# Example of a MarkDoc document

## Standard Features

### Some simple Stata input and output

Here is a regression example using the obligatory auto dataset, using good physics

. clear  
   
 . sysuse auto  
 (1978 Automobile Data)  
   
 . gen gp100m = 100/mpg  
   
 . regress gp100m weight displacement gear\_ratio foreign  
   
 Source | SS df MS Number of obs = 74  
 -------------+---------------------------------- F(4, 69) = 56.84  
 Model | 91.7374232 4 22.9343558 Prob > F = 0.0000  
 Residual | 27.8388375 69 .403461414 R-squared = 0.7672  
 -------------+---------------------------------- Adj R-squared = 0.7537  
 Total | 119.576261 73 1.63803097 Root MSE = .63519  
   
 ------------------------------------------------------------------------------  
 gp100m | Coef. Std. Err. t P>|t| [95% Conf. Interval]  
 -------------+----------------------------------------------------------------  
 weight | .0014428 .000216 6.68 0.000 .0010118 .0018737  
 displacement | .0012388 .0021161 0.59 0.560 -.0029828 .0054603  
 gear\_ratio | -.2037991 .3258603 -0.63 0.534 -.8538726 .4462744  
 foreign | .733736 .2301493 3.19 0.002 .2746007 1.192871  
 \_cons | .8147969 1.239181 0.66 0.513 -1.657301 3.286895  
 ------------------------------------------------------------------------------

### Including a result in the body of a sentence.

This is useful for including results in sentences in a paper.

Markdoc can use inline expansion. As an example, we can see that the coefficien t for the foreign variable is 0.734. It is, however, a shortcoming that any par agraph including an inline result must all be in a txt command in the Stata p ortion of the file.

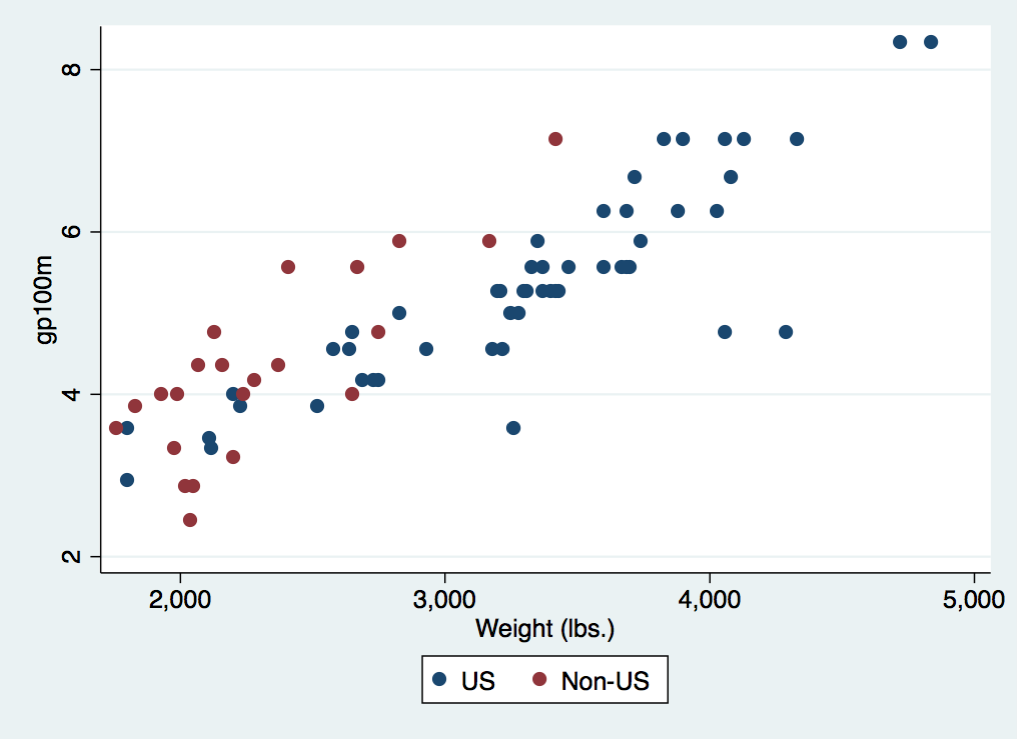
Note that the next paragraph can be written as a standard paragraph.

### Including a graph

Here is an example scatterplot command:

. twoway (scatter gp100m weight if !foreign) ///  
 (scatter gp100m weight if foreign), ///  
 legend(order(1 "US" 2 "Non-US"))

Here is the graph.



An example scatterplot

### Hiding commands and showing only results

It can be useful to hide commands and show just their output. Here, for example, is the output from a summarize command:

Variable | Obs Mean Std. Dev. Min Max  
 -------------+---------------------------------------------------------  
 gp100m | 74 5.01928 1.279856 2.439024 8.333333  
 weight | 74 3019.459 777.1936 1760 4840  
 displacement | 74 197.2973 91.83722 79 425  
 gear\_ratio | 74 3.014865 .4562871 2.19 3.89

Showing just commands works similarly.

Showing just commands or output is done line by line.

### Splitting input and output.

Markdoc cannot directly split input and output from Stata commands. This is typical for programs producing documents directly from Stata log files, because Stata itself mixes input and output in its log files. It is possible to split output by running commands multiple time and sometimes showing the comma nd, sometimes showing the output.

## Some other features to check

### Showing Mata code and output

Here is some Mata code. We don’t want to see the output from the initial mata co mmand, so we can hide it.

. mata  
 ------------------------------------------------- mata (type end to exit) -------  
 : X = (76, 53, 48 \ 53, 88, 46 \ 48, 46, 63)  
   
   
 : Xi = invsym(X)

It is useful to see the output from checking that Xi is really the inverse of X.

: Xi\*X  
 1 2 3  
 +----------------------------------------------+  
 1 | 1 -1.11022e-16 -1.11022e-16 |  
 2 | -1.11022e-16 1 0 |  
 3 | 0 0 1 |  
 +----------------------------------------------+  
   
 : end  
 ---------------------------------------------------------------------------------  
   
 . quietly log close example\_md