

Generalized least squares fit by REML

```
summary(model0 <- gls(Taps ~ 1))
```

Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	7.115	66.62	0

Residual standard error: 24.65

```
summary(modelA <- gls(Taps ~ StimulantF))
```

Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	7.335	64.63	0.0000
StimulantF1	5	10.373	0.48	0.6413
StimulantF2	-12	10.373	-1.16	0.2771

Residual standard error: 25.41

```
summary(modelB <- gls(Taps ~ participantF))
```

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Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	3.541	133.84	0.0000
participantF1	-17	6.134	-2.77	0.0242
participantF2	-15	6.134	-2.45	0.0402
participantF3	-4	6.134	-0.65	0.5326

Residual standard error: 12.27

```
modelC <- lm(Taps ~ StimulantF + participantF, data = fingertapstudy)
```

Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	2.147350	220.73721	0.0000
StimulantF1	5	3.036811	1.64646	0.1508
StimulantF2	-12	3.036811	-3.95151	0.0075
participantF1	-17	3.719319	-4.57073	0.0038
participantF2	-15	3.719319	-4.03300	0.0069
participantF3	-4	3.719319	-1.07547	0.3235

Residual standard error: 7.438638

```
modelD <- nlme::glS(Taps ~ 1,
  corr = corCompSymm(form = ~1 | participantF))
```

Correlation Structure: Compound symmetry

Formula: ~1 | participantF

Parameter estimate(s):

Rho

0.7877

Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	12.34	38.43	0

Residual standard error: 26.63

```
modelE <- nlme::glS(Taps ~ 1 + StimulantF + participantF,
  corr = corCompSymm(form = ~1 | participantF))
```

Correlation Structure: Compound symmetry

Formula: ~1 | participantF

Parameter estimate(s): Rho 0

Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	2.147	220.74	0.0000
StimulantF1	5	3.037	1.65	0.1508
StimulantF2	-12	3.037	-3.95	0.0075
participantF1	-17	3.719	-4.57	0.0038
participantF2	-15	3.719	-4.03	0.0069
participantF3	-4	3.719	-1.08	0.3235

Residual standard error: 7.439

```
modelF <- nlme::glS(Taps ~ 1 + StimulantF ,
  corr = corCompSymm(form = ~1 | participantF))
```

Correlation Structure: Compound symmetry

Formula: ~1 | participantF

Parameter estimate(s):

Rho

0.9143

Coefficients:

	Value	Std.Error	t-value	p-value
(Intercept)	474	12.336	38.43	0.0000
StimulantF1	5	3.037	1.65	0.1341
StimulantF2	-12	3.037	-3.95	0.0033

Residual standard error: 25.41

