

# 1 Displaying Matrices

## 1.1 Example 1: Displaying Variance-Covariance Matrix

To display the variance-covariance matrix after the linear regression command, we can first generate a matrix to be the variance-covariance matrix and then use the `outtable` command to generate the  $\text{\LaTeX}$ code for it.

```
. regress write math female read
```

Source	SS	df	MS	Number of obs =	200
Model	9405.34864	3	3135.11621	F( 3, 196) =	72.52
Residual	8473.52636	196	43.2322773	Prob > F =	0.0000
				R-squared =	0.5261
				Adj R-squared =	0.5188
Total	17878.875	199	89.843593	Root MSE =	6.5751

write	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
math	.3974826	.0664037	5.99	0.000	.266525 .5284401
female	5.44337	.9349987	5.82	0.000	3.59942 7.287319
read	.3252389	.0607348	5.36	0.000	.2054613 .4450166
_cons	11.89566	2.862845	4.16	0.000	6.249728 17.5416

```
. matrix v=e(V)
```

```
. outtable using table1, mat(v)
```

	math	female	read	cons
math	.00440946			
female	-.00048283	.87422256		
read	-.00266962	.00255177	.00368872	
cons	-.09243854	-.58431153	-.05351035	8.195884