model.R.

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```
library(readxl)
library(tidyverse)
## -- Attaching packages ----- tidyverse 1.3.0 --
## v ggplot2 3.3.2 v purrr 0.3.4
## v tibble 3.0.3 v dplyr 1.0.0
## v ggplot2 3.3.2
## v tidyr 1.1.0 v stringr 1.4.0
## v readr 1.3.1 v forcats 0.5.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(gridExtra)
## Attaching package: 'gridExtra'
## The following object is masked from 'package:dplyr':
##
##
      combine
study1 <- read_excel("Study1 Data Unrounded.xlsx")</pre>
study2 <- read_excel("Study2 Data Unrounded.xlsx")</pre>
## study 1
study1.mod1 <- glm(sent ~ trust, data = study1, family = "binomial")</pre>
summary(study1.mod1)
##
## glm(formula = sent ~ trust, family = "binomial", data = study1)
## Deviance Residuals:
                      Median 3Q
       Min 1Q
                                              Max
## -1.37073 -1.17373 0.06331 1.16488 1.40913
## Coefficients:
```

```
Estimate Std. Error z value Pr(>|z|)
## (Intercept) 0.9882
                      0.3708 2.665 0.00770 **
## trust
             -0.3550
                         0.1306 -2.718 0.00657 **
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 1028.6 on 741 degrees of freedom
## Residual deviance: 1021.1 on 740 degrees of freedom
## AIC: 1025.1
## Number of Fisher Scoring iterations: 4
study1.mod2 <- glm(
 sent ~ trust + zAfro + attract + maturity + zfWHR + glasses + tattoos,
 data = study1, family = "binomial"
summary(study1.mod2)
##
## Call:
## glm(formula = sent ~ trust + zAfro + attract + maturity + zfWHR +
      glasses + tattoos, family = "binomial", data = study1)
##
## Deviance Residuals:
       Min
                1Q
                      Median
                                    3Q
                                            Max
## -1.72997 -1.12114 0.02173
                              1.11971
                                        1.69625
##
## Coefficients:
             Estimate Std. Error z value Pr(>|z|)
## (Intercept) 2.18500 0.81273
                                 2.688 0.00718 **
## trust
            -0.40908
                        0.14727 -2.778 0.00547 **
## zAfro
             -0.23862
                        0.07995 -2.985 0.00284 **
## attract
                        0.14205 -1.145 0.25230
             -0.16261
## maturity -0.13589
                       0.08841 -1.537 0.12431
             ## zfWHR
             0.44806
                        0.21875 2.048 0.04054 *
## glasses
## tattoos
            -0.55039
                        0.55835 -0.986 0.32427
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 1028.63 on 741 degrees of freedom
## Residual deviance: 986.96 on 734 degrees of freedom
## AIC: 1003
## Number of Fisher Scoring iterations: 4
## study 2
study2.mod1 <- glm(sent ~ trust, data = study2, family = "binomial")
summary(study2.mod1)
```

```
##
## Call:
## glm(formula = sent ~ trust, family = "binomial", data = study2)
## Deviance Residuals:
                    Median
##
      Min 1Q
                                 3Q
                                         Max
## -2.2244 -0.8936 -0.6561 0.9816
                                      1.6519
##
## Coefficients:
##
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) 5.9603
                           2.7071 2.202 0.0277 *
                           0.6777 -2.286 0.0223 *
              -1.5489
## trust
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 51.049 on 36 degrees of freedom
## Residual deviance: 44.581 on 35 degrees of freedom
## AIC: 48.581
##
## Number of Fisher Scoring iterations: 4
study2.mod2 <- glm(
 sent ~ trust + zAfro + attract + maturity + glasses + served,
 data = study2, family = "binomial"
summary(study2.mod2)
##
## Call:
## glm(formula = sent ~ trust + zAfro + attract + maturity + glasses +
##
      served, family = "binomial", data = study2)
##
## Deviance Residuals:
      Min
                1Q
                    Median
                                 3Q
                                         Max
## -2.0923 -0.7762 -0.3484 0.8499
                                      1.8058
## Coefficients:
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) 7.48466 4.56650 1.639 0.1012
## trust
             -1.47338
                         0.78307 -1.882 0.0599 .
                         0.41222 -1.246
              -0.51346
## zAfro
                                         0.2129
## attract
              -0.30169
                          0.85817 -0.352 0.7252
## maturity
              0.16135
                          0.53009
                                  0.304
                                          0.7608
                          1.01248
              1.13605
                                  1.122
                                          0.2618
## glasses
## served
              -0.14218
                         0.07765 -1.831
                                          0.0671 .
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 51.049 on 36 degrees of freedom
## Residual deviance: 38.538 on 30 degrees of freedom
```

```
## AIC: 52.538
##
## Number of Fisher Scoring iterations: 4
# table for study 2
coef1 <- rownames_to_column(as.data.frame(summary(study2.mod1)$coefficients), var = "Variable")</pre>
coef2 <- rownames to column(as.data.frame(summary(study2.mod2)$coefficients), var = "Variable")</pre>
names <- data.frame(Variable = c("(Intercept)", "trust", "zAfro", "attract", "maturity", "glasses", "s</pre>
                     Predictor = c("Intercept", "Trustworthiness", "Afrocentricity", "Attractiveness",
table <-
  bind_rows(coef1, coef2) %>%
  mutate(`Odds Ratio` = round(exp(Estimate),2),
         b = round(Estimate,2),
         or.lower = exp(Estimate - 1.96*`Std. Error`),
         or.upper = exp(Estimate + 1.96*`Std. Error`),
         OR 95% CI = paste("[", round(or.lower,2), ", ", round(or.upper,2), "]", sep = ""),
         `Std. Error` = round(`Std. Error`, 2),
         Pr(>|z|) = round(Pr(>|z|), 3)) \%>\%
  left_join(names) %>%
  select(Predictor, b, `Pr(>|z|)`, `Std. Error`, `Odds Ratio`, `OR 95% CI`)
## Joining, by = "Variable"
table
##
               Predictor
                             b Pr(>|z|) Std. Error Odds Ratio
                                                                          OR 95% CI
                                                                   [1.92, 78130.41]
## 1
                                  0.028
                                               2.71
                                                        387.72
               Intercept 5.96
## 2
         Trustworthiness -1.55
                                  0.022
                                               0.68
                                                          0.21
                                                                        [0.06, 0.8]
                                                       1780.52 [0.23, 13728740.19]
## 3
               Intercept 7.48
                                  0.101
                                               4.57
## 4
                                  0.060
                                               0.78
                                                          0.23
                                                                       [0.05, 1.06]
         Trustworthiness -1.47
## 5
          Afrocentricity -0.51
                                  0.213
                                               0.41
                                                          0.60
                                                                       [0.27, 1.34]
                                                          0.74
                                                                       [0.14, 3.98]
## 6
          Attractiveness -0.30
                                  0.725
                                               0.86
## 7
         Facial maturity 0.16
                                  0.761
                                               0.53
                                                          1.18
                                                                       [0.42, 3.32]
## 8 Presence of glasses 1.14
                                  0.262
                                               1.01
                                                          3.11
                                                                      [0.43, 22.66]
                                                                       [0.75, 1.01]
             Time served -0.14
                                  0.067
                                               0.08
                                                          0.87
rownames <- rep("", nrow(table))</pre>
rownames[table$Predictor == "Intercept"] <- c("Model 1", "Model 2")</pre>
table OR 95% CI [table Predictor == "Intercept"] <- NA
png("table2.png", height = 250, width = 500)
grid.table(table, rows = rownames)
dev.off()
## pdf
##
```