

A quick study of auto dataset

We will use the auto dataset. It includes variable price:

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

```
. summarize price
```

Variable	Obs	Mean	Std. Dev.	Min	Max
price	74	6165.257	2949.496	3291	15906

The mean of price is 6165.257. We will also check the relationship between **mpg** and **weight** visually.

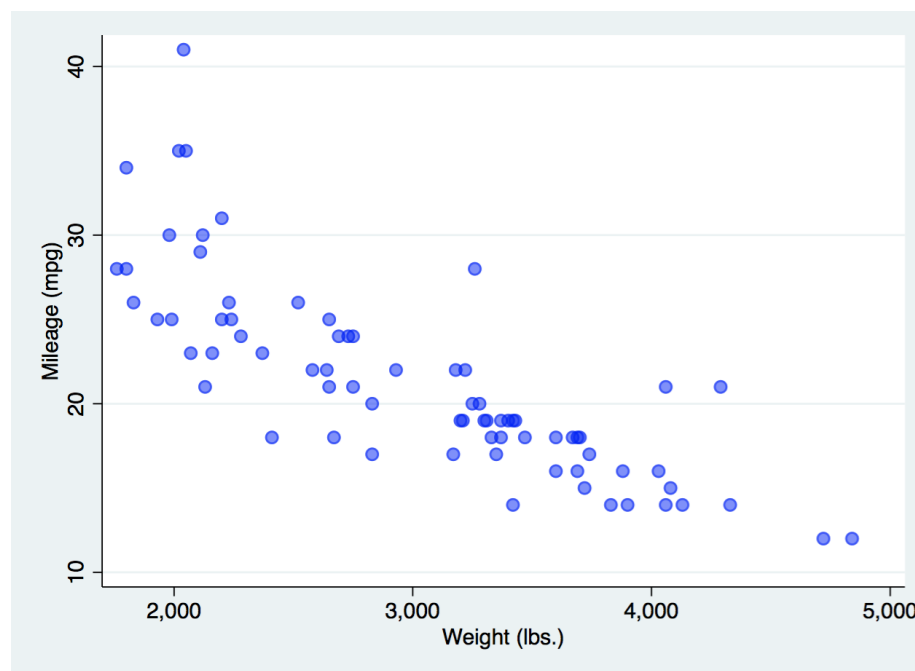


Figure 1:

and via a linear regression:

```
. regress mpg weight
```

Source	SS	df	MS	Number of obs	=	74
Model	1591.9902	1	1591.9902	F(1, 72)	=	134.62
				Prob > F	=	0.0000

Residual		851.469256		72	11.8259619	R-squared	=	0.6515
-----+-----								
Total		2443.45946		73	33.4720474	Adj R-squared	=	0.6467
						Root MSE	=	3.4389

mpg		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
weight		-.0060087	.0005179	-11.60	0.000	-.0070411 -.0049763
_cons		39.44028	1.614003	24.44	0.000	36.22283 42.65774
