

Rmd__stata__integration

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1 Setups

I have set a bunch of stuff using the first chunk above.

1. You will have a my__projdir directory.
2. You set up libraries.
3. There is a line of code that automagically finds your stata executable.

2 Using Stata in Rmarkdown

I am calling stata from R like this:

```
dofile<-"test1.do"
full.path.dofile<-file.path(stata_analysis_code,dofile)
cmd<-paste0('"' ,stataexe, '" /e do "' ,full.path.dofile, '"')
system(cmd, wait=TRUE)
```

The cmd line is kind of rough. In order to have a double quotation " in R, we have to escape it. We can either do that with "" or we can do it with /. After running this block of code, an image should appear in the images directory andd a latex table fragment should appear in the tables directory.

Stata will write a logfile to the active directory. If you are following along with R's projects, this will be in the root of your project directory.

3 Including Plots

You can also embed plots. This is not nearly as nice as native Rmd because you have to pay attention to the filenames:

3.1 knitr way

This is the knitr way

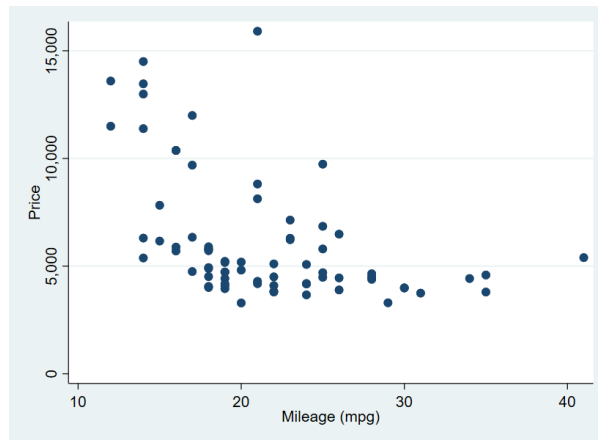
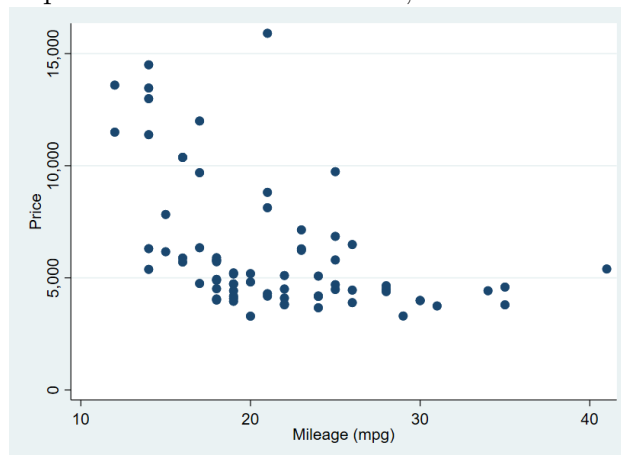


Figure 1: Scatterplot from the auto dataset

3.2 LaTeX way

The straight to LaTeX way for figure 2 will cause fails if we're going to make an html or word.

Figure 2: Same scatterplot from the auto dataset, inserted and captioned LaTeX style



	(1)	(2)
	Price	Price
Mileage (mpg)	-271.6 (57.77)	-52.22 (83.74)
Repair Record 1978	667.0 (342.4)	820.8 (320.9)
Weight (lbs.)		2.111 (0.619)
Constant	9657.8 (1346.5)	-1939.9 (3622.4)
Observations	69	69

Standard errors in parentheses

Table 1: A Table of Regression coefficients from the auto dataset

4 Here is a table

Table 1 was constructed using `outreg2` in `stata`. `Outreg2` is nice because it only makes the meat of the table (tabular environment), that makes inclusion easier.

5 Test wrappers

This is a bit of code to test that a wrapper works properly. It does. `Wrapper32.do` runs `test3.do` and then `test2.do`.

```
dofile<-"wrapper32.do"
full.path.dofile<-file.path(stata_analysis_code,dofile)
cmd<-paste0('"' , stataexe, '" /e do "' , full.path.dofile, '"')
system(cmd, wait=TRUE)
```

	(1)	(2)
	Price	Price
Mileage (mpg)	-52.22 (83.74)	-271.6 (57.77)
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Standard errors in parentheses

Table 2: Here is regression table B, produced by that wrapper

Figure 3: And here is scatterplot B

