Example 2-8

September 12, 2020

```
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## -----

# two-ways effect model
Q.models2 <- lapply(Q.models, function(x) update(x, effect = "twoways"))

# extracts the standard deviations of the 3 components of the error term
sapply(Q.models2, function(x) sqrt(ercomp(x)$sigma2))</pre>
```

	swar	walhus	amemiya	nerlove
idios	0.06969581	0.06969581	0.06969033	0.06850461
	0.04508083			
$_{ m time}$	0.02093039	0.02093039	0.02170287	0.02261552

sapply(Q.models2, function(x) ercomp(x)\$theta)

	swar	walhus	amemiya	nerlove
id	0.7471657	0.7471657	0.7505347	0.7624338
$_{ m time}$	0.7640029	0.7640029	0.7719755	0.7842818
total	0.6863154	0.6863154	0.6932541	0.7084945