

Replicability Assignment_Elham

[Code ▾](#)[Hide](#)

```
#tbl <- read.csv("G:/My Drive/CAnD3/September/WK 3 RRWM--Replicability/GSS 2017 - Family, Cycle
31/gss-12M0025-E-2017-c-31_F1")

Yes=c(1,2)
tbl$FI_105.Dummy <- ifelse(is.element(tbl$FI_105, Yes),1,0)

JointAcct=c(2,3)
tbl$JointAcct.Dummy<- ifelse(is.element(tbl$COM_200, JointAcct), 1, 0)

Satisfied=c(1,2)
tbl$Satisfied.Dummy<-ifelse(is.element(tbl$STS_410, Satisfied), 1,0)

Participating=c(1,2)
tbl$Participating.Dummy<-ifelse(is.element(tbl$REE_02, Participating), 1, 0)

ParticipatingOwn=c(1,2)
tbl$ParticipatingOwn.Dummy<-ifelse(is.element(tbl$REE_03, ParticipatingOwn), 1, 0)

Important=c(1,2)
tbl$Important.Dummy<-ifelse(is.element(tbl$RLR_110, Important), 1, 0)

Health=c(1,2,3)
tbl$Health.Dummy<-ifelse(is.element(tbl$SRH_110, Health), 1, 0)

m<- lm(SLM_01 ~ FI_105 + COM_200 + STS_410 + REE_02 + REE_03 +RLR_110 + SRH_110, data=tbl)
summary(m)
```

Call:

```
lm(formula = SLM_01 ~ FI_105 + COM_200 + STS_410 + REE_02 + REE_03 +  
    RLR_110 + SRH_110, data = tbl)
```

Residuals:

Min	1Q	Median	3Q	Max
-32.266	-2.368	-0.454	1.267	92.363

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	2.582763	0.562799	4.589	4.48e-06	***
FI_105	0.151329	0.047921	3.158	0.001592	**
COM_200	-0.058758	0.033972	-1.730	0.083711	.
STS_410	0.127655	0.078151	1.633	0.102389	
REE_02	-0.190680	0.050331	-3.789	0.000152	***
REE_03	0.191661	0.005539	34.599	< 2e-16	***
RLR_110	0.799556	0.060986	13.111	< 2e-16	***
SRH_110	1.300373	0.059938	21.695	< 2e-16	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.673 on 20594 degrees of freedom

Multiple R-squared: 0.126, Adjusted R-squared: 0.1257

F-statistic: 424.1 on 7 and 20594 DF, p-value: < 2.2e-16

Hide

```
m <-lm(SLM_01 ~ FI_105 + REE_02 +  
    REE_03 + RLR_110 + REE_02 * REE_03 * RLR_110 + SRH_110, data = tbl)  
summary(m)
```

```
Call:
lm(formula = SLM_01 ~ FI_105 + REE_02 + REE_03 + RLR_110 + REE_02 *
    REE_03 * RLR_110 + SRH_110, data = tbl)

Residuals:
    Min       1Q   Median       3Q      Max
-59.196  -1.831  -0.452   0.865  97.767

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)    6.8665836   0.4473277   15.350 < 2e-16 ***
FI_105          0.1554573   0.0456492    3.405 0.000662 ***
REE_02         -0.3789715   0.0923349   -4.104 4.07e-05 ***
REE_03          0.0613437   0.0200691    3.057 0.002241 **
RLR_110        -0.2551780   0.2303507   -1.108 0.267970
SRH_110         0.8098939   0.0584032   13.867 < 2e-16 ***
REE_02:REE_03   -0.0121047   0.0037578   -3.221 0.001278 **
REE_02:RLR_110   0.1071995   0.0503556    2.129 0.033279 *
REE_03:RLR_110  -0.0297976   0.0049446   -6.026 1.71e-09 ***
REE_02:REE_03:RLR_110 0.0099780   0.0007991   12.486 < 2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 9.268 on 20592 degrees of freedom
Multiple R-squared:  0.1977,    Adjusted R-squared:  0.1973
F-statistic: 563.7 on 9 and 20592 DF,  p-value: < 2.2e-16
```

Hide

```
plot(m)
```



