
       _cons |   11253.06   1170.813     9.61   0.000     8919.088    13587.03
------------------------------------------------------------------------------
```

You will find more information in this regard on my website . You can also Follow The Package Updates On TWITTER!

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