

```
. infile obs chol wt behav using TBL4-6.DAT
(30 observations read)
```

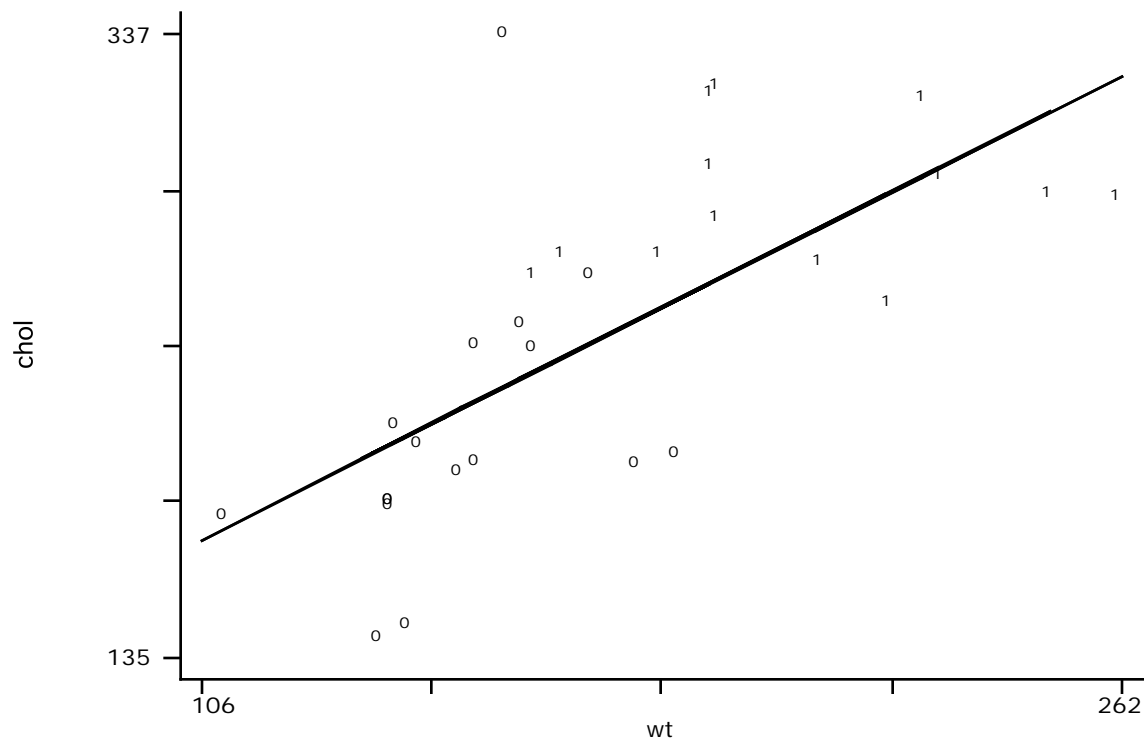
```
. regress chol wt
```

Source	SS	df	MS	Number of obs =	30
Model	39371.1883	1	39371.1883	F(1, 28) =	23.43
Residual	47043.6117	28	1680.12899	Prob > F =	0.0000
				R-squared =	0.4556
				Adj R-squared =	0.4362
Total	86414.80	29	2979.82069	Root MSE =	40.989

chol	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
wt	.9633179	.1989994	4.841	0.000	.5556862 1.37095
_cons	71.24233	35.21144	2.023	0.053	-.8850235 143.3697

```
. predict yhat
```

```
. graph chol yhat wt, s([behav]i) c(.1)
```



```
. regress chol wt behav
```

Source	SS	df	MS	Number of obs =	30
Model	47680.3789	2	23840.1894	F(2, 27) =	16.62
Residual	38734.4211	27	1434.60819	Prob > F	= 0.0000
				R-squared	= 0.5518
				Adj R-squared	= 0.5186
				Root MSE	= 37.876

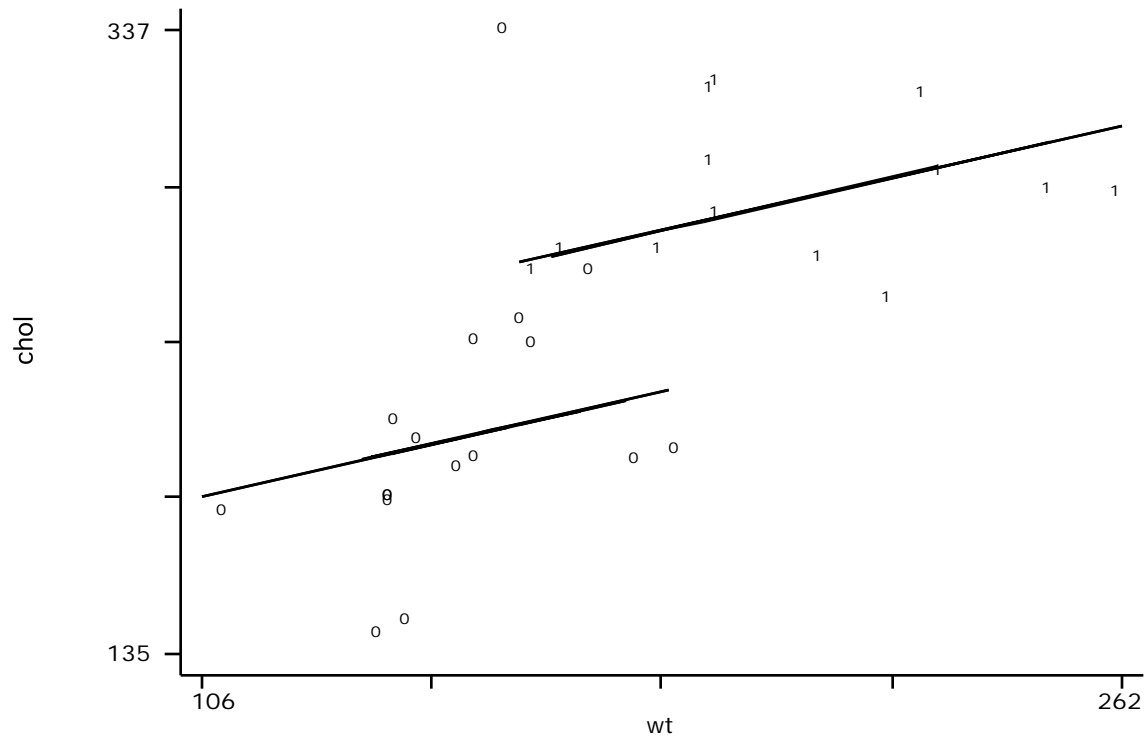
chol	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
wt	.435796	.2861112	1.523	0.139	-.1512558 1.022848
behav	52.25546	21.71296	2.407	0.023	7.704154 96.80678
_cons	139.8068	43.24723	3.233	0.003	51.07087 228.5428

```
. predict yhat0 if behav==0  
(13 missing values generated)
```

```
. predict yhat1 if behav==1  
(17 missing values generated)
```

```
. graph chol yhat0 yhat1 wt, s([behav]ii) c(.11)
```

```
. gen bw = wt * behav
```



```
. regress chol wt behav bw
```

Source	SS	df	MS	Number of obs =	30
Model	50755.8942	3	16918.6314	F(3, 26) =	12.34
Residual	35658.9058	26	1371.49638	Prob > F =	0.0000
				R-squared =	0.5874
				Adj R-squared =	0.5397
Total	86414.80	29	2979.82069	Root MSE =	37.034

chol	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
wt	1.027034	.4838827	2.122	0.043	.032399 2.021669
behav	200.6839	101.3668	1.980	0.058	-7.6785 409.0463
bw	-.8880573	.5930337	-1.497	0.146	-2.107055 .3309409
_cons	52.4775	72.0345	0.729	0.473	-95.59153 200.5465

```
. predict yhat0a if behav==0
(13 missing values generated)
```

```
. predict yhat1a if behav==1
(17 missing values generated)
```

```
. graph chol yhat0a yhat1a wt, s([behav]ii) c(.11)
```

