Sequences of text and codes

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15 Apr 2021

# Text and code chunks

This dofile shows how we can *sequence text and code chunks* in a *single dofile*. For this purpose, I will do a hypothetical data analysis and go though it step by step. I begin by loading the example data set.

. sysuse auto, clear  
 (1978 Automobile Data)

## Descriptive Statistics

In the next step I generate some descriptive statistics. I will list the data and describe and summarize a few variables.

. list in 1/5  
  
 +---------------------------------------------------------------------------------+  
 1. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |  
 | AMC Concord | 4,099 | 22 | 3 | 2.5 | 11 | 2,930 | 186 | 40 |  
 |---------------------------------------------------------------------------------|  
 | displa~t | gear\_r~o | foreign |  
 | 121 | 3.58 | Domestic |  
 +---------------------------------------------------------------------------------+  
  
 +---------------------------------------------------------------------------------+  
 2. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |  
 | AMC Pacer | 4,749 | 17 | 3 | 3.0 | 11 | 3,350 | 173 | 40 |  
 |---------------------------------------------------------------------------------|  
 | displa~t | gear\_r~o | foreign |  
 | 258 | 2.53 | Domestic |  
 +---------------------------------------------------------------------------------+  
  
 +---------------------------------------------------------------------------------+  
 3. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |  
 | AMC Spirit | 3,799 | 22 | . | 3.0 | 12 | 2,640 | 168 | 35 |  
 |---------------------------------------------------------------------------------|  
 | displa~t | gear\_r~o | foreign |  
 | 121 | 3.08 | Domestic |  
 +---------------------------------------------------------------------------------+  
  
 +---------------------------------------------------------------------------------+  
 4. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |  
 | Buick Century | 4,816 | 20 | 3 | 4.5 | 16 | 3,250 | 196 | 40 |  
 |---------------------------------------------------------------------------------|  
 | displa~t | gear\_r~o | foreign |  
 | 196 | 2.93 | Domestic |  
 +---------------------------------------------------------------------------------+  
  
 +---------------------------------------------------------------------------------+  
 5. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |  
 | Buick Electra | 7,827 | 15 | 4 | 4.0 | 20 | 4,080 | 222 | 43 |  
 |---------------------------------------------------------------------------------|  
 | displa~t | gear\_r~o | foreign |  
 | 350 | 2.41 | Domestic |  
 +---------------------------------------------------------------------------------+  
  
 . describe price  
  
 storage display value  
 variable name type format label variable label  
 --------------------------------------------------------------------------------------------  
 price int %8.0gc Price  
  
 . summarize price  
  
 Variable | Obs Mean Std. Dev. Min Max  
 -------------+---------------------------------------------------------  
 price | 74 6165.257 2949.496 3291 15906

## Regression Analysis

I will fit a regression analysis for price and mpg, using [blue]price[#] as the dependent variable and the [pink]mpg[#] as predictor. note that **Additional Markup Codes** can be used with Markdown codes in *Weaver* and *Ketchup* packages.

. 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  
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