

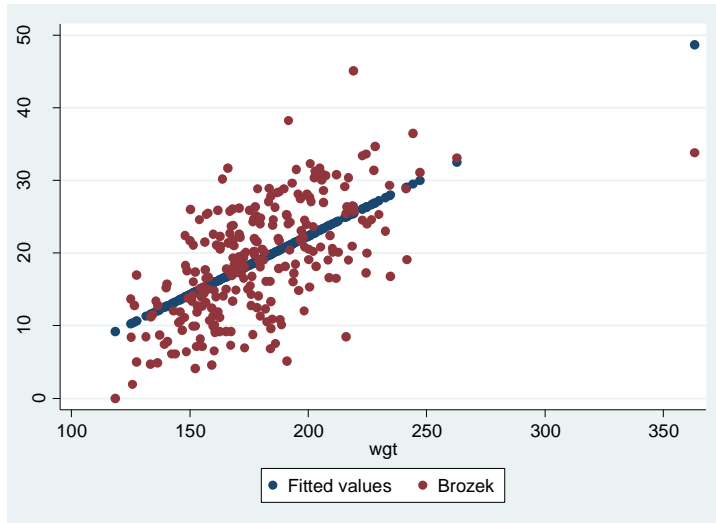
```
. reg brozek wgt
```

Source	SS	df	MS
Model	5669.11331	1	5669.11331
Residual	9409.90318	250	37.6396127
Total	15079.0165	251	60.0757629

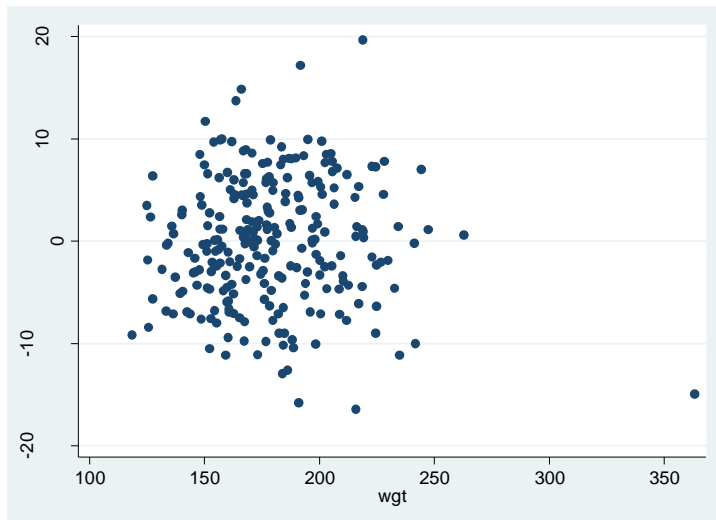
```
Number of obs = 252  
F( 1, 250) = 150.62  
Prob > F = 0.0000  
R-squared = 0.3760  
Adj R-squared = 0.3735  
Root MSE = 6.1351
```

brozek	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
wgt	.1617088	.0131765	12.27	0.000	.1357578 .1876598
_cons	-9.995151	2.389056	-4.18	0.000	-14.70039 -5.289908

```
. predict yhat  
(option xb assumed; fitted values)  
. predict uhat, resid  
  
. scatter yhat brozek wgt
```



```
. scatter uhat wgt
```



```
. summ uhat
```

Variable	Obs	Mean	Std. Dev.	Min	Max
uhat	252	4.58e-10	6.12288	-16.43394	19.68093

```
. corr uhat wgt yhat  
(obs=252)
```

	uhat	wgt	yhat
uhat	1.0000		
wgt	-0.0000	1.0000	
yhat	-0.0000	1.0000	1.0000

```
. corr brozek wgt yhat  
(obs=252)
```

	brozek	wgt	yhat
brozek	1.0000		
wgt	0.6132	1.0000	
yhat	0.6132	1.0000	1.0000

```
. summ
```

Variable	Obs	Mean	Std. Dev.	Min	Max
wgt	252	178.9244	29.38916	118.5	363.15
brozek	252	18.93849	7.750856	0	45.1

```
. corr wgt brozek  
(obs=252)
```

	wgt	brozek
wgt	1.0000	
brozek	0.6132	1.0000

```
. di .6132*7.75/29.39  
.16169786
```

```
. corr wgt brozek, covar  
(obs=252)
```

	wgt	brozek
wgt	863.723	
brozek	139.672	60.0758

```
. di 139.672 / 863.723  
.16170925
```

```
.
```