

# Final prediction model

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20 May, 2022

Table 3.2 - Final model used to predict motivation rating

```
## Loading required package: Matrix
##
## Call:
## lm(formula = rating ~ age + household_income + household_size +
##     extraversion + openness_to_experiences + ttm_pa + exercise_identity +
##     exercise_se + sitting_weekend + godin_activity + c1 + c2 +
##     c3, data = mot_ratings)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -4.1366 -1.2280  0.2267  1.1873  4.2668
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.13887   0.39643   0.350  0.72623
## age            -0.64921   0.27886  -2.328  0.02022 *
## household_income  0.76815   0.36463   2.107  0.03554 *
## household_size   0.60581   0.32879   1.843  0.06586 .
## extraversion    -0.73115   0.32571  -2.245  0.02513 *
## openness_to_experiences -0.78798   0.30565  -2.578  0.01016 *
## ttm_pa          -0.53480   0.26768  -1.998  0.04616 *
## exercise_identity -0.44290   0.39280  -1.128  0.25994
## exercise_se     -0.82005   0.30114  -2.723  0.00664 **
## sitting_weekend  0.56707   0.36612   1.549  0.12191
## godin_activity  -0.88615   0.17603  -5.034 6.26e-07 ***
## c1              0.12762   0.05243   2.434  0.01519 *
## c2             -0.01020   0.05123  -0.199  0.84228
## c3              0.40091   0.05901   6.794 2.51e-11 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.704 on 634 degrees of freedom
## Multiple R-squared:  0.225, Adjusted R-squared:  0.2091
## F-statistic: 14.16 on 13 and 634 DF, p-value: < 2.2e-16
```