Untitled

Lucy Wells

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

library(tidyverse)

## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
## ✔ dplyr 1.1.4 ✔ readr 2.1.4  
## ✔ forcats 1.0.0 ✔ stringr 1.5.0  
## ✔ ggplot2 3.4.4 ✔ tibble 3.2.1  
## ✔ lubridate 1.9.3 ✔ tidyr 1.3.0  
## ✔ purrr 1.0.2   
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()  
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(psyntur)

## Registered S3 method overwritten by 'GGally':  
## method from   
## +.gg ggplot2

IAT\_clean\_df <- readRDS('IAT\_clean.Rds')  
  
M\_1 <- lm(SQR\_Total ~ Internet\_usg, data = IAT\_clean\_df)  
  
summary(M\_1)

##   
## Call:  
## lm(formula = SQR\_Total ~ Internet\_usg, data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -18.642 -2.226 0.567 2.683 8.957   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 18.641918 0.307994 60.53 <2e-16 \*\*\*  
## Internet\_usg -0.088357 0.007139 -12.38 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 3.771 on 865 degrees of freedom  
## (117 observations deleted due to missingness)  
## Multiple R-squared: 0.1504, Adjusted R-squared: 0.1494   
## F-statistic: 153.2 on 1 and 865 DF, p-value: < 2.2e-16

M\_2 <- lm(mhn ~ iun, data = IAT\_clean\_df)  
  
summary(M\_2)

##   
## Call:  
## lm(formula = mhn ~ iun, data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -4.5597 -0.5445 0.1387 0.6563 2.1908   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -0.004626 0.031324 -0.148 0.883   
## iun -0.383834 0.031015 -12.376 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.9223 on 865 degrees of freedom  
## (117 observations deleted due to missingness)  
## Multiple R-squared: 0.1504, Adjusted R-squared: 0.1494   
## F-statistic: 153.2 on 1 and 865 DF, p-value: < 2.2e-16

M\_3a <- lm(mhn ~ iun + Gender + Age\_grp + Level\_study + Discipline, data = IAT\_clean\_df)  
  
summary(M\_3a)

##   
## Call:  
## lm(formula = mhn ~ iun + Gender + Age\_grp + Level\_study + Discipline,   
## data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -4.4874 -0.5482 0.1437 0.6334 2.3077   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -0.23897 0.06682 -3.576 0.000369 \*\*\*  
## iun -0.37672 0.03174 -11.867 < 2e-16 \*\*\*  
## Gender 0.17790 0.07007 2.539 0.011306 \*   
## Age\_grp 0.09881 0.03750 2.635 0.008565 \*\*   
## Level\_study -0.10045 0.15389 -0.653 0.514105   
## Discipline 0.02101 0.07642 0.275 0.783477   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.9199 on 832 degrees of freedom  
## (146 observations deleted due to missingness)  
## Multiple R-squared: 0.1665, Adjusted R-squared: 0.1615   
## F-statistic: 33.24 on 5 and 832 DF, p-value: < 2.2e-16

M\_3 <- lm(mhn ~ stay\_online + neglect\_chores + excitement + relationships + life\_complaint + school\_work + email\_socialmedia + job\_performance + defensive\_secretive + disturbing\_thoughts + online\_anticipation + life\_no\_internet + act\_annoyed + late\_night\_logins + feel\_preoccupied + online\_glued + time\_cutdown + hide\_online + more\_online\_time + feel\_depressed + Gender + Age\_grp + Level\_study + Discipline, data = IAT\_clean\_df)  
  
summary(M\_3)

##   
## Call:  
## lm(formula = mhn ~ stay\_online + neglect\_chores + excitement +   
## relationships + life\_complaint + school\_work + email\_socialmedia +   
## job\_performance + defensive\_secretive + disturbing\_thoughts +   
## online\_anticipation + life\_no\_internet + act\_annoyed + late\_night\_logins +   
## feel\_preoccupied + online\_glued + time\_cutdown + hide\_online +   
## more\_online\_time + feel\_depressed + Gender + Age\_grp + Level\_study +   
## Discipline, data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.1774 -0.5169 0.1239 0.5505 2.2026   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.493299 0.117648 4.193 3.14e-05 \*\*\*  
## stay\_online 0.035992 0.032445 1.109 0.26770   
## neglect\_chores -0.072267 0.033632 -2.149 0.03203 \*   
## excitement 0.019600 0.025561 0.767 0.44348   
## relationships -0.008186 0.027062 -0.302 0.76239   
## life\_complaint -0.049321 0.030258 -1.630 0.10359   
## school\_work -0.100193 0.031641 -3.167 0.00162 \*\*   
## email\_socialmedia 0.069259 0.024220 2.860 0.00438 \*\*   
## job\_performance -0.100841 0.033582 -3.003 0.00278 \*\*   
## defensive\_secretive -0.002896 0.026183 -0.111 0.91196   
## disturbing\_thoughts 0.012546 0.026500 0.473 0.63605   
## online\_anticipation -0.005178 0.029601 -0.175 0.86120   
## life\_no\_internet 0.018440 0.025067 0.736 0.46223   
## act\_annoyed -0.013496 0.029753 -0.454 0.65028   
## late\_night\_logins -0.026720 0.030529 -0.875 0.38177   
## feel\_preoccupied 0.014395 0.031484 0.457 0.64767   
## online\_glued -0.064367 0.029828 -2.158 0.03131 \*   
## time\_cutdown -0.060790 0.028768 -2.113 0.03498 \*   
## hide\_online -0.022093 0.026471 -0.835 0.40424   
## more\_online\_time -0.024047 0.030150 -0.798 0.42541   
## feel\_depressed -0.045333 0.029410 -1.541 0.12371   
## Gender 0.109370 0.077241 1.416 0.15728   
## Age\_grp 0.127329 0.040969 3.108 0.00197 \*\*   
## Level\_study -0.181115 0.171683 -1.055 0.29185   
## Discipline -0.013385 0.081608 -0.164 0.86977   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.873 on 640 degrees of freedom  
## (319 observations deleted due to missingness)  
## Multiple R-squared: 0.2523, Adjusted R-squared: 0.2243   
## F-statistic: 9 on 24 and 640 DF, p-value: < 2.2e-16

# save the Anova result as A3  
A\_3 <- car::Anova(M\_3)  
A\_3a <- car::Anova(M\_3a)   
  
  
M\_4a <- lm(mhn ~ iun \* (Gender + Age\_grp + Level\_study + Discipline), data = IAT\_clean\_df)  
  
summary(M\_4a)

##   
## Call:  
## lm(formula = mhn ~ iun \* (Gender + Age\_grp + Level\_study + Discipline),   
## data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -4.5262 -0.5505 0.1408 0.6295 2.2055   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -0.24125 0.06719 -3.591 0.000349 \*\*\*  
## iun -0.35156 0.06422 -5.474 5.83e-08 \*\*\*  
## Gender 0.18097 0.07047 2.568 0.010404 \*   
## Age\_grp 0.09837 0.03757 2.618 0.009005 \*\*   
## Level\_study -0.13668 0.16105 -0.849 0.396305   
## Discipline 0.02833 0.07712 0.367 0.713510   
## iun:Gender -0.04224 0.06889 -0.613 0.539908   
## iun:Age\_grp 0.01484 0.03810 0.390 0.696942   
## iun:Level\_study -0.13133 0.17469 -0.752 0.452390   
## iun:Discipline -0.05287 0.07572 -0.698 0.485244   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.9215 on 828 degrees of freedom  
## (146 observations deleted due to missingness)  
## Multiple R-squared: 0.1677, Adjusted R-squared: 0.1587   
## F-statistic: 18.54 on 9 and 828 DF, p-value: < 2.2e-16

M\_4 <- lm(mhn ~ stay\_online + neglect\_chores + excitement + relationships + life\_complaint + school\_work + email\_socialmedia + job\_performance + defensive\_secretive + disturbing\_thoughts + online\_anticipation + life\_no\_internet + act\_annoyed + late\_night\_logins + feel\_preoccupied + online\_glued + time\_cutdown + hide\_online + more\_online\_time + feel\_depressed \* (Gender + Age\_grp + Level\_study + Discipline), data = IAT\_clean\_df)  
  
summary(M\_4)

##   
## Call:  
## lm(formula = mhn ~ stay\_online + neglect\_chores + excitement +   
## relationships + life\_complaint + school\_work + email\_socialmedia +   
## job\_performance + defensive\_secretive + disturbing\_thoughts +   
## online\_anticipation + life\_no\_internet + act\_annoyed + late\_night\_logins +   
## feel\_preoccupied + online\_glued + time\_cutdown + hide\_online +   
## more\_online\_time + feel\_depressed \* (Gender + Age\_grp + Level\_study +   
## Discipline), data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.1562 -0.5301 0.1250 0.5568 2.1882   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.488344 0.143177 3.411 0.000689 \*\*\*  
## stay\_online 0.035059 0.032519 1.078 0.281390   
## neglect\_chores -0.068362 0.033700 -2.029 0.042919 \*   
## excitement 0.019899 0.025675 0.775 0.438610   
## relationships -0.009643 0.027086 -0.356 0.721960   
## life\_complaint -0.053422 0.030366 -1.759 0.079013 .   
## school\_work -0.099661 0.031674 -3.146 0.001730 \*\*   
## email\_socialmedia 0.065027 0.024379 2.667 0.007841 \*\*   
## job\_performance -0.106021 0.033689 -3.147 0.001727 \*\*   
## defensive\_secretive -0.004959 0.026241 -0.189 0.850166   
## disturbing\_thoughts 0.010320 0.026547 0.389 0.697596   
## online\_anticipation -0.003537 0.029686 -0.119 0.905187   
## life\_no\_internet 0.017522 0.025102 0.698 0.485399   
## act\_annoyed -0.013742 0.029766 -0.462 0.644484   
## late\_night\_logins -0.026717 0.030575 -0.874 0.382538   
## feel\_preoccupied 0.018808 0.031646 0.594 0.552504   
## online\_glued -0.063625 0.029902 -2.128 0.033736 \*   
## time\_cutdown -0.061226 0.028833 -2.123 0.034100 \*   
## hide\_online -0.019170 0.026585 -0.721 0.471132   
## more\_online\_time -0.025567 0.030185 -0.847 0.397313   
## feel\_depressed -0.035951 0.049110 -0.732 0.464400   
## Gender 0.196229 0.127496 1.539 0.124278   
## Age\_grp 0.059101 0.065079 0.908 0.364146   
## Level\_study 0.169549 0.302455 0.561 0.575284   
## Discipline 0.113777 0.139057 0.818 0.413548   
## feel\_depressed:Gender -0.040574 0.047842 -0.848 0.396706   
## feel\_depressed:Age\_grp 0.033359 0.025624 1.302 0.193442   
## feel\_depressed:Level\_study -0.195897 0.139192 -1.407 0.159800   
## feel\_depressed:Discipline -0.061587 0.053326 -1.155 0.248561   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.8728 on 636 degrees of freedom  
## (319 observations deleted due to missingness)  
## Multiple R-squared: 0.2573, Adjusted R-squared: 0.2246   
## F-statistic: 7.868 on 28 and 636 DF, p-value: < 2.2e-16

A\_4 <- car::Anova(M\_4)  
A\_4a <- car::Anova(M\_4a)   
  
M\_5<- lm(Discipline ~ SQR\_Total, data = IAT\_clean\_df)  
summary(M\_5)

##   
## Call:  
## lm(formula = Discipline ~ SQR\_Total, data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -0.2752 -0.2406 -0.2308 -0.2258 0.7742   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.275168 0.055728 4.938 9.5e-07 \*\*\*  
## SQR\_Total -0.002467 0.003549 -0.695 0.487   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.4261 on 856 degrees of freedom  
## (126 observations deleted due to missingness)  
## Multiple R-squared: 0.0005645, Adjusted R-squared: -0.0006031   
## F-statistic: 0.4835 on 1 and 856 DF, p-value: 0.487

M\_8<- lm(Gender ~ SQR\_Total, data = IAT\_clean\_df)  
M\_9<- lm(Age\_grp ~ SQR\_Total, data = IAT\_clean\_df)  
  
summary(M\_8)

##   
## Call:  
## lm(formula = Gender ~ SQR\_Total, data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -0.7171 -0.6060 0.2968 0.3523 0.5608   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.439216 0.061979 7.087 2.87e-12 \*\*\*  
## SQR\_Total 0.013896 0.003945 3.523 0.000449 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.4741 on 858 degrees of freedom  
## (124 observations deleted due to missingness)  
## Multiple R-squared: 0.01426, Adjusted R-squared: 0.01311   
## F-statistic: 12.41 on 1 and 858 DF, p-value: 0.0004495

summary(M\_9)

##   
## Call:  
## lm(formula = Age\_grp ~ SQR\_Total, data = IAT\_clean\_df)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1.3093 -0.3093 -0.1936 0.0666 3.9510   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.73095 0.12157 6.013 2.7e-09 \*\*\*  
## SQR\_Total 0.02892 0.00773 3.741 0.000195 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.9242 on 856 degrees of freedom  
## (126 observations deleted due to missingness)  
## Multiple R-squared: 0.01609, Adjusted R-squared: 0.01494   
## F-statistic: 14 on 1 and 856 DF, p-value: 0.0001955

install.packages('mice')

## Installing package into '/cloud/lib/x86\_64-pc-linux-gnu-library/4.3'  
## (as 'lib' is unspecified)

library(mice)

##   
## Attaching package: 'mice'  
##   
## The following object is masked from 'package:psyntur':  
##   
## densityplot  
##   
## The following object is masked from 'package:stats':  
##   
## filter  
##   
## The following objects are masked from 'package:base':  
##   
## cbind, rbind

# select only columns mhn, iun, Gender ... Discipline  
IAT\_clean\_df\_subset <- select(IAT\_clean\_df, mhn, iun, Gender, Age\_grp, Level\_study, Discipline)  
  
# Impute missing values (note MICE package is loaded above)  
# Use m = 100 imputed data sets (this will take a minute or so to load)  
IAT\_clean\_df\_subset\_\_imputed <- mice(IAT\_clean\_df\_subset, m = 100)

##   
## iter imp variable  
## 1 1 mhn Gender Age\_grp Level\_study Discipline  
## 1 2 mhn Gender Age\_grp Level\_study Discipline  
## 1 3 mhn Gender Age\_grp Level\_study Discipline  
## 1 4 mhn Gender Age\_grp Level\_study Discipline  
## 1 5 mhn Gender Age\_grp Level\_study Discipline  
## 1 6 mhn Gender Age\_grp Level\_study Discipline  
## 1 7 mhn Gender Age\_grp Level\_study Discipline  
## 1 8 mhn Gender Age\_grp Level\_study Discipline  
## 1 9 mhn Gender Age\_grp Level\_study Discipline  
## 1 10 mhn Gender Age\_grp Level\_study Discipline  
## 1 11 mhn Gender Age\_grp Level\_study Discipline  
## 1 12 mhn Gender Age\_grp Level\_study Discipline  
## 1 13 mhn Gender Age\_grp Level\_study Discipline  
## 1 14 mhn Gender Age\_grp Level\_study Discipline  
## 1 15 mhn Gender Age\_grp Level\_study Discipline  
## 1 16 mhn Gender Age\_grp Level\_study Discipline  
## 1 17 mhn Gender Age\_grp Level\_study Discipline  
## 1 18 mhn Gender Age\_grp Level\_study Discipline  
## 1 19 mhn Gender Age\_grp Level\_study Discipline  
## 1 20 mhn Gender Age\_grp Level\_study Discipline  
## 1 21 mhn Gender Age\_grp Level\_study Discipline  
## 1 22 mhn Gender Age\_grp Level\_study Discipline  
## 1 23 mhn Gender Age\_grp Level\_study Discipline  
## 1 24 mhn Gender Age\_grp Level\_study Discipline  
## 1 25 mhn Gender Age\_grp Level\_study Discipline  
## 1 26 mhn Gender Age\_grp Level\_study Discipline  
## 1 27 mhn Gender Age\_grp Level\_study Discipline  
## 1 28 mhn Gender Age\_grp Level\_study Discipline  
## 1 29 mhn Gender Age\_grp Level\_study Discipline  
## 1 30 mhn Gender Age\_grp Level\_study Discipline  
## 1 31 mhn Gender Age\_grp Level\_study Discipline  
## 1 32 mhn Gender Age\_grp Level\_study Discipline  
## 1 33 mhn Gender Age\_grp Level\_study Discipline  
## 1 34 mhn Gender Age\_grp Level\_study Discipline  
## 1 35 mhn Gender Age\_grp Level\_study Discipline  
## 1 36 mhn Gender Age\_grp Level\_study Discipline  
## 1 37 mhn Gender Age\_grp Level\_study Discipline  
## 1 38 mhn Gender Age\_grp Level\_study Discipline  
## 1 39 mhn Gender Age\_grp Level\_study Discipline  
## 1 40 mhn Gender Age\_grp Level\_study Discipline  
## 1 41 mhn Gender Age\_grp Level\_study Discipline  
## 1 42 mhn Gender Age\_grp Level\_study Discipline  
## 1 43 mhn Gender Age\_grp Level\_study Discipline  
## 1 44 mhn Gender Age\_grp Level\_study Discipline  
## 1 45 mhn Gender Age\_grp Level\_study Discipline  
## 1 46 mhn Gender Age\_grp Level\_study Discipline  
## 1 47 mhn Gender Age\_grp Level\_study Discipline  
## 1 48 mhn Gender Age\_grp Level\_study Discipline  
## 1 49 mhn Gender Age\_grp Level\_study Discipline  
## 1 50 mhn Gender Age\_grp Level\_study Discipline  
## 1 51 mhn Gender Age\_grp Level\_study Discipline  
## 1 52 mhn Gender Age\_grp Level\_study Discipline  
## 1 53 mhn Gender Age\_grp Level\_study Discipline  
## 1 54 mhn Gender Age\_grp Level\_study Discipline  
## 1 55 mhn Gender Age\_grp Level\_study Discipline  
## 1 56 mhn Gender Age\_grp Level\_study Discipline  
## 1 57 mhn Gender Age\_grp Level\_study Discipline  
## 1 58 mhn Gender Age\_grp Level\_study Discipline  
## 1 59 mhn Gender Age\_grp Level\_study Discipline  
## 1 60 mhn Gender Age\_grp Level\_study Discipline  
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## 1 62 mhn Gender Age\_grp Level\_study Discipline  
## 1 63 mhn Gender Age\_grp Level\_study Discipline  
## 1 64 mhn Gender Age\_grp Level\_study Discipline  
## 1 65 mhn Gender Age\_grp Level\_study Discipline  
## 1 66 mhn Gender Age\_grp Level\_study Discipline  
## 1 67 mhn Gender Age\_grp Level\_study Discipline  
## 1 68 mhn Gender Age\_grp Level\_study Discipline  
## 1 69 mhn Gender Age\_grp Level\_study Discipline  
## 1 70 mhn Gender Age\_grp Level\_study Discipline  
## 1 71 mhn Gender Age\_grp Level\_study Discipline  
## 1 72 mhn Gender Age\_grp Level\_study Discipline  
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## 1 77 mhn Gender Age\_grp Level\_study Discipline  
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## 1 79 mhn Gender Age\_grp Level\_study Discipline  
## 1 80 mhn Gender Age\_grp Level\_study Discipline  
## 1 81 mhn Gender Age\_grp Level\_study Discipline  
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## 1 93 mhn Gender Age\_grp Level\_study Discipline  
## 1 94 mhn Gender Age\_grp Level\_study Discipline  
## 1 95 mhn Gender Age\_grp Level\_study Discipline  
## 1 96 mhn Gender Age\_grp Level\_study Discipline  
## 1 97 mhn Gender Age\_grp Level\_study Discipline  
## 1 98 mhn Gender Age\_grp Level\_study Discipline  
## 1 99 mhn Gender Age\_grp Level\_study Discipline  
## 1 100 mhn Gender Age\_grp Level\_study Discipline  
## 2 1 mhn Gender Age\_grp Level\_study Discipline  
## 2 2 mhn Gender Age\_grp Level\_study Discipline  
## 2 3 mhn Gender Age\_grp Level\_study Discipline  
## 2 4 mhn Gender Age\_grp Level\_study Discipline  
## 2 5 mhn Gender Age\_grp Level\_study Discipline  
## 2 6 mhn Gender Age\_grp Level\_study Discipline  
## 2 7 mhn Gender Age\_grp Level\_study Discipline  
## 2 8 mhn Gender Age\_grp Level\_study Discipline  
## 2 9 mhn Gender Age\_grp Level\_study Discipline  
## 2 10 mhn Gender Age\_grp Level\_study Discipline  
## 2 11 mhn Gender Age\_grp Level\_study Discipline  
## 2 12 mhn Gender Age\_grp Level\_study Discipline  
## 2 13 mhn Gender Age\_grp Level\_study Discipline  
## 2 14 mhn Gender Age\_grp Level\_study Discipline  
## 2 15 mhn Gender Age\_grp Level\_study Discipline  
## 2 16 mhn Gender Age\_grp Level\_study Discipline  
## 2 17 mhn Gender Age\_grp Level\_study Discipline  
## 2 18 mhn Gender Age\_grp Level\_study Discipline  
## 2 19 mhn Gender Age\_grp Level\_study Discipline  
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## 2 23 mhn Gender Age\_grp Level\_study Discipline  
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# Re-do model M\_3 above using the imputed data set M\_3 <- lm(mhn ~ iun + Gender + Age\_grp + Level\_study + Discipline, data = IAT\_clean\_df)  
M\_3\_\_mice <- with(IAT\_clean\_df\_subset\_\_imputed,  
 lm(mhn ~ iun + Gender + Age\_grp + Level\_study + Discipline, data = IAT\_clean\_df)  
)  
  
M\_3\_coef\_table <- summary(pool(M\_3\_\_mice)) %>% as\_tibble(rownames = 'variable')  
  
M\_4\_\_mice <- with(IAT\_clean\_df\_subset\_\_imputed,  
 lm(mhn ~ iun \* (Gender + Age\_grp + Level\_study + Discipline), data = IAT\_clean\_df))  
  
M\_4\_coef\_table <- summary(pool(M\_4\_\_mice)) %>% as\_tibble(rownames = 'variable')

## Including Plots  
  
You can also embed plots, for example:  
  
  
```r  
knitr::kable(  
 summary(M\_1)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 18.64 | 0.31 | 60.53 | 0 |
| Internet\_usg | -0.09 | 0.01 | -12.38 | 0 |

knitr::kable(  
 summary(M\_2)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 0.00 | 0.03 | -0.15 | 0.88 |
| iun | -0.38 | 0.03 | -12.38 | 0.00 |

knitr::kable(  
 summary(M\_3a)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | -0.24 | 0.07 | -3.58 | 0.00 |
| iun | -0.38 | 0.03 | -11.87 | 0.00 |
| Gender | 0.18 | 0.07 | 2.54 | 0.01 |
| Age\_grp | 0.10 | 0.04 | 2.64 | 0.01 |
| Level\_study | -0.10 | 0.15 | -0.65 | 0.51 |
| Discipline | 0.02 | 0.08 | 0.27 | 0.78 |

knitr::kable(  
 summary(M\_3)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 0.49 | 0.12 | 4.19 | 0.00 |
| stay\_online | 0.04 | 0.03 | 1.11 | 0.27 |
| neglect\_chores | -0.07 | 0.03 | -2.15 | 0.03 |
| excitement | 0.02 | 0.03 | 0.77 | 0.44 |
| relationships | -0.01 | 0.03 | -0.30 | 0.76 |
| life\_complaint | -0.05 | 0.03 | -1.63 | 0.10 |
| school\_work | -0.10 | 0.03 | -3.17 | 0.00 |
| email\_socialmedia | 0.07 | 0.02 | 2.86 | 0.00 |
| job\_performance | -0.10 | 0.03 | -3.00 | 0.00 |
| defensive\_secretive | 0.00 | 0.03 | -0.11 | 0.91 |
| disturbing\_thoughts | 0.01 | 0.03 | 0.47 | 0.64 |
| online\_anticipation | -0.01 | 0.03 | -0.17 | 0.86 |
| life\_no\_internet | 0.02 | 0.03 | 0.74 | 0.46 |
| act\_annoyed | -0.01 | 0.03 | -0.45 | 0.65 |
| late\_night\_logins | -0.03 | 0.03 | -0.88 | 0.38 |
| feel\_preoccupied | 0.01 | 0.03 | 0.46 | 0.65 |
| online\_glued | -0.06 | 0.03 | -2.16 | 0.03 |
| time\_cutdown | -0.06 | 0.03 | -2.11 | 0.03 |
| hide\_online | -0.02 | 0.03 | -0.83 | 0.40 |
| more\_online\_time | -0.02 | 0.03 | -0.80 | 0.43 |
| feel\_depressed | -0.05 | 0.03 | -1.54 | 0.12 |
| Gender | 0.11 | 0.08 | 1.42 | 0.16 |
| Age\_grp | 0.13 | 0.04 | 3.11 | 0.00 |
| Level\_study | -0.18 | 0.17 | -1.05 | 0.29 |
| Discipline | -0.01 | 0.08 | -0.16 | 0.87 |

knitr::kable(  
 summary(M\_4a)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | -0.24 | 0.07 | -3.59 | 0.00 |
| iun | -0.35 | 0.06 | -5.47 | 0.00 |
| Gender | 0.18 | 0.07 | 2.57 | 0.01 |
| Age\_grp | 0.10 | 0.04 | 2.62 | 0.01 |
| Level\_study | -0.14 | 0.16 | -0.85 | 0.40 |
| Discipline | 0.03 | 0.08 | 0.37 | 0.71 |
| iun:Gender | -0.04 | 0.07 | -0.61 | 0.54 |
| iun:Age\_grp | 0.01 | 0.04 | 0.39 | 0.70 |
| iun:Level\_study | -0.13 | 0.17 | -0.75 | 0.45 |
| iun:Discipline | -0.05 | 0.08 | -0.70 | 0.49 |

knitr::kable(  
 summary(M\_4)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 0.49 | 0.14 | 3.41 | 0.00 |
| stay\_online | 0.04 | 0.03 | 1.08 | 0.28 |
| neglect\_chores | -0.07 | 0.03 | -2.03 | 0.04 |
| excitement | 0.02 | 0.03 | 0.78 | 0.44 |
| relationships | -0.01 | 0.03 | -0.36 | 0.72 |
| life\_complaint | -0.05 | 0.03 | -1.76 | 0.08 |
| school\_work | -0.10 | 0.03 | -3.15 | 0.00 |
| email\_socialmedia | 0.07 | 0.02 | 2.67 | 0.01 |
| job\_performance | -0.11 | 0.03 | -3.15 | 0.00 |
| defensive\_secretive | 0.00 | 0.03 | -0.19 | 0.85 |
| disturbing\_thoughts | 0.01 | 0.03 | 0.39 | 0.70 |
| online\_anticipation | 0.00 | 0.03 | -0.12 | 0.91 |
| life\_no\_internet | 0.02 | 0.03 | 0.70 | 0.49 |
| act\_annoyed | -0.01 | 0.03 | -0.46 | 0.64 |
| late\_night\_logins | -0.03 | 0.03 | -0.87 | 0.38 |
| feel\_preoccupied | 0.02 | 0.03 | 0.59 | 0.55 |
| online\_glued | -0.06 | 0.03 | -2.13 | 0.03 |
| time\_cutdown | -0.06 | 0.03 | -2.12 | 0.03 |
| hide\_online | -0.02 | 0.03 | -0.72 | 0.47 |
| more\_online\_time | -0.03 | 0.03 | -0.85 | 0.40 |
| feel\_depressed | -0.04 | 0.05 | -0.73 | 0.46 |
| Gender | 0.20 | 0.13 | 1.54 | 0.12 |
| Age\_grp | 0.06 | 0.07 | 0.91 | 0.36 |
| Level\_study | 0.17 | 0.30 | 0.56 | 0.58 |
| Discipline | 0.11 | 0.14 | 0.82 | 0.41 |
| feel\_depressed:Gender | -0.04 | 0.05 | -0.85 | 0.40 |
| feel\_depressed:Age\_grp | 0.03 | 0.03 | 1.30 | 0.19 |
| feel\_depressed:Level\_study | -0.20 | 0.14 | -1.41 | 0.16 |
| feel\_depressed:Discipline | -0.06 | 0.05 | -1.15 | 0.25 |

knitr::kable(  
 summary(M\_5)$coefficients,   
 digits = 2  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 0.28 | 0.06 | 4.94 | 0.00 |
| SQR\_Total | 0.00 | 0.00 | -0.70 | 0.49 |

knitr::kable(  
 summary(M\_8)$coefficients,   
 digits = 3  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 0.439 | 0.062 | 7.087 | 0 |
| SQR\_Total | 0.014 | 0.004 | 3.523 | 0 |

knitr::kable(  
 summary(M\_9)$coefficients,   
 digits = 3  
)

|  | Estimate | Std. Error | t value | Pr(>|t|) |
| --- | --- | --- | --- | --- |
| (Intercept) | 0.731 | 0.122 | 6.013 | 0 |
| SQR\_Total | 0.029 | 0.008 | 3.741 | 0 |

# Anova table

knitr::kable(  
 A\_3a,  
 digits = 2  
)

|  | Sum Sq | Df | F value | Pr(>F) |
| --- | --- | --- | --- | --- |
| iun | 119.19 | 1 | 140.83 | 0.00 |
| Gender | 5.45 | 1 | 6.45 | 0.01 |
| Age\_grp | 5.88 | 1 | 6.94 | 0.01 |
| Level\_study | 0.36 | 1 | 0.43 | 0.51 |
| Discipline | 0.06 | 1 | 0.08 | 0.78 |
| Residuals | 704.11 | 832 | NA | NA |

# Anova table

knitr::kable(  
 A\_3,  
 digits = 2  
)

|  | Sum Sq | Df | F value | Pr(>F) |
| --- | --- | --- | --- | --- |
| stay\_online | 0.94 | 1 | 1.23 | 0.27 |
| neglect\_chores | 3.52 | 1 | 4.62 | 0.03 |
| excitement | 0.45 | 1 | 0.59 | 0.44 |
| relationships | 0.07 | 1 | 0.09 | 0.76 |
| life\_complaint | 2.02 | 1 | 2.66 | 0.10 |
| school\_work | 7.64 | 1 | 10.03 | 0.00 |
| email\_socialmedia | 6.23 | 1 | 8.18 | 0.00 |
| job\_performance | 6.87 | 1 | 9.02 | 0.00 |
| defensive\_secretive | 0.01 | 1 | 0.01 | 0.91 |
| disturbing\_thoughts | 0.17 | 1 | 0.22 | 0.64 |
| online\_anticipation | 0.02 | 1 | 0.03 | 0.86 |
| life\_no\_internet | 0.41 | 1 | 0.54 | 0.46 |
| act\_annoyed | 0.16 | 1 | 0.21 | 0.65 |
| late\_night\_logins | 0.58 | 1 | 0.77 | 0.38 |
| feel\_preoccupied | 0.16 | 1 | 0.21 | 0.65 |
| online\_glued | 3.55 | 1 | 4.66 | 0.03 |
| time\_cutdown | 3.40 | 1 | 4.47 | 0.03 |
| hide\_online | 0.53 | 1 | 0.70 | 0.40 |
| more\_online\_time | 0.48 | 1 | 0.64 | 0.43 |
| feel\_depressed | 1.81 | 1 | 2.38 | 0.12 |
| Gender | 1.53 | 1 | 2.00 | 0.16 |
| Age\_grp | 7.36 | 1 | 9.66 | 0.00 |
| Level\_study | 0.85 | 1 | 1.11 | 0.29 |
| Discipline | 0.02 | 1 | 0.03 | 0.87 |
| Residuals | 487.71 | 640 | NA | NA |

knitr::kable(  
 A\_4a,  
 digits = 2  
)

|  | Sum Sq | Df | F value | Pr(>F) |
| --- | --- | --- | --- | --- |
| iun | 119.19 | 1 | 140.36 | 0.00 |
| Gender | 5.50 | 1 | 6.47 | 0.01 |
| Age\_grp | 5.80 | 1 | 6.83 | 0.01 |
| Level\_study | 0.38 | 1 | 0.45 | 0.50 |
| Discipline | 0.07 | 1 | 0.09 | 0.77 |
| iun:Gender | 0.32 | 1 | 0.38 | 0.54 |
| iun:Age\_grp | 0.13 | 1 | 0.15 | 0.70 |
| iun:Level\_study | 0.48 | 1 | 0.57 | 0.45 |
| iun:Discipline | 0.41 | 1 | 0.49 | 0.49 |
| Residuals | 703.07 | 828 | NA | NA |

knitr::kable(  
 A\_4,  
 digits = 2  
)

|  | Sum Sq | Df | F value | Pr(>F) |
| --- | --- | --- | --- | --- |
| stay\_online | 0.89 | 1 | 1.16 | 0.28 |
| neglect\_chores | 3.13 | 1 | 4.12 | 0.04 |
| excitement | 0.46 | 1 | 0.60 | 0.44 |
| relationships | 0.10 | 1 | 0.13 | 0.72 |
| life\_complaint | 2.36 | 1 | 3.10 | 0.08 |
| school\_work | 7.54 | 1 | 9.90 | 0.00 |
| email\_socialmedia | 5.42 | 1 | 7.11 | 0.01 |
| job\_performance | 7.54 | 1 | 9.90 | 0.00 |
| defensive\_secretive | 0.03 | 1 | 0.04 | 0.85 |
| disturbing\_thoughts | 0.12 | 1 | 0.15 | 0.70 |
| online\_anticipation | 0.01 | 1 | 0.01 | 0.91 |
| life\_no\_internet | 0.37 | 1 | 0.49 | 0.49 |
| act\_annoyed | 0.16 | 1 | 0.21 | 0.64 |
| late\_night\_logins | 0.58 | 1 | 0.76 | 0.38 |
| feel\_preoccupied | 0.27 | 1 | 0.35 | 0.55 |
| online\_glued | 3.45 | 1 | 4.53 | 0.03 |
| time\_cutdown | 3.43 | 1 | 4.51 | 0.03 |
| hide\_online | 0.40 | 1 | 0.52 | 0.47 |
| more\_online\_time | 0.55 | 1 | 0.72 | 0.40 |
| feel\_depressed | 1.81 | 1 | 2.38 | 0.12 |
| Gender | 1.55 | 1 | 2.03 | 0.15 |
| Age\_grp | 7.07 | 1 | 9.28 | 0.00 |
| Level\_study | 0.82 | 1 | 1.08 | 0.30 |
| Discipline | 0.03 | 1 | 0.04 | 0.84 |
| feel\_depressed:Gender | 0.55 | 1 | 0.72 | 0.40 |
| feel\_depressed:Age\_grp | 1.29 | 1 | 1.69 | 0.19 |
| feel\_depressed:Level\_study | 1.51 | 1 | 1.98 | 0.16 |
| feel\_depressed:Discipline | 1.02 | 1 | 1.33 | 0.25 |
| Residuals | 484.48 | 636 | NA | NA |

# Regression coefficients   
  
  
```r  
knitr::kable(  
 M\_3\_coef\_table,  
 digits = 2  
)

| variable | term | estimate | std.error | statistic | df | p.value |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | -0.24 | 0.07 | -3.58 | 829.92 | 0.00 |
| 2 | iun | -0.38 | 0.03 | -11.87 | 829.92 | 0.00 |
| 3 | Gender | 0.18 | 0.07 | 2.54 | 829.92 | 0.01 |
| 4 | Age\_grp | 0.10 | 0.04 | 2.64 | 829.92 | 0.01 |
| 5 | Level\_study | -0.10 | 0.15 | -0.65 | 829.92 | 0.51 |
| 6 | Discipline | 0.02 | 0.08 | 0.27 | 829.92 | 0.78 |

knitr::kable(  
 M\_4\_coef\_table,  
 digits = 2  
)

| variable | term | estimate | std.error | statistic | df | p.value |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | -0.24 | 0.07 | -3.59 | 825.92 | 0.00 |
| 2 | iun | -0.35 | 0.06 | -5.47 | 825.92 | 0.00 |
| 3 | Gender | 0.18 | 0.07 | 2.57 | 825.92 | 0.01 |
| 4 | Age\_grp | 0.10 | 0.04 | 2.62 | 825.92 | 0.01 |
| 5 | Level\_study | -0.14 | 0.16 | -0.85 | 825.92 | 0.40 |
| 6 | Discipline | 0.03 | 0.08 | 0.37 | 825.92 | 0.71 |
| 7 | iun:Gender | -0.04 | 0.07 | -0.61 | 825.92 | 0.54 |
| 8 | iun:Age\_grp | 0.01 | 0.04 | 0.39 | 825.92 | 0.70 |
| 9 | iun:Level\_study | -0.13 | 0.17 | -0.75 | 825.92 | 0.45 |
| 10 | iun:Discipline | -0.05 | 0.08 | -0.70 | 825.92 | 0.49 |

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.