## Code ▼

## Replicability Assignment\_Elham

Hide

```
#tbl <- read.csv("G:/My Drive/CAnD3/September/WK 3 RRWM--Replicability/GSS 2017 - Family, Cycle</pre>
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
COM_200
          -0.058758 0.033972 -1.730 0.083711 .
STS_410
          0.127655 0.078151 1.633 0.102389
        -0.190680 0.050331 -3.789 0.000152 ***
REE_02
         0.191661 0.005539 34.599 < 2e-16 ***
REE_03
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
```

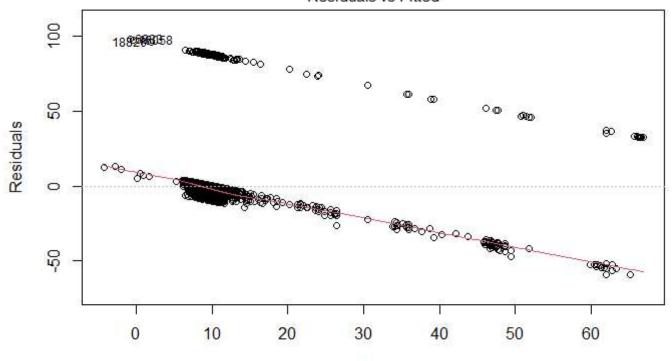
Hide

```
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)
              FI 105
               0.1554573 0.0456492 3.405 0.000662 ***
REE_02
              REE_03
              -0.2551780 0.2303507 -1.108 0.267970
RLR_110
               SRH 110
REE_02:REE_03
              0.1071995 0.0503556 2.129 0.033279 *
REE 02:RLR 110
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
```

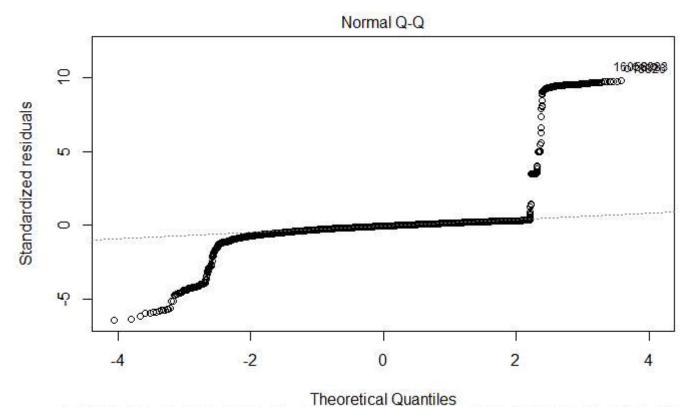
Hide

plot(m)

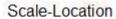


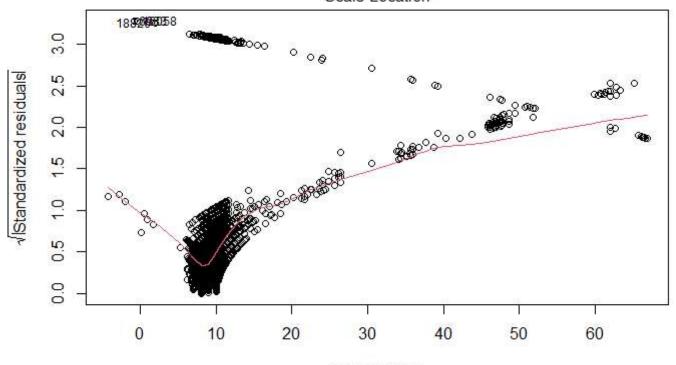


Fitted values Im(SLM\_01 ~ FI\_105 + REE\_02 + REE\_03 + RLR\_110 + REE\_02 \* REE\_03 \* RLR\_110 ...

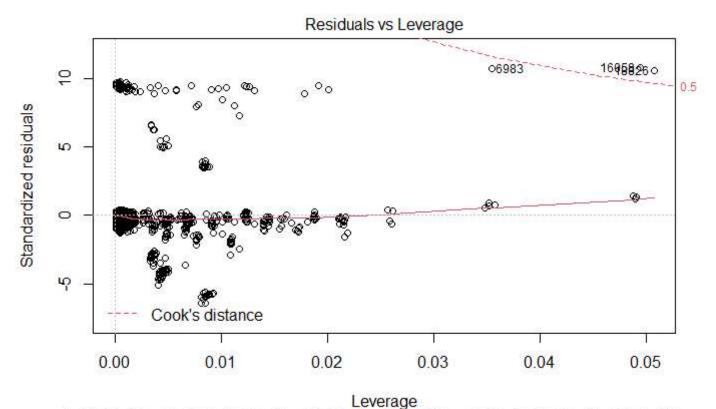


Im(SLM\_01 ~ FI\_105 + REE\_02 + REE\_03 + RLR\_110 + REE\_02 \* REE\_03 \* RLR\_110 ...





Fitted values Im(SLM\_01 ~ FI\_105 + REE\_02 + REE\_03 + RLR\_110 + REE\_02 \* REE\_03 \* RLR\_110 ...



Im(SLM\_01 ~ FI\_105 + REE\_02 + REE\_03 + RLR\_110 + REE\_02 \* REE\_03 \* RLR\_110 ...

Hide