Writing with LaTeX in Stata Do-file Editor

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Abstract

MarkDoc not only supports writing text using **Markdown Syntax** but also allows writing and styling text using **HTML** and LaTeX. These new features will appeal only to professional users (*Wierdos*) and the majority of the users will enjoy writing with Markdown. In this short turorial I will demonstrate how to weave a document in MarkDoc using LaTeX.

1 Introduction

There is a new feature in MarkDoc that allows you to weave your document Using LaTeX. This might only be interesting to some of you.

Hey look, it's math.

$$\alpha = \sqrt{\beta} \tag{1}$$

1.1 Adding Stata output

Below I will add some Stata commands and outputs.

```
1 . sysuse auto, clear
 (1978 Automobile Data)


2 . describe

 Contains data from C:\Program Files (x86)\Stata12\ado\base/a/auto.dta
   obs:            74                          1978 Automobile Data
  vars:            12                          13 Apr 2011 17:45
  size:         3,182                          (_dta has notes)
 -------------------------------------------------------------------------------
              storage  display     value
 variable name   type   format     label      variable label
 -------------------------------------------------------------------------------
 make           str18  %-18s                   Make and Model
 price          int    %8.0gc                  Price
 mpg            int    %8.0g                   Mileage (mpg)
 rep78          int    %8.0g                   Repair Record 1978
 headroom       float  %6.1f                   Headroom (in.)
 trunk          int    %8.0g                   Trunk space (cu. ft.)
 weight         int    %8.0gc                  Weight (lbs.)
 length         int    %8.0g                   Length (in.)
 turn           int    %8.0g                   Turn Circle (ft.)
 displacement   int    %8.0g                   Displacement (cu. in.)
 gear_ratio     float  %6.2f                   Gear Ratio
 foreign        byte   %8.0g       origin      Car type
 -------------------------------------------------------------------------------
 Sorted by:  foreign
```

```
3 . list in 1/3

     +-------------------------------------------------------------+
  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 . hist price
 (bin=8, start=3291, width=1576.875)



5 . graph export graph.png, width(400) replace
 (note: file graph.png not found)
 (file graph.png written in PNG format)
```

2 Regression

Let's end this do-file with a regression analysis.

```
6 . 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
```
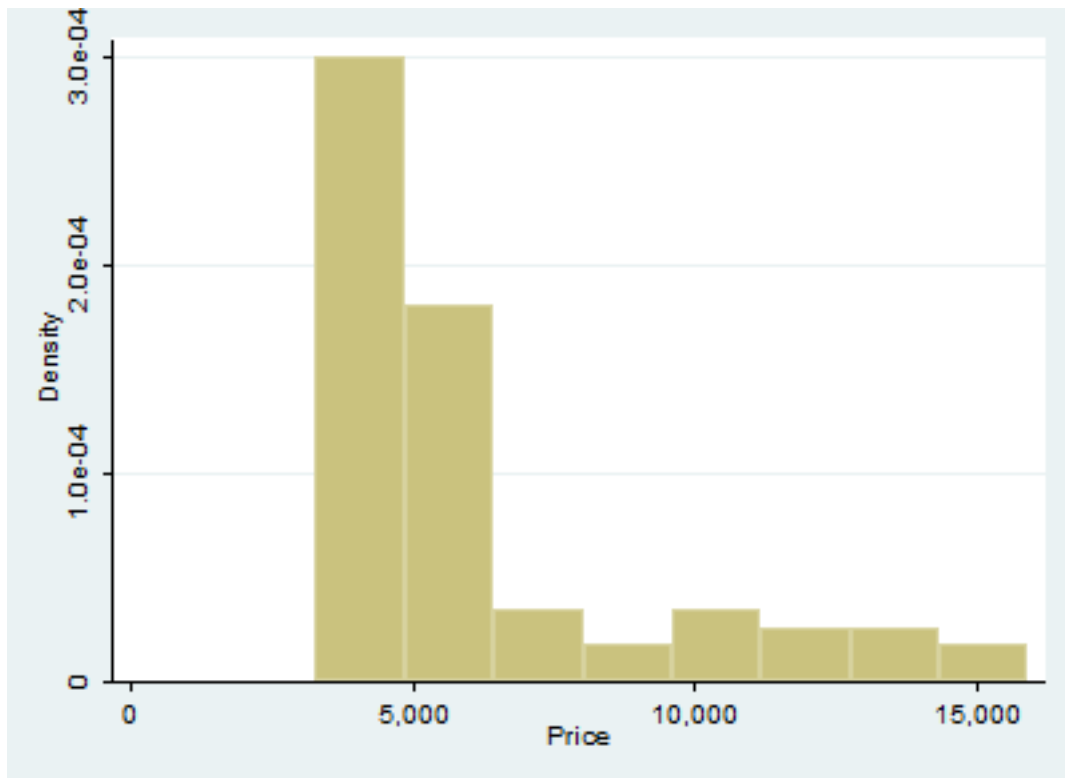
2

Figure 1: This graph shows the histogram of the price variable

```
   _cons |   11253.06    1170.813      9.61    0.000     8919.088    13587.03
---------------------------------------------------------------------------
```

3   Conclusion

Writing a document with LaTeX in **MarkDoc** is so natural and does not require additional options or commands. **MarkDoc** automatically recognizes that you are writing with LaTeX. All that you need to do is to **export a tex file** from the options. Also remember not to mix HTML, LaTeX, and Markdown in a single document. Make your mind what markup language you want to use for weaving your document.