# [Text and code chunks](#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](#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

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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 |

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2. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |

| AMC Pacer | 4,749 | 17 | 3 | 3.0 | 11 | 3,350 | 173 | 40 |

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| displa~t | gear\_r~o | foreign |

| 258 | 2.53 | Domestic |

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3. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |

| AMC Spirit | 3,799 | 22 | . | 3.0 | 12 | 2,640 | 168 | 35 |

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| displa~t | gear\_r~o | foreign |

| 121 | 3.08 | Domestic |

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4. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |

| Buick Century | 4,816 | 20 | 3 | 4.5 | 16 | 3,250 | 196 | 40 |

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| displa~t | gear\_r~o | foreign |

| 196 | 2.93 | Domestic |

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5. | make | price | mpg | rep78 | headroom | trunk | weight | length | turn |

| Buick Electra | 7,827 | 15 | 4 | 4.0 | 20 | 4,080 | 222 | 43 |

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| displa~t | gear\_r~o | foreign |

| 350 | 2.41 | Domestic |

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. describe price

storage display value

variable name type format label variable label

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price int %8.0gc Price

. summarize price

Variable | Obs Mean Std. Dev. Min Max

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price | 74 6165.257 2949.496 3291 15906

## [Regression Analysis](#regression-analysis)

I will fit a regression analysis for price and mpg, using **price** as the dependent variable and the **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

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price | Coef. Std. Err. t P>|t| [95% Conf. Interval]

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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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