Analysis2

Setup

Enviroment Setup

```
odf <- read.csv('./cleandata.csv')
library('caret')
```

```
## Loading required package: lattice
```

```
## Loading required package: ggplot2
```

```
#setwd('~/Desktop/andlab/code')
```

Function Define

```r
process <- function(df, reg, upr, plot=FALSE){

  newdf <- data.frame('y' = df$aggressive_sumscore)
  newdf$fitted <- reg$fitted.values

  newdf$class <- ifelse(newdf$y <= (-2.020650971), 'L', ifelse(newdf$y>(upr),'M','H
'))
  #change == -2.020650971 to change <= -2.020650971 to solve prediction for 0 is 0
  newdf$pred_class <-ifelse(newdf$fitted <= (-2.020650971), 'L', ifelse(newdf$fitted>
(upr),'M','H'))

  print(mean(newdf$pred_class == newdf$class))
  #cm <- confusionMatrix(factor(newdf$pred_class, levels = 0:2), factor(newdf$class,
levels = 0:2) )
  cm <- confusionMatrix(table(newdf$class,newdf$pred_class))
  if(plot)
  {
    par(mfrow = c(2, 2))
    plot(reg)
  }
  return(cm=cm)
}

process_2_level <- function(df, reg, plot=FALSE){

  newdf <- data.frame('y' = df$aggressive_sumscore)
  newdf$fitted <- reg$fitted.values

  newdf$class <- ifelse(newdf$y <= (-2.020650971), 'L', 'H')
  #change == -2.020650971 to change <= -2.020650971 to solve prediction for 0 is 0
  newdf$pred_class <-ifelse(newdf$fitted <= (-2.020650971), 'L', 'H')

  print(mean(newdf$pred_class == newdf$class))
  #cm <- confusionMatrix(factor(newdf$pred_class, levels = 0:2), factor(newdf$class,
levels = 0:2) )
  cm <- confusionMatrix(table(newdf$class,newdf$pred_class))
  if(plot)
  {
    par(mfrow = c(2, 2))
    plot(reg)
  }
  return(cm=cm)
}
```

Analysis W/ Selected Data, Selected Attributes

```
df <- read.csv('cleandata.csv')
odf<- df[(df$aggressive_sumscore  <= (-2.020650971)) | (df$aggressive_sumscore  >=
(0.2168869)), ]
odf$y <- ifelse(odf$aggressive_sumscore <= (-2.020650971), 0, 1)
df <- subset(odf, select=-c(X, prosocial_child, prosocial_parent, interview_date, int
erview_age, subjectkey, asr_scr_perstr_t, asr_scr_somaticpr_t, asr_scr_inattention_t,
 crpbi_bothcare, kbi_p_c_best_friend, kbi_p_c_reg_friend_group, macv_p_ss_fs, macv_p_
ss_fo, macv_p_ss_isr,macv_p_ss_fr, macv_p_ss_r, demo_prnt_age_v2, demo_prnt_marital_v
2, demo_comb_income_v2, demo_yrs_1, demo_yrs_2, parent_rules_q1, parent_rules_q4, par
ent_rules_q7, su_risk_p_1, su_risk_p_2_3, su_risk_p_4_5, aggressive_sumscore))
```

###Logistic Regression Model Selection

```
glm.fit <- glm(y ~ ., data = df, family = binomial)
```

Result

```
summary(glm.fit)
```

```
##
## Call:
## glm(formula = y ~ ., family = binomial, data = df)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -3.1966  -0.6086  -0.3139   0.5083   2.9611
##
## Coefficients:
##                        Estimate Std. Error z value Pr(>|z|)
## (Intercept)          -5.9587229  1.1936479  -4.992 5.97e-07 ***
## asr_scr_anxdep_t     -0.0407288  0.0168701  -2.414 0.015767 *
## asr_scr_withdrawn_t   0.0018197  0.0131885   0.138 0.890262
## asr_scr_somatic_t     0.0240988  0.0098926   2.436 0.014849 *
## asr_scr_thought_t     0.0238496  0.0104061   2.292 0.021912 *
## asr_scr_attention_t   0.0275056  0.0177651   1.548 0.121552
## asr_scr_aggressive_t -0.0521093  0.0161695  -3.223 0.001270 **
## asr_scr_rulebreak_t  -0.0473661  0.0133176  -3.557 0.000376 ***
## asr_scr_intrusive_t  -0.0151079  0.0127264  -1.187 0.235178
## asr_scr_internal_t   -0.0009307  0.0160581  -0.058 0.953783
## asr_scr_external_t    0.0658163  0.0131035   5.023 5.09e-07 ***
## asr_scr_totprob_t     0.0510726  0.0214937   2.376 0.017494 *
## asr_scr_depress_t    -0.0072961  0.0126711  -0.576 0.564742
## asr_scr_anxdisord_t   0.0149776  0.0110773   1.352 0.176343
## asr_scr_avoidant_t    0.0126432  0.0116545   1.085 0.277992
## asr_scr_adhd_t       -0.0300952  0.0211681  -1.422 0.155106
## asr_scr_antisocial_t  0.0180752  0.0155093   1.165 0.243842
## asr_scr_hyperactive_t 0.0292459  0.0179027   1.634 0.102342
## parent_monitor_y     -0.1126459  0.0732938  -1.537 0.124315
## kbi_p_conflict        2.1504558  0.0919169  23.396  < 2e-16 ***
## kbi_p_c_bully         0.9643048  0.0978819   9.852  < 2e-16 ***
## kbi_p_c_mh_sa         1.2268158  0.0891601  13.760  < 2e-16 ***
## fes_youth             0.1243766  0.0186389   6.673 2.51e-11 ***
## fes_p_ss_fc_pr        0.1348764  0.0197207   6.839 7.96e-12 ***
## demo_fam_exp          0.5550889  0.0903378   6.145 8.02e-10 ***
## neighborhood1_2_3_p  -0.1332947  0.0388957  -3.427 0.000610 ***
## neighborhood_crime_y -0.1328286  0.0341945  -3.885 0.000103 ***
## sexM                  0.4389579  0.0706803   6.210 5.28e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8804.4  on 6593  degrees of freedom
## Residual deviance: 5294.4  on 6566  degrees of freedom
## AIC: 5350.4
##
## Number of Fisher Scoring iterations: 5
```

```
cm <- confusionMatrix(table(as.numeric(glm.fit$fitted.values>0.5), df$y))
print(cm)
```

```
## Confusion Matrix and Statistics
##
##
##      0    1
##  0 3592  750
##  1  447 1805
##
##               Accuracy : 0.8185
##                 95% CI : (0.809, 0.8277)
##    No Information Rate : 0.6125
##    P-Value [Acc > NIR] : < 2.2e-16
##
##                  Kappa : 0.6091
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
##            Sensitivity : 0.8893
##            Specificity : 0.7065
##         Pos Pred Value : 0.8273
##         Neg Pred Value : 0.8015
##             Prevalence : 0.6125
##         Detection Rate : 0.5447
##   Detection Prevalence : 0.6585
##      Balanced Accuracy : 0.7979
##
##       'Positive' Class : 0
##
```

```
print(cm$byClass)
```

```
##          Sensitivity          Specificity       Pos Pred Value
##            0.8893290            0.7064579            0.8272685
##       Neg Pred Value            Precision               Recall
##            0.8015098            0.8272685            0.8893290
##                   F1           Prevalence       Detection Rate
##            0.8571769            0.6125265            0.5447376
## Detection Prevalence    Balanced Accuracy
##            0.6584774            0.7978935
```

Logistic Regression W/ Interaction Model Selection

```
glm.fit <- glm(y ~ . + .^2, data = df, family = binomial)
```

Result

```
summary(glm.fit)
```

```
##
## Call:
## glm(formula = y ~ . + .^2, family = binomial, data = df)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -3.5657  -0.5566  -0.2816   0.4038   2.9924
##
## Coefficients:
##                                        Estimate Std. Error z value
## (Intercept)                           7.045e+01  3.600e+01    1.957
## asr_scr_anxdep_t                      2.147e-01  7.071e-01    0.304
## asr_scr_withdrawn_t                  -5.302e-01  5.297e-01   -1.001
## asr_scr_somatic_t                    -2.851e-01  4.257e-01   -0.670
## asr_scr_thought_t                    -9.148e-01  4.126e-01   -2.217
## asr_scr_attention_t                  -1.136e+00  6.987e-01   -1.626
## asr_scr_aggressive_t                 -7.002e-01  6.616e-01   -1.058
## asr_scr_rulebreak_t                  -4.376e-01  5.126e-01   -0.854
## asr_scr_intrusive_t                  -1.297e+00  4.778e-01   -2.714
## asr_scr_internal_t                   -2.356e+00  7.543e-01   -3.124
## asr_scr_external_t                   -5.264e-01  6.887e-01   -0.764
## asr_scr_totprob_t                     3.811e+00  9.565e-01    3.984
## asr_scr_depress_t                     2.376e-01  5.519e-01    0.431
## asr_scr_anxdisord_t                   1.073e-01  5.130e-01    0.209
## asr_scr_avoidant_t                   -6.132e-02  4.939e-01   -0.124
## asr_scr_adhd_t                        5.089e-01  8.687e-01    0.586
## asr_scr_antisocial_t                  4.351e-01  6.421e-01    0.678
## asr_scr_hyperactive_t                 9.472e-01  7.408e-01    1.279
## parent_monitor_y                     -1.372e+00  2.956e+00   -0.464
## kbi_p_conflict                       -1.181e+00  4.046e+00   -0.292
## kbi_p_c_bully                        -2.984e-01  3.869e+00   -0.077
## kbi_p_c_mh_sa                        -7.821e-01  4.054e+00   -0.193
## fes_youth                             6.340e-01  7.724e-01    0.821
## fes_p_ss_fc_pr                       -2.398e+00  7.840e-01   -3.059
## demo_fam_exp                          2.279e-01  3.524e+00    0.065
## neighborhood1_2_3_p                  -3.735e+00  1.578e+00   -2.367
## neighborhood_crime_y                  1.388e+00  1.374e+00    1.010
## sexM                                 -2.615e+00  2.945e+00   -0.888
## asr_scr_anxdep_t:asr_scr_withdrawn_t -6.395e-03  6.420e-03   -0.996
## asr_scr_anxdep_t:asr_scr_somatic_t   -7.025e-03  3.929e-03   -1.788
## asr_scr_anxdep_t:asr_scr_thought_t   -2.465e-03  5.282e-03   -0.467
## asr_scr_anxdep_t:asr_scr_attention_t -1.825e-03  9.476e-03   -0.193
## asr_scr_anxdep_t:asr_scr_aggressive_t 2.610e-03  9.424e-03    0.277
## asr_scr_anxdep_t:asr_scr_rulebreak_t -2.528e-03  6.918e-03   -0.365
## asr_scr_anxdep_t:asr_scr_intrusive_t  4.917e-03  7.304e-03    0.673
## asr_scr_anxdep_t:asr_scr_internal_t   5.245e-03  1.018e-02    0.515
## asr_scr_anxdep_t:asr_scr_external_t  -1.268e-02  8.569e-03   -1.480
## asr_scr_anxdep_t:asr_scr_totprob_t    1.170e-02  1.673e-02    0.699
## asr_scr_anxdep_t:asr_scr_depress_t    1.369e-02  5.585e-03    2.451
## asr_scr_anxdep_t:asr_scr_anxdisord_t -4.223e-03  5.454e-03   -0.774
## asr_scr_anxdep_t:asr_scr_avoidant_t  -5.320e-03  6.690e-03   -0.795
```

```
## asr_scr_anxdep_t:asr_scr_adhd_t            -3.882e-03  1.138e-02  -0.341
## asr_scr_anxdep_t:asr_scr_antisocial_t       8.646e-03  7.678e-03   1.126
## asr_scr_anxdep_t:asr_scr_hyperactive_t     -7.156e-03  9.516e-03  -0.752
## asr_scr_anxdep_t:parent_monitor_y          -3.850e-02  4.244e-02  -0.907
## asr_scr_anxdep_t:kbi_p_conflict             1.292e-01  5.693e-02   2.268
## asr_scr_anxdep_t:kbi_p_c_bully              1.154e-01  5.592e-02   2.064
## asr_scr_anxdep_t:kbi_p_c_mh_sa              3.251e-02  5.499e-02   0.591
## asr_scr_anxdep_t:fes_youth                  7.529e-03  1.078e-02   0.699
## asr_scr_anxdep_t:fes_p_ss_fc_pr             1.783e-03  1.029e-02   0.173
## asr_scr_anxdep_t:demo_fam_exp              -4.758e-02  4.922e-02  -0.967
## asr_scr_anxdep_t:neighborhood1_2_3_p        1.947e-03  2.250e-02   0.087
## asr_scr_anxdep_t:neighborhood_crime_y       1.971e-02  2.042e-02   0.965
## asr_scr_anxdep_t:sexM                      -2.753e-02  4.023e-02  -0.684
## asr_scr_withdrawn_t:asr_scr_somatic_t      -1.982e-03  4.168e-03  -0.476
## asr_scr_withdrawn_t:asr_scr_thought_t       6.382e-03  3.573e-03   1.786
## asr_scr_withdrawn_t:asr_scr_attention_t     2.086e-02  7.655e-03   2.725
## asr_scr_withdrawn_t:asr_scr_aggressive_t   -7.623e-03  6.541e-03  -1.165
## asr_scr_withdrawn_t:asr_scr_rulebreak_t    -2.752e-03  5.366e-03  -0.513
## asr_scr_withdrawn_t:asr_scr_intrusive_t     1.454e-02  6.358e-03   2.287
## asr_scr_withdrawn_t:asr_scr_internal_t      1.279e-02  9.303e-03   1.375
## asr_scr_withdrawn_t:asr_scr_external_t      5.008e-03  6.244e-03   0.802
## asr_scr_withdrawn_t:asr_scr_totprob_t      -2.345e-02  1.296e-02  -1.809
## asr_scr_withdrawn_t:asr_scr_depress_t       2.210e-03  4.984e-03   0.443
## asr_scr_withdrawn_t:asr_scr_anxdisord_t    -2.589e-03  4.316e-03  -0.600
## asr_scr_withdrawn_t:asr_scr_avoidant_t      1.045e-03  3.282e-03   0.318
## asr_scr_withdrawn_t:asr_scr_adhd_t         -1.364e-02  8.556e-03  -1.594
## asr_scr_withdrawn_t:asr_scr_antisocial_t   -8.556e-05  6.173e-03  -0.014
## asr_scr_withdrawn_t:asr_scr_hyperactive_t   1.479e-04  7.535e-03   0.020
## asr_scr_withdrawn_t:parent_monitor_y        3.705e-02  3.095e-02   1.197
## asr_scr_withdrawn_t:kbi_p_conflict          2.410e-02  4.349e-02   0.554
## asr_scr_withdrawn_t:kbi_p_c_bully           1.243e-02  3.968e-02   0.313
## asr_scr_withdrawn_t:kbi_p_c_mh_sa           3.586e-02  4.247e-02   0.844
## asr_scr_withdrawn_t:fes_youth               1.835e-03  8.580e-03   0.214
## asr_scr_withdrawn_t:fes_p_ss_fc_pr         -6.221e-04  8.176e-03  -0.076
## asr_scr_withdrawn_t:demo_fam_exp            6.489e-02  3.738e-02   1.736
## asr_scr_withdrawn_t:neighborhood1_2_3_p    -2.553e-02  1.654e-02  -1.544
## asr_scr_withdrawn_t:neighborhood_crime_y    1.882e-02  1.453e-02   1.296
## asr_scr_withdrawn_t:sexM                    7.072e-02  3.238e-02   2.184
## asr_scr_somatic_t:asr_scr_thought_t         1.071e-03  3.280e-03   0.327
## asr_scr_somatic_t:asr_scr_attention_t       5.321e-03  5.855e-03   0.909
## asr_scr_somatic_t:asr_scr_aggressive_t      4.909e-03  5.438e-03   0.903
## asr_scr_somatic_t:asr_scr_rulebreak_t      -3.584e-04  4.230e-03  -0.085
## asr_scr_somatic_t:asr_scr_intrusive_t       6.251e-03  4.461e-03   1.402
## asr_scr_somatic_t:asr_scr_internal_t        2.129e-03  4.706e-03   0.452
## asr_scr_somatic_t:asr_scr_external_t       -3.656e-03  4.423e-03  -0.826
## asr_scr_somatic_t:asr_scr_totprob_t        -5.912e-03  8.047e-03  -0.735
## asr_scr_somatic_t:asr_scr_depress_t         7.742e-03  4.001e-03   1.935
## asr_scr_somatic_t:asr_scr_anxdisord_t       4.464e-03  4.033e-03   1.107
## asr_scr_somatic_t:asr_scr_avoidant_t        2.231e-03  4.471e-03   0.499
## asr_scr_somatic_t:asr_scr_adhd_t           -3.214e-03  6.820e-03  -0.471
## asr_scr_somatic_t:asr_scr_antisocial_t     -4.652e-03  4.845e-03  -0.960
```

```
## asr_scr_somatic_t:asr_scr_hyperactive_t      -3.114e-03  6.052e-03  -0.515
## asr_scr_somatic_t:parent_monitor_y           -2.717e-02  2.358e-02  -1.152
## asr_scr_somatic_t:kbi_p_conflict             -1.517e-03  3.274e-02  -0.046
## asr_scr_somatic_t:kbi_p_c_bully               5.386e-02  3.158e-02   1.706
## asr_scr_somatic_t:kbi_p_c_mh_sa              -1.947e-02  3.011e-02  -0.647
## asr_scr_somatic_t:fes_youth                  -8.329e-03  6.001e-03  -1.388
## asr_scr_somatic_t:fes_p_ss_fc_pr              1.226e-02  6.278e-03   1.954
## asr_scr_somatic_t:demo_fam_exp                3.630e-02  2.915e-02   1.245
## asr_scr_somatic_t:neighborhood1_2_3_p         2.862e-02  1.291e-02   2.218
## asr_scr_somatic_t:neighborhood_crime_y        4.736e-03  1.125e-02   0.421
## asr_scr_somatic_t:sexM                       -4.163e-02  2.334e-02  -1.783
## asr_scr_thought_t:asr_scr_attention_t        -4.175e-03  5.357e-03  -0.779
## asr_scr_thought_t:asr_scr_aggressive_t        7.590e-03  5.555e-03   1.366
## asr_scr_thought_t:asr_scr_rulebreak_t         3.056e-03  4.255e-03   0.718
## asr_scr_thought_t:asr_scr_intrusive_t         1.520e-03  4.289e-03   0.354
## asr_scr_thought_t:asr_scr_internal_t          3.382e-03  6.269e-03   0.539
## asr_scr_thought_t:asr_scr_external_t         -5.343e-03  5.250e-03  -1.018
## asr_scr_thought_t:asr_scr_totprob_t          -4.882e-03  8.970e-03  -0.544
## asr_scr_thought_t:asr_scr_depress_t           1.199e-03  3.728e-03   0.322
## asr_scr_thought_t:asr_scr_anxdisord_t         2.811e-03  3.241e-03   0.868
## asr_scr_thought_t:asr_scr_avoidant_t         -3.669e-03  3.435e-03  -1.068
## asr_scr_thought_t:asr_scr_adhd_t              1.169e-03  6.440e-03   0.181
## asr_scr_thought_t:asr_scr_antisocial_t        2.520e-03  5.033e-03   0.501
## asr_scr_thought_t:asr_scr_hyperactive_t       4.223e-03  5.470e-03   0.772
## asr_scr_thought_t:parent_monitor_y            8.612e-03  2.536e-02   0.340
## asr_scr_thought_t:kbi_p_conflict              6.902e-02  3.839e-02   1.798
## asr_scr_thought_t:kbi_p_c_bully              -1.165e-02  3.294e-02  -0.354
## asr_scr_thought_t:kbi_p_c_mh_sa               3.220e-02  3.458e-02   0.931
## asr_scr_thought_t:fes_youth                  -2.539e-03  6.631e-03  -0.383
## asr_scr_thought_t:fes_p_ss_fc_pr              2.146e-03  6.585e-03   0.326
## asr_scr_thought_t:demo_fam_exp               -1.890e-02  2.921e-02  -0.647
## asr_scr_thought_t:neighborhood1_2_3_p         1.285e-02  1.374e-02   0.935
## asr_scr_thought_t:neighborhood_crime_y       -3.491e-03  1.115e-02  -0.313
## asr_scr_thought_t:sexM                       -2.033e-02  2.561e-02  -0.794
## asr_scr_attention_t:asr_scr_aggressive_t     -1.669e-03  9.406e-03  -0.177
## asr_scr_attention_t:asr_scr_rulebreak_t       1.378e-02  7.487e-03   1.841
## asr_scr_attention_t:asr_scr_intrusive_t       1.478e-02  7.221e-03   2.046
## asr_scr_attention_t:asr_scr_internal_t        7.774e-03  8.694e-03   0.894
## asr_scr_attention_t:asr_scr_external_t        2.003e-03  7.169e-03   0.279
## asr_scr_attention_t:asr_scr_totprob_t        -1.228e-02  1.138e-02  -1.079
## asr_scr_attention_t:asr_scr_depress_t         5.859e-03  6.883e-03   0.851
## asr_scr_attention_t:asr_scr_anxdisord_t      -3.909e-03  5.808e-03  -0.673
## asr_scr_attention_t:asr_scr_avoidant_t       -1.264e-02  6.589e-03  -1.918
## asr_scr_attention_t:asr_scr_adhd_t           -4.756e-03  4.532e-03  -1.049
## asr_scr_attention_t:asr_scr_antisocial_t     -1.110e-02  8.412e-03  -1.319
## asr_scr_attention_t:asr_scr_hyperactive_t     2.544e-03  6.837e-03   0.372
## asr_scr_attention_t:parent_monitor_y         -9.746e-03  4.493e-02  -0.217
## asr_scr_attention_t:kbi_p_conflict            1.749e-02  5.657e-02   0.309
## asr_scr_attention_t:kbi_p_c_bully            -5.148e-02  5.991e-02  -0.859
## asr_scr_attention_t:kbi_p_c_mh_sa             1.197e-01  5.640e-02   2.123
## asr_scr_attention_t:fes_youth                 1.500e-02  1.154e-02   1.300
```

```
## asr_scr_attention_t:fes_p_ss_fc_pr              1.964e-02  1.150e-02   1.708
## asr_scr_attention_t:demo_fam_exp              -8.025e-02  5.372e-02  -1.494
## asr_scr_attention_t:neighborhood1_2_3_p        6.658e-03  2.346e-02   0.284
## asr_scr_attention_t:neighborhood_crime_y      -6.129e-03  2.056e-02  -0.298
## asr_scr_attention_t:sexM                        8.209e-03  4.148e-02   0.198
## asr_scr_aggressive_t:asr_scr_rulebreak_t        1.544e-03  4.685e-03   0.330
## asr_scr_aggressive_t:asr_scr_intrusive_t        4.901e-03  5.330e-03   0.920
## asr_scr_aggressive_t:asr_scr_internal_t         1.634e-02  9.642e-03   1.695
## asr_scr_aggressive_t:asr_scr_external_t         6.144e-03  6.262e-03   0.981
## asr_scr_aggressive_t:asr_scr_totprob_t        -2.225e-02  1.478e-02  -1.506
## asr_scr_aggressive_t:asr_scr_depress_t          2.787e-03  6.515e-03   0.428
## asr_scr_aggressive_t:asr_scr_anxdisord_t      -9.985e-03  6.127e-03  -1.630
## asr_scr_aggressive_t:asr_scr_avoidant_t         8.755e-03  6.002e-03   1.459
## asr_scr_aggressive_t:asr_scr_adhd_t             2.169e-03  1.111e-02   0.195
## asr_scr_aggressive_t:asr_scr_antisocial_t     -1.865e-03  7.244e-03  -0.257
## asr_scr_aggressive_t:asr_scr_hyperactive_t    -3.587e-03  9.994e-03  -0.359
## asr_scr_aggressive_t:parent_monitor_y         -9.442e-03  4.077e-02  -0.232
## asr_scr_aggressive_t:kbi_p_conflict           -2.683e-02  4.824e-02  -0.556
## asr_scr_aggressive_t:kbi_p_c_bully            -1.322e-01  5.114e-02  -2.585
## asr_scr_aggressive_t:kbi_p_c_mh_sa            -1.399e-01  4.566e-02  -3.064
## asr_scr_aggressive_t:fes_youth                -6.089e-03  9.843e-03  -0.619
## asr_scr_aggressive_t:fes_p_ss_fc_pr             1.955e-02  1.014e-02   1.927
## asr_scr_aggressive_t:demo_fam_exp             -3.900e-02  4.814e-02  -0.810
## asr_scr_aggressive_t:neighborhood1_2_3_p        1.413e-02  2.073e-02   0.682
## asr_scr_aggressive_t:neighborhood_crime_y     -8.039e-03  1.785e-02  -0.450
## asr_scr_aggressive_t:sexM                     -3.481e-02  3.798e-02  -0.916
## asr_scr_rulebreak_t:asr_scr_intrusive_t       -7.285e-03  4.648e-03  -1.567
## asr_scr_rulebreak_t:asr_scr_internal_t          1.725e-02  8.570e-03   2.013
## asr_scr_rulebreak_t:asr_scr_external_t          5.483e-03  6.767e-03   0.810
## asr_scr_rulebreak_t:asr_scr_totprob_t         -2.590e-02  1.372e-02  -1.888
## asr_scr_rulebreak_t:asr_scr_depress_t         -1.620e-03  5.118e-03  -0.317
## asr_scr_rulebreak_t:asr_scr_anxdisord_t         1.066e-03  4.483e-03   0.238
## asr_scr_rulebreak_t:asr_scr_avoidant_t          2.646e-03  5.028e-03   0.526
## asr_scr_rulebreak_t:asr_scr_adhd_t            -9.743e-03  8.237e-03  -1.183
## asr_scr_rulebreak_t:asr_scr_antisocial_t        1.386e-03  4.204e-03   0.330
## asr_scr_rulebreak_t:asr_scr_hyperactive_t       8.518e-03  7.213e-03   1.181
## asr_scr_rulebreak_t:parent_monitor_y          -1.686e-02  3.275e-02  -0.515
## asr_scr_rulebreak_t:kbi_p_conflict            -6.813e-02  4.030e-02  -1.691
## asr_scr_rulebreak_t:kbi_p_c_bully             -1.970e-02  4.269e-02  -0.462
## asr_scr_rulebreak_t:kbi_p_c_mh_sa             -3.290e-02  4.328e-02  -0.760
## asr_scr_rulebreak_t:fes_youth                 -1.371e-02  8.092e-03  -1.694
## asr_scr_rulebreak_t:fes_p_ss_fc_pr              2.399e-02  8.660e-03   2.770
## asr_scr_rulebreak_t:demo_fam_exp              -4.717e-02  3.734e-02  -1.263
## asr_scr_rulebreak_t:neighborhood1_2_3_p         1.553e-02  1.645e-02   0.944
## asr_scr_rulebreak_t:neighborhood_crime_y        2.241e-02  1.516e-02   1.479
## asr_scr_rulebreak_t:sexM                      -2.593e-02  3.074e-02  -0.843
## asr_scr_intrusive_t:asr_scr_internal_t        -5.808e-04  7.464e-03  -0.078
## asr_scr_intrusive_t:asr_scr_external_t          1.634e-03  7.136e-03   0.229
## asr_scr_intrusive_t:asr_scr_totprob_t         -6.366e-03  1.303e-02  -0.489
## asr_scr_intrusive_t:asr_scr_depress_t         -6.774e-03  5.483e-03  -1.235
## asr_scr_intrusive_t:asr_scr_anxdisord_t       -4.948e-03  4.840e-03  -1.022
```

```
## asr_scr_intrusive_t:asr_scr_avoidant_t        -3.374e-03   5.907e-03   -0.571
## asr_scr_intrusive_t:asr_scr_adhd_t            -1.389e-02   8.627e-03   -1.610
## asr_scr_intrusive_t:asr_scr_antisocial_t       4.751e-03   6.278e-03    0.757
## asr_scr_intrusive_t:asr_scr_hyperactive_t      7.304e-03   7.364e-03    0.992
## asr_scr_intrusive_t:parent_monitor_y           6.032e-02   3.275e-02    1.842
## asr_scr_intrusive_t:kbi_p_conflict            -2.172e-02   4.309e-02   -0.504
## asr_scr_intrusive_t:kbi_p_c_bully              3.321e-02   4.263e-02    0.779
## asr_scr_intrusive_t:kbi_p_c_mh_sa              2.102e-02   4.479e-02    0.469
## asr_scr_intrusive_t:fes_youth                 -1.899e-03   8.770e-03   -0.216
## asr_scr_intrusive_t:fes_p_ss_fc_pr             4.633e-03   8.685e-03    0.533
## asr_scr_intrusive_t:demo_fam_exp              -3.077e-02   4.141e-02   -0.743
## asr_scr_intrusive_t:neighborhood1_2_3_p        3.706e-02   1.756e-02    2.111
## asr_scr_intrusive_t:neighborhood_crime_y      -3.101e-02   1.583e-02   -1.959
## asr_scr_intrusive_t:sexM                       1.414e-03   3.142e-02    0.045
## asr_scr_internal_t:asr_scr_external_t         -6.119e-03   4.568e-03   -1.340
## asr_scr_internal_t:asr_scr_totprob_t           8.169e-04   3.337e-03    0.245
## asr_scr_internal_t:asr_scr_depress_t          -1.801e-02   9.675e-03   -1.861
## asr_scr_internal_t:asr_scr_anxdisord_t         4.475e-03   9.499e-03    0.471
## asr_scr_internal_t:asr_scr_avoidant_t         -9.940e-03   1.093e-02   -0.910
## asr_scr_internal_t:asr_scr_adhd_t             -5.242e-03   1.247e-02   -0.420
## asr_scr_internal_t:asr_scr_antisocial_t       -2.901e-03   9.467e-03   -0.306
## asr_scr_internal_t:asr_scr_hyperactive_t       1.305e-02   1.304e-02    1.001
## asr_scr_internal_t:parent_monitor_y            4.872e-02   3.882e-02    1.255
## asr_scr_internal_t:kbi_p_conflict              3.085e-02   4.656e-02    0.663
## asr_scr_internal_t:kbi_p_c_bully              -7.221e-02   5.289e-02   -1.365
## asr_scr_internal_t:kbi_p_c_mh_sa               5.927e-02   4.393e-02    1.349
## asr_scr_internal_t:fes_youth                   1.814e-02   9.469e-03    1.916
## asr_scr_internal_t:fes_p_ss_fc_pr             -1.461e-02   1.058e-02   -1.381
## asr_scr_internal_t:demo_fam_exp               -6.359e-02   5.109e-02   -1.245
## asr_scr_internal_t:neighborhood1_2_3_p         4.737e-03   2.117e-02    0.224
## asr_scr_internal_t:neighborhood_crime_y       -1.241e-02   1.803e-02   -0.688
## asr_scr_internal_t:sexM                        6.180e-02   3.683e-02    1.678
## asr_scr_external_t:asr_scr_totprob_t           1.189e-02   4.254e-03    2.796
## asr_scr_external_t:asr_scr_depress_t           2.269e-03   6.383e-03    0.355
## asr_scr_external_t:asr_scr_anxdisord_t         1.075e-02   6.112e-03    1.758
## asr_scr_external_t:asr_scr_avoidant_t         -4.965e-03   5.308e-03   -0.935
## asr_scr_external_t:asr_scr_adhd_t             -5.607e-03   9.837e-03   -0.570
## asr_scr_external_t:asr_scr_antisocial_t       -9.083e-04   1.013e-02   -0.090
## asr_scr_external_t:asr_scr_hyperactive_t       4.099e-03   1.035e-02    0.396
## asr_scr_external_t:parent_monitor_y            2.707e-02   3.144e-02    0.861
## asr_scr_external_t:kbi_p_conflict              4.224e-02   3.775e-02    1.119
## asr_scr_external_t:kbi_p_c_bully              -6.145e-03   3.997e-02   -0.154
## asr_scr_external_t:kbi_p_c_mh_sa               1.061e-01   3.415e-02    3.107
## asr_scr_external_t:fes_youth                   7.440e-03   7.993e-03    0.931
## asr_scr_external_t:fes_p_ss_fc_pr             -1.181e-03   8.901e-03   -0.133
## asr_scr_external_t:demo_fam_exp                2.367e-02   3.751e-02    0.631
## asr_scr_external_t:neighborhood1_2_3_p         7.866e-03   1.701e-02    0.462
## asr_scr_external_t:neighborhood_crime_y       -1.063e-02   1.403e-02   -0.758
## asr_scr_external_t:sexM                        3.004e-02   2.928e-02    1.026
## asr_scr_totprob_t:asr_scr_depress_t            2.091e-03   1.363e-02    0.153
## asr_scr_totprob_t:asr_scr_anxdisord_t         -9.249e-03   1.223e-02   -0.757
```

```
## asr_scr_totprob_t:asr_scr_avoidant_t        1.107e-02  1.197e-02   0.925
## asr_scr_totprob_t:asr_scr_adhd_t            1.904e-02  1.842e-02   1.033
## asr_scr_totprob_t:asr_scr_antisocial_t     -8.385e-04  1.584e-02  -0.053
## asr_scr_totprob_t:asr_scr_hyperactive_t    -5.338e-03  1.827e-02  -0.292
## asr_scr_totprob_t:parent_monitor_y         -7.382e-02  5.308e-02  -1.391
## asr_scr_totprob_t:kbi_p_conflict           -7.478e-02  6.435e-02  -1.162
## asr_scr_totprob_t:kbi_p_c_bully             5.081e-02  6.849e-02   0.742
## asr_scr_totprob_t:kbi_p_c_mh_sa            -1.284e-01  6.079e-02  -2.112
## asr_scr_totprob_t:fes_youth                -1.674e-02  1.276e-02  -1.312
## asr_scr_totprob_t:fes_p_ss_fc_pr           -7.292e-03  1.471e-02  -0.496
## asr_scr_totprob_t:demo_fam_exp              3.508e-02  6.704e-02   0.523
## asr_scr_totprob_t:neighborhood1_2_3_p      -4.283e-02  2.891e-02  -1.482
## asr_scr_totprob_t:neighborhood_crime_y      2.550e-02  2.362e-02   1.080
## asr_scr_totprob_t:sexM                      -9.464e-02  4.948e-02  -1.913
## asr_scr_depress_t:asr_scr_anxdisord_t      -1.942e-03  3.588e-03  -0.541
## asr_scr_depress_t:asr_scr_avoidant_t        1.705e-03  4.086e-03   0.417
## asr_scr_depress_t:asr_scr_adhd_t           -8.854e-03  7.305e-03  -1.212
## asr_scr_depress_t:asr_scr_antisocial_t     -1.241e-03  5.572e-03  -0.223
## asr_scr_depress_t:asr_scr_hyperactive_t    -3.450e-03  6.237e-03  -0.553
## asr_scr_depress_t:parent_monitor_y         -1.108e-02  3.063e-02  -0.362
## asr_scr_depress_t:kbi_p_conflict           -1.434e-03  3.914e-02  -0.037
## asr_scr_depress_t:kbi_p_c_bully             4.771e-03  4.195e-02   0.114
## asr_scr_depress_t:kbi_p_c_mh_sa            -3.858e-02  4.034e-02  -0.956
## asr_scr_depress_t:fes_youth                -9.721e-03  7.592e-03  -1.280
## asr_scr_depress_t:fes_p_ss_fc_pr           -3.176e-03  7.740e-03  -0.410
## asr_scr_depress_t:demo_fam_exp              9.045e-03  3.598e-02   0.251
## asr_scr_depress_t:neighborhood1_2_3_p      -6.711e-03  1.644e-02  -0.408
## asr_scr_depress_t:neighborhood_crime_y     -1.745e-02  1.472e-02  -1.186
## asr_scr_depress_t:sexM                      2.658e-02  2.948e-02   0.902
## asr_scr_anxdisord_t:asr_scr_avoidant_t      6.694e-03  3.370e-03   1.986
## asr_scr_anxdisord_t:asr_scr_adhd_t          7.820e-03  6.143e-03   1.273
## asr_scr_anxdisord_t:asr_scr_antisocial_t    3.129e-04  5.067e-03   0.062
## asr_scr_anxdisord_t:asr_scr_hyperactive_t  -7.039e-03  5.348e-03  -1.316
## asr_scr_anxdisord_t:parent_monitor_y        5.694e-02  2.888e-02   1.972
## asr_scr_anxdisord_t:kbi_p_conflict         -9.407e-02  3.601e-02  -2.613
## asr_scr_anxdisord_t:kbi_p_c_bully          -3.370e-02  3.492e-02  -0.965
## asr_scr_anxdisord_t:kbi_p_c_mh_sa           4.681e-03  3.490e-02   0.134
## asr_scr_anxdisord_t:fes_youth              -3.838e-03  7.185e-03  -0.534
## asr_scr_anxdisord_t:fes_p_ss_fc_pr          4.682e-03  6.953e-03   0.673
## asr_scr_anxdisord_t:demo_fam_exp            4.688e-02  3.252e-02   1.442
## asr_scr_anxdisord_t:neighborhood1_2_3_p     2.030e-02  1.483e-02   1.369
## asr_scr_anxdisord_t:neighborhood_crime_y   -1.131e-02  1.343e-02  -0.842
## asr_scr_anxdisord_t:sexM                    1.675e-02  2.643e-02   0.634
## asr_scr_avoidant_t:asr_scr_adhd_t           1.192e-02  7.184e-03   1.659
## asr_scr_avoidant_t:asr_scr_antisocial_t    -2.389e-03  5.668e-03  -0.421
## asr_scr_avoidant_t:asr_scr_hyperactive_t   -7.004e-03  6.493e-03  -1.079
## asr_scr_avoidant_t:parent_monitor_y         3.778e-02  2.958e-02   1.277
## asr_scr_avoidant_t:kbi_p_conflict          -7.601e-03  3.763e-02  -0.202
## asr_scr_avoidant_t:kbi_p_c_bully           -9.395e-03  3.643e-02  -0.258
## asr_scr_avoidant_t:kbi_p_c_mh_sa           -6.037e-02  3.691e-02  -1.635
## asr_scr_avoidant_t:fes_youth               -3.268e-03  7.634e-03  -0.428
```

```
## asr_scr_avoidant_t:fes_p_ss_fc_pr            1.375e-02  7.254e-03   1.895
## asr_scr_avoidant_t:demo_fam_exp             4.321e-02  3.533e-02   1.223
## asr_scr_avoidant_t:neighborhood1_2_3_p      2.896e-02  1.595e-02   1.815
## asr_scr_avoidant_t:neighborhood_crime_y    -4.698e-03  1.376e-02  -0.341
## asr_scr_avoidant_t:sexM                    -1.596e-02  2.768e-02  -0.577
## asr_scr_adhd_t:asr_scr_antisocial_t         1.442e-02  8.952e-03   1.611
## asr_scr_adhd_t:asr_scr_hyperactive_t       -7.623e-04  3.599e-03  -0.212
## asr_scr_adhd_t:parent_monitor_y             4.729e-02  5.502e-02   0.860
## asr_scr_adhd_t:kbi_p_conflict               4.867e-02  6.840e-02   0.711
## asr_scr_adhd_t:kbi_p_c_bully               -6.077e-02  7.101e-02  -0.856
## asr_scr_adhd_t:kbi_p_c_mh_sa               -2.056e-01  6.831e-02  -3.009
## asr_scr_adhd_t:fes_youth                   -1.346e-02  1.376e-02  -0.979
## asr_scr_adhd_t:fes_p_ss_fc_pr              -2.169e-02  1.377e-02  -1.575
## asr_scr_adhd_t:demo_fam_exp                 9.481e-02  6.617e-02   1.433
## asr_scr_adhd_t:neighborhood1_2_3_p         -2.141e-03  2.767e-02  -0.077
## asr_scr_adhd_t:neighborhood_crime_y         1.731e-02  2.555e-02   0.677
## asr_scr_adhd_t:sexM                         7.895e-02  5.111e-02   1.545
## asr_scr_antisocial_t:asr_scr_hyperactive_t -9.018e-03  7.771e-03  -1.160
## asr_scr_antisocial_t:parent_monitor_y      -2.532e-02  3.840e-02  -0.659
## asr_scr_antisocial_t:kbi_p_conflict        -2.351e-02  4.805e-02  -0.489
## asr_scr_antisocial_t:kbi_p_c_bully          6.395e-02  4.829e-02   1.324
## asr_scr_antisocial_t:kbi_p_c_mh_sa          3.658e-02  5.135e-02   0.712
## asr_scr_antisocial_t:fes_youth              9.826e-03  9.457e-03   1.039
## asr_scr_antisocial_t:fes_p_ss_fc_pr        -1.596e-02  9.582e-03  -1.666
## asr_scr_antisocial_t:demo_fam_exp           4.455e-02  4.708e-02   0.946
## asr_scr_antisocial_t:neighborhood1_2_3_p   -1.734e-02  1.981e-02  -0.875
## asr_scr_antisocial_t:neighborhood_crime_y  -1.112e-02  1.737e-02  -0.640
## asr_scr_antisocial_t:sexM                   1.546e-02  3.647e-02   0.424
## asr_scr_hyperactive_t:parent_monitor_y     -9.374e-02  4.791e-02  -1.956
## asr_scr_hyperactive_t:kbi_p_conflict        2.194e-02  5.990e-02   0.366
## asr_scr_hyperactive_t:kbi_p_c_bully         1.060e-01  5.930e-02   1.787
## asr_scr_hyperactive_t:kbi_p_c_mh_sa         2.448e-01  5.962e-02   4.107
## asr_scr_hyperactive_t:fes_youth             1.049e-02  1.145e-02   0.916
## asr_scr_hyperactive_t:fes_p_ss_fc_pr        3.317e-03  1.178e-02   0.282
## asr_scr_hyperactive_t:demo_fam_exp         -9.335e-02  5.536e-02  -1.686
## asr_scr_hyperactive_t:neighborhood1_2_3_p  -2.029e-02  2.368e-02  -0.857
## asr_scr_hyperactive_t:neighborhood_crime_y -3.170e-02  2.324e-02  -1.364
## asr_scr_hyperactive_t:sexM                 -6.197e-03  4.409e-02  -0.141
## parent_monitor_y:kbi_p_conflict            -2.429e-01  2.259e-01  -1.075
## parent_monitor_y:kbi_p_c_bully             -1.051e-01  2.229e-01  -0.471
## parent_monitor_y:kbi_p_c_mh_sa             -4.111e-01  2.107e-01  -1.952
## parent_monitor_y:fes_youth                 -1.865e-03  4.081e-02  -0.046
## parent_monitor_y:fes_p_ss_fc_pr             6.839e-04  4.575e-02   0.015
## parent_monitor_y:demo_fam_exp               5.222e-01  2.033e-01   2.569
## parent_monitor_y:neighborhood1_2_3_p       -3.165e-02  9.013e-02  -0.351
## parent_monitor_y:neighborhood_crime_y       8.368e-02  7.249e-02   1.154
## parent_monitor_y:sexM                       1.099e-01  1.680e-01   0.654
## kbi_p_conflict:kbi_p_c_bully               -4.915e-01  2.954e-01  -1.664
## kbi_p_conflict:kbi_p_c_mh_sa                6.345e-02  2.680e-01   0.237
## kbi_p_conflict:fes_youth                    5.006e-02  5.474e-02   0.914
## kbi_p_conflict:fes_p_ss_fc_pr               7.562e-02  5.834e-02   1.296
```

```
## kbi_p_conflict:demo_fam_exp                       -1.127e-01  2.847e-01  -0.396
## kbi_p_conflict:neighborhood1_2_3_p                 3.396e-02  1.167e-01   0.291
## kbi_p_conflict:neighborhood_crime_y                1.304e-01  9.918e-02   1.314
## kbi_p_conflict:sexM                                1.617e-01  2.024e-01   0.799
## kbi_p_c_bully:kbi_p_c_mh_sa                        -2.972e-01  2.400e-01  -1.238
## kbi_p_c_bully:fes_youth                            4.655e-02  5.637e-02   0.826
## kbi_p_c_bully:fes_p_ss_fc_pr                       -7.886e-03  6.058e-02  -0.130
## kbi_p_c_bully:demo_fam_exp                         -6.210e-01  2.572e-01  -2.414
## kbi_p_c_bully:neighborhood1_2_3_p                  -1.022e-01  1.125e-01  -0.908
## kbi_p_c_bully:neighborhood_crime_y                 2.225e-01  9.753e-02   2.282
## kbi_p_c_bully:sexM                                 9.745e-02  2.147e-01   0.454
## kbi_p_c_mh_sa:fes_youth                            5.198e-02  5.791e-02   0.898
## kbi_p_c_mh_sa:fes_p_ss_fc_pr                       2.070e-02  5.759e-02   0.360
## kbi_p_c_mh_sa:demo_fam_exp                         6.343e-02  2.694e-01   0.235
## kbi_p_c_mh_sa:neighborhood1_2_3_p                  -1.023e-01  1.131e-01  -0.904
## kbi_p_c_mh_sa:neighborhood_crime_y                 1.003e-01  9.775e-02   1.026
## kbi_p_c_mh_sa:sexM                                 6.592e-01  2.058e-01   3.202
## fes_youth:fes_p_ss_fc_pr                           -1.393e-02  1.121e-02  -1.243
## fes_youth:demo_fam_exp                             -2.233e-02  5.255e-02  -0.425
## fes_youth:neighborhood1_2_3_p                      -1.855e-02  2.303e-02  -0.805
## fes_youth:neighborhood_crime_y                     6.420e-03  1.865e-02   0.344
## fes_youth:sexM                                     1.901e-02  4.158e-02   0.457
## fes_p_ss_fc_pr:demo_fam_exp                        -2.403e-02  5.546e-02  -0.433
## fes_p_ss_fc_pr:neighborhood1_2_3_p                 2.101e-02  2.503e-02   0.840
## fes_p_ss_fc_pr:neighborhood_crime_y                1.261e-02  2.083e-02   0.605
## fes_p_ss_fc_pr:sexM                                3.985e-02  4.484e-02   0.889
## demo_fam_exp:neighborhood1_2_3_p                   -5.321e-02  1.038e-01  -0.513
## demo_fam_exp:neighborhood_crime_y                  -2.004e-02  8.888e-02  -0.226
## demo_fam_exp:sexM                                  -1.094e-01  2.029e-01  -0.539
## neighborhood1_2_3_p:neighborhood_crime_y           9.832e-03  3.535e-02   0.278
## neighborhood1_2_3_p:sexM                           -8.454e-02  8.904e-02  -0.949
## neighborhood_crime_y:sexM                          -2.837e-02  7.596e-02  -0.373
##                                                   Pr(>|z|)
## (Intercept)                                        0.05035 .
## asr_scr_anxdep_t                                   0.76141
## asr_scr_withdrawn_t                                0.31685
## asr_scr_somatic_t                                  0.50303
## asr_scr_thought_t                                  0.02661 *
## asr_scr_attention_t                                0.10396
## asr_scr_aggressive_t                               0.28993
## asr_scr_rulebreak_t                                0.39322
## asr_scr_intrusive_t                                0.00665 **
## asr_scr_internal_t                                 0.00178 **
## asr_scr_external_t                                 0.44467
## asr_scr_totprob_t                                  6.77e-05 ***
## asr_scr_depress_t                                  0.66678
## asr_scr_anxdisord_t                                0.83434
## asr_scr_avoidant_t                                 0.90119
## asr_scr_adhd_t                                     0.55804
## asr_scr_antisocial_t                               0.49802
## asr_scr_hyperactive_t                              0.20105
```

```
## parent_monitor_y                           0.64269
## kbi_p_conflict                             0.77045
## kbi_p_c_bully                              0.93852
## kbi_p_c_mh_sa                              0.84701
## fes_youth                                  0.41173
## fes_p_ss_fc_pr                             0.00222 **
## demo_fam_exp                               0.94844
## neighborhood1_2_3_p                        0.01794 *
## neighborhood_crime_y                       0.31241
## sexM                                       0.37463
## asr_scr_anxdep_t:asr_scr_withdrawn_t       0.31925
## asr_scr_anxdep_t:asr_scr_somatic_t         0.07379 .
## asr_scr_anxdep_t:asr_scr_thought_t         0.64080
## asr_scr_anxdep_t:asr_scr_attention_t       0.84724
## asr_scr_anxdep_t:asr_scr_aggressive_t      0.78181
## asr_scr_anxdep_t:asr_scr_rulebreak_t       0.71483
## asr_scr_anxdep_t:asr_scr_intrusive_t       0.50083
## asr_scr_anxdep_t:asr_scr_internal_t        0.60635
## asr_scr_anxdep_t:asr_scr_external_t        0.13881
## asr_scr_anxdep_t:asr_scr_totprob_t         0.48434
## asr_scr_anxdep_t:asr_scr_depress_t         0.01423 *
## asr_scr_anxdep_t:asr_scr_anxdisord_t       0.43879
## asr_scr_anxdep_t:asr_scr_avoidant_t        0.42645
## asr_scr_anxdep_t:asr_scr_adhd_t            0.73293
## asr_scr_anxdep_t:asr_scr_antisocial_t      0.26016
## asr_scr_anxdep_t:asr_scr_hyperactive_t     0.45203
## asr_scr_anxdep_t:parent_monitor_y          0.36434
## asr_scr_anxdep_t:kbi_p_conflict            0.02330 *
## asr_scr_anxdep_t:kbi_p_c_bully             0.03902 *
## asr_scr_anxdep_t:kbi_p_c_mh_sa             0.55442
## asr_scr_anxdep_t:fes_youth                 0.48478
## asr_scr_anxdep_t:fes_p_ss_fc_pr            0.86241
## asr_scr_anxdep_t:demo_fam_exp              0.33367
## asr_scr_anxdep_t:neighborhood1_2_3_p       0.93104
## asr_scr_anxdep_t:neighborhood_crime_y      0.33439
## asr_scr_anxdep_t:sexM                      0.49371
## asr_scr_withdrawn_t:asr_scr_somatic_t      0.63442
## asr_scr_withdrawn_t:asr_scr_thought_t      0.07410 .
## asr_scr_withdrawn_t:asr_scr_attention_t    0.00643 **
## asr_scr_withdrawn_t:asr_scr_aggressive_t   0.24387
## asr_scr_withdrawn_t:asr_scr_rulebreak_t    0.60798
## asr_scr_withdrawn_t:asr_scr_intrusive_t    0.02219 *
## asr_scr_withdrawn_t:asr_scr_internal_t     0.16919
## asr_scr_withdrawn_t:asr_scr_external_t     0.42256
## asr_scr_withdrawn_t:asr_scr_totprob_t      0.07053 .
## asr_scr_withdrawn_t:asr_scr_depress_t      0.65751
## asr_scr_withdrawn_t:asr_scr_anxdisord_t    0.54859
## asr_scr_withdrawn_t:asr_scr_avoidant_t     0.75031
## asr_scr_withdrawn_t:asr_scr_adhd_t         0.11095
## asr_scr_withdrawn_t:asr_scr_antisocial_t   0.98894
## asr_scr_withdrawn_t:asr_scr_hyperactive_t  0.98434
```

```
## asr_scr_withdrawn_t:parent_monitor_y           0.23128
## asr_scr_withdrawn_t:kbi_p_conflict             0.57943
## asr_scr_withdrawn_t:kbi_p_c_bully              0.75414
## asr_scr_withdrawn_t:kbi_p_c_mh_sa              0.39849
## asr_scr_withdrawn_t:fes_youth                  0.83067
## asr_scr_withdrawn_t:fes_p_ss_fc_pr             0.93935
## asr_scr_withdrawn_t:demo_fam_exp               0.08255 .
## asr_scr_withdrawn_t:neighborhood1_2_3_p        0.12264
## asr_scr_withdrawn_t:neighborhood_crime_y       0.19507
## asr_scr_withdrawn_t:sexM                       0.02897 *
## asr_scr_somatic_t:asr_scr_thought_t            0.74399
## asr_scr_somatic_t:asr_scr_attention_t          0.36347
## asr_scr_somatic_t:asr_scr_aggressive_t         0.36663
## asr_scr_somatic_t:asr_scr_rulebreak_t          0.93248
## asr_scr_somatic_t:asr_scr_intrusive_t          0.16106
## asr_scr_somatic_t:asr_scr_internal_t           0.65093
## asr_scr_somatic_t:asr_scr_external_t           0.40852
## asr_scr_somatic_t:asr_scr_totprob_t            0.46255
## asr_scr_somatic_t:asr_scr_depress_t            0.05296 .
## asr_scr_somatic_t:asr_scr_anxdisord_t          0.26833
## asr_scr_somatic_t:asr_scr_avoidant_t           0.61785
## asr_scr_somatic_t:asr_scr_adhd_t               0.63746
## asr_scr_somatic_t:asr_scr_antisocial_t         0.33692
## asr_scr_somatic_t:asr_scr_hyperactive_t        0.60686
## asr_scr_somatic_t:parent_monitor_y             0.24930
## asr_scr_somatic_t:kbi_p_conflict               0.96305
## asr_scr_somatic_t:kbi_p_c_bully                0.08810 .
## asr_scr_somatic_t:kbi_p_c_mh_sa                0.51784
## asr_scr_somatic_t:fes_youth                    0.16518
## asr_scr_somatic_t:fes_p_ss_fc_pr               0.05075 .
## asr_scr_somatic_t:demo_fam_exp                 0.21311
## asr_scr_somatic_t:neighborhood1_2_3_p          0.02658 *
## asr_scr_somatic_t:neighborhood_crime_y         0.67373
## asr_scr_somatic_t:sexM                         0.07452 .
## asr_scr_thought_t:asr_scr_attention_t          0.43578
## asr_scr_thought_t:asr_scr_aggressive_t         0.17182
## asr_scr_thought_t:asr_scr_rulebreak_t          0.47263
## asr_scr_thought_t:asr_scr_intrusive_t          0.72310
## asr_scr_thought_t:asr_scr_internal_t           0.58956
## asr_scr_thought_t:asr_scr_external_t           0.30883
## asr_scr_thought_t:asr_scr_totprob_t            0.58625
## asr_scr_thought_t:asr_scr_depress_t            0.74773
## asr_scr_thought_t:asr_scr_anxdisord_t          0.38567
## asr_scr_thought_t:asr_scr_avoidant_t           0.28552
## asr_scr_thought_t:asr_scr_adhd_t               0.85600
## asr_scr_thought_t:asr_scr_antisocial_t         0.61666
## asr_scr_thought_t:asr_scr_hyperactive_t        0.44003
## asr_scr_thought_t:parent_monitor_y             0.73417
## asr_scr_thought_t:kbi_p_conflict               0.07215 .
## asr_scr_thought_t:kbi_p_c_bully                0.72365
## asr_scr_thought_t:kbi_p_c_mh_sa                0.35166
```

```
## asr_scr_thought_t:fes_youth                  0.70184
## asr_scr_thought_t:fes_p_ss_fc_pr             0.74450
## asr_scr_thought_t:demo_fam_exp               0.51753
## asr_scr_thought_t:neighborhood1_2_3_p        0.34963
## asr_scr_thought_t:neighborhood_crime_y       0.75428
## asr_scr_thought_t:sexM                       0.42733
## asr_scr_attention_t:asr_scr_aggressive_t     0.85915
## asr_scr_attention_t:asr_scr_rulebreak_t      0.06562 .
## asr_scr_attention_t:asr_scr_intrusive_t      0.04071 *
## asr_scr_attention_t:asr_scr_internal_t       0.37126
## asr_scr_attention_t:asr_scr_external_t       0.77995
## asr_scr_attention_t:asr_scr_totprob_t        0.28041
## asr_scr_attention_t:asr_scr_depress_t        0.39465
## asr_scr_attention_t:asr_scr_anxdisord_t      0.50092
## asr_scr_attention_t:asr_scr_avoidant_t       0.05506 .
## asr_scr_attention_t:asr_scr_adhd_t           0.29400
## asr_scr_attention_t:asr_scr_antisocial_t     0.18712
## asr_scr_attention_t:asr_scr_hyperactive_t    0.70985
## asr_scr_attention_t:parent_monitor_y         0.82828
## asr_scr_attention_t:kbi_p_conflict           0.75720
## asr_scr_attention_t:kbi_p_c_bully            0.39018
## asr_scr_attention_t:kbi_p_c_mh_sa            0.03379 *
## asr_scr_attention_t:fes_youth                0.19367
## asr_scr_attention_t:fes_p_ss_fc_pr           0.08758 .
## asr_scr_attention_t:demo_fam_exp             0.13519
## asr_scr_attention_t:neighborhood1_2_3_p      0.77650
## asr_scr_attention_t:neighborhood_crime_y     0.76557
## asr_scr_attention_t:sexM                     0.84312
## asr_scr_aggressive_t:asr_scr_rulebreak_t     0.74170
## asr_scr_aggressive_t:asr_scr_intrusive_t     0.35782
## asr_scr_aggressive_t:asr_scr_internal_t      0.09013 .
## asr_scr_aggressive_t:asr_scr_external_t      0.32648
## asr_scr_aggressive_t:asr_scr_totprob_t       0.13205
## asr_scr_aggressive_t:asr_scr_depress_t       0.66882
## asr_scr_aggressive_t:asr_scr_anxdisord_t     0.10317
## asr_scr_aggressive_t:asr_scr_avoidant_t      0.14461
## asr_scr_aggressive_t:asr_scr_adhd_t          0.84529
## asr_scr_aggressive_t:asr_scr_antisocial_t    0.79680
## asr_scr_aggressive_t:asr_scr_hyperactive_t   0.71962
## asr_scr_aggressive_t:parent_monitor_y        0.81685
## asr_scr_aggressive_t:kbi_p_conflict          0.57803
## asr_scr_aggressive_t:kbi_p_c_bully           0.00973 **
## asr_scr_aggressive_t:kbi_p_c_mh_sa           0.00219 **
## asr_scr_aggressive_t:fes_youth               0.53619
## asr_scr_aggressive_t:fes_p_ss_fc_pr          0.05402 .
## asr_scr_aggressive_t:demo_fam_exp            0.41786
## asr_scr_aggressive_t:neighborhood1_2_3_p     0.49527
## asr_scr_aggressive_t:neighborhood_crime_y    0.65252
## asr_scr_aggressive_t:sexM                    0.35942
## asr_scr_rulebreak_t:asr_scr_intrusive_t      0.11702
## asr_scr_rulebreak_t:asr_scr_internal_t       0.04408 *
```

```
## asr_scr_rulebreak_t:asr_scr_external_t        0.41785
## asr_scr_rulebreak_t:asr_scr_totprob_t         0.05897 .
## asr_scr_rulebreak_t:asr_scr_depress_t         0.75153
## asr_scr_rulebreak_t:asr_scr_anxdisord_t       0.81201
## asr_scr_rulebreak_t:asr_scr_avoidant_t        0.59872
## asr_scr_rulebreak_t:asr_scr_adhd_t            0.23687
## asr_scr_rulebreak_t:asr_scr_antisocial_t      0.74166
## asr_scr_rulebreak_t:asr_scr_hyperactive_t     0.23765
## asr_scr_rulebreak_t:parent_monitor_y          0.60679
## asr_scr_rulebreak_t:kbi_p_conflict            0.09092 .
## asr_scr_rulebreak_t:kbi_p_c_bully             0.64439
## asr_scr_rulebreak_t:kbi_p_c_mh_sa             0.44704
## asr_scr_rulebreak_t:fes_youth                 0.09025 .
## asr_scr_rulebreak_t:fes_p_ss_fc_pr            0.00561 **
## asr_scr_rulebreak_t:demo_fam_exp              0.20656
## asr_scr_rulebreak_t:neighborhood1_2_3_p       0.34522
## asr_scr_rulebreak_t:neighborhood_crime_y      0.13927
## asr_scr_rulebreak_t:sexM                      0.39898
## asr_scr_intrusive_t:asr_scr_internal_t        0.93798
## asr_scr_intrusive_t:asr_scr_external_t        0.81889
## asr_scr_intrusive_t:asr_scr_totprob_t         0.62502
## asr_scr_intrusive_t:asr_scr_depress_t         0.21666
## asr_scr_intrusive_t:asr_scr_anxdisord_t       0.30657
## asr_scr_intrusive_t:asr_scr_avoidant_t        0.56786
## asr_scr_intrusive_t:asr_scr_adhd_t            0.10741
## asr_scr_intrusive_t:asr_scr_antisocial_t      0.44922
## asr_scr_intrusive_t:asr_scr_hyperactive_t     0.32126
## asr_scr_intrusive_t:parent_monitor_y          0.06545 .
## asr_scr_intrusive_t:kbi_p_conflict            0.61422
## asr_scr_intrusive_t:kbi_p_c_bully             0.43598
## asr_scr_intrusive_t:kbi_p_c_mh_sa             0.63886
## asr_scr_intrusive_t:fes_youth                 0.82861
## asr_scr_intrusive_t:fes_p_ss_fc_pr            0.59372
## asr_scr_intrusive_t:demo_fam_exp              0.45738
## asr_scr_intrusive_t:neighborhood1_2_3_p       0.03481 *
## asr_scr_intrusive_t:neighborhood_crime_y      0.05016 .
## asr_scr_intrusive_t:sexM                      0.96412
## asr_scr_internal_t:asr_scr_external_t         0.18041
## asr_scr_internal_t:asr_scr_totprob_t          0.80661
## asr_scr_internal_t:asr_scr_depress_t          0.06271 .
## asr_scr_internal_t:asr_scr_anxdisord_t        0.63757
## asr_scr_internal_t:asr_scr_avoidant_t         0.36301
## asr_scr_internal_t:asr_scr_adhd_t             0.67424
## asr_scr_internal_t:asr_scr_antisocial_t       0.75930
## asr_scr_internal_t:asr_scr_hyperactive_t      0.31669
## asr_scr_internal_t:parent_monitor_y           0.20940
## asr_scr_internal_t:kbi_p_conflict             0.50754
## asr_scr_internal_t:kbi_p_c_bully              0.17219
## asr_scr_internal_t:kbi_p_c_mh_sa              0.17732
## asr_scr_internal_t:fes_youth                  0.05538 .
## asr_scr_internal_t:fes_p_ss_fc_pr             0.16737
```

```
## asr_scr_internal_t:demo_fam_exp            0.21323
## asr_scr_internal_t:neighborhood1_2_3_p     0.82295
## asr_scr_internal_t:neighborhood_crime_y    0.49131
## asr_scr_internal_t:sexM                    0.09333 .
## asr_scr_external_t:asr_scr_totprob_t        0.00518 **
## asr_scr_external_t:asr_scr_depress_t        0.72228
## asr_scr_external_t:asr_scr_anxdisord_t      0.07871 .
## asr_scr_external_t:asr_scr_avoidant_t       0.34956
## asr_scr_external_t:asr_scr_adhd_t           0.56872
## asr_scr_external_t:asr_scr_antisocial_t     0.92859
## asr_scr_external_t:asr_scr_hyperactive_t    0.69213
## asr_scr_external_t:parent_monitor_y         0.38926
## asr_scr_external_t:kbi_p_conflict           0.26309
## asr_scr_external_t:kbi_p_c_bully            0.87783
## asr_scr_external_t:kbi_p_c_mh_sa            0.00189 **
## asr_scr_external_t:fes_youth                0.35199
## asr_scr_external_t:fes_p_ss_fc_pr           0.89442
## asr_scr_external_t:demo_fam_exp             0.52803
## asr_scr_external_t:neighborhood1_2_3_p      0.64380
## asr_scr_external_t:neighborhood_crime_y     0.44843
## asr_scr_external_t:sexM                     0.30489
## asr_scr_totprob_t:asr_scr_depress_t         0.87805
## asr_scr_totprob_t:asr_scr_anxdisord_t       0.44932
## asr_scr_totprob_t:asr_scr_avoidant_t        0.35520
## asr_scr_totprob_t:asr_scr_adhd_t            0.30142
## asr_scr_totprob_t:asr_scr_antisocial_t      0.95780
## asr_scr_totprob_t:asr_scr_hyperactive_t     0.77011
## asr_scr_totprob_t:parent_monitor_y          0.16429
## asr_scr_totprob_t:kbi_p_conflict            0.24525
## asr_scr_totprob_t:kbi_p_c_bully             0.45820
## asr_scr_totprob_t:kbi_p_c_mh_sa             0.03472 *
## asr_scr_totprob_t:fes_youth                 0.18947
## asr_scr_totprob_t:fes_p_ss_fc_pr            0.62000
## asr_scr_totprob_t:demo_fam_exp              0.60078
## asr_scr_totprob_t:neighborhood1_2_3_p       0.13842
## asr_scr_totprob_t:neighborhood_crime_y      0.28017
## asr_scr_totprob_t:sexM                      0.05577 .
## asr_scr_depress_t:asr_scr_anxdisord_t       0.58839
## asr_scr_depress_t:asr_scr_avoidant_t        0.67642
## asr_scr_depress_t:asr_scr_adhd_t            0.22545
## asr_scr_depress_t:asr_scr_antisocial_t      0.82380
## asr_scr_depress_t:asr_scr_hyperactive_t     0.58021
## asr_scr_depress_t:parent_monitor_y          0.71757
## asr_scr_depress_t:kbi_p_conflict            0.97077
## asr_scr_depress_t:kbi_p_c_bully             0.90944
## asr_scr_depress_t:kbi_p_c_mh_sa             0.33885
## asr_scr_depress_t:fes_youth                 0.20044
## asr_scr_depress_t:fes_p_ss_fc_pr            0.68153
## asr_scr_depress_t:demo_fam_exp              0.80150
## asr_scr_depress_t:neighborhood1_2_3_p       0.68303
## asr_scr_depress_t:neighborhood_crime_y      0.23578
```

```
## asr_scr_depress_t:sexM                        0.36718
## asr_scr_anxdisord_t:asr_scr_avoidant_t        0.04698 *
## asr_scr_anxdisord_t:asr_scr_adhd_t            0.20301
## asr_scr_anxdisord_t:asr_scr_antisocial_t      0.95076
## asr_scr_anxdisord_t:asr_scr_hyperactive_t     0.18809
## asr_scr_anxdisord_t:parent_monitor_y          0.04860 *
## asr_scr_anxdisord_t:kbi_p_conflict            0.00898 **
## asr_scr_anxdisord_t:kbi_p_c_bully             0.33456
## asr_scr_anxdisord_t:kbi_p_c_mh_sa             0.89331
## asr_scr_anxdisord_t:fes_youth                 0.59320
## asr_scr_anxdisord_t:fes_p_ss_fc_pr            0.50070
## asr_scr_anxdisord_t:demo_fam_exp              0.14941
## asr_scr_anxdisord_t:neighborhood1_2_3_p       0.17107
## asr_scr_anxdisord_t:neighborhood_crime_y      0.39983
## asr_scr_anxdisord_t:sexM                      0.52631
## asr_scr_avoidant_t:asr_scr_adhd_t             0.09719 .
## asr_scr_avoidant_t:asr_scr_antisocial_t       0.67344
## asr_scr_avoidant_t:asr_scr_hyperactive_t      0.28076
## asr_scr_avoidant_t:parent_monitor_y           0.20159
## asr_scr_avoidant_t:kbi_p_conflict             0.83991
## asr_scr_avoidant_t:kbi_p_c_bully              0.79648
## asr_scr_avoidant_t:kbi_p_c_mh_sa              0.10196
## asr_scr_avoidant_t:fes_youth                  0.66859
## asr_scr_avoidant_t:fes_p_ss_fc_pr             0.05803 .
## asr_scr_avoidant_t:demo_fam_exp               0.22130
## asr_scr_avoidant_t:neighborhood1_2_3_p        0.06949 .
## asr_scr_avoidant_t:neighborhood_crime_y       0.73276
## asr_scr_avoidant_t:sexM                       0.56413
## asr_scr_adhd_t:asr_scr_antisocial_t           0.10719
## asr_scr_adhd_t:asr_scr_hyperactive_t          0.83224
## asr_scr_adhd_t:parent_monitor_y               0.39001
## asr_scr_adhd_t:kbi_p_conflict                 0.47678
## asr_scr_adhd_t:kbi_p_c_bully                  0.39206
## asr_scr_adhd_t:kbi_p_c_mh_sa                  0.00262 **
## asr_scr_adhd_t:fes_youth                      0.32782
## asr_scr_adhd_t:fes_p_ss_fc_pr                 0.11530
## asr_scr_adhd_t:demo_fam_exp                   0.15194
## asr_scr_adhd_t:neighborhood1_2_3_p            0.93834
## asr_scr_adhd_t:neighborhood_crime_y           0.49809
## asr_scr_adhd_t:sexM                           0.12237
## asr_scr_antisocial_t:asr_scr_hyperactive_t    0.24588
## asr_scr_antisocial_t:parent_monitor_y         0.50977
## asr_scr_antisocial_t:kbi_p_conflict           0.62471
## asr_scr_antisocial_t:kbi_p_c_bully            0.18546
## asr_scr_antisocial_t:kbi_p_c_mh_sa            0.47628
## asr_scr_antisocial_t:fes_youth                0.29879
## asr_scr_antisocial_t:fes_p_ss_fc_pr           0.09581 .
## asr_scr_antisocial_t:demo_fam_exp             0.34410
## asr_scr_antisocial_t:neighborhood1_2_3_p      0.38157
## asr_scr_antisocial_t:neighborhood_crime_y     0.52195
## asr_scr_antisocial_t:sexM                     0.67173
```

```
## asr_scr_hyperactive_t:parent_monitor_y        0.05041 .
## asr_scr_hyperactive_t:kbi_p_conflict          0.71413
## asr_scr_hyperactive_t:kbi_p_c_bully           0.07386 .
## asr_scr_hyperactive_t:kbi_p_c_mh_sa           4.02e-05 ***
## asr_scr_hyperactive_t:fes_youth               0.35979
## asr_scr_hyperactive_t:fes_p_ss_fc_pr          0.77829
## asr_scr_hyperactive_t:demo_fam_exp            0.09177 .
## asr_scr_hyperactive_t:neighborhood1_2_3_p     0.39157
## asr_scr_hyperactive_t:neighborhood_crime_y    0.17251
## asr_scr_hyperactive_t:sexM                    0.88822
## parent_monitor_y:kbi_p_conflict               0.28226
## parent_monitor_y:kbi_p_c_bully                0.63734
## parent_monitor_y:kbi_p_c_mh_sa                0.05099 .
## parent_monitor_y:fes_youth                    0.96354
## parent_monitor_y:fes_p_ss_fc_pr               0.98807
## parent_monitor_y:demo_fam_exp                 0.01021 *
## parent_monitor_y:neighborhood1_2_3_p          0.72546
## parent_monitor_y:neighborhood_crime_y         0.24833
## parent_monitor_y:sexM                         0.51318
## kbi_p_conflict:kbi_p_c_bully                  0.09618 .
## kbi_p_conflict:kbi_p_c_mh_sa                  0.81286
## kbi_p_conflict:fes_youth                      0.36048
## kbi_p_conflict:fes_p_ss_fc_pr                 0.19490
## kbi_p_conflict:demo_fam_exp                   0.69235
## kbi_p_conflict:neighborhood1_2_3_p            0.77094
## kbi_p_conflict:neighborhood_crime_y           0.18873
## kbi_p_conflict:sexM                           0.42437
## kbi_p_c_bully:kbi_p_c_mh_sa                   0.21565
## kbi_p_c_bully:fes_youth                       0.40896
## kbi_p_c_bully:fes_p_ss_fc_pr                  0.89643
## kbi_p_c_bully:demo_fam_exp                    0.01576 *
## kbi_p_c_bully:neighborhood1_2_3_p             0.36375
## kbi_p_c_bully:neighborhood_crime_y            0.02250 *
## kbi_p_c_bully:sexM                            0.64989
## kbi_p_c_mh_sa:fes_youth                       0.36941
## kbi_p_c_mh_sa:fes_p_ss_fc_pr                  0.71921
## kbi_p_c_mh_sa:demo_fam_exp                    0.81385
## kbi_p_c_mh_sa:neighborhood1_2_3_p             0.36581
## kbi_p_c_mh_sa:neighborhood_crime_y            0.30490
## kbi_p_c_mh_sa:sexM                            0.00136 **
## fes_youth:fes_p_ss_fc_pr                      0.21390
## fes_youth:demo_fam_exp                        0.67087
## fes_youth:neighborhood1_2_3_p                 0.42063
## fes_youth:neighborhood_crime_y                0.73065
## fes_youth:sexM                                0.64750
## fes_p_ss_fc_pr:demo_fam_exp                   0.66479
## fes_p_ss_fc_pr:neighborhood1_2_3_p            0.40117
## fes_p_ss_fc_pr:neighborhood_crime_y           0.54487
## fes_p_ss_fc_pr:sexM                           0.37418
## demo_fam_exp:neighborhood1_2_3_p              0.60805
## demo_fam_exp:neighborhood_crime_y             0.82159
```

```
## demo_fam_exp:sexM                              0.58988
## neighborhood1_2_3_p:neighborhood_crime_y       0.78090
## neighborhood1_2_3_p:sexM                       0.34239
## neighborhood_crime_y:sexM                      0.70879
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8804.4  on 6593  degrees of freedom
## Residual deviance: 4844.0  on 6215  degrees of freedom
## AIC: 5602
##
## Number of Fisher Scoring iterations: 7
```

```
cm <- confusionMatrix(table(as.numeric(glm.fit$fitted.values>0.5), df$y))
print(cm)
```

```
## Confusion Matrix and Statistics
##
##
##        0    1
##   0 3647  686
##   1  392 1869
##
##                Accuracy : 0.8365
##                  95% CI : (0.8274, 0.8454)
##     No Information Rate : 0.6125
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.6482
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
##             Sensitivity : 0.9029
##             Specificity : 0.7315
##          Pos Pred Value : 0.8417
##          Neg Pred Value : 0.8266
##              Prevalence : 0.6125
##          Detection Rate : 0.5531
##    Detection Prevalence : 0.6571
##       Balanced Accuracy : 0.8172
##
##        'Positive' Class : 0
##
```

```
print(cm$byClass)
```

```
##          Sensitivity             Specificity          Pos Pred Value
##            0.9029463               0.7315068               0.8416801
##       Neg Pred Value               Precision                  Recall
##            0.8266254               0.8416801               0.9029463
##                   F1              Prevalence          Detection Rate
##            0.8712375               0.6125265               0.5530786
## Detection Prevalence     Balanced Accuracy
##            0.6571125               0.8172266
```

Step Wise Logistic Regression StepWise Model Selection

```r
library(MASS)
```

```
## Warning: package 'MASS' was built under R version 3.6.2
```

```r
library(tidyverse)
```

```
## ── Attaching packages ───────────────────────────────────────────────
## ──── tidyverse 1.3.0 ──
```

```
## ✔ tibble  3.0.1     ✔ dplyr   0.8.5
## ✔ tidyr   1.0.3     ✔ stringr 1.4.0
## ✔ readr   1.3.1     ✔ forcats 0.4.0
## ✔ purrr   0.3.3
```

```
## Warning: package 'tibble' was built under R version 3.6.2
```

```
## Warning: package 'tidyr' was built under R version 3.6.2
```

```
## ── Conflicts ───────────────────────────────────────────────────────────────── t
idyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
## ✖ purrr::lift()   masks caret::lift()
## ✖ dplyr::select() masks MASS::select()
```

```r
glm.fit <- glm(y ~ ., data = df, family = binomial)
step.model <- glm.fit %>% stepAIC(trace = FALSE)
```

Result

```r
summary(step.model)
```

```
## 
## Call:
## glm(formula = y ~ asr_scr_anxdep_t + asr_scr_somatic_t + asr_scr_thought_t +
##     asr_scr_attention_t + asr_scr_aggressive_t + asr_scr_rulebreak_t +
##     asr_scr_external_t + asr_scr_totprob_t + asr_scr_anxdisord_t +
##     asr_scr_avoidant_t + asr_scr_adhd_t + asr_scr_hyperactive_t +
##     parent_monitor_y + kbi_p_conflict + kbi_p_c_bully + kbi_p_c_mh_sa +
##     fes_youth + fes_p_ss_fc_pr + demo_fam_exp + neighborhood1_2_3_p +
##     neighborhood_crime_y + sex, family = binomial, data = df)
## 
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -3.2363  -0.6098  -0.3150   0.5126   2.9564
## 
## Coefficients:
##                        Estimate Std. Error z value Pr(>|z|)
## (Intercept)           -6.596190   0.988017  -6.676 2.45e-11 ***
## asr_scr_anxdep_t      -0.046929   0.013364  -3.512 0.000446 ***
## asr_scr_somatic_t      0.021742   0.008249   2.636 0.008396 **
## asr_scr_thought_t      0.023200   0.009723   2.386 0.017025 *
## asr_scr_attention_t    0.026186   0.016014   1.635 0.102018
## asr_scr_aggressive_t  -0.039532   0.013760  -2.873 0.004066 **
## asr_scr_rulebreak_t   -0.035961   0.010427  -3.449 0.000563 ***
## asr_scr_external_t     0.060579   0.010546   5.744 9.24e-09 ***
## asr_scr_totprob_t      0.051057   0.012288   4.155 3.26e-05 ***
## asr_scr_anxdisord_t    0.015827   0.010793   1.466 0.142553
## asr_scr_avoidant_t     0.014735   0.009168   1.607 0.107991
## asr_scr_adhd_t        -0.030200   0.020930  -1.443 0.149050
## asr_scr_hyperactive_t  0.026678   0.017816   1.497 0.134298
## parent_monitor_y      -0.115909   0.073109  -1.585 0.112866
## kbi_p_conflict         2.152185   0.091783  23.449  < 2e-16 ***
## kbi_p_c_bully          0.969328   0.097746   9.917  < 2e-16 ***
## kbi_p_c_mh_sa          1.222715   0.089004  13.738  < 2e-16 ***
## fes_youth              0.124582   0.018608   6.695 2.16e-11 ***
## fes_p_ss_fc_pr         0.138570   0.019568   7.081 1.43e-12 ***
## demo_fam_exp           0.553043   0.089916   6.151 7.72e-10 ***
## neighborhood1_2_3_p   -0.135240   0.038662  -3.498 0.000469 ***
## neighborhood_crime_y  -0.131940   0.034172  -3.861 0.000113 ***
## sexM                   0.440717   0.070596   6.243 4.30e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## (Dispersion parameter for binomial family taken to be 1)
## 
##     Null deviance: 8804.4  on 6593  degrees of freedom
## Residual deviance: 5297.3  on 6571  degrees of freedom
## AIC: 5343.3
## 
## Number of Fisher Scoring iterations: 5
```

```
cm <- confusionMatrix(table(as.numeric(step.model$fitted.values>0.5), df$y))
print(cm)
```

```
## Confusion Matrix and Statistics
##
##
##        0    1
##   0 3597  762
##   1  442 1793
##
##                Accuracy : 0.8174
##                  95% CI : (0.8079, 0.8267)
##     No Information Rate : 0.6125
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.6063
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
##             Sensitivity : 0.8906
##             Specificity : 0.7018
##          Pos Pred Value : 0.8252
##          Neg Pred Value : 0.8022
##              Prevalence : 0.6125
##          Detection Rate : 0.5455
##    Detection Prevalence : 0.6611
##       Balanced Accuracy : 0.7962
##
##        'Positive' Class : 0
##
```

```
print(cm$byClass)
```

```
##          Sensitivity          Specificity       Pos Pred Value
##            0.8905670            0.7017613            0.8251893
##       Neg Pred Value            Precision               Recall
##            0.8022371            0.8251893            0.8905670
##                   F1           Prevalence       Detection Rate
##            0.8566325            0.6125265            0.5454959
## Detection Prevalence    Balanced Accuracy
##            0.6610555            0.7961641
```

Step Wise Logistic Regression W/ Interaction Model Selection

```
#glm.fit <- glm(y ~ . + .^2, data = df, family = binomial)
#step.model <- glm.fit %>% stepAIC(trace = FALSE)
```

Result

```
#summary(step.model )

#cm <- confusionMatrix(table(as.numeric(step.model $fitted.values>0.5), df$y))
#print(cm)
#print(cm$byClass)
```

Analysis W/ Selected Data, All Attributes

```
df <- read.csv('cleandata.csv')
odf<- df[(df$aggressive_sumscore  <= (-2.020650971)) | (df$aggressive_sumscore  >=
(0.2168869)), ]
odf$y <- ifelse(odf$aggressive_sumscore <= (-2.020650971), 0, 1)
df <- subset(odf, select=-c(X,aggressive_sumscore , prosocial_child, prosocial_paren
t, interview_date, interview_age, subjectkey))
```

###Logistic Regression Model Selection

```
glm.fit <- glm(y ~ ., data = df, family = binomial)
```

Result

```
summary(glm.fit)
```

```
## 
## Call:
## glm(formula = y ~ ., family = binomial, data = df)
## 
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max  
## -3.2205  -0.5887  -0.2997   0.4870   3.1245  
## 
## Coefficients:
##                           Estimate Std. Error z value Pr(>|z|)    
## (Intercept)              -6.949734   1.393145  -4.989 6.08e-07 ***
## asr_scr_perstr_t          0.011586   0.004206   2.754 0.005880 ** 
## asr_scr_anxdep_t         -0.038518   0.017549  -2.195 0.028178 *  
## asr_scr_withdrawn_t      -0.010485   0.013672  -0.767 0.443138    
## asr_scr_somatic_t         0.001735   0.023166   0.075 0.940302    
## asr_scr_thought_t         0.018935   0.010745   1.762 0.078026 .  
## asr_scr_attention_t       0.035494   0.018984   1.870 0.061521 .  
## asr_scr_aggressive_t     -0.061028   0.016520  -3.694 0.000221 ***
## asr_scr_rulebreak_t      -0.049166   0.013627  -3.608 0.000308 ***
## asr_scr_intrusive_t      -0.015407   0.012951  -1.190 0.234209    
## asr_scr_internal_t       -0.000911   0.016541  -0.055 0.956077    
## asr_scr_external_t        0.069039   0.013460   5.129 2.91e-07 ***
## asr_scr_totprob_t         0.056096   0.022673   2.474 0.013358 *  
## asr_scr_depress_t        -0.002584   0.014364  -0.180 0.857231    
## asr_scr_anxdisord_t       0.009487   0.011374   0.834 0.404237    
## asr_scr_somaticpr_t       0.019749   0.018775   1.052 0.292839    
## asr_scr_avoidant_t        0.022911   0.011988   1.911 0.055992 .  
## asr_scr_adhd_t           -0.022463   0.039624  -0.567 0.570786    
## asr_scr_antisocial_t      0.025805   0.015878   1.625 0.104117    
## asr_scr_inattention_t    -0.007478   0.025080  -0.298 0.765566    
## asr_scr_hyperactive_t     0.022759   0.026496   0.859 0.390376    
## crpbi_bothcare           -0.007249   0.005559  -1.304 0.192194    
## parent_monitor_y         -0.088460   0.074453  -1.188 0.234782    
## kbi_p_conflict            2.235868   0.094849  23.573  < 2e-16 ***
## kbi_p_c_best_friend      -0.034849   0.047856  -0.728 0.466494    
## kbi_p_c_reg_friend_group -0.026480   0.073097  -0.362 0.717159    
## kbi_p_c_bully             0.919037   0.099911   9.199  < 2e-16 ***
## kbi_p_c_mh_sa             1.271827   0.092435  13.759  < 2e-16 ***
## fes_youth                 0.109006   0.019058   5.720 1.07e-08 ***
## fes_p_ss_fc_pr            0.133299   0.020253   6.582 4.65e-11 ***
## macv_p_ss_fs             -0.026663   0.086079  -0.310 0.756747    
## macv_p_ss_fo              0.084361   0.079614   1.060 0.289318    
## macv_p_ss_isr             0.086058   0.064864   1.327 0.184590    
## macv_p_ss_fr              0.030415   0.071896   0.423 0.672268    
## macv_p_ss_r               0.179107   0.045387   3.946 7.94e-05 ***
## demo_prnt_age_v2         -0.012721   0.005764  -2.207 0.027308 *  
## demo_prnt_marital_v2      0.099772   0.025605   3.897 9.76e-05 ***
## demo_comb_income_v2      -0.065400   0.021106  -3.099 0.001944 ** 
## demo_fam_exp              0.237331   0.099617   2.382 0.017198 *  
## demo_yrs_1                0.067366   0.038972   1.729 0.083881 .  
## demo_yrs_2               -0.127282   0.054995  -2.314 0.020644 *  
```

```
## parent_rules_q1          0.042964   0.067902   0.633 0.526899
## parent_rules_q4          0.058916   0.072703   0.810 0.417729
## parent_rules_q7         -0.022414   0.065691  -0.341 0.732949
## su_risk_p_1              0.035114   0.032482   1.081 0.279686
## su_risk_p_2_3           -0.031573   0.047240  -0.668 0.503913
## su_risk_p_4_5           -0.019729   0.050085  -0.394 0.693642
## neighborhood1_2_3_p     -0.079228   0.040953  -1.935 0.053036 .
## neighborhood_crime_y    -0.093772   0.035049  -2.675 0.007463 **
## sexM                     0.463259   0.072187   6.418 1.39e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8804.4  on 6593  degrees of freedom
## Residual deviance: 5155.2  on 6544  degrees of freedom
## AIC: 5255.2
##
## Number of Fisher Scoring iterations: 5
```

```
cm <- confusionMatrix(table(as.numeric(glm.fit$fitted.values>0.5), df$y))
print(cm)
```

```
## Confusion Matrix and Statistics
##
##
##          0    1
##   0 3605  728
##   1  434 1827
##
##                 Accuracy : 0.8238
##                   95% CI : (0.8144, 0.8329)
##      No Information Rate : 0.6125
##      P-Value [Acc > NIR] : < 2.2e-16
##
##                    Kappa : 0.6207
##
##   Mcnemar's Test P-Value : < 2.2e-16
##
##              Sensitivity : 0.8925
##              Specificity : 0.7151
##           Pos Pred Value : 0.8320
##           Neg Pred Value : 0.8080
##               Prevalence : 0.6125
##           Detection Rate : 0.5467
##     Detection Prevalence : 0.6571
##        Balanced Accuracy : 0.8038
##
##         'Positive' Class : 0
##
```

```
print(cm$byClass)
```

```
##          Sensitivity          Specificity       Pos Pred Value
##            0.8925477            0.7150685            0.8319871
##       Neg Pred Value            Precision               Recall
##            0.8080495            0.8319871            0.8925477
##                   F1           Prevalence       Detection Rate
##            0.8612040            0.6125265            0.5467091
## Detection Prevalence    Balanced Accuracy
##            0.6571125            0.8038081
```

Logistic Regression W/ Interaction Model Selection

```
glm.fit <- glm(y ~ . + .^2, data = df, family = binomial)
```

```
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

Result

```
summary(glm.fit)
```

```
## 
## Call:
## glm(formula = y ~ . + .^2, family = binomial, data = df)
## 
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max  
## -3.8282  -0.3987  -0.1367   0.1731   3.4701  
## 
## Coefficients:
##                                              Estimate Std. Error z value
## (Intercept)                                 1.074e+02  7.453e+01   1.441
## asr_scr_perstr_t                           -2.341e-01  2.910e-01  -0.804
## asr_scr_anxdep_t                           -1.244e+00  1.359e+00  -0.915
## asr_scr_withdrawn_t                        -1.249e+00  1.009e+00  -1.237
## asr_scr_somatic_t                          -1.195e+00  1.611e+00  -0.742
## asr_scr_thought_t                          -1.040e+00  7.555e-01  -1.377
## asr_scr_attention_t                        -2.115e+00  1.338e+00  -1.581
## asr_scr_aggressive_t                       -8.172e-01  1.196e+00  -0.683
## asr_scr_rulebreak_t                         2.658e-01  9.478e-01   0.280
## asr_scr_intrusive_t                        -1.607e+00  9.285e-01  -1.731
## asr_scr_internal_t                         -4.028e+00  1.328e+00  -3.034
## asr_scr_external_t                         -2.075e+00  1.158e+00  -1.792
## asr_scr_totprob_t                           5.887e+00  1.681e+00   3.503
## asr_scr_depress_t                           2.116e+00  1.047e+00   2.021
## asr_scr_anxdisord_t                         2.001e-01  9.001e-01   0.222
## asr_scr_somaticpr_t                         4.489e-01  1.286e+00   0.349
## asr_scr_avoidant_t                          4.979e-01  8.992e-01   0.554
## asr_scr_adhd_t                             -3.553e-03  2.818e+00  -0.001
## asr_scr_antisocial_t                        3.471e-02  1.153e+00   0.030
## asr_scr_inattention_t                       9.132e-01  1.693e+00   0.539
## asr_scr_hyperactive_t                       2.233e+00  1.953e+00   1.143
## crpbi_bothcare                             -1.997e-01  3.832e-01  -0.521
## parent_monitor_y                           -5.135e+00  5.024e+00  -1.022
## kbi_p_conflict                             -7.311e+00  6.719e+00  -1.088
## kbi_p_c_best_friend                         5.810e-02  3.307e+00   0.018
## kbi_p_c_reg_friend_group                   -1.043e+01  5.366e+00  -1.944
## kbi_p_c_bully                              -1.404e+00  6.865e+00  -0.204
## kbi_p_c_mh_sa                              -1.040e+01  7.316e+00  -1.422
## fes_youth                                  -4.826e-02  1.328e+00  -0.036
## fes_p_ss_fc_pr                             -4.782e+00  1.355e+00  -3.529
## macv_p_ss_fs                               -3.380e+00  5.964e+00  -0.567
## macv_p_ss_fo                                5.999e+00  5.737e+00   1.046
## macv_p_ss_isr                              -7.854e+00  4.529e+00  -1.734
## macv_p_ss_fr                                3.334e+00  5.207e+00   0.640
## macv_p_ss_r                                -1.508e+00  3.181e+00  -0.474
## demo_prnt_age_v2                            6.782e-01  4.207e-01   1.612
## demo_prnt_marital_v2                        1.733e+00  1.801e+00   0.962
## demo_comb_income_v2                         3.304e-01  1.555e+00   0.212
## demo_fam_exp                                4.011e+00  7.259e+00   0.552
## demo_yrs_1                                  1.481e-01  2.712e+00   0.055
## demo_yrs_2                                  1.604e+00  3.759e+00   0.427
```

```
## parent_rules_q1                               -2.438e-01  5.423e+00  -0.045
## parent_rules_q4                               -4.593e+00  5.543e+00  -0.829
## parent_rules_q7                                2.651e+00  4.682e+00   0.566
## su_risk_p_1                                     2.314e+00  2.394e+00   0.966
## su_risk_p_2_3                                  -1.931e+00  3.654e+00  -0.529
## su_risk_p_4_5                                   2.900e+00  3.921e+00   0.740
## neighborhood1_2_3_p                            -4.137e+00  2.882e+00  -1.435
## neighborhood_crime_y                            2.565e+00  2.359e+00   1.087
## sexM                                           -2.584e+00  4.865e+00  -0.531
## asr_scr_perstr_t:asr_scr_anxdep_t               6.018e-03  3.986e-03   1.510
## asr_scr_perstr_t:asr_scr_withdrawn_t            1.501e-03  3.151e-03   0.476
## asr_scr_perstr_t:asr_scr_somatic_t              5.577e-03  4.885e-03   1.142
## asr_scr_perstr_t:asr_scr_thought_t              2.532e-03  2.441e-03   1.037
## asr_scr_perstr_t:asr_scr_attention_t            1.303e-03  4.169e-03   0.313
## asr_scr_perstr_t:asr_scr_aggressive_t           1.799e-03  3.359e-03   0.536
## asr_scr_perstr_t:asr_scr_rulebreak_t            7.827e-04  2.854e-03   0.274
## asr_scr_perstr_t:asr_scr_intrusive_t           -2.538e-03  3.165e-03  -0.802
## asr_scr_perstr_t:asr_scr_internal_t            -1.612e-03  2.957e-03  -0.545
## asr_scr_perstr_t:asr_scr_external_t            -8.303e-04  2.342e-03  -0.354
## asr_scr_perstr_t:asr_scr_totprob_t              3.061e-03  3.948e-03   0.775
## asr_scr_perstr_t:asr_scr_depress_t             -7.819e-03  3.223e-03  -2.426
## asr_scr_perstr_t:asr_scr_anxdisord_t            3.457e-03  2.612e-03   1.324
## asr_scr_perstr_t:asr_scr_somaticpr_t           -3.769e-03  3.905e-03  -0.965
## asr_scr_perstr_t:asr_scr_avoidant_t            -3.385e-03  2.769e-03  -1.223
## asr_scr_perstr_t:asr_scr_adhd_t                -1.129e-02  8.676e-03  -1.301
## asr_scr_perstr_t:asr_scr_antisocial_t          -4.233e-03  3.359e-03  -1.260
## asr_scr_perstr_t:asr_scr_inattention_t          3.606e-03  5.275e-03   0.684
## asr_scr_perstr_t:asr_scr_hyperactive_t          9.160e-03  6.120e-03   1.497
## asr_scr_perstr_t:crpbi_bothcare                 1.718e-04  9.980e-04   0.172
## asr_scr_perstr_t:parent_monitor_y               1.589e-03  1.362e-02   0.117
## asr_scr_perstr_t:kbi_p_conflict                -3.644e-02  1.724e-02  -2.113
## asr_scr_perstr_t:kbi_p_c_best_friend            1.001e-02  9.269e-03   1.080
## asr_scr_perstr_t:kbi_p_c_reg_friend_group       4.149e-02  1.435e-02   2.890
## asr_scr_perstr_t:kbi_p_c_bully                  1.504e-04  1.800e-02   0.008
## asr_scr_perstr_t:kbi_p_c_mh_sa                  1.091e-02  1.868e-02   0.584
## asr_scr_perstr_t:fes_youth                     -2.128e-03  3.446e-03  -0.617
## asr_scr_perstr_t:fes_p_ss_fc_pr                 5.679e-03  3.868e-03   1.468
## asr_scr_perstr_t:macv_p_ss_fs                   3.619e-03  1.626e-02   0.223
## asr_scr_perstr_t:macv_p_ss_fo                   9.809e-03  1.521e-02   0.645
## asr_scr_perstr_t:macv_p_ss_isr                  1.960e-02  1.190e-02   1.647
## asr_scr_perstr_t:macv_p_ss_fr                  -7.702e-03  1.349e-02  -0.571
## asr_scr_perstr_t:macv_p_ss_r                   -6.547e-03  8.557e-03  -0.765
## asr_scr_perstr_t:demo_prnt_age_v2               3.432e-04  1.053e-03   0.326
## asr_scr_perstr_t:demo_prnt_marital_v2          -3.437e-04  4.691e-03  -0.073
## asr_scr_perstr_t:demo_comb_income_v2            5.327e-03  3.561e-03   1.496
## asr_scr_perstr_t:demo_fam_exp                  -2.949e-02  1.702e-02  -1.733
## asr_scr_perstr_t:demo_yrs_1                     2.494e-03  6.781e-03   0.368
## asr_scr_perstr_t:demo_yrs_2                     1.110e-02  9.655e-03   1.150
## asr_scr_perstr_t:parent_rules_q1               -1.589e-03  1.398e-02  -0.114
## asr_scr_perstr_t:parent_rules_q4               -1.941e-02  1.475e-02  -1.316
## asr_scr_perstr_t:parent_rules_q7                2.862e-02  1.336e-02   2.143
```

```
## asr_scr_perstr_t:su_risk_p_1                    1.095e-02  7.049e-03   1.554
## asr_scr_perstr_t:su_risk_p_2_3                  1.150e-02  1.020e-02   1.128
## asr_scr_perstr_t:su_risk_p_4_5                 -1.797e-02  1.135e-02  -1.584
## asr_scr_perstr_t:neighborhood1_2_3_p          -1.694e-02  7.519e-03  -2.253
## asr_scr_perstr_t:neighborhood_crime_y         -7.410e-03  6.157e-03  -1.204
## asr_scr_perstr_t:sexM                          3.488e-03  1.286e-02   0.271
## asr_scr_anxdep_t:asr_scr_withdrawn_t          -1.696e-03  1.116e-02  -0.152
## asr_scr_anxdep_t:asr_scr_somatic_t            -4.201e-02  1.587e-02  -2.647
## asr_scr_anxdep_t:asr_scr_thought_t            -7.440e-04  9.157e-03  -0.081
## asr_scr_anxdep_t:asr_scr_attention_t          -3.548e-03  1.640e-02  -0.216
## asr_scr_anxdep_t:asr_scr_aggressive_t          1.265e-02  1.475e-02   0.858
## asr_scr_anxdep_t:asr_scr_rulebreak_t           3.485e-03  1.140e-02   0.306
## asr_scr_anxdep_t:asr_scr_intrusive_t           1.570e-02  1.199e-02   1.310
## asr_scr_anxdep_t:asr_scr_internal_t            3.184e-03  1.686e-02   0.189
## asr_scr_anxdep_t:asr_scr_external_t           -1.993e-02  1.372e-02  -1.453
## asr_scr_anxdep_t:asr_scr_totprob_t             2.195e-02  2.796e-02   0.785
## asr_scr_anxdep_t:asr_scr_depress_t             2.765e-02  1.005e-02   2.752
## asr_scr_anxdep_t:asr_scr_anxdisord_t          -4.509e-03  9.072e-03  -0.497
## asr_scr_anxdep_t:asr_scr_somaticpr_t           2.845e-02  1.470e-02   1.935
## asr_scr_anxdep_t:asr_scr_avoidant_t           -8.298e-03  1.093e-02  -0.759
## asr_scr_anxdep_t:asr_scr_adhd_t               -7.927e-02  3.485e-02  -2.275
## asr_scr_anxdep_t:asr_scr_antisocial_t          1.882e-04  1.283e-02   0.015
## asr_scr_anxdep_t:asr_scr_inattention_t         3.613e-02  2.153e-02   1.678
## asr_scr_anxdep_t:asr_scr_hyperactive_t         2.190e-02  2.256e-02   0.971
## asr_scr_anxdep_t:crpbi_bothcare               -1.026e-02  4.985e-03  -2.057
## asr_scr_anxdep_t:parent_monitor_y             -6.446e-02  6.850e-02  -0.941
## asr_scr_anxdep_t:kbi_p_conflict                2.301e-01  8.927e-02   2.577
## asr_scr_anxdep_t:kbi_p_c_best_friend           6.553e-02  4.450e-02   1.473
## asr_scr_anxdep_t:kbi_p_c_reg_friend_group      6.004e-02  7.136e-02   0.841
## asr_scr_anxdep_t:kbi_p_c_bully                 1.074e-01  9.065e-02   1.184
## asr_scr_anxdep_t:kbi_p_c_mh_sa                 1.495e-02  9.062e-02   0.165
## asr_scr_anxdep_t:fes_youth                     7.691e-03  1.647e-02   0.467
## asr_scr_anxdep_t:fes_p_ss_fc_pr               -1.072e-02  1.692e-02  -0.634
## asr_scr_anxdep_t:macv_p_ss_fs                  1.182e-01  8.295e-02   1.424
## asr_scr_anxdep_t:macv_p_ss_fo                 -6.419e-02  7.222e-02  -0.889
## asr_scr_anxdep_t:macv_p_ss_isr                -6.736e-02  5.848e-02  -1.152
## asr_scr_anxdep_t:macv_p_ss_fr                 -9.170e-02  6.768e-02  -1.355
## asr_scr_anxdep_t:macv_p_ss_r                  -6.429e-02  4.062e-02  -1.583
## asr_scr_anxdep_t:demo_prnt_age_v2              1.506e-02  5.575e-03   2.701
## asr_scr_anxdep_t:demo_prnt_marital_v2         -1.533e-02  2.495e-02  -0.614
## asr_scr_anxdep_t:demo_comb_income_v2          -4.909e-02  2.038e-02  -2.409
## asr_scr_anxdep_t:demo_fam_exp                 -5.534e-02  9.052e-02  -0.611
## asr_scr_anxdep_t:demo_yrs_1                   -1.549e-02  3.532e-02  -0.438
## asr_scr_anxdep_t:demo_yrs_2                    1.505e-01  5.029e-02   2.993
## asr_scr_anxdep_t:parent_rules_q1               4.016e-02  6.414e-02   0.626
## asr_scr_anxdep_t:parent_rules_q4              -1.018e-01  6.476e-02  -1.572
## asr_scr_anxdep_t:parent_rules_q7               5.627e-02  6.255e-02   0.900
## asr_scr_anxdep_t:su_risk_p_1                  -3.381e-03  3.026e-02  -0.112
## asr_scr_anxdep_t:su_risk_p_2_3                -3.338e-02  4.680e-02  -0.713
## asr_scr_anxdep_t:su_risk_p_4_5                 2.298e-02  5.043e-02   0.456
## asr_scr_anxdep_t:neighborhood1_2_3_p           5.926e-02  3.685e-02   1.608
```

```
## asr_scr_anxdep_t:neighborhood_crime_y           -5.932e-04  3.242e-02  -0.018
## asr_scr_anxdep_t:sexM                            6.022e-02  6.229e-02   0.967
## asr_scr_withdrawn_t:asr_scr_somatic_t            1.962e-02  1.505e-02   1.304
## asr_scr_withdrawn_t:asr_scr_thought_t            1.543e-02  6.168e-03   2.501
## asr_scr_withdrawn_t:asr_scr_attention_t          3.948e-02  1.351e-02   2.921
## asr_scr_withdrawn_t:asr_scr_aggressive_t        -1.280e-02  1.051e-02  -1.218
## asr_scr_withdrawn_t:asr_scr_rulebreak_t         -5.325e-04  8.861e-03  -0.060
## asr_scr_withdrawn_t:asr_scr_intrusive_t          2.347e-02  1.051e-02   2.234
## asr_scr_withdrawn_t:asr_scr_internal_t           1.892e-02  1.537e-02   1.231
## asr_scr_withdrawn_t:asr_scr_external_t           2.284e-02  1.012e-02   2.257
## asr_scr_withdrawn_t:asr_scr_totprob_t           -4.902e-02  2.028e-02  -2.417
## asr_scr_withdrawn_t:asr_scr_depress_t           -4.409e-03  9.006e-03  -0.490
## asr_scr_withdrawn_t:asr_scr_anxdisord_t         -8.042e-03  7.431e-03  -1.082
## asr_scr_withdrawn_t:asr_scr_somaticpr_t         -1.343e-02  1.237e-02  -1.086
## asr_scr_withdrawn_t:asr_scr_avoidant_t           8.276e-04  4.979e-03   0.166
## asr_scr_withdrawn_t:asr_scr_adhd_t              -9.896e-02  2.840e-02  -3.485
## asr_scr_withdrawn_t:asr_scr_antisocial_t        -1.699e-02  1.034e-02  -1.643
## asr_scr_withdrawn_t:asr_scr_inattention_t        4.042e-02  1.783e-02   2.267
## asr_scr_withdrawn_t:asr_scr_hyperactive_t        4.464e-02  1.956e-02   2.282
## asr_scr_withdrawn_t:crpbi_bothcare              -8.884e-03  3.863e-03  -2.300
## asr_scr_withdrawn_t:parent_monitor_y             5.598e-02  4.905e-02   1.141
## asr_scr_withdrawn_t:kbi_p_conflict               2.706e-02  6.823e-02   0.397
## asr_scr_withdrawn_t:kbi_p_c_best_friend         -4.286e-02  3.313e-02  -1.294
## asr_scr_withdrawn_t:kbi_p_c_reg_friend_group     6.963e-03  5.280e-02   0.132
## asr_scr_withdrawn_t:kbi_p_c_bully               -2.679e-02  6.062e-02  -0.442
## asr_scr_withdrawn_t:kbi_p_c_mh_sa               -7.263e-03  6.885e-02  -0.105
## asr_scr_withdrawn_t:fes_youth                    1.501e-04  1.334e-02   0.011
## asr_scr_withdrawn_t:fes_p_ss_fc_pr              -5.581e-03  1.339e-02  -0.417
## asr_scr_withdrawn_t:macv_p_ss_fs                -1.962e-01  5.913e-02  -3.318
## asr_scr_withdrawn_t:macv_p_ss_fo                 1.585e-01  5.624e-02   2.818
## asr_scr_withdrawn_t:macv_p_ss_isr                4.491e-02  4.447e-02   1.010
## asr_scr_withdrawn_t:macv_p_ss_fr                -8.575e-02  5.279e-02  -1.624
## asr_scr_withdrawn_t:macv_p_ss_r                  2.244e-02  3.066e-02   0.732
## asr_scr_withdrawn_t:demo_prnt_age_v2             2.023e-03  4.018e-03   0.503
## asr_scr_withdrawn_t:demo_prnt_marital_v2        -6.643e-03  1.834e-02  -0.362
## asr_scr_withdrawn_t:demo_comb_income_v2         -2.058e-02  1.437e-02  -1.432
## asr_scr_withdrawn_t:demo_fam_exp                -3.189e-02  6.685e-02  -0.477
## asr_scr_withdrawn_t:demo_yrs_1                  -1.144e-04  2.597e-02  -0.004
## asr_scr_withdrawn_t:demo_yrs_2                   3.499e-02  3.658e-02   0.957
## asr_scr_withdrawn_t:parent_rules_q1             -5.159e-04  5.445e-02  -0.009
## asr_scr_withdrawn_t:parent_rules_q4              2.120e-02  5.502e-02   0.385
## asr_scr_withdrawn_t:parent_rules_q7              3.286e-02  4.520e-02   0.727
## asr_scr_withdrawn_t:su_risk_p_1                 -4.410e-02  2.501e-02  -1.764
## asr_scr_withdrawn_t:su_risk_p_2_3                4.093e-02  3.430e-02   1.194
## asr_scr_withdrawn_t:su_risk_p_4_5               2.843e-02  3.670e-02   0.775
## asr_scr_withdrawn_t:neighborhood1_2_3_p         -1.402e-02  2.854e-02  -0.491
## asr_scr_withdrawn_t:neighborhood_crime_y         3.810e-02  2.318e-02   1.644
## asr_scr_withdrawn_t:sexM                         8.635e-02  5.153e-02   1.676
## asr_scr_somatic_t:asr_scr_thought_t              8.011e-03  1.202e-02   0.667
## asr_scr_somatic_t:asr_scr_attention_t            1.756e-02  2.025e-02   0.867
## asr_scr_somatic_t:asr_scr_aggressive_t           2.057e-02  1.844e-02   1.115
```

```
## asr_scr_somatic_t:asr_scr_rulebreak_t           7.578e-03   1.465e-02    0.517
## asr_scr_somatic_t:asr_scr_intrusive_t           1.885e-02   1.538e-02    1.226
## asr_scr_somatic_t:asr_scr_internal_t            1.597e-02   2.036e-02    0.784
## asr_scr_somatic_t:asr_scr_external_t            1.045e-02   1.608e-02    0.650
## asr_scr_somatic_t:asr_scr_totprob_t            -4.129e-02   3.019e-02   -1.368
## asr_scr_somatic_t:asr_scr_depress_t             3.162e-02   1.079e-02    2.930
## asr_scr_somatic_t:asr_scr_anxdisord_t           1.502e-02   1.156e-02    1.299
## asr_scr_somatic_t:asr_scr_somaticpr_t          -1.174e-03   3.442e-03   -0.341
## asr_scr_somatic_t:asr_scr_avoidant_t            4.877e-03   1.314e-02    0.371
## asr_scr_somatic_t:asr_scr_adhd_t                1.037e-02   4.565e-02    0.227
## asr_scr_somatic_t:asr_scr_antisocial_t         -1.337e-02   1.773e-02   -0.754
## asr_scr_somatic_t:asr_scr_inattention_t        -1.472e-02   2.776e-02   -0.530
## asr_scr_somatic_t:asr_scr_hyperactive_t        -5.427e-02   3.116e-02   -1.742
## asr_scr_somatic_t:crpbi_bothcare                3.130e-03   5.905e-03    0.530
## asr_scr_somatic_t:parent_monitor_y            -4.972e-02   8.235e-02   -0.604
## asr_scr_somatic_t:kbi_p_conflict               -2.439e-01   1.055e-01   -2.312
## asr_scr_somatic_t:kbi_p_c_best_friend           4.375e-03   5.520e-02    0.079
## asr_scr_somatic_t:kbi_p_c_reg_friend_group     -1.333e-01   8.626e-02   -1.545
## asr_scr_somatic_t:kbi_p_c_bully                 1.904e-01   1.083e-01    1.758
## asr_scr_somatic_t:kbi_p_c_mh_sa                -1.628e-01   1.042e-01   -1.562
## asr_scr_somatic_t:fes_youth                    -1.282e-02   2.042e-02   -0.628
## asr_scr_somatic_t:fes_p_ss_fc_pr               -6.941e-03   2.281e-02   -0.304
## asr_scr_somatic_t:macv_p_ss_fs                  2.578e-02   9.808e-02    0.263
## asr_scr_somatic_t:macv_p_ss_fo                  1.230e-01   9.379e-02    1.311
## asr_scr_somatic_t:macv_p_ss_isr               -8.584e-02   7.278e-02   -1.179
## asr_scr_somatic_t:macv_p_ss_fr                 -1.191e-01   8.180e-02   -1.455
## asr_scr_somatic_t:macv_p_ss_r                   4.520e-02   4.997e-02    0.905
## asr_scr_somatic_t:demo_prnt_age_v2              3.751e-03   6.507e-03    0.576
## asr_scr_somatic_t:demo_prnt_marital_v2          3.574e-03   2.861e-02    0.125
## asr_scr_somatic_t:demo_comb_income_v2           4.959e-02   2.502e-02    1.982
## asr_scr_somatic_t:demo_fam_exp                  5.847e-02   1.128e-01    0.518
## asr_scr_somatic_t:demo_yrs_1                   -3.290e-02   4.278e-02   -0.769
## asr_scr_somatic_t:demo_yrs_2                   -2.246e-02   5.992e-02   -0.375
## asr_scr_somatic_t:parent_rules_q1              -4.517e-02   7.731e-02   -0.584
## asr_scr_somatic_t:parent_rules_q4              8.629e-03   7.986e-02    0.108
## asr_scr_somatic_t:parent_rules_q7              2.414e-02   7.376e-02    0.327
## asr_scr_somatic_t:su_risk_p_1                  -3.316e-03   3.615e-02   -0.092
## asr_scr_somatic_t:su_risk_p_2_3                5.647e-03   5.615e-02    0.101
## asr_scr_somatic_t:su_risk_p_4_5                6.513e-03   6.270e-02    0.104
## asr_scr_somatic_t:neighborhood1_2_3_p          6.309e-02   4.679e-02    1.348
## asr_scr_somatic_t:neighborhood_crime_y        -4.757e-02   3.984e-02   -1.194
## asr_scr_somatic_t:sexM                         5.845e-02   7.892e-02    0.741
## asr_scr_thought_t:asr_scr_attention_t          6.042e-03   9.386e-03    0.644
## asr_scr_thought_t:asr_scr_aggressive_t         1.206e-02   8.798e-03    1.371
## asr_scr_thought_t:asr_scr_rulebreak_t          1.226e-03   6.893e-03    0.178
## asr_scr_thought_t:asr_scr_intrusive_t          2.638e-03   6.857e-03    0.385
## asr_scr_thought_t:asr_scr_internal_t           7.689e-03   9.584e-03    0.802
## asr_scr_thought_t:asr_scr_external_t           5.558e-04   8.341e-03    0.067
## asr_scr_thought_t:asr_scr_totprob_t           -1.295e-02   1.406e-02   -0.921
## asr_scr_thought_t:asr_scr_depress_t           -4.313e-03   7.379e-03   -0.584
## asr_scr_thought_t:asr_scr_anxdisord_t          4.681e-03   5.517e-03    0.848
```

```
## asr_scr_thought_t:asr_scr_somaticpr_t               -7.842e-03  9.442e-03  -0.831
## asr_scr_thought_t:asr_scr_avoidant_t                -1.129e-02  5.954e-03  -1.897
## asr_scr_thought_t:asr_scr_adhd_t                     3.751e-02  2.029e-02   1.848
## asr_scr_thought_t:asr_scr_antisocial_t               2.096e-03  8.271e-03   0.253
## asr_scr_thought_t:asr_scr_inattention_t             -2.716e-02  1.326e-02  -2.048
## asr_scr_thought_t:asr_scr_hyperactive_t             -1.916e-02  1.322e-02  -1.449
## asr_scr_thought_t:crpbi_bothcare                     2.143e-03  2.944e-03   0.728
## asr_scr_thought_t:parent_monitor_y                   3.437e-02  3.877e-02   0.887
## asr_scr_thought_t:kbi_p_conflict                     8.865e-02  5.757e-02   1.540
## asr_scr_thought_t:kbi_p_c_best_friend                9.183e-03  2.584e-02   0.355
## asr_scr_thought_t:kbi_p_c_reg_friend_group          -7.744e-02  3.926e-02  -1.972
## asr_scr_thought_t:kbi_p_c_bully                     -8.744e-02  4.945e-02  -1.768
## asr_scr_thought_t:kbi_p_c_mh_sa                      4.817e-02  5.416e-02   0.889
## asr_scr_thought_t:fes_youth                         -8.992e-03  1.039e-02  -0.865
## asr_scr_thought_t:fes_p_ss_fc_pr                    -9.058e-03  1.063e-02  -0.852
## asr_scr_thought_t:macv_p_ss_fs                       2.883e-02  4.421e-02   0.652
## asr_scr_thought_t:macv_p_ss_fo                      -1.388e-01  4.316e-02  -3.217
## asr_scr_thought_t:macv_p_ss_isr                      7.401e-02  3.595e-02   2.059
## asr_scr_thought_t:macv_p_ss_fr                       2.422e-02  4.020e-02   0.603
## asr_scr_thought_t:macv_p_ss_r                       -3.927e-03  2.554e-02  -0.154
## asr_scr_thought_t:demo_prnt_age_v2                   4.321e-04  3.265e-03   0.132
## asr_scr_thought_t:demo_prnt_marital_v2               5.501e-04  1.469e-02   0.037
## asr_scr_thought_t:demo_comb_income_v2                1.087e-02  1.131e-02   0.961
## asr_scr_thought_t:demo_fam_exp                       3.424e-02  5.105e-02   0.671
## asr_scr_thought_t:demo_yrs_1                        -7.391e-03  2.034e-02  -0.363
## asr_scr_thought_t:demo_yrs_2                        -2.592e-02  3.019e-02  -0.859
## asr_scr_thought_t:parent_rules_q1                   -5.339e-02  4.270e-02  -1.251
## asr_scr_thought_t:parent_rules_q4                    8.369e-02  4.306e-02   1.944
## asr_scr_thought_t:parent_rules_q7                   -9.019e-02  3.533e-02  -2.553
## asr_scr_thought_t:su_risk_p_1                        1.440e-02  1.857e-02   0.776
## asr_scr_thought_t:su_risk_p_2_3                      5.567e-03  2.803e-02   0.199
## asr_scr_thought_t:su_risk_p_4_5                     -4.257e-02  2.974e-02  -1.432
## asr_scr_thought_t:neighborhood1_2_3_p               5.035e-03  2.228e-02   0.226
## asr_scr_thought_t:neighborhood_crime_y              7.512e-03  1.761e-02   0.427
## asr_scr_thought_t:sexM                              -4.869e-05  3.912e-02  -0.001
## asr_scr_attention_t:asr_scr_aggressive_t            -8.617e-03  1.590e-02  -0.542
## asr_scr_attention_t:asr_scr_rulebreak_t              2.908e-03  1.264e-02   0.230
## asr_scr_attention_t:asr_scr_intrusive_t              9.813e-03  1.221e-02   0.803
## asr_scr_attention_t:asr_scr_internal_t               5.068e-03  1.586e-02   0.320
## asr_scr_attention_t:asr_scr_external_t               2.719e-03  1.275e-02   0.213
## asr_scr_attention_t:asr_scr_totprob_t                2.955e-03  2.493e-02   0.119
## asr_scr_attention_t:asr_scr_depress_t                5.809e-05  1.201e-02   0.005
## asr_scr_attention_t:asr_scr_anxdisord_t             -8.852e-03  9.752e-03  -0.908
## asr_scr_attention_t:asr_scr_somaticpr_t             -5.639e-03  1.613e-02  -0.350
## asr_scr_attention_t:asr_scr_avoidant_t              -2.853e-02  1.126e-02  -2.534
## asr_scr_attention_t:asr_scr_adhd_t                  -2.070e-03  2.336e-02  -0.089
## asr_scr_attention_t:asr_scr_antisocial_t            -6.642e-03  1.447e-02  -0.459
## asr_scr_attention_t:asr_scr_inattention_t            1.955e-03  1.429e-02   0.137
## asr_scr_attention_t:asr_scr_hyperactive_t           -1.381e-03  1.877e-02  -0.074
## asr_scr_attention_t:crpbi_bothcare                  -4.336e-03  5.092e-03  -0.851
## asr_scr_attention_t:parent_monitor_y                 1.090e-02  7.318e-02   0.149
```

```
## asr_scr_attention_t:kbi_p_conflict                  6.772e-02  8.779e-02   0.771
## asr_scr_attention_t:kbi_p_c_best_friend             2.479e-03  4.876e-02   0.051
## asr_scr_attention_t:kbi_p_c_reg_friend_group       -1.159e-02  7.123e-02  -0.163
## asr_scr_attention_t:kbi_p_c_bully                  -2.422e-01  9.436e-02  -2.567
## asr_scr_attention_t:kbi_p_c_mh_sa                   2.756e-01  9.530e-02   2.892
## asr_scr_attention_t:fes_youth                       9.678e-03  1.806e-02   0.536
## asr_scr_attention_t:fes_p_ss_fc_pr                  4.165e-02  1.869e-02   2.228
## asr_scr_attention_t:macv_p_ss_fs                    2.375e-01  8.200e-02   2.897
## asr_scr_attention_t:macv_p_ss_fo                    5.568e-02  7.881e-02   0.706
## asr_scr_attention_t:macv_p_ss_isr                   1.076e-01  6.067e-02   1.774
## asr_scr_attention_t:macv_p_ss_fr                   -4.877e-02  6.741e-02  -0.724
## asr_scr_attention_t:macv_p_ss_r                    -3.627e-02  4.296e-02  -0.844
## asr_scr_attention_t:demo_prnt_age_v2               -4.877e-03  5.729e-03  -0.851
## asr_scr_attention_t:demo_prnt_marital_v2           -2.962e-02  2.608e-02  -1.136
## asr_scr_attention_t:demo_comb_income_v2            -5.842e-03  2.149e-02  -0.272
## asr_scr_attention_t:demo_fam_exp                   -1.358e-01  9.657e-02  -1.406
## asr_scr_attention_t:demo_yrs_1                      2.631e-02  3.673e-02   0.716
## asr_scr_attention_t:demo_yrs_2                     -1.106e-02  5.229e-02  -0.212
## asr_scr_attention_t:parent_rules_q1                -5.560e-03  6.542e-02  -0.085
## asr_scr_attention_t:parent_rules_q4                -9.278e-02  6.891e-02  -1.346
## asr_scr_attention_t:parent_rules_q7                 7.521e-02  5.915e-02   1.271
## asr_scr_attention_t:su_risk_p_1                    -7.612e-03  2.995e-02  -0.254
## asr_scr_attention_t:su_risk_p_2_3                   4.301e-02  4.699e-02   0.915
## asr_scr_attention_t:su_risk_p_4_5                  -4.437e-02  5.428e-02  -0.818
## asr_scr_attention_t:neighborhood1_2_3_p             3.971e-03  3.935e-02   0.101
## asr_scr_attention_t:neighborhood_crime_y           -5.114e-02  3.397e-02  -1.506
## asr_scr_attention_t:sexM                           -4.043e-02  6.695e-02  -0.604
## asr_scr_aggressive_t:asr_scr_rulebreak_t           -4.958e-03  7.517e-03  -0.660
## asr_scr_aggressive_t:asr_scr_intrusive_t            7.738e-03  8.633e-03   0.896
## asr_scr_aggressive_t:asr_scr_internal_t             3.483e-02  1.436e-02   2.426
## asr_scr_aggressive_t:asr_scr_external_t             1.478e-02  9.724e-03   1.520
## asr_scr_aggressive_t:asr_scr_totprob_t             -4.984e-02  2.246e-02  -2.219
## asr_scr_aggressive_t:asr_scr_depress_t              8.888e-05  1.144e-02   0.008
## asr_scr_aggressive_t:asr_scr_anxdisord_t           -1.918e-02  9.445e-03  -2.030
## asr_scr_aggressive_t:asr_scr_somaticpr_t           -1.017e-02  1.496e-02  -0.679
## asr_scr_aggressive_t:asr_scr_avoidant_t             1.292e-02  9.535e-03   1.355
## asr_scr_aggressive_t:asr_scr_adhd_t                 1.616e-02  3.222e-02   0.502
## asr_scr_aggressive_t:asr_scr_antisocial_t           8.681e-03  1.141e-02   0.761
## asr_scr_aggressive_t:asr_scr_inattention_t         -6.742e-04  2.060e-02  -0.033
## asr_scr_aggressive_t:asr_scr_hyperactive_t         -2.713e-02  2.216e-02  -1.224
## asr_scr_aggressive_t:crpbi_bothcare                 9.663e-04  4.380e-03   0.221
## asr_scr_aggressive_t:parent_monitor_y               8.263e-02  6.158e-02   1.342
## asr_scr_aggressive_t:kbi_p_conflict                -6.782e-03  6.846e-02  -0.099
## asr_scr_aggressive_t:kbi_p_c_best_friend            2.576e-02  3.971e-02   0.649
## asr_scr_aggressive_t:kbi_p_c_reg_friend_group      -1.122e-01  6.366e-02  -1.763
## asr_scr_aggressive_t:kbi_p_c_bully                 -2.069e-01  7.759e-02  -2.667
## asr_scr_aggressive_t:kbi_p_c_mh_sa                 -1.670e-01  7.447e-02  -2.243
## asr_scr_aggressive_t:fes_youth                      8.215e-03  1.466e-02   0.560
## asr_scr_aggressive_t:fes_p_ss_fc_pr                 2.694e-02  1.505e-02   1.790
## asr_scr_aggressive_t:macv_p_ss_fs                   3.278e-02  6.640e-02   0.494
## asr_scr_aggressive_t:macv_p_ss_fo                   1.751e-02  5.986e-02   0.292
```

```
## asr_scr_aggressive_t:macv_p_ss_isr               1.450e-03  5.227e-02   0.028
## asr_scr_aggressive_t:macv_p_ss_fr               -1.046e-01  5.699e-02  -1.836
## asr_scr_aggressive_t:macv_p_ss_r                 4.640e-04  3.592e-02   0.013
## asr_scr_aggressive_t:demo_prnt_age_v2           -1.602e-03  4.888e-03  -0.328
## asr_scr_aggressive_t:demo_prnt_marital_v2       -1.619e-02  2.121e-02  -0.763
## asr_scr_aggressive_t:demo_comb_income_v2         5.470e-03  1.807e-02   0.303
## asr_scr_aggressive_t:demo_fam_exp                9.198e-03  8.096e-02   0.114
## asr_scr_aggressive_t:demo_yrs_1                  1.300e-02  3.110e-02   0.418
## asr_scr_aggressive_t:demo_yrs_2                 -6.524e-02  4.408e-02  -1.480
## asr_scr_aggressive_t:parent_rules_q1            -7.261e-02  5.723e-02  -1.269
## asr_scr_aggressive_t:parent_rules_q4            -1.667e-02  6.136e-02  -0.272
## asr_scr_aggressive_t:parent_rules_q7             4.998e-02  5.573e-02   0.897
## asr_scr_aggressive_t:su_risk_p_1                -2.788e-02  2.644e-02  -1.054
## asr_scr_aggressive_t:su_risk_p_2_3               2.447e-02  4.015e-02   0.610
## asr_scr_aggressive_t:su_risk_p_4_5              -7.594e-02  4.294e-02  -1.768
## asr_scr_aggressive_t:neighborhood1_2_3_p         1.531e-02  3.286e-02   0.466
## asr_scr_aggressive_t:neighborhood_crime_y       -2.467e-03  2.669e-02  -0.092
## asr_scr_aggressive_t:sexM                       -8.480e-02  5.606e-02  -1.513
## asr_scr_rulebreak_t:asr_scr_intrusive_t         -1.429e-02  7.431e-03  -1.923
## asr_scr_rulebreak_t:asr_scr_internal_t           3.133e-02  1.281e-02   2.445
## asr_scr_rulebreak_t:asr_scr_external_t           2.244e-02  1.046e-02   2.145
## asr_scr_rulebreak_t:asr_scr_totprob_t           -4.110e-02  2.029e-02  -2.026
## asr_scr_rulebreak_t:asr_scr_depress_t           -6.443e-03  9.357e-03  -0.689
## asr_scr_rulebreak_t:asr_scr_anxdisord_t         -6.566e-04  7.010e-03  -0.094
## asr_scr_rulebreak_t:asr_scr_somaticpr_t         -1.393e-02  1.182e-02  -1.178
## asr_scr_rulebreak_t:asr_scr_avoidant_t           2.746e-03  8.121e-03   0.338
## asr_scr_rulebreak_t:asr_scr_adhd_t              -2.133e-02  2.649e-02  -0.805
## asr_scr_rulebreak_t:asr_scr_antisocial_t         9.021e-04  6.708e-03   0.134
## asr_scr_rulebreak_t:asr_scr_inattention_t        1.664e-02  1.666e-02   0.999
## asr_scr_rulebreak_t:asr_scr_hyperactive_t        4.013e-03  1.740e-02   0.231
## asr_scr_rulebreak_t:crpbi_bothcare               2.409e-03  3.436e-03   0.701
## asr_scr_rulebreak_t:parent_monitor_y             1.481e-02  4.955e-02   0.299
## asr_scr_rulebreak_t:kbi_p_conflict              -7.322e-02  5.922e-02  -1.236
## asr_scr_rulebreak_t:kbi_p_c_best_friend          3.483e-02  3.283e-02   1.061
## asr_scr_rulebreak_t:kbi_p_c_reg_friend_group    -5.115e-02  5.332e-02  -0.959
## asr_scr_rulebreak_t:kbi_p_c_bully                4.813e-02  6.656e-02   0.723
## asr_scr_rulebreak_t:kbi_p_c_mh_sa               -1.143e-01  6.881e-02  -1.661
## asr_scr_rulebreak_t:fes_youth                   -1.198e-02  1.207e-02  -0.993
## asr_scr_rulebreak_t:fes_p_ss_fc_pr               2.082e-02  1.361e-02   1.530
## asr_scr_rulebreak_t:macv_p_ss_fs                 5.475e-02  5.555e-02   0.986
## asr_scr_rulebreak_t:macv_p_ss_fo                -3.109e-02  5.077e-02  -0.612
## asr_scr_rulebreak_t:macv_p_ss_isr               -4.850e-02  4.558e-02  -1.064
## asr_scr_rulebreak_t:macv_p_ss_fr                -8.560e-02  4.573e-02  -1.872
## asr_scr_rulebreak_t:macv_p_ss_r                  7.811e-02  3.150e-02   2.480
## asr_scr_rulebreak_t:demo_prnt_age_v2             1.302e-03  4.244e-03   0.307
## asr_scr_rulebreak_t:demo_prnt_marital_v2        -2.583e-02  1.749e-02  -1.477
## asr_scr_rulebreak_t:demo_comb_income_v2          2.722e-02  1.663e-02   1.637
## asr_scr_rulebreak_t:demo_fam_exp                -1.187e-02  6.288e-02  -0.189
## asr_scr_rulebreak_t:demo_yrs_1                  -2.256e-02  2.612e-02  -0.864
## asr_scr_rulebreak_t:demo_yrs_2                  -6.252e-02  3.483e-02  -1.795
## asr_scr_rulebreak_t:parent_rules_q1             -9.474e-02  4.492e-02  -2.109
```

```
## asr_scr_rulebreak_t:parent_rules_q4              4.522e-02  4.631e-02   0.977
## asr_scr_rulebreak_t:parent_rules_q7              2.403e-02  4.297e-02   0.559
## asr_scr_rulebreak_t:su_risk_p_1                 -1.007e-02  2.102e-02  -0.479
## asr_scr_rulebreak_t:su_risk_p_2_3                6.046e-02  3.184e-02   1.899
## asr_scr_rulebreak_t:su_risk_p_4_5               -6.927e-02  3.328e-02  -2.081
## asr_scr_rulebreak_t:neighborhood1_2_3_p         -1.200e-02  2.746e-02  -0.437
## asr_scr_rulebreak_t:neighborhood_crime_y         3.448e-02  2.355e-02   1.464
## asr_scr_rulebreak_t:sexM                        -4.474e-02  4.600e-02  -0.973
## asr_scr_intrusive_t:asr_scr_internal_t          -1.824e-03  1.108e-02  -0.165
## asr_scr_intrusive_t:asr_scr_external_t           1.461e-02  1.099e-02   1.330
## asr_scr_intrusive_t:asr_scr_totprob_t           -2.506e-02  1.904e-02  -1.316
## asr_scr_intrusive_t:asr_scr_depress_t           -6.277e-03  9.164e-03  -0.685
## asr_scr_intrusive_t:asr_scr_anxdisord_t         -1.057e-02  7.909e-03  -1.336
## asr_scr_intrusive_t:asr_scr_somaticpr_t         -1.720e-03  1.202e-02  -0.143
## asr_scr_intrusive_t:asr_scr_avoidant_t          -7.118e-03  9.877e-03  -0.721
## asr_scr_intrusive_t:asr_scr_adhd_t               2.621e-03  2.992e-02   0.088
## asr_scr_intrusive_t:asr_scr_antisocial_t         1.476e-02  1.006e-02   1.467
## asr_scr_intrusive_t:asr_scr_inattention_t       -4.241e-03  1.771e-02  -0.240
## asr_scr_intrusive_t:asr_scr_hyperactive_t       -1.377e-02  1.975e-02  -0.697
## asr_scr_intrusive_t:crpbi_bothcare              -1.700e-03  3.697e-03  -0.460
## asr_scr_intrusive_t:parent_monitor_y             6.362e-02  4.912e-02   1.295
## asr_scr_intrusive_t:kbi_p_conflict              -3.777e-02  6.385e-02  -0.591
## asr_scr_intrusive_t:kbi_p_c_best_friend          1.350e-02  3.470e-02   0.389
## asr_scr_intrusive_t:kbi_p_c_reg_friend_group     5.487e-02  6.045e-02   0.908
## asr_scr_intrusive_t:kbi_p_c_bully                6.704e-03  6.754e-02   0.099
## asr_scr_intrusive_t:kbi_p_c_mh_sa                9.513e-02  6.924e-02   1.374
## asr_scr_intrusive_t:fes_youth                    3.360e-03  1.372e-02   0.245
## asr_scr_intrusive_t:fes_p_ss_fc_pr               2.455e-04  1.339e-02   0.018
## asr_scr_intrusive_t:macv_p_ss_fs                -1.699e-02  5.512e-02  -0.308
## asr_scr_intrusive_t:macv_p_ss_fo                 6.258e-02  5.246e-02   1.193
## asr_scr_intrusive_t:macv_p_ss_isr               -3.998e-02  4.512e-02  -0.886
## asr_scr_intrusive_t:macv_p_ss_fr                 4.251e-03  4.874e-02   0.087
## asr_scr_intrusive_t:macv_p_ss_r                  9.517e-03  3.159e-02   0.301
## asr_scr_intrusive_t:demo_prnt_age_v2            -1.610e-03  4.255e-03  -0.378
## asr_scr_intrusive_t:demo_prnt_marital_v2         2.456e-02  1.844e-02   1.332
## asr_scr_intrusive_t:demo_comb_income_v2         -1.007e-03  1.667e-02  -0.060
## asr_scr_intrusive_t:demo_fam_exp                -1.521e-01  7.795e-02  -1.951
## asr_scr_intrusive_t:demo_yrs_1                   2.175e-02  2.822e-02   0.771
## asr_scr_intrusive_t:demo_yrs_2                  -4.585e-02  3.920e-02  -1.170
## asr_scr_intrusive_t:parent_rules_q1              6.866e-02  5.569e-02   1.233
## asr_scr_intrusive_t:parent_rules_q4             -5.448e-03  5.718e-02  -0.095
## asr_scr_intrusive_t:parent_rules_q7             -5.696e-02  4.914e-02  -1.159
## asr_scr_intrusive_t:su_risk_p_1                 -3.471e-02  2.067e-02  -1.680
## asr_scr_intrusive_t:su_risk_p_2_3               -4.755e-03  3.388e-02  -0.140
## asr_scr_intrusive_t:su_risk_p_4_5               -2.847e-02  3.509e-02  -0.811
## asr_scr_intrusive_t:neighborhood1_2_3_p          3.137e-02  2.858e-02   1.098
## asr_scr_intrusive_t:neighborhood_crime_y        -5.018e-02  2.420e-02  -2.073
## asr_scr_intrusive_t:sexM                        -3.315e-02  4.765e-02  -0.696
## asr_scr_internal_t:asr_scr_external_t           -6.076e-03  6.510e-03  -0.933
## asr_scr_internal_t:asr_scr_totprob_t            -2.941e-03  5.207e-03  -0.565
## asr_scr_internal_t:asr_scr_depress_t            -2.820e-02  1.618e-02  -1.744
```

```
## asr_scr_internal_t:asr_scr_anxdisord_t          1.526e-02  1.486e-02   1.027
## asr_scr_internal_t:asr_scr_somaticpr_t         -9.665e-03  1.664e-02  -0.581
## asr_scr_internal_t:asr_scr_avoidant_t          -2.513e-02  1.711e-02  -1.468
## asr_scr_internal_t:asr_scr_adhd_t              -2.221e-02  3.780e-02  -0.587
## asr_scr_internal_t:asr_scr_antisocial_t        -4.560e-03  1.417e-02  -0.322
## asr_scr_internal_t:asr_scr_inattention_t        1.759e-02  2.260e-02   0.778
## asr_scr_internal_t:asr_scr_hyperactive_t        2.322e-02  2.743e-02   0.846
## asr_scr_internal_t:crpbi_bothcare              -2.070e-03  3.909e-03  -0.529
## asr_scr_internal_t:parent_monitor_y             1.915e-02  5.414e-02   0.354
## asr_scr_internal_t:kbi_p_conflict               6.084e-02  6.550e-02   0.929
## asr_scr_internal_t:kbi_p_c_best_friend          2.068e-02  3.687e-02   0.561
## asr_scr_internal_t:kbi_p_c_reg_friend_group     7.209e-02  6.236e-02   1.156
## asr_scr_internal_t:kbi_p_c_bully               -1.055e-01  7.747e-02  -1.362
## asr_scr_internal_t:kbi_p_c_mh_sa                9.129e-02  6.469e-02   1.411
## asr_scr_internal_t:fes_youth                    1.580e-02  1.335e-02   1.183
## asr_scr_internal_t:fes_p_ss_fc_pr              -3.953e-02  1.485e-02  -2.662
## asr_scr_internal_t:macv_p_ss_fs                 1.038e-01  6.553e-02   1.584
## asr_scr_internal_t:macv_p_ss_fo                -4.180e-02  5.714e-02  -0.731
## asr_scr_internal_t:macv_p_ss_isr               -3.665e-03  4.808e-02  -0.076
## asr_scr_internal_t:macv_p_ss_fr                 9.138e-03  5.152e-02   0.177
## asr_scr_internal_t:macv_p_ss_r                 -6.573e-03  3.299e-02  -0.199
## asr_scr_internal_t:demo_prnt_age_v2            -3.681e-03  4.261e-03  -0.864
## asr_scr_internal_t:demo_prnt_marital_v2         3.102e-02  1.957e-02   1.585
## asr_scr_internal_t:demo_comb_income_v2          1.806e-02  1.583e-02   1.141
## asr_scr_internal_t:demo_fam_exp                -6.594e-02  8.166e-02  -0.807
## asr_scr_internal_t:demo_yrs_1                   5.247e-03  2.856e-02   0.184
## asr_scr_internal_t:demo_yrs_2                  -5.879e-02  3.927e-02  -1.497
## asr_scr_internal_t:parent_rules_q1              3.473e-02  5.201e-02   0.668
## asr_scr_internal_t:parent_rules_q4              6.093e-03  5.678e-02   0.107
## asr_scr_internal_t:parent_rules_q7             -1.036e-01  5.223e-02  -1.984
## asr_scr_internal_t:su_risk_p_1                  6.542e-03  2.356e-02   0.278
## asr_scr_internal_t:su_risk_p_2_3                1.574e-03  3.802e-02   0.041
## asr_scr_internal_t:su_risk_p_4_5              -8.547e-03  4.408e-02  -0.194
## asr_scr_internal_t:neighborhood1_2_3_p          1.243e-02  3.205e-02   0.388
## asr_scr_internal_t:neighborhood_crime_y        -2.035e-02  2.565e-02  -0.793
## asr_scr_internal_t:sexM                         8.448e-02  5.147e-02   1.641
## asr_scr_external_t:asr_scr_totprob_t            1.466e-02  6.242e-03   2.349
## asr_scr_external_t:asr_scr_depress_t           -2.404e-03  1.096e-02  -0.219
## asr_scr_external_t:asr_scr_anxdisord_t          1.298e-02  9.282e-03   1.399
## asr_scr_external_t:asr_scr_somaticpr_t         -1.391e-02  1.278e-02  -1.089
## asr_scr_external_t:asr_scr_avoidant_t          -1.863e-02  8.522e-03  -2.186
## asr_scr_external_t:asr_scr_adhd_t              -2.047e-02  2.595e-02  -0.789
## asr_scr_external_t:asr_scr_antisocial_t        -1.640e-02  1.543e-02  -1.063
## asr_scr_external_t:asr_scr_inattention_t        8.761e-03  1.619e-02   0.541
## asr_scr_external_t:asr_scr_hyperactive_t        1.990e-02  2.056e-02   0.968
## asr_scr_external_t:crpbi_bothcare              -1.753e-03  3.173e-03  -0.553
## asr_scr_external_t:parent_monitor_y            -1.454e-02  4.503e-02  -0.323
## asr_scr_external_t:kbi_p_conflict               2.202e-02  5.415e-02   0.407
## asr_scr_external_t:kbi_p_c_best_friend          3.412e-03  2.863e-02   0.119
## asr_scr_external_t:kbi_p_c_reg_friend_group     8.838e-02  4.928e-02   1.794
## asr_scr_external_t:kbi_p_c_bully                5.783e-03  5.851e-02   0.099
```

```
## asr_scr_external_t:kbi_p_c_mh_sa                  9.506e-02  5.202e-02   1.827
## asr_scr_external_t:fes_youth                     -2.698e-03  1.122e-02  -0.241
## asr_scr_external_t:fes_p_ss_fc_pr                -6.354e-03  1.257e-02  -0.505
## asr_scr_external_t:macv_p_ss_fs                   1.071e-01  5.154e-02   2.077
## asr_scr_external_t:macv_p_ss_fo                  -1.032e-01  4.725e-02  -2.184
## asr_scr_external_t:macv_p_ss_isr                 -4.699e-02  3.653e-02  -1.286
## asr_scr_external_t:macv_p_ss_fr                   6.525e-02  4.142e-02   1.575
## asr_scr_external_t:macv_p_ss_r                   -1.672e-02  2.711e-02  -0.617
## asr_scr_external_t:demo_prnt_age_v2              -5.522e-03  3.381e-03  -1.633
## asr_scr_external_t:demo_prnt_marital_v2          -1.842e-04  1.544e-02  -0.012
## asr_scr_external_t:demo_comb_income_v2           -3.528e-03  1.246e-02  -0.283
## asr_scr_external_t:demo_fam_exp                   4.164e-02  6.008e-02   0.693
## asr_scr_external_t:demo_yrs_1                     2.015e-02  2.242e-02   0.899
## asr_scr_external_t:demo_yrs_2                    -1.479e-03  3.235e-02  -0.046
## asr_scr_external_t:parent_rules_q1                3.601e-02  4.332e-02   0.831
## asr_scr_external_t:parent_rules_q4                2.805e-02  4.542e-02   0.618
## asr_scr_external_t:parent_rules_q7               -5.965e-02  4.326e-02  -1.379
## asr_scr_external_t:su_risk_p_1                    1.225e-02  1.911e-02   0.641
## asr_scr_external_t:su_risk_p_2_3                 -3.725e-02  3.225e-02  -1.155
## asr_scr_external_t:su_risk_p_4_5                  6.606e-02  3.685e-02   1.793
## asr_scr_external_t:neighborhood1_2_3_p            2.658e-02  2.511e-02   1.059
## asr_scr_external_t:neighborhood_crime_y          -5.672e-03  2.014e-02  -0.282
## asr_scr_external_t:sexM                           7.686e-02  4.080e-02   1.884
## asr_scr_totprob_t:asr_scr_depress_t               9.508e-03  2.283e-02   0.416
## asr_scr_totprob_t:asr_scr_anxdisord_t            -2.253e-02  1.827e-02  -1.234
## asr_scr_totprob_t:asr_scr_somaticpr_t             3.262e-02  2.382e-02   1.370
## asr_scr_totprob_t:asr_scr_avoidant_t              3.617e-02  1.902e-02   1.901
## asr_scr_totprob_t:asr_scr_adhd_t                  5.266e-02  5.837e-02   0.902
## asr_scr_totprob_t:asr_scr_antisocial_t            2.367e-03  2.433e-02   0.097
## asr_scr_totprob_t:asr_scr_inattention_t          -2.553e-02  3.563e-02  -0.716
## asr_scr_totprob_t:asr_scr_hyperactive_t          -3.914e-03  3.961e-02  -0.099
## asr_scr_totprob_t:crpbi_bothcare                  1.554e-03  5.411e-03   0.287
## asr_scr_totprob_t:parent_monitor_y               -6.247e-02  7.727e-02  -0.809
## asr_scr_totprob_t:kbi_p_conflict                 -6.062e-02  9.374e-02  -0.647
## asr_scr_totprob_t:kbi_p_c_best_friend            -3.527e-03  4.891e-02  -0.072
## asr_scr_totprob_t:kbi_p_c_reg_friend_group       -7.848e-02  8.435e-02  -0.930
## asr_scr_totprob_t:kbi_p_c_bully                   9.188e-02  1.021e-01   0.899
## asr_scr_totprob_t:kbi_p_c_mh_sa                  -1.359e-01  9.235e-02  -1.471
## asr_scr_totprob_t:fes_youth                      -1.392e-02  1.841e-02  -0.756
## asr_scr_totprob_t:fes_p_ss_fc_pr                  6.091e-03  2.109e-02   0.289
## asr_scr_totprob_t:macv_p_ss_fs                   -1.830e-01  8.739e-02  -2.094
## asr_scr_totprob_t:macv_p_ss_fo                    1.264e-01  7.835e-02   1.613
## asr_scr_totprob_t:macv_p_ss_isr                   2.555e-02  6.453e-02   0.396
## asr_scr_totprob_t:macv_p_ss_fr                   -4.280e-02  7.007e-02  -0.611
## asr_scr_totprob_t:macv_p_ss_r                     2.888e-02  4.491e-02   0.643
## asr_scr_totprob_t:demo_prnt_age_v2                6.118e-03  5.928e-03   1.032
## asr_scr_totprob_t:demo_prnt_marital_v2           -1.302e-03  2.738e-02  -0.048
## asr_scr_totprob_t:demo_comb_income_v2            -1.099e-02  2.132e-02  -0.515
## asr_scr_totprob_t:demo_fam_exp                    1.743e-02  1.105e-01   0.158
## asr_scr_totprob_t:demo_yrs_1                     -1.334e-02  3.924e-02  -0.340
## asr_scr_totprob_t:demo_yrs_2                      3.784e-02  5.524e-02   0.685
```

```
## asr_scr_totprob_t:parent_rules_q1              -8.509e-03  7.593e-02  -0.112
## asr_scr_totprob_t:parent_rules_q4              -7.582e-02  7.787e-02  -0.974
## asr_scr_totprob_t:parent_rules_q7               1.574e-01  7.397e-02   2.128
## asr_scr_totprob_t:su_risk_p_1                   1.069e-02  3.289e-02   0.325
## asr_scr_totprob_t:su_risk_p_2_3                 2.265e-02  5.455e-02   0.415
## asr_scr_totprob_t:su_risk_p_4_5                -4.593e-02  6.316e-02  -0.727
## asr_scr_totprob_t:neighborhood1_2_3_p          -8.279e-02  4.377e-02  -1.891
## asr_scr_totprob_t:neighborhood_crime_y          2.593e-02  3.455e-02   0.751
## asr_scr_totprob_t:sexM                         -1.574e-01  7.037e-02  -2.236
## asr_scr_depress_t:asr_scr_anxdisord_t          -3.752e-03  6.604e-03  -0.568
## asr_scr_depress_t:asr_scr_somaticpr_t          -2.154e-02  8.849e-03  -2.434
## asr_scr_depress_t:asr_scr_avoidant_t            2.097e-03  7.150e-03   0.293
## asr_scr_depress_t:asr_scr_adhd_t                3.028e-02  2.461e-02   1.231
## asr_scr_depress_t:asr_scr_antisocial_t         -1.218e-03  1.033e-02  -0.118
## asr_scr_depress_t:asr_scr_inattention_t        -2.312e-02  1.538e-02  -1.504
## asr_scr_depress_t:asr_scr_hyperactive_t        -1.802e-02  1.704e-02  -1.057
## asr_scr_depress_t:crpbi_bothcare                2.383e-03  3.854e-03   0.618
## asr_scr_depress_t:parent_monitor_y             -2.951e-02  5.204e-02  -0.567
## asr_scr_depress_t:kbi_p_conflict                4.556e-02  6.487e-02   0.702
## asr_scr_depress_t:kbi_p_c_best_friend          -2.956e-02  3.491e-02  -0.847
## asr_scr_depress_t:kbi_p_c_reg_friend_group      6.778e-02  5.584e-02   1.214
## asr_scr_depress_t:kbi_p_c_bully                 2.564e-02  7.377e-02   0.348
## asr_scr_depress_t:kbi_p_c_mh_sa                -6.458e-02  6.962e-02  -0.928
## asr_scr_depress_t:fes_youth                    -9.364e-03  1.264e-02  -0.741
## asr_scr_depress_t:fes_p_ss_fc_pr                1.071e-02  1.381e-02   0.776
## asr_scr_depress_t:macv_p_ss_fs                 -1.847e-01  6.293e-02  -2.936
## asr_scr_depress_t:macv_p_ss_fo                 -3.332e-02  5.959e-02  -0.559
## asr_scr_depress_t:macv_p_ss_isr                 4.143e-02  4.909e-02   0.844
## asr_scr_depress_t:macv_p_ss_fr                  1.058e-01  5.106e-02   2.073
## asr_scr_depress_t:macv_p_ss_r                   3.483e-02  3.198e-02   1.089
## asr_scr_depress_t:demo_prnt_age_v2             -8.675e-03  4.433e-03  -1.957
## asr_scr_depress_t:demo_prnt_marital_v2         -1.154e-02  1.938e-02  -0.596
## asr_scr_depress_t:demo_comb_income_v2          -1.786e-03  1.588e-02  -0.113
## asr_scr_depress_t:demo_fam_exp                 -7.224e-02  7.039e-02  -1.026
## asr_scr_depress_t:demo_yrs_1                   -3.936e-03  2.764e-02  -0.142
## asr_scr_depress_t:demo_yrs_2                   -2.481e-03  3.931e-02  -0.063
## asr_scr_depress_t:parent_rules_q1              -5.144e-02  5.171e-02  -0.995
## asr_scr_depress_t:parent_rules_q4               2.783e-02  5.119e-02   0.544
## asr_scr_depress_t:parent_rules_q7               2.539e-02  4.842e-02   0.524
## asr_scr_depress_t:su_risk_p_1                  -1.239e-02  2.290e-02  -0.541
## asr_scr_depress_t:su_risk_p_2_3                 3.075e-02  3.217e-02   0.956
## asr_scr_depress_t:su_risk_p_4_5                 5.240e-03  3.737e-02   0.140
## asr_scr_depress_t:neighborhood1_2_3_p          -5.310e-02  2.914e-02  -1.822
## asr_scr_depress_t:neighborhood_crime_y          2.203e-02  2.490e-02   0.885
## asr_scr_depress_t:sexM                         -1.231e-04  4.977e-02  -0.002
## asr_scr_anxdisord_t:asr_scr_somaticpr_t        -1.280e-02  9.341e-03  -1.370
## asr_scr_anxdisord_t:asr_scr_avoidant_t          1.249e-02  5.689e-03   2.195
## asr_scr_anxdisord_t:asr_scr_adhd_t              2.953e-02  2.106e-02   1.402
## asr_scr_anxdisord_t:asr_scr_antisocial_t        1.462e-02  8.234e-03   1.776
## asr_scr_anxdisord_t:asr_scr_inattention_t      -5.498e-03  1.337e-02  -0.411
## asr_scr_anxdisord_t:asr_scr_hyperactive_t      -1.817e-02  1.421e-02  -1.279
```

```
## asr_scr_anxdisord_t:crpbi_bothcare              2.882e-03  3.061e-03   0.942
## asr_scr_anxdisord_t:parent_monitor_y            1.193e-01  4.668e-02   2.556
## asr_scr_anxdisord_t:kbi_p_conflict             -1.185e-01  5.819e-02  -2.037
## asr_scr_anxdisord_t:kbi_p_c_best_friend        -1.129e-02  3.026e-02  -0.373
## asr_scr_anxdisord_t:kbi_p_c_reg_friend_group    2.673e-02  4.253e-02   0.629
## asr_scr_anxdisord_t:kbi_p_c_bully               3.804e-02  5.471e-02   0.695
## asr_scr_anxdisord_t:kbi_p_c_mh_sa              -1.929e-03  5.648e-02  -0.034
## asr_scr_anxdisord_t:fes_youth                   3.240e-03  1.127e-02   0.288
## asr_scr_anxdisord_t:fes_p_ss_fc_pr              2.557e-02  1.105e-02   2.315
## asr_scr_anxdisord_t:macv_p_ss_fs               -7.585e-02  5.226e-02  -1.451
## asr_scr_anxdisord_t:macv_p_ss_fo                1.246e-02  4.422e-02   0.282
## asr_scr_anxdisord_t:macv_p_ss_isr               3.896e-03  3.728e-02   0.104
## asr_scr_anxdisord_t:macv_p_ss_fr                3.994e-02  4.131e-02   0.967
## asr_scr_anxdisord_t:macv_p_ss_r                 2.563e-02  2.639e-02   0.971
## asr_scr_anxdisord_t:demo_prnt_age_v2           -9.991e-03  3.700e-03  -2.700
## asr_scr_anxdisord_t:demo_prnt_marital_v2       -1.380e-02  1.594e-02  -0.866
## asr_scr_anxdisord_t:demo_comb_income_v2         7.135e-03  1.227e-02   0.581
## asr_scr_anxdisord_t:demo_fam_exp                7.201e-02  5.980e-02   1.204
## asr_scr_anxdisord_t:demo_yrs_1                  8.947e-03  2.278e-02   0.393
## asr_scr_anxdisord_t:demo_yrs_2                 -3.716e-02  3.163e-02  -1.175
## asr_scr_anxdisord_t:parent_rules_q1            -1.881e-03  4.175e-02  -0.045
## asr_scr_anxdisord_t:parent_rules_q4             7.263e-02  4.386e-02   1.656
## asr_scr_anxdisord_t:parent_rules_q7            -6.938e-02  4.227e-02  -1.641
## asr_scr_anxdisord_t:su_risk_p_1               -5.980e-04  1.943e-02  -0.031
## asr_scr_anxdisord_t:su_risk_p_2_3             -2.381e-02  2.975e-02  -0.800
## asr_scr_anxdisord_t:su_risk_p_4_5              5.558e-02  3.211e-02   1.731
## asr_scr_anxdisord_t:neighborhood1_2_3_p        4.501e-02  2.486e-02   1.811
## asr_scr_anxdisord_t:neighborhood_crime_y      -2.658e-02  2.116e-02  -1.256
## asr_scr_anxdisord_t:sexM                      -5.576e-03  4.044e-02  -0.138
## asr_scr_somaticpr_t:asr_scr_avoidant_t        -1.425e-04  1.032e-02  -0.014
## asr_scr_somaticpr_t:asr_scr_adhd_t            -1.975e-02  3.643e-02  -0.542
## asr_scr_somaticpr_t:asr_scr_antisocial_t       2.432e-03  1.449e-02   0.168
## asr_scr_somaticpr_t:asr_scr_inattention_t      1.304e-02  2.220e-02   0.587
## asr_scr_somaticpr_t:asr_scr_hyperactive_t      4.890e-02  2.426e-02   2.015
## asr_scr_somaticpr_t:crpbi_bothcare             1.281e-03  4.860e-03   0.263
## asr_scr_somaticpr_t:parent_monitor_y           1.399e-02  6.652e-02   0.210
## asr_scr_somaticpr_t:kbi_p_conflict             1.839e-01  8.592e-02   2.140
## asr_scr_somaticpr_t:kbi_p_c_best_friend       -4.383e-02  4.477e-02  -0.979
## asr_scr_somaticpr_t:kbi_p_c_reg_friend_group   5.990e-02  6.858e-02   0.873
## asr_scr_somaticpr_t:kbi_p_c_bully             -8.294e-02  8.705e-02  -0.953
## asr_scr_somaticpr_t:kbi_p_c_mh_sa              7.724e-02  8.411e-02   0.918
## asr_scr_somaticpr_t:fes_youth                 -6.262e-04  1.646e-02  -0.038
## asr_scr_somaticpr_t:fes_p_ss_fc_pr             2.214e-02  1.870e-02   1.184
## asr_scr_somaticpr_t:macv_p_ss_fs               1.766e-02  7.766e-02   0.227
## asr_scr_somaticpr_t:macv_p_ss_fo              -7.095e-02  7.535e-02  -0.942
## asr_scr_somaticpr_t:macv_p_ss_isr              8.938e-02  5.853e-02   1.527
## asr_scr_somaticpr_t:macv_p_ss_fr               3.554e-02  6.570e-02   0.541
## asr_scr_somaticpr_t:macv_p_ss_r               -5.354e-02  3.899e-02  -1.373
## asr_scr_somaticpr_t:demo_prnt_age_v2          -3.575e-03  5.277e-03  -0.677
## asr_scr_somaticpr_t:demo_prnt_marital_v2      -4.208e-03  2.366e-02  -0.178
## asr_scr_somaticpr_t:demo_comb_income_v2       -3.505e-02  2.027e-02  -1.729
```

```
## asr_scr_somaticpr_t:demo_fam_exp                    6.646e-02  9.085e-02   0.732
## asr_scr_somaticpr_t:demo_yrs_1                      1.404e-02  3.454e-02   0.407
## asr_scr_somaticpr_t:demo_yrs_2                      6.840e-02  4.724e-02   1.448
## asr_scr_somaticpr_t:parent_rules_q1                 3.475e-02  6.039e-02   0.575
## asr_scr_somaticpr_t:parent_rules_q4                 1.550e-02  6.504e-02   0.238
## asr_scr_somaticpr_t:parent_rules_q7               -8.887e-03  6.052e-02  -0.147
## asr_scr_somaticpr_t:su_risk_p_1                   -9.536e-03  2.878e-02  -0.331
## asr_scr_somaticpr_t:su_risk_p_2_3                   2.189e-02  4.552e-02   0.481
## asr_scr_somaticpr_t:su_risk_p_4_5                 -1.988e-03  5.068e-02  -0.039
## asr_scr_somaticpr_t:neighborhood1_2_3_p           -1.347e-02  3.764e-02  -0.358
## asr_scr_somaticpr_t:neighborhood_crime_y            4.954e-02  3.205e-02   1.546
## asr_scr_somaticpr_t:sexM                          -1.090e-01  6.360e-02  -1.714
## asr_scr_avoidant_t:asr_scr_adhd_t                   7.086e-02  2.274e-02   3.116
## asr_scr_avoidant_t:asr_scr_antisocial_t             6.140e-03  9.492e-03   0.647
## asr_scr_avoidant_t:asr_scr_inattention_t          -2.932e-02  1.448e-02  -2.024
## asr_scr_avoidant_t:asr_scr_hyperactive_t          -4.126e-02  1.587e-02  -2.600
## asr_scr_avoidant_t:crpbi_bothcare                   5.966e-03  3.325e-03   1.794
## asr_scr_avoidant_t:parent_monitor_y                 6.186e-02  4.678e-02   1.322
## asr_scr_avoidant_t:kbi_p_conflict                 -3.094e-02  5.787e-02  -0.535
## asr_scr_avoidant_t:kbi_p_c_best_friend            -9.853e-03  2.861e-02  -0.344
## asr_scr_avoidant_t:kbi_p_c_reg_friend_group         4.607e-02  4.696e-02   0.981
## asr_scr_avoidant_t:kbi_p_c_bully                    2.263e-02  5.801e-02   0.390
## asr_scr_avoidant_t:kbi_p_c_mh_sa                  -2.408e-02  5.770e-02  -0.417
## asr_scr_avoidant_t:fes_youth                        3.461e-03  1.121e-02   0.309
## asr_scr_avoidant_t:fes_p_ss_fc_pr                   3.149e-02  1.153e-02   2.732
## asr_scr_avoidant_t:macv_p_ss_fs                     1.493e-01  5.248e-02   2.845
## asr_scr_avoidant_t:macv_p_ss_fo                   -1.003e-01  4.922e-02  -2.038
## asr_scr_avoidant_t:macv_p_ss_isr                  -1.965e-02  3.927e-02  -0.500
## asr_scr_avoidant_t:macv_p_ss_fr                     1.216e-01  4.485e-02   2.711
## asr_scr_avoidant_t:macv_p_ss_r                    -1.583e-02  2.655e-02  -0.596
## asr_scr_avoidant_t:demo_prnt_age_v2               -7.242e-04  3.722e-03  -0.195
## asr_scr_avoidant_t:demo_prnt_marital_v2           -1.854e-02  1.791e-02  -1.035
## asr_scr_avoidant_t:demo_comb_income_v2              1.761e-02  1.395e-02   1.262
## asr_scr_avoidant_t:demo_fam_exp                     1.414e-01  6.463e-02   2.187
## asr_scr_avoidant_t:demo_yrs_1                       3.566e-02  2.318e-02   1.538
## asr_scr_avoidant_t:demo_yrs_2                     -7.409e-02  3.437e-02  -2.156
## asr_scr_avoidant_t:parent_rules_q1                  3.041e-02  4.292e-02   0.709
## asr_scr_avoidant_t:parent_rules_q4                  7.493e-03  4.544e-02   0.165
## asr_scr_avoidant_t:parent_rules_q7                  3.021e-02  3.825e-02   0.790
## asr_scr_avoidant_t:su_risk_p_1                      9.780e-03  2.003e-02   0.488
## asr_scr_avoidant_t:su_risk_p_2_3                    6.175e-03  3.311e-02   0.187
## asr_scr_avoidant_t:su_risk_p_4_5                  -2.091e-02  3.624e-02  -0.577
## asr_scr_avoidant_t:neighborhood1_2_3_p            -1.144e-02  2.625e-02  -0.436
## asr_scr_avoidant_t:neighborhood_crime_y           -7.574e-04  2.200e-02  -0.034
## asr_scr_avoidant_t:sexM                           -5.867e-02  4.315e-02  -1.360
## asr_scr_adhd_t:asr_scr_antisocial_t                 2.471e-02  2.974e-02   0.831
## asr_scr_adhd_t:asr_scr_inattention_t              -9.809e-03  8.017e-03  -1.223
## asr_scr_adhd_t:asr_scr_hyperactive_t                5.076e-04  7.703e-03   0.066
## asr_scr_adhd_t:crpbi_bothcare                     -5.766e-03  1.050e-02  -0.549
## asr_scr_adhd_t:parent_monitor_y                     8.388e-02  1.505e-01   0.557
## asr_scr_adhd_t:kbi_p_conflict                     -3.935e-02  1.714e-01  -0.230
```

```
## asr_scr_adhd_t:kbi_p_c_best_friend              -7.246e-02  8.889e-02  -0.815
## asr_scr_adhd_t:kbi_p_c_reg_friend_group         -6.288e-02  1.462e-01  -0.430
## asr_scr_adhd_t:kbi_p_c_bully                     -3.592e-01  2.114e-01  -1.699
## asr_scr_adhd_t:kbi_p_c_mh_sa                     -5.900e-01  2.012e-01  -2.933
## asr_scr_adhd_t:fes_youth                         -3.485e-02  3.645e-02  -0.956
## asr_scr_adhd_t:fes_p_ss_fc_pr                    -5.387e-02  3.798e-02  -1.418
## asr_scr_adhd_t:macv_p_ss_fs                       2.978e-02  1.614e-01   0.185
## asr_scr_adhd_t:macv_p_ss_fo                       1.605e-01  1.498e-01   1.071
## asr_scr_adhd_t:macv_p_ss_isr                     -2.335e-01  1.251e-01  -1.867
## asr_scr_adhd_t:macv_p_ss_fr                       3.818e-02  1.350e-01   0.283
## asr_scr_adhd_t:macv_p_ss_r                       -1.447e-01  9.054e-02  -1.598
## asr_scr_adhd_t:demo_prnt_age_v2                   1.808e-02  1.152e-02   1.569
## asr_scr_adhd_t:demo_prnt_marital_v2              1.161e-01  5.363e-02   2.164
## asr_scr_adhd_t:demo_comb_income_v2               1.509e-03  4.563e-02   0.033
## asr_scr_adhd_t:demo_fam_exp                      -2.558e-03  1.961e-01  -0.013
## asr_scr_adhd_t:demo_yrs_1                        -2.175e-02  7.458e-02  -0.292
## asr_scr_adhd_t:demo_yrs_2                         1.777e-01  1.079e-01   1.646
## asr_scr_adhd_t:parent_rules_q1                   -2.051e-01  1.378e-01  -1.489
## asr_scr_adhd_t:parent_rules_q4                    1.277e-01  1.413e-01   0.904
## asr_scr_adhd_t:parent_rules_q7                    1.540e-02  1.302e-01   0.118
## asr_scr_adhd_t:su_risk_p_1                        1.466e-02  5.997e-02   0.244
## asr_scr_adhd_t:su_risk_p_2_3                      6.768e-02  9.404e-02   0.720
## asr_scr_adhd_t:su_risk_p_4_5                     -1.282e-01  1.070e-01  -1.199
## asr_scr_adhd_t:neighborhood1_2_3_p               3.242e-02  8.016e-02   0.404
## asr_scr_adhd_t:neighborhood_crime_y              -4.305e-02  6.682e-02  -0.644
## asr_scr_adhd_t:sexM                               1.285e-02  1.381e-01   0.093
## asr_scr_antisocial_t:asr_scr_inattention_t       -7.474e-03  1.867e-02  -0.400
## asr_scr_antisocial_t:asr_scr_hyperactive_t       -6.647e-03  1.920e-02  -0.346
## asr_scr_antisocial_t:crpbi_bothcare               9.509e-04  4.117e-03   0.231
## asr_scr_antisocial_t:parent_monitor_y            -9.944e-02  5.905e-02  -1.684
## asr_scr_antisocial_t:kbi_p_conflict              -6.666e-02  7.146e-02  -0.933
## asr_scr_antisocial_t:kbi_p_c_best_friend         -2.180e-02  3.756e-02  -0.581
## asr_scr_antisocial_t:kbi_p_c_reg_friend_group    9.046e-02  6.079e-02   1.488
## asr_scr_antisocial_t:kbi_p_c_bully                6.025e-02  7.440e-02   0.810
## asr_scr_antisocial_t:kbi_p_c_mh_sa                9.630e-02  8.052e-02   1.196
## asr_scr_antisocial_t:fes_youth                    1.475e-02  1.446e-02   1.020
## asr_scr_antisocial_t:fes_p_ss_fc_pr               2.499e-03  1.517e-02   0.165
## asr_scr_antisocial_t:macv_p_ss_fs                -1.287e-02  6.902e-02  -0.186
## asr_scr_antisocial_t:macv_p_ss_fo                 6.608e-03  5.672e-02   0.117
## asr_scr_antisocial_t:macv_p_ss_isr               9.818e-03  5.426e-02   0.181
## asr_scr_antisocial_t:macv_p_ss_fr                 8.967e-02  5.419e-02   1.655
## asr_scr_antisocial_t:macv_p_ss_r                 -2.398e-02  3.587e-02  -0.668
## asr_scr_antisocial_t:demo_prnt_age_v2             5.205e-03  4.782e-03   1.088
## asr_scr_antisocial_t:demo_prnt_marital_v2         2.053e-02  2.049e-02   1.002
## asr_scr_antisocial_t:demo_comb_income_v2         -1.514e-02  1.774e-02  -0.853
## asr_scr_antisocial_t:demo_fam_exp                 5.759e-02  7.637e-02   0.754
## asr_scr_antisocial_t:demo_yrs_1                   6.708e-03  3.139e-02   0.214
## asr_scr_antisocial_t:demo_yrs_2                   2.867e-02  4.270e-02   0.671
## asr_scr_antisocial_t:parent_rules_q1             7.252e-02  5.367e-02   1.351
## asr_scr_antisocial_t:parent_rules_q4             -5.809e-02  5.469e-02  -1.062
## asr_scr_antisocial_t:parent_rules_q7             -2.041e-02  4.996e-02  -0.409
```

```
## asr_scr_antisocial_t:su_risk_p_1                   4.685e-02  2.628e-02   1.782
## asr_scr_antisocial_t:su_risk_p_2_3                -7.453e-02  3.963e-02  -1.881
## asr_scr_antisocial_t:su_risk_p_4_5                 5.264e-02  4.098e-02   1.284
## asr_scr_antisocial_t:neighborhood1_2_3_p           5.155e-03  3.323e-02   0.155
## asr_scr_antisocial_t:neighborhood_crime_y         -3.283e-02  2.645e-02  -1.241
## asr_scr_antisocial_t:sexM                          -3.740e-03  5.499e-02  -0.068
## asr_scr_inattention_t:asr_scr_hyperactive_t        5.176e-03  1.115e-02   0.464
## asr_scr_inattention_t:crpbi_bothcare               5.218e-03  6.564e-03   0.795
## asr_scr_inattention_t:parent_monitor_y            -4.718e-02  9.008e-02  -0.524
## asr_scr_inattention_t:kbi_p_conflict               2.362e-03  1.047e-01   0.023
## asr_scr_inattention_t:kbi_p_c_best_friend          2.244e-02  5.542e-02   0.405
## asr_scr_inattention_t:kbi_p_c_reg_friend_group    -4.573e-03  9.236e-02  -0.050
## asr_scr_inattention_t:kbi_p_c_bully                2.610e-01  1.290e-01   2.024
## asr_scr_inattention_t:kbi_p_c_mh_sa                1.122e-01  1.242e-01   0.903
## asr_scr_inattention_t:fes_youth                    1.503e-02  2.217e-02   0.678
## asr_scr_inattention_t:fes_p_ss_fc_pr              -4.363e-03  2.336e-02  -0.187
## asr_scr_inattention_t:macv_p_ss_fs               -1.777e-01  1.026e-01  -1.731
## asr_scr_inattention_t:macv_p_ss_fo               -1.201e-01  9.438e-02  -1.272
## asr_scr_inattention_t:macv_p_ss_isr               8.123e-02  7.876e-02   1.031
## asr_scr_inattention_t:macv_p_ss_fr                3.363e-02  8.754e-02   0.384
## asr_scr_inattention_t:macv_p_ss_r                 1.089e-01  5.618e-02   1.938
## asr_scr_inattention_t:demo_prnt_age_v2           -7.379e-03  7.032e-03  -1.049
## asr_scr_inattention_t:demo_prnt_marital_v2       -5.577e-02  3.336e-02  -1.672
## asr_scr_inattention_t:demo_comb_income_v2         1.439e-02  2.775e-02   0.519
## asr_scr_inattention_t:demo_fam_exp                9.055e-02  1.226e-01   0.739
## asr_scr_inattention_t:demo_yrs_1                 -6.170e-03  4.877e-02  -0.127
## asr_scr_inattention_t:demo_yrs_2                 -1.012e-01  6.893e-02  -1.468
## asr_scr_inattention_t:parent_rules_q1             1.162e-01  8.434e-02   1.377
## asr_scr_inattention_t:parent_rules_q4             2.071e-02  8.906e-02   0.233
## asr_scr_inattention_t:parent_rules_q7            -6.977e-02  7.832e-02  -0.891
## asr_scr_inattention_t:su_risk_p_1                -2.116e-02  3.675e-02  -0.576
## asr_scr_inattention_t:su_risk_p_2_3              -6.165e-02  5.721e-02  -1.078
## asr_scr_inattention_t:su_risk_p_4_5               1.190e-01  6.622e-02   1.798
## asr_scr_inattention_t:neighborhood1_2_3_p        -2.183e-02  4.980e-02  -0.438
## asr_scr_inattention_t:neighborhood_crime_y        8.537e-02  4.234e-02   2.016
## asr_scr_inattention_t:sexM                        1.216e-01  8.381e-02   1.451
## asr_scr_hyperactive_t:crpbi_bothcare              5.387e-03  7.567e-03   0.712
## asr_scr_hyperactive_t:parent_monitor_y           -1.386e-01  1.047e-01  -1.323
## asr_scr_hyperactive_t:kbi_p_conflict              1.353e-01  1.201e-01   1.126
## asr_scr_hyperactive_t:kbi_p_c_best_friend         2.152e-02  6.337e-02   0.340
## asr_scr_hyperactive_t:kbi_p_c_reg_friend_group    1.287e-01  1.151e-01   1.119
## asr_scr_hyperactive_t:kbi_p_c_bully               3.653e-01  1.416e-01   2.579
## asr_scr_hyperactive_t:kbi_p_c_mh_sa               5.920e-01  1.372e-01   4.315
## asr_scr_hyperactive_t:fes_youth                   2.227e-02  2.429e-02   0.917
## asr_scr_hyperactive_t:fes_p_ss_fc_pr              2.245e-02  2.619e-02   0.857
## asr_scr_hyperactive_t:macv_p_ss_fs                2.651e-02  1.109e-01   0.239
## asr_scr_hyperactive_t:macv_p_ss_fo               -7.888e-02  1.023e-01  -0.771
## asr_scr_hyperactive_t:macv_p_ss_isr               1.626e-01  8.733e-02   1.861
## asr_scr_hyperactive_t:macv_p_ss_fr               -8.647e-02  9.467e-02  -0.913
## asr_scr_hyperactive_t:macv_p_ss_r                 2.959e-02  6.371e-02   0.464
## asr_scr_hyperactive_t:demo_prnt_age_v2           -9.619e-03  8.409e-03  -1.144
```

```
## asr_scr_hyperactive_t:demo_prnt_marital_v2      -3.342e-02  3.703e-02  -0.902
## asr_scr_hyperactive_t:demo_comb_income_v2       -1.761e-02  3.270e-02  -0.539
## asr_scr_hyperactive_t:demo_fam_exp              -7.081e-02  1.368e-01  -0.518
## asr_scr_hyperactive_t:demo_yrs_1                -4.380e-03  5.099e-02  -0.086
## asr_scr_hyperactive_t:demo_yrs_2                -1.661e-03  7.301e-02  -0.023
## asr_scr_hyperactive_t:parent_rules_q1            1.020e-01  9.186e-02   1.110
## asr_scr_hyperactive_t:parent_rules_q4           -7.404e-02  9.805e-02  -0.755
## asr_scr_hyperactive_t:parent_rules_q7           -2.732e-02  8.808e-02  -0.310
## asr_scr_hyperactive_t:su_risk_p_1               1.919e-02  4.163e-02   0.461
## asr_scr_hyperactive_t:su_risk_p_2_3             -1.016e-01  6.560e-02  -1.549
## asr_scr_hyperactive_t:su_risk_p_4_5             1.019e-01  7.332e-02   1.390
## asr_scr_hyperactive_t:neighborhood1_2_3_p       -3.547e-02  5.495e-02  -0.645
## asr_scr_hyperactive_t:neighborhood_crime_y      -4.057e-02  4.806e-02  -0.844
## asr_scr_hyperactive_t:sexM                       1.099e-01  9.771e-02   1.125
## crpbi_bothcare:parent_monitor_y                  3.879e-02  1.810e-02   2.143
## crpbi_bothcare:kbi_p_conflict                   -4.164e-03  2.205e-02  -0.189
## crpbi_bothcare:kbi_p_c_best_friend              -4.512e-03  1.200e-02  -0.376
## crpbi_bothcare:kbi_p_c_reg_friend_group          2.038e-02  1.991e-02   1.024
## crpbi_bothcare:kbi_p_c_bully                     9.131e-02  2.433e-02   3.753
## crpbi_bothcare:kbi_p_c_mh_sa                     1.959e-02  2.256e-02   0.868
## crpbi_bothcare:fes_youth                         2.541e-03  4.534e-03   0.561
## crpbi_bothcare:fes_p_ss_fc_pr                    2.519e-03  4.811e-03   0.524
## crpbi_bothcare:macv_p_ss_fs                     -3.618e-02  2.119e-02  -1.707
## crpbi_bothcare:macv_p_ss_fo                      1.353e-02  1.874e-02   0.722
## crpbi_bothcare:macv_p_ss_isr                    -8.704e-03  1.578e-02  -0.552
## crpbi_bothcare:macv_p_ss_fr                      5.880e-03  1.736e-02   0.339
## crpbi_bothcare:macv_p_ss_r                       6.413e-03  1.104e-02   0.581
## crpbi_bothcare:demo_prnt_age_v2                  9.783e-04  1.409e-03   0.694
## crpbi_bothcare:demo_prnt_marital_v2             -1.636e-03  6.552e-03  -0.250
## crpbi_bothcare:demo_comb_income_v2               2.701e-03  5.331e-03   0.507
## crpbi_bothcare:demo_fam_exp                      1.484e-02  2.548e-02   0.583
## crpbi_bothcare:demo_yrs_1                       -6.840e-03  9.277e-03  -0.737
## crpbi_bothcare:demo_yrs_2                        8.116e-03  1.330e-02   0.610
## crpbi_bothcare:parent_rules_q1                   5.020e-03  1.658e-02   0.303
## crpbi_bothcare:parent_rules_q4                   1.444e-02  1.738e-02   0.831
## crpbi_bothcare:parent_rules_q7                  -2.143e-02  1.631e-02  -1.314
## crpbi_bothcare:su_risk_p_1                       4.360e-03  7.749e-03   0.563
## crpbi_bothcare:su_risk_p_2_3                    -3.680e-02  1.263e-02  -2.914
## crpbi_bothcare:su_risk_p_4_5                     1.765e-02  1.372e-02   1.286
## crpbi_bothcare:neighborhood1_2_3_p               6.821e-03  1.035e-02   0.659
## crpbi_bothcare:neighborhood_crime_y             -6.650e-03  8.446e-03  -0.787
## crpbi_bothcare:sexM                              1.988e-02  1.681e-02   1.183
## parent_monitor_y:kbi_p_conflict                 -7.018e-02  3.170e-01  -0.221
## parent_monitor_y:kbi_p_c_best_friend             2.809e-02  1.560e-01   0.180
## parent_monitor_y:kbi_p_c_reg_friend_group        4.564e-01  2.542e-01   1.795
## parent_monitor_y:kbi_p_c_bully                  -2.026e-01  3.311e-01  -0.612
## parent_monitor_y:kbi_p_c_mh_sa                  -3.997e-01  3.167e-01  -1.262
## parent_monitor_y:fes_youth                       1.469e-02  5.820e-02   0.252
## parent_monitor_y:fes_p_ss_fc_pr                  2.799e-02  6.598e-02   0.424
## parent_monitor_y:macv_p_ss_fs                    4.086e-02  3.000e-01   0.136
## parent_monitor_y:macv_p_ss_fo                    1.000e-01  2.726e-01   0.367
```

```
## parent_monitor_y:macv_p_ss_isr                      1.528e-01  2.227e-01   0.686
## parent_monitor_y:macv_p_ss_fr                       8.931e-03  2.425e-01   0.037
## parent_monitor_y:macv_p_ss_r                        1.087e-02  1.585e-01   0.069
## parent_monitor_y:demo_prnt_age_v2                  -2.469e-02  1.956e-02  -1.262
## parent_monitor_y:demo_prnt_marital_v2              1.022e-01  8.418e-02   1.214
## parent_monitor_y:demo_comb_income_v2               -2.572e-02  6.961e-02  -0.369
## parent_monitor_y:demo_fam_exp                      2.821e-01  3.217e-01   0.877
## parent_monitor_y:demo_yrs_1                        -3.384e-02  1.256e-01  -0.270
## parent_monitor_y:demo_yrs_2                        -1.362e-01  1.830e-01  -0.744
## parent_monitor_y:parent_rules_q1                   -8.165e-03  2.485e-01  -0.033
## parent_monitor_y:parent_rules_q4                   6.992e-01  2.815e-01   2.484
## parent_monitor_y:parent_rules_q7                   -6.938e-01  2.432e-01  -2.853
## parent_monitor_y:su_risk_p_1                       6.486e-02  1.114e-01   0.582
## parent_monitor_y:su_risk_p_2_3                     -6.441e-02  1.770e-01  -0.364
## parent_monitor_y:su_risk_p_4_5                     8.224e-02  1.948e-01   0.422
## parent_monitor_y:neighborhood1_2_3_p              3.721e-02  1.389e-01   0.268
## parent_monitor_y:neighborhood_crime_y             1.705e-01  1.047e-01   1.629
## parent_monitor_y:sexM                              -7.724e-02  2.421e-01  -0.319
## kbi_p_conflict:kbi_p_c_best_friend                 6.742e-02  1.996e-01   0.338
## kbi_p_conflict:kbi_p_c_reg_friend_group           -1.502e-01  3.460e-01  -0.434
## kbi_p_conflict:kbi_p_c_bully                       -8.498e-01  4.256e-01  -1.997
## kbi_p_conflict:kbi_p_c_mh_sa                       7.647e-01  3.971e-01   1.926
## kbi_p_conflict:fes_youth                           3.961e-02  7.541e-02   0.525
## kbi_p_conflict:fes_p_ss_fc_pr                      9.113e-02  8.239e-02   1.106
## kbi_p_conflict:macv_p_ss_fs                        2.502e-01  3.477e-01   0.720
## kbi_p_conflict:macv_p_ss_fo                        -3.693e-01  3.330e-01  -1.109
## kbi_p_conflict:macv_p_ss_isr                       1.342e-01  2.742e-01   0.489
## kbi_p_conflict:macv_p_ss_fr                        2.736e-01  2.920e-01   0.937
## kbi_p_conflict:macv_p_ss_r                         -2.362e-01  1.869e-01  -1.264
## kbi_p_conflict:demo_prnt_age_v2                    1.376e-02  2.482e-02   0.554
## kbi_p_conflict:demo_prnt_marital_v2                4.139e-02  1.215e-01   0.341
## kbi_p_conflict:demo_comb_income_v2                 -7.007e-02  1.045e-01  -0.670
## kbi_p_conflict:demo_fam_exp                        5.673e-02  4.589e-01   0.124
## kbi_p_conflict:demo_yrs_1                          -1.573e-02  1.672e-01  -0.094
## kbi_p_conflict:demo_yrs_2                          4.201e-01  2.293e-01   1.832
## kbi_p_conflict:parent_rules_q1                     -1.135e-02  2.611e-01  -0.043
## kbi_p_conflict:parent_rules_q4                     4.184e-01  2.899e-01   1.444
## kbi_p_conflict:parent_rules_q7                     -1.994e-02  2.781e-01  -0.072
## kbi_p_conflict:su_risk_p_1                         4.559e-02  1.300e-01   0.351
## kbi_p_conflict:su_risk_p_2_3                       -1.510e-01  2.128e-01  -0.710
## kbi_p_conflict:su_risk_p_4_5                       2.604e-01  2.314e-01   1.126
## kbi_p_conflict:neighborhood1_2_3_p                1.178e-01  1.768e-01   0.667
## kbi_p_conflict:neighborhood_crime_y               1.075e-01  1.442e-01   0.746
## kbi_p_conflict:sexM                                1.238e-01  2.878e-01   0.430
## kbi_p_c_best_friend:kbi_p_c_reg_friend_group      2.715e-01  1.183e-01   2.294
## kbi_p_c_best_friend:kbi_p_c_bully                 1.478e-01  2.161e-01   0.684
## kbi_p_c_best_friend:kbi_p_c_mh_sa                 2.002e-01  2.045e-01   0.979
## kbi_p_c_best_friend:fes_youth                     7.990e-03  4.085e-02   0.196
## kbi_p_c_best_friend:fes_p_ss_fc_pr                -1.779e-02  4.617e-02  -0.385
## kbi_p_c_best_friend:macv_p_ss_fs                  3.685e-02  2.000e-01   0.184
## kbi_p_c_best_friend:macv_p_ss_fo                  -4.258e-01  1.794e-01  -2.373
```

```
## kbi_p_c_best_friend:macv_p_ss_isr                  2.137e-01  1.394e-01   1.532
## kbi_p_c_best_friend:macv_p_ss_fr                   1.590e-02  1.644e-01   0.097
## kbi_p_c_best_friend:macv_p_ss_r                    2.152e-02  1.019e-01   0.211
## kbi_p_c_best_friend:demo_prnt_age_v2               1.824e-03  1.333e-02   0.137
## kbi_p_c_best_friend:demo_prnt_marital_v2           3.539e-02  5.794e-02   0.611
## kbi_p_c_best_friend:demo_comb_income_v2           -5.226e-02  4.541e-02  -1.151
## kbi_p_c_best_friend:demo_fam_exp                   2.997e-01  2.267e-01   1.322
## kbi_p_c_best_friend:demo_yrs_1                     1.643e-02  8.466e-02   0.194
## kbi_p_c_best_friend:demo_yrs_2                    -1.765e-01  1.215e-01  -1.453
## kbi_p_c_best_friend:parent_rules_q1               -1.438e-01  1.444e-01  -0.995
## kbi_p_c_best_friend:parent_rules_q4               -3.655e-01  1.684e-01  -2.170
## kbi_p_c_best_friend:parent_rules_q7                3.271e-01  1.521e-01   2.150
## kbi_p_c_best_friend:su_risk_p_1                   -1.113e-02  7.050e-02  -0.158
## kbi_p_c_best_friend:su_risk_p_2_3                 -2.210e-02  1.358e-01  -0.163
## kbi_p_c_best_friend:su_risk_p_4_5                 -5.932e-02  1.376e-01  -0.431
## kbi_p_c_best_friend:neighborhood1_2_3_p            1.249e-01  8.938e-02   1.397
## kbi_p_c_best_friend:neighborhood_crime_y           9.787e-02  7.465e-02   1.311
## kbi_p_c_best_friend:sexM                           2.058e-01  1.606e-01   1.281
## kbi_p_c_reg_friend_group:kbi_p_c_bully            -1.122e-01  3.569e-01  -0.314
## kbi_p_c_reg_friend_group:kbi_p_c_mh_sa            -1.265e+00  3.644e-01  -3.472
## kbi_p_c_reg_friend_group:fes_youth               -7.199e-02  6.628e-02  -1.086
## kbi_p_c_reg_friend_group:fes_p_ss_fc_pr           1.034e-01  7.750e-02   1.334
## kbi_p_c_reg_friend_group:macv_p_ss_fs             2.380e-01  3.070e-01   0.775
## kbi_p_c_reg_friend_group:macv_p_ss_fo            -3.257e-01  2.774e-01  -1.174
## kbi_p_c_reg_friend_group:macv_p_ss_isr           -2.115e-01  2.444e-01  -0.865
## kbi_p_c_reg_friend_group:macv_p_ss_fr             1.326e-01  2.635e-01   0.503
## kbi_p_c_reg_friend_group:macv_p_ss_r              1.355e-01  1.747e-01   0.776
## kbi_p_c_reg_friend_group:demo_prnt_age_v2        -1.098e-02  1.869e-02  -0.587
## kbi_p_c_reg_friend_group:demo_prnt_marital_v2     7.649e-02  7.910e-02   0.967
## kbi_p_c_reg_friend_group:demo_comb_income_v2     -7.660e-03  6.481e-02  -0.118
## kbi_p_c_reg_friend_group:demo_fam_exp            -5.701e-01  3.373e-01  -1.690
## kbi_p_c_reg_friend_group:demo_yrs_1               5.807e-03  1.295e-01   0.045
## kbi_p_c_reg_friend_group:demo_yrs_2              -1.800e-01  1.874e-01  -0.960
## kbi_p_c_reg_friend_group:parent_rules_q1          1.745e-01  2.981e-01   0.585
## kbi_p_c_reg_friend_group:parent_rules_q4         -1.171e-01  2.911e-01  -0.402
## kbi_p_c_reg_friend_group:parent_rules_q7         -6.679e-02  2.771e-01  -0.241
## kbi_p_c_reg_friend_group:su_risk_p_1              2.394e-02  1.349e-01   0.177
## kbi_p_c_reg_friend_group:su_risk_p_2_3            8.545e-02  1.950e-01   0.438
## kbi_p_c_reg_friend_group:su_risk_p_4_5           -1.490e-01  1.991e-01  -0.748
## kbi_p_c_reg_friend_group:neighborhood1_2_3_p     -2.074e-01  1.351e-01  -1.535
## kbi_p_c_reg_friend_group:neighborhood_crime_y    -1.318e-01  1.199e-01  -1.099
## kbi_p_c_reg_friend_group:sexM                    -3.251e-02  2.694e-01  -0.121
## kbi_p_c_bully:kbi_p_c_mh_sa                       -3.590e-01  3.703e-01  -0.970
## kbi_p_c_bully:fes_youth                            1.285e-01  8.197e-02   1.568
## kbi_p_c_bully:fes_p_ss_fc_pr                       3.474e-02  9.385e-02   0.370
## kbi_p_c_bully:macv_p_ss_fs                        -4.332e-01  3.845e-01  -1.127
## kbi_p_c_bully:macv_p_ss_fo                         4.709e-01  3.553e-01   1.325
## kbi_p_c_bully:macv_p_ss_isr                       -5.530e-01  2.923e-01  -1.892
## kbi_p_c_bully:macv_p_ss_fr                        -3.902e-01  3.245e-01  -1.203
## kbi_p_c_bully:macv_p_ss_r                          1.198e-01  2.024e-01   0.592
## kbi_p_c_bully:demo_prnt_age_v2                    -2.388e-02  2.400e-02  -0.995
```

```
## kbi_p_c_bully:demo_prnt_marital_v2      8.417e-02  1.122e-01    0.750
## kbi_p_c_bully:demo_comb_income_v2       7.608e-03  8.854e-02    0.086
## kbi_p_c_bully:demo_fam_exp             -9.475e-01  4.216e-01   -2.247
## kbi_p_c_bully:demo_yrs_1              -1.619e-01  1.646e-01   -0.983
## kbi_p_c_bully:demo_yrs_2               2.084e-01  2.420e-01    0.861
## kbi_p_c_bully:parent_rules_q1         -3.000e-01  3.110e-01   -0.965
## kbi_p_c_bully:parent_rules_q4          9.422e-01  3.527e-01    2.672
## kbi_p_c_bully:parent_rules_q7         -4.043e-01  2.955e-01   -1.368
## kbi_p_c_bully:su_risk_p_1              2.127e-01  1.480e-01    1.437
## kbi_p_c_bully:su_risk_p_2_3            1.170e-01  2.259e-01    0.518
## kbi_p_c_bully:su_risk_p_4_5           -6.124e-01  2.516e-01   -2.434
## kbi_p_c_bully:neighborhood1_2_3_p      2.056e-02  1.746e-01    0.118
## kbi_p_c_bully:neighborhood_crime_y     4.163e-01  1.451e-01    2.869
## kbi_p_c_bully:sexM                     6.295e-02  3.183e-01    0.198
## kbi_p_c_mh_sa:fes_youth                8.535e-03  8.272e-02    0.103
## kbi_p_c_mh_sa:fes_p_ss_fc_pr           2.054e-02  8.905e-02    0.231
## kbi_p_c_mh_sa:macv_p_ss_fs             3.706e-01  3.686e-01    1.005
## kbi_p_c_mh_sa:macv_p_ss_fo            -4.053e-01  3.455e-01   -1.173
## kbi_p_c_mh_sa:macv_p_ss_isr            2.541e-01  2.915e-01    0.872
## kbi_p_c_mh_sa:macv_p_ss_fr             2.842e-01  2.987e-01    0.951
## kbi_p_c_mh_sa:macv_p_ss_r             -3.493e-01  1.941e-01   -1.799
## kbi_p_c_mh_sa:demo_prnt_age_v2        -6.032e-03  2.276e-02   -0.265
## kbi_p_c_mh_sa:demo_prnt_marital_v2     2.923e-01  1.169e-01    2.501
## kbi_p_c_mh_sa:demo_comb_income_v2     -6.667e-02  9.455e-02   -0.705
## kbi_p_c_mh_sa:demo_fam_exp            -1.860e-01  4.626e-01   -0.402
## kbi_p_c_mh_sa:demo_yrs_1              -3.720e-01  1.644e-01   -2.262
## kbi_p_c_mh_sa:demo_yrs_2               6.844e-01  2.347e-01    2.916
## kbi_p_c_mh_sa:parent_rules_q1         -3.510e-01  2.994e-01   -1.172
## kbi_p_c_mh_sa:parent_rules_q4         -6.392e-02  3.359e-01   -0.190
## kbi_p_c_mh_sa:parent_rules_q7          1.404e-01  3.033e-01    0.463
## kbi_p_c_mh_sa:su_risk_p_1              1.900e-02  1.340e-01    0.142
## kbi_p_c_mh_sa:su_risk_p_2_3            4.822e-01  2.223e-01    2.169
## kbi_p_c_mh_sa:su_risk_p_4_5           -2.153e-01  2.259e-01   -0.953
## kbi_p_c_mh_sa:neighborhood1_2_3_p     -2.619e-01  1.871e-01   -1.400
## kbi_p_c_mh_sa:neighborhood_crime_y     1.131e-01  1.479e-01    0.765
## kbi_p_c_mh_sa:sexM                     1.020e+00  3.090e-01    3.301
## fes_youth:fes_p_ss_fc_pr              -6.775e-03  1.616e-02   -0.419
## fes_youth:macv_p_ss_fs                 1.668e-03  7.312e-02    0.023
## fes_youth:macv_p_ss_fo                 7.790e-02  6.609e-02    1.179
## fes_youth:macv_p_ss_isr                4.989e-02  5.458e-02    0.914
## fes_youth:macv_p_ss_fr                -1.100e-02  5.928e-02   -0.186
## fes_youth:macv_p_ss_r                 -5.332e-02  3.711e-02   -1.437
## fes_youth:demo_prnt_age_v2            -4.289e-03  5.015e-03   -0.855
## fes_youth:demo_prnt_marital_v2        -1.653e-02  2.271e-02   -0.728
## fes_youth:demo_comb_income_v2         -1.305e-02  1.806e-02   -0.723
## fes_youth:demo_fam_exp                 2.005e-02  8.142e-02    0.246
## fes_youth:demo_yrs_1                   4.815e-02  3.110e-02    1.548
## fes_youth:demo_yrs_2                  -7.026e-02  4.636e-02   -1.515
## fes_youth:parent_rules_q1              1.419e-01  5.783e-02    2.453
## fes_youth:parent_rules_q4             -5.516e-02  6.421e-02   -0.859
## fes_youth:parent_rules_q7             -5.663e-02  6.068e-02   -0.933
```

```
## fes_youth:su_risk_p_1                          2.283e-02   2.748e-02    0.831
## fes_youth:su_risk_p_2_3                        2.687e-02   4.530e-02    0.593
## fes_youth:su_risk_p_4_5                        1.577e-02   5.110e-02    0.309
## fes_youth:neighborhood1_2_3_p                 -2.203e-02   3.452e-02   -0.638
## fes_youth:neighborhood_crime_y                -1.288e-02   2.667e-02   -0.483
## fes_youth:sexM                                -4.310e-02   5.818e-02   -0.741
## fes_p_ss_fc_pr:macv_p_ss_fs                   -1.047e-01   7.978e-02   -1.313
## fes_p_ss_fc_pr:macv_p_ss_fo                    8.054e-02   7.217e-02    1.116
## fes_p_ss_fc_pr:macv_p_ss_isr                  -1.205e-02   5.890e-02   -0.205
## fes_p_ss_fc_pr:macv_p_ss_fr                    7.106e-03   6.456e-02    0.110
## fes_p_ss_fc_pr:macv_p_ss_r                    -1.986e-02   4.243e-02   -0.468
## fes_p_ss_fc_pr:demo_prnt_age_v2                8.256e-03   5.344e-03    1.545
## fes_p_ss_fc_pr:demo_prnt_marital_v2            8.454e-03   2.446e-02    0.346
## fes_p_ss_fc_pr:demo_comb_income_v2             1.152e-02   1.992e-02    0.578
## fes_p_ss_fc_pr:demo_fam_exp                   -1.113e-01   9.153e-02   -1.216
## fes_p_ss_fc_pr:demo_yrs_1                      4.019e-02   3.417e-02    1.176
## fes_p_ss_fc_pr:demo_yrs_2                     -2.205e-02   5.001e-02   -0.441
## fes_p_ss_fc_pr:parent_rules_q1               -2.252e-02   6.446e-02   -0.349
## fes_p_ss_fc_pr:parent_rules_q4               -1.191e-01   6.941e-02   -1.716
## fes_p_ss_fc_pr:parent_rules_q7                4.273e-02   6.476e-02    0.660
## fes_p_ss_fc_pr:su_risk_p_1                    -1.947e-02   2.976e-02   -0.654
## fes_p_ss_fc_pr:su_risk_p_2_3                   8.597e-02   4.666e-02    1.842
## fes_p_ss_fc_pr:su_risk_p_4_5                  -7.449e-03   5.047e-02   -0.148
## fes_p_ss_fc_pr:neighborhood1_2_3_p            -9.789e-03   3.835e-02   -0.255
## fes_p_ss_fc_pr:neighborhood_crime_y            1.150e-02   3.022e-02    0.380
## fes_p_ss_fc_pr:sexM                            1.069e-01   6.363e-02    1.679
## macv_p_ss_fs:macv_p_ss_fo                     -2.699e-01   2.464e-01   -1.096
## macv_p_ss_fs:macv_p_ss_isr                    -2.385e-02   2.291e-01   -0.104
## macv_p_ss_fs:macv_p_ss_fr                      3.179e-01   2.161e-01    1.472
## macv_p_ss_fs:macv_p_ss_r                       2.959e-01   1.714e-01    1.726
## macv_p_ss_fs:demo_prnt_age_v2                 -3.672e-03   2.331e-02   -0.158
## macv_p_ss_fs:demo_prnt_marital_v2             -1.113e-01   1.009e-01   -1.102
## macv_p_ss_fs:demo_comb_income_v2              -8.428e-02   9.022e-02   -0.934
## macv_p_ss_fs:demo_fam_exp                     -1.884e-01   3.932e-01   -0.479
## macv_p_ss_fs:demo_yrs_1                       -1.457e-01   1.442e-01   -1.011
## macv_p_ss_fs:demo_yrs_2                       -2.558e-01   2.089e-01   -1.225
## macv_p_ss_fs:parent_rules_q1                  -5.135e-02   2.729e-01   -0.188
## macv_p_ss_fs:parent_rules_q4                  -2.339e-01   2.812e-01   -0.832
## macv_p_ss_fs:parent_rules_q7                   1.721e-01   2.804e-01    0.614
## macv_p_ss_fs:su_risk_p_1                       5.285e-02   1.242e-01    0.425
## macv_p_ss_fs:su_risk_p_2_3                     2.859e-01   1.878e-01    1.523
## macv_p_ss_fs:su_risk_p_4_5                    -1.990e-01   2.092e-01   -0.951
## macv_p_ss_fs:neighborhood1_2_3_p              -1.103e-01   1.606e-01   -0.687
## macv_p_ss_fs:neighborhood_crime_y             -1.190e-01   1.296e-01   -0.918
## macv_p_ss_fs:sexM                              1.759e-01   2.725e-01    0.646
## macv_p_ss_fo:macv_p_ss_isr                     3.986e-02   2.249e-01    0.177
## macv_p_ss_fo:macv_p_ss_fr                     -1.662e-01   1.826e-01   -0.910
## macv_p_ss_fo:macv_p_ss_r                      -1.286e-01   1.627e-01   -0.790
## macv_p_ss_fo:demo_prnt_age_v2                 -4.734e-02   2.162e-02   -2.190
## macv_p_ss_fo:demo_prnt_marital_v2              6.079e-02   1.025e-01    0.593
## macv_p_ss_fo:demo_comb_income_v2               4.461e-02   8.209e-02    0.543
```

```
## macv_p_ss_fo:demo_fam_exp                              8.068e-02   3.786e-01    0.213
## macv_p_ss_fo:demo_yrs_1                               -9.535e-02   1.326e-01   -0.719
## macv_p_ss_fo:demo_yrs_2                                2.986e-01   1.945e-01    1.535
## macv_p_ss_fo:parent_rules_q1                          -9.324e-02   2.486e-01   -0.375
## macv_p_ss_fo:parent_rules_q4                          -1.083e-01   2.616e-01   -0.414
## macv_p_ss_fo:parent_rules_q7                           1.764e-01   2.377e-01    0.742
## macv_p_ss_fo:su_risk_p_1                               5.014e-02   1.128e-01    0.445
## macv_p_ss_fo:su_risk_p_2_3                             1.633e-01   1.957e-01    0.834
## macv_p_ss_fo:su_risk_p_4_5                            -2.130e-01   2.094e-01   -1.017
## macv_p_ss_fo:neighborhood1_2_3_p                       3.235e-02   1.464e-01    0.221
## macv_p_ss_fo:neighborhood_crime_y                      3.465e-02   1.234e-01    0.281
## macv_p_ss_fo:sexM                                     -1.605e-01   2.490e-01   -0.645
## macv_p_ss_isr:macv_p_ss_fr                             1.440e-01   1.971e-01    0.731
## macv_p_ss_isr:macv_p_ss_r                              7.141e-02   1.298e-01    0.550
## macv_p_ss_isr:demo_prnt_age_v2                         1.030e-02   1.789e-02    0.576
## macv_p_ss_isr:demo_prnt_marital_v2                    -2.461e-02   7.276e-02   -0.338
## macv_p_ss_isr:demo_comb_income_v2                      5.865e-02   6.122e-02    0.958
## macv_p_ss_isr:demo_fam_exp                            -2.903e-01   2.956e-01   -0.982
## macv_p_ss_isr:demo_yrs_1                               4.555e-02   1.073e-01    0.424
## macv_p_ss_isr:demo_yrs_2                              -1.643e-01   1.530e-01   -1.074
## macv_p_ss_isr:parent_rules_q1                          4.054e-01   2.021e-01    2.006
## macv_p_ss_isr:parent_rules_q4                          1.279e-02   2.213e-01    0.058
## macv_p_ss_isr:parent_rules_q7                         -1.607e-01   2.038e-01   -0.789
## macv_p_ss_isr:su_risk_p_1                             -1.541e-01   9.513e-02   -1.620
## macv_p_ss_isr:su_risk_p_2_3                           -1.356e-01   1.508e-01   -0.899
## macv_p_ss_isr:su_risk_p_4_5                            4.482e-01   1.771e-01    2.531
## macv_p_ss_isr:neighborhood1_2_3_p                      2.128e-01   1.178e-01    1.807
## macv_p_ss_isr:neighborhood_crime_y                    -2.021e-01   1.001e-01   -2.020
## macv_p_ss_isr:sexM                                    -2.646e-01   2.027e-01   -1.305
## macv_p_ss_fr:macv_p_ss_r                              -4.080e-02   1.359e-01   -0.300
## macv_p_ss_fr:demo_prnt_age_v2                         -7.345e-03   1.955e-02   -0.376
## macv_p_ss_fr:demo_prnt_marital_v2                      7.582e-02   8.848e-02    0.857
## macv_p_ss_fr:demo_comb_income_v2                       3.518e-02   7.437e-02    0.473
## macv_p_ss_fr:demo_fam_exp                              2.210e-01   3.491e-01    0.633
## macv_p_ss_fr:demo_yrs_1                                1.033e-01   1.215e-01    0.851
## macv_p_ss_fr:demo_yrs_2                               -1.301e-02   1.739e-01   -0.075
## macv_p_ss_fr:parent_rules_q1                          -1.150e-01   2.227e-01   -0.517
## macv_p_ss_fr:parent_rules_q4                           3.088e-01   2.219e-01    1.392
## macv_p_ss_fr:parent_rules_q7                          -6.575e-02   2.222e-01   -0.296
## macv_p_ss_fr:su_risk_p_1                               3.558e-02   1.028e-01    0.346
## macv_p_ss_fr:su_risk_p_2_3                            -1.359e-01   1.653e-01   -0.822
## macv_p_ss_fr:su_risk_p_4_5                            -8.667e-02   1.849e-01   -0.469
## macv_p_ss_fr:neighborhood1_2_3_p                      -1.623e-01   1.357e-01   -1.196
## macv_p_ss_fr:neighborhood_crime_y                      1.530e-01   1.143e-01    1.338
## macv_p_ss_fr:sexM                                      2.005e-01   2.272e-01    0.883
## macv_p_ss_r:demo_prnt_age_v2                           7.547e-03   1.273e-02    0.593
## macv_p_ss_r:demo_prnt_marital_v2                       6.509e-02   5.421e-02    1.201
## macv_p_ss_r:demo_comb_income_v2                        1.507e-02   4.793e-02    0.315
## macv_p_ss_r:demo_fam_exp                              -1.676e-01   2.269e-01   -0.739
## macv_p_ss_r:demo_yrs_1                                -1.098e-01   6.616e-02   -1.659
## macv_p_ss_r:demo_yrs_2                                 6.291e-02   7.571e-02    0.831
```

```
## macv_p_ss_r:parent_rules_q1                        1.504e-03  1.359e-01   0.011
## macv_p_ss_r:parent_rules_q4                       -1.403e-01  1.461e-01  -0.960
## macv_p_ss_r:parent_rules_q7                        5.398e-02  1.346e-01   0.401
## macv_p_ss_r:su_risk_p_1                            4.917e-02  6.565e-02   0.749
## macv_p_ss_r:su_risk_p_2_3                         -9.988e-02  1.002e-01  -0.997
## macv_p_ss_r:su_risk_p_4_5                         -8.752e-02  1.140e-01  -0.768
## macv_p_ss_r:neighborhood1_2_3_p                    6.488e-02  8.490e-02   0.764
## macv_p_ss_r:neighborhood_crime_y                  -4.689e-02  7.058e-02  -0.664
## macv_p_ss_r:sexM                                   4.870e-02  1.468e-01   0.332
## demo_prnt_age_v2:demo_prnt_marital_v2             -7.473e-03  6.061e-03  -1.233
## demo_prnt_age_v2:demo_comb_income_v2              -1.557e-02  5.126e-03  -3.037
## demo_prnt_age_v2:demo_fam_exp                     -2.782e-02  2.519e-02  -1.104
## demo_prnt_age_v2:demo_yrs_1                        6.619e-03  9.482e-03   0.698
## demo_prnt_age_v2:demo_yrs_2                       -2.385e-02  1.466e-02  -1.627
## demo_prnt_age_v2:parent_rules_q1                  -2.550e-02  2.040e-02  -1.250
## demo_prnt_age_v2:parent_rules_q4                   8.625e-03  2.100e-02   0.411
## demo_prnt_age_v2:parent_rules_q7                   1.600e-02  1.863e-02   0.859
## demo_prnt_age_v2:su_risk_p_1                      -2.586e-03  9.239e-03  -0.280
## demo_prnt_age_v2:su_risk_p_2_3                     1.489e-02  1.291e-02   1.153
## demo_prnt_age_v2:su_risk_p_4_5                    -2.663e-02  1.646e-02  -1.618
## demo_prnt_age_v2:neighborhood1_2_3_p             -5.205e-03  1.078e-02  -0.483
## demo_prnt_age_v2:neighborhood_crime_y             6.590e-03  8.489e-03   0.776
## demo_prnt_age_v2:sexM                            -2.589e-02  1.853e-02  -1.397
## demo_prnt_marital_v2:demo_comb_income_v2         -4.947e-03  2.085e-02  -0.237
## demo_prnt_marital_v2:demo_fam_exp                -7.024e-02  9.902e-02  -0.709
## demo_prnt_marital_v2:demo_yrs_1                  -1.957e-02  4.205e-02  -0.466
## demo_prnt_marital_v2:demo_yrs_2                  -5.097e-02  6.061e-02  -0.841
## demo_prnt_marital_v2:parent_rules_q1            -1.832e-01  9.295e-02  -1.971
## demo_prnt_marital_v2:parent_rules_q4             2.334e-01  9.373e-02   2.490
## demo_prnt_marital_v2:parent_rules_q7            -7.648e-03  8.146e-02  -0.094
## demo_prnt_marital_v2:su_risk_p_1                 3.344e-02  4.482e-02   0.746
## demo_prnt_marital_v2:su_risk_p_2_3              1.356e-01  5.676e-02   2.390
## demo_prnt_marital_v2:su_risk_p_4_5             -1.037e-01  6.144e-02  -1.688
## demo_prnt_marital_v2:neighborhood1_2_3_p        8.282e-02  4.596e-02   1.802
## demo_prnt_marital_v2:neighborhood_crime_y      -2.571e-02  3.829e-02  -0.671
## demo_prnt_marital_v2:sexM                       8.861e-02  8.271e-02   1.071
## demo_comb_income_v2:demo_fam_exp               -8.492e-02  8.053e-02  -1.055
## demo_comb_income_v2:demo_yrs_1                 -6.498e-02  3.522e-02  -1.845
## demo_comb_income_v2:demo_yrs_2                 -1.464e-03  4.998e-02  -0.029
## demo_comb_income_v2:parent_rules_q1            1.146e-01  8.481e-02   1.351
## demo_comb_income_v2:parent_rules_q4            4.891e-02  9.053e-02   0.540
## demo_comb_income_v2:parent_rules_q7           -5.965e-02  7.729e-02  -0.772
## demo_comb_income_v2:su_risk_p_1               1.415e-02  3.935e-02   0.360
## demo_comb_income_v2:su_risk_p_2_3             9.202e-02  5.366e-02   1.715
## demo_comb_income_v2:su_risk_p_4_5            -1.663e-01  5.914e-02  -2.812
## demo_comb_income_v2:neighborhood1_2_3_p       1.185e-01  3.679e-02   3.220
## demo_comb_income_v2:neighborhood_crime_y      2.269e-02  3.020e-02   0.751
## demo_comb_income_v2:sexM                      6.783e-03  6.912e-02   0.098
## demo_fam_exp:demo_yrs_1                       -2.318e-01  1.625e-01  -1.427
## demo_fam_exp:demo_yrs_2                        3.130e-01  2.378e-01   1.316
## demo_fam_exp:parent_rules_q1                   9.879e-01  3.742e-01   2.640
```

```
## demo_fam_exp:parent_rules_q4                    -3.707e-01  4.007e-01  -0.925
## demo_fam_exp:parent_rules_q7                    -3.894e-01  3.263e-01  -1.193
## demo_fam_exp:su_risk_p_1                        -1.548e-01  1.822e-01  -0.849
## demo_fam_exp:su_risk_p_2_3                       1.757e-02  2.468e-01   0.071
## demo_fam_exp:su_risk_p_4_5                       8.645e-02  2.901e-01   0.298
## demo_fam_exp:neighborhood1_2_3_p               -5.754e-02  1.750e-01  -0.329
## demo_fam_exp:neighborhood_crime_y                3.101e-02  1.409e-01   0.220
## demo_fam_exp:sexM                               -2.766e-01  3.295e-01  -0.839
## demo_yrs_1:demo_yrs_2                           -4.257e-02  7.196e-02  -0.592
## demo_yrs_1:parent_rules_q1                      -1.401e-01  1.220e-01  -1.148
## demo_yrs_1:parent_rules_q4                       1.216e-01  1.285e-01   0.947
## demo_yrs_1:parent_rules_q7                       2.497e-02  1.185e-01   0.211
## demo_yrs_1:su_risk_p_1                          -2.904e-02  5.895e-02  -0.493
## demo_yrs_1:su_risk_p_2_3                         2.947e-01  9.274e-02   3.177
## demo_yrs_1:su_risk_p_4_5                        -1.565e-01  1.014e-01  -1.543
## demo_yrs_1:neighborhood1_2_3_p                  -1.607e-03  6.795e-02  -0.024
## demo_yrs_1:neighborhood_crime_y                  2.384e-02  5.652e-02   0.422
## demo_yrs_1:sexM                                 -1.740e-01  1.215e-01  -1.432
## demo_yrs_2:parent_rules_q1                       1.631e-01  1.805e-01   0.903
## demo_yrs_2:parent_rules_q4                      -1.506e-02  1.821e-01  -0.083
## demo_yrs_2:parent_rules_q7                      -8.859e-02  1.739e-01  -0.509
## demo_yrs_2:su_risk_p_1                          -1.737e-01  8.340e-02  -2.082
## demo_yrs_2:su_risk_p_2_3                        -1.442e-01  1.186e-01  -1.215
## demo_yrs_2:su_risk_p_4_5                         3.866e-01  1.359e-01   2.845
## demo_yrs_2:neighborhood1_2_3_p                   6.412e-02  9.459e-02   0.678
## demo_yrs_2:neighborhood_crime_y                  4.179e-02  7.974e-02   0.524
## demo_yrs_2:sexM                                 -8.726e-02  1.726e-01  -0.506
## parent_rules_q1:parent_rules_q4                 -1.589e-01  1.471e-01  -1.080
## parent_rules_q1:parent_rules_q7                  2.525e-02  1.268e-01   0.199
## parent_rules_q1:su_risk_p_1                     -4.863e-02  9.589e-02  -0.507
## parent_rules_q1:su_risk_p_2_3                   -1.185e-01  1.432e-01  -0.828
## parent_rules_q1:su_risk_p_4_5                    1.791e-01  1.663e-01   1.077
## parent_rules_q1:neighborhood1_2_3_p            -7.147e-02  1.420e-01  -0.503
## parent_rules_q1:neighborhood_crime_y             1.425e-01  1.180e-01   1.207
## parent_rules_q1:sexM                             3.665e-01  2.144e-01   1.710
## parent_rules_q4:parent_rules_q7                 -9.738e-02  1.492e-01  -0.653
## parent_rules_q4:su_risk_p_1                     -8.651e-03  1.021e-01  -0.085
## parent_rules_q4:su_risk_p_2_3                    5.500e-02  1.493e-01   0.368
## parent_rules_q4:su_risk_p_4_5                   -8.785e-02  1.580e-01  -0.556
## parent_rules_q4:neighborhood1_2_3_p             4.206e-02  1.465e-01   0.287
## parent_rules_q4:neighborhood_crime_y           -1.201e-01  1.195e-01  -1.005
## parent_rules_q4:sexM                             2.257e-01  2.364e-01   0.955
## parent_rules_q7:su_risk_p_1                     -5.744e-02  9.709e-02  -0.592
## parent_rules_q7:su_risk_p_2_3                    1.598e-01  1.360e-01   1.175
## parent_rules_q7:su_risk_p_4_5                   -2.156e-01  1.496e-01  -1.441
## parent_rules_q7:neighborhood1_2_3_p             3.775e-02  1.427e-01   0.265
## parent_rules_q7:neighborhood_crime_y           -2.985e-02  1.102e-01  -0.271
## parent_rules_q7:sexM                            -3.915e-01  2.226e-01  -1.759
## su_risk_p_1:su_risk_p_2_3                       -4.799e-02  6.713e-02  -0.715
## su_risk_p_1:su_risk_p_4_5                        1.192e-01  7.673e-02   1.554
## su_risk_p_1:neighborhood1_2_3_p                 -4.621e-02  6.507e-02  -0.710
```

```
## su_risk_p_1:neighborhood_crime_y              -5.116e-02  5.421e-02  -0.944
## su_risk_p_1:sexM                              -1.803e-01  1.018e-01  -1.772
## su_risk_p_2_3:su_risk_p_4_5                   -2.352e-01  5.241e-02  -4.487
## su_risk_p_2_3:neighborhood1_2_3_p             6.110e-03   1.086e-01   0.056
## su_risk_p_2_3:neighborhood_crime_y            -2.836e-02  7.854e-02  -0.361
## su_risk_p_2_3:sexM                            2.647e-01   1.657e-01   1.598
## su_risk_p_4_5:neighborhood1_2_3_p             1.351e-02   1.187e-01   0.114
## su_risk_p_4_5:neighborhood_crime_y            1.126e-01   9.167e-02   1.229
## su_risk_p_4_5:sexM                            -2.377e-01  1.837e-01  -1.294
## neighborhood1_2_3_p:neighborhood_crime_y      1.755e-02   5.565e-02   0.315
## neighborhood1_2_3_p:sexM                      -9.424e-02  1.311e-01  -0.719
## neighborhood_crime_y:sexM                     9.510e-03   1.079e-01   0.088
##                                               Pr(>|z|)
## (Intercept)                                   0.149611
## asr_scr_perstr_t                              0.421252
## asr_scr_anxdep_t                              0.360079
## asr_scr_withdrawn_t                           0.215993
## asr_scr_somatic_t                             0.457980
## asr_scr_thought_t                             0.168596
## asr_scr_attention_t                           0.113953
## asr_scr_aggressive_t                          0.494521
## asr_scr_rulebreak_t                           0.779127
## asr_scr_intrusive_t                           0.083411 .
## asr_scr_internal_t                            0.002417 **
## asr_scr_external_t                            0.073114 .
## asr_scr_totprob_t                             0.000460 ***
## asr_scr_depress_t                             0.043325 *
## asr_scr_anxdisord_t                           0.824107
## asr_scr_somaticpr_t                           0.726976
## asr_scr_avoidant_t                            0.579748
## asr_scr_adhd_t                                0.998994
## asr_scr_antisocial_t                          0.975993
## asr_scr_inattention_t                         0.589560
## asr_scr_hyperactive_t                         0.253038
## crpbi_bothcare                                0.602188
## parent_monitor_y                              0.306703
## kbi_p_conflict                                0.276547
## kbi_p_c_best_friend                           0.985983
## kbi_p_c_reg_friend_group                      0.051936 .
## kbi_p_c_bully                                 0.837991
## kbi_p_c_mh_sa                                 0.155100
## fes_youth                                     0.971004
## fes_p_ss_fc_pr                                0.000418 ***
## macv_p_ss_fs                                  0.570903
## macv_p_ss_fo                                  0.295709
## macv_p_ss_isr                                 0.082893 .
## macv_p_ss_fr                                  0.521940
## macv_p_ss_r                                   0.635573
## demo_prnt_age_v2                              0.106951
## demo_prnt_marital_v2                          0.335816
## demo_comb_income_v2                           0.831719
```

```
## demo_fam_exp                                    0.580612
## demo_yrs_1                                      0.956435
## demo_yrs_2                                      0.669592
## parent_rules_q1                                 0.964149
## parent_rules_q4                                 0.407302
## parent_rules_q7                                 0.571314
## su_risk_p_1                                     0.333796
## su_risk_p_2_3                                   0.597080
## su_risk_p_4_5                                   0.459497
## neighborhood1_2_3_p                             0.151161
## neighborhood_crime_y                            0.276886
## sexM                                            0.595285
## asr_scr_perstr_t:asr_scr_anxdep_t               0.131077
## asr_scr_perstr_t:asr_scr_withdrawn_t            0.633831
## asr_scr_perstr_t:asr_scr_somatic_t              0.253591
## asr_scr_perstr_t:asr_scr_thought_t              0.299612
## asr_scr_perstr_t:asr_scr_attention_t            0.754563
## asr_scr_perstr_t:asr_scr_aggressive_t           0.592281
## asr_scr_perstr_t:asr_scr_rulebreak_t            0.783908
## asr_scr_perstr_t:asr_scr_intrusive_t            0.422710
## asr_scr_perstr_t:asr_scr_internal_t             0.585575
## asr_scr_perstr_t:asr_scr_external_t             0.722973
## asr_scr_perstr_t:asr_scr_totprob_t              0.438197
## asr_scr_perstr_t:asr_scr_depress_t              0.015257 *
## asr_scr_perstr_t:asr_scr_anxdisord_t            0.185594
## asr_scr_perstr_t:asr_scr_somaticpr_t            0.334408
## asr_scr_perstr_t:asr_scr_avoidant_t             0.221497
## asr_scr_perstr_t:asr_scr_adhd_t                 0.193259
## asr_scr_perstr_t:asr_scr_antisocial_t           0.207585
## asr_scr_perstr_t:asr_scr_inattention_t          0.494200
## asr_scr_perstr_t:asr_scr_hyperactive_t          0.134490
## asr_scr_perstr_t:crpbi_bothcare                 0.863320
## asr_scr_perstr_t:parent_monitor_y               0.907130
## asr_scr_perstr_t:kbi_p_conflict                 0.034569 *
## asr_scr_perstr_t:kbi_p_c_best_friend            0.280116
## asr_scr_perstr_t:kbi_p_c_reg_friend_group       0.003849 **
## asr_scr_perstr_t:kbi_p_c_bully                  0.993336
## asr_scr_perstr_t:kbi_p_c_mh_sa                  0.559253
## asr_scr_perstr_t:fes_youth                      0.536965
## asr_scr_perstr_t:fes_p_ss_fc_pr                 0.142036
## asr_scr_perstr_t:macv_p_ss_fs                   0.823838
## asr_scr_perstr_t:macv_p_ss_fo                   0.518952
## asr_scr_perstr_t:macv_p_ss_isr                  0.099467 .
## asr_scr_perstr_t:macv_p_ss_fr                   0.568034
## asr_scr_perstr_t:macv_p_ss_r                    0.444195
## asr_scr_perstr_t:demo_prnt_age_v2               0.744563
## asr_scr_perstr_t:demo_prnt_marital_v2           0.941581
## asr_scr_perstr_t:demo_comb_income_v2            0.134745
## asr_scr_perstr_t:demo_fam_exp                   0.083067 .
## asr_scr_perstr_t:demo_yrs_1                     0.713000
## asr_scr_perstr_t:demo_yrs_2                     0.250189
```

```
## asr_scr_perstr_t:parent_rules_q1                 0.909534
## asr_scr_perstr_t:parent_rules_q4                 0.188170
## asr_scr_perstr_t:parent_rules_q7                 0.032111 *
## asr_scr_perstr_t:su_risk_p_1                     0.120290
## asr_scr_perstr_t:su_risk_p_2_3                   0.259450
## asr_scr_perstr_t:su_risk_p_4_5                   0.113165
## asr_scr_perstr_t:neighborhood1_2_3_p             0.024263 *
## asr_scr_perstr_t:neighborhood_crime_y            0.228772
## asr_scr_perstr_t:sexM                            0.786217
## asr_scr_anxdep_t:asr_scr_withdrawn_t             0.879257
## asr_scr_anxdep_t:asr_scr_somatic_t               0.008114 **
## asr_scr_anxdep_t:asr_scr_thought_t               0.935250
## asr_scr_anxdep_t:asr_scr_attention_t             0.828747
## asr_scr_anxdep_t:asr_scr_aggressive_t            0.390879
## asr_scr_anxdep_t:asr_scr_rulebreak_t             0.759863
## asr_scr_anxdep_t:asr_scr_intrusive_t             0.190276
## asr_scr_anxdep_t:asr_scr_internal_t              0.850194
## asr_scr_anxdep_t:asr_scr_external_t              0.146148
## asr_scr_anxdep_t:asr_scr_totprob_t               0.432379
## asr_scr_anxdep_t:asr_scr_depress_t               0.005927 **
## asr_scr_anxdep_t:asr_scr_anxdisord_t             0.619204
## asr_scr_anxdep_t:asr_scr_somaticpr_t             0.052961 .
## asr_scr_anxdep_t:asr_scr_avoidant_t              0.447629
## asr_scr_anxdep_t:asr_scr_adhd_t                  0.022921 *
## asr_scr_anxdep_t:asr_scr_antisocial_t            0.988299
## asr_scr_anxdep_t:asr_scr_inattention_t           0.093395 .
## asr_scr_anxdep_t:asr_scr_hyperactive_t           0.331636
## asr_scr_anxdep_t:crpbi_bothcare                  0.039662 *
## asr_scr_anxdep_t:parent_monitor_y                0.346732
## asr_scr_anxdep_t:kbi_p_conflict                  0.009970 **
## asr_scr_anxdep_t:kbi_p_c_best_friend             0.140818
## asr_scr_anxdep_t:kbi_p_c_reg_friend_group        0.400193
## asr_scr_anxdep_t:kbi_p_c_bully                   0.236267
## asr_scr_anxdep_t:kbi_p_c_mh_sa                   0.868996
## asr_scr_anxdep_t:fes_youth                       0.640586
## asr_scr_anxdep_t:fes_p_ss_fc_pr                  0.526394
## asr_scr_anxdep_t:macv_p_ss_fs                    0.154330
## asr_scr_anxdep_t:macv_p_ss_fo                    0.374105
## asr_scr_anxdep_t:macv_p_ss_isr                   0.249368
## asr_scr_anxdep_t:macv_p_ss_fr                    0.175440
## asr_scr_anxdep_t:macv_p_ss_r                     0.113457
## asr_scr_anxdep_t:demo_prnt_age_v2                0.006907 **
## asr_scr_anxdep_t:demo_prnt_marital_v2            0.538899
## asr_scr_anxdep_t:demo_comb_income_v2             0.015993 *
## asr_scr_anxdep_t:demo_fam_exp                    0.540958
## asr_scr_anxdep_t:demo_yrs_1                      0.661038
## asr_scr_anxdep_t:demo_yrs_2                      0.002764 **
## asr_scr_anxdep_t:parent_rules_q1                 0.531192
## asr_scr_anxdep_t:parent_rules_q4                 0.116057
## asr_scr_anxdep_t:parent_rules_q7                 0.368374
## asr_scr_anxdep_t:su_risk_p_1                     0.911045
```

```
## asr_scr_anxdep_t:su_risk_p_2_3                     0.475659
## asr_scr_anxdep_t:su_risk_p_4_5                     0.648708
## asr_scr_anxdep_t:neighborhood1_2_3_p              0.107791
## asr_scr_anxdep_t:neighborhood_crime_y             0.985402
## asr_scr_anxdep_t:sexM                             0.333692
## asr_scr_withdrawn_t:asr_scr_somatic_t             0.192189
## asr_scr_withdrawn_t:asr_scr_thought_t             0.012382 *
## asr_scr_withdrawn_t:asr_scr_attention_t           0.003485 **
## asr_scr_withdrawn_t:asr_scr_aggressive_t          0.223353
## asr_scr_withdrawn_t:asr_scr_rulebreak_t           0.952078
## asr_scr_withdrawn_t:asr_scr_intrusive_t           0.025454 *
## asr_scr_withdrawn_t:asr_scr_internal_t            0.218244
## asr_scr_withdrawn_t:asr_scr_external_t            0.023992 *
## asr_scr_withdrawn_t:asr_scr_totprob_t             0.015635 *
## asr_scr_withdrawn_t:asr_scr_depress_t             0.624467
## asr_scr_withdrawn_t:asr_scr_anxdisord_t           0.279161
## asr_scr_withdrawn_t:asr_scr_somaticpr_t           0.277675
## asr_scr_withdrawn_t:asr_scr_avoidant_t            0.867977
## asr_scr_withdrawn_t:asr_scr_adhd_t                0.000492 ***
## asr_scr_withdrawn_t:asr_scr_antisocial_t          0.100295
## asr_scr_withdrawn_t:asr_scr_inattention_t         0.023401 *
## asr_scr_withdrawn_t:asr_scr_hyperactive_t         0.022473 *
## asr_scr_withdrawn_t:crpbi_bothcare                0.021462 *
## asr_scr_withdrawn_t:parent_monitor_y              0.253715
## asr_scr_withdrawn_t:kbi_p_conflict                0.691681
## asr_scr_withdrawn_t:kbi_p_c_best_friend           0.195706
## asr_scr_withdrawn_t:kbi_p_c_reg_friend_group      0.895094
## asr_scr_withdrawn_t:kbi_p_c_bully                 0.658510
## asr_scr_withdrawn_t:kbi_p_c_mh_sa                 0.915985
## asr_scr_withdrawn_t:fes_youth                     0.991024
## asr_scr_withdrawn_t:fes_p_ss_fc_pr                0.676751
## asr_scr_withdrawn_t:macv_p_ss_fs                  0.000905 ***
## asr_scr_withdrawn_t:macv_p_ss_fo                  0.004831 **
## asr_scr_withdrawn_t:macv_p_ss_isr                 0.312498
## asr_scr_withdrawn_t:macv_p_ss_fr                  0.104292
## asr_scr_withdrawn_t:macv_p_ss_r                   0.464230
## asr_scr_withdrawn_t:demo_prnt_age_v2              0.614699
## asr_scr_withdrawn_t:demo_prnt_marital_v2          0.717246
## asr_scr_withdrawn_t:demo_comb_income_v2           0.152250
## asr_scr_withdrawn_t:demo_fam_exp                  0.633302
## asr_scr_withdrawn_t:demo_yrs_1                    0.996486
## asr_scr_withdrawn_t:demo_yrs_2                    0.338714
## asr_scr_withdrawn_t:parent_rules_q1               0.992441
## asr_scr_withdrawn_t:parent_rules_q4               0.699991
## asr_scr_withdrawn_t:parent_rules_q7               0.467228
## asr_scr_withdrawn_t:su_risk_p_1                   0.077784 .
## asr_scr_withdrawn_t:su_risk_p_2_3                 0.232660
## asr_scr_withdrawn_t:su_risk_p_4_5                 0.438530
## asr_scr_withdrawn_t:neighborhood1_2_3_p           0.623139
## asr_scr_withdrawn_t:neighborhood_crime_y          0.100211
## asr_scr_withdrawn_t:sexM                          0.093781 .
```

```
## asr_scr_somatic_t:asr_scr_thought_t          0.505078
## asr_scr_somatic_t:asr_scr_attention_t        0.385985
## asr_scr_somatic_t:asr_scr_aggressive_t       0.264662
## asr_scr_somatic_t:asr_scr_rulebreak_t        0.605073
## asr_scr_somatic_t:asr_scr_intrusive_t        0.220291
## asr_scr_somatic_t:asr_scr_internal_t         0.432871
## asr_scr_somatic_t:asr_scr_external_t         0.515801
## asr_scr_somatic_t:asr_scr_totprob_t          0.171462
## asr_scr_somatic_t:asr_scr_depress_t          0.003387 **
## asr_scr_somatic_t:asr_scr_anxdisord_t        0.194032
## asr_scr_somatic_t:asr_scr_somaticpr_t        0.733000
## asr_scr_somatic_t:asr_scr_avoidant_t         0.710428
## asr_scr_somatic_t:asr_scr_adhd_t             0.820281
## asr_scr_somatic_t:asr_scr_antisocial_t       0.450755
## asr_scr_somatic_t:asr_scr_inattention_t      0.596017
## asr_scr_somatic_t:asr_scr_hyperactive_t      0.081592 .
## asr_scr_somatic_t:crpbi_bothcare             0.596027
## asr_scr_somatic_t:parent_monitor_y           0.545967
## asr_scr_somatic_t:kbi_p_conflict             0.020787 *
## asr_scr_somatic_t:kbi_p_c_best_friend        0.936830
## asr_scr_somatic_t:kbi_p_c_reg_friend_group   0.122339
## asr_scr_somatic_t:kbi_p_c_bully              0.078813 .
## asr_scr_somatic_t:kbi_p_c_mh_sa              0.118184
## asr_scr_somatic_t:fes_youth                  0.530030
## asr_scr_somatic_t:fes_p_ss_fc_pr             0.760876
## asr_scr_somatic_t:macv_p_ss_fs               0.792628
## asr_scr_somatic_t:macv_p_ss_fo               0.189726
## asr_scr_somatic_t:macv_p_ss_isr              0.238259
## asr_scr_somatic_t:macv_p_ss_fr               0.145533
## asr_scr_somatic_t:macv_p_ss_r                0.365710
## asr_scr_somatic_t:demo_prnt_age_v2           0.564303
## asr_scr_somatic_t:demo_prnt_marital_v2       0.900604
## asr_scr_somatic_t:demo_comb_income_v2        0.047505 *
## asr_scr_somatic_t:demo_fam_exp               0.604192
## asr_scr_somatic_t:demo_yrs_1                 0.441847
## asr_scr_somatic_t:demo_yrs_2                 0.707704
## asr_scr_somatic_t:parent_rules_q1            0.559038
## asr_scr_somatic_t:parent_rules_q4            0.913957
## asr_scr_somatic_t:parent_rules_q7            0.743442
## asr_scr_somatic_t:su_risk_p_1                0.926916
## asr_scr_somatic_t:su_risk_p_2_3              0.919886
## asr_scr_somatic_t:su_risk_p_4_5              0.917264
## asr_scr_somatic_t:neighborhood1_2_3_p        0.177498
## asr_scr_somatic_t:neighborhood_crime_y       0.232517
## asr_scr_somatic_t:sexM                       0.458942
## asr_scr_thought_t:asr_scr_attention_t        0.519750
## asr_scr_thought_t:asr_scr_aggressive_t       0.170295
## asr_scr_thought_t:asr_scr_rulebreak_t        0.858870
## asr_scr_thought_t:asr_scr_intrusive_t        0.700393
## asr_scr_thought_t:asr_scr_internal_t         0.422404
## asr_scr_thought_t:asr_scr_external_t         0.946869
```

```
## asr_scr_thought_t:asr_scr_totprob_t           0.357179
## asr_scr_thought_t:asr_scr_depress_t           0.558935
## asr_scr_thought_t:asr_scr_anxdisord_t         0.396185
## asr_scr_thought_t:asr_scr_somaticpr_t         0.406206
## asr_scr_thought_t:asr_scr_avoidant_t          0.057843 .
## asr_scr_thought_t:asr_scr_adhd_t              0.064555 .
## asr_scr_thought_t:asr_scr_antisocial_t        0.799935
## asr_scr_thought_t:asr_scr_inattention_t       0.040543 *
## asr_scr_thought_t:asr_scr_hyperactive_t       0.147243
## asr_scr_thought_t:crpbi_bothcare              0.466572
## asr_scr_thought_t:parent_monitor_y            0.375322
## asr_scr_thought_t:kbi_p_conflict              0.123606
## asr_scr_thought_t:kbi_p_c_best_friend         0.722351
## asr_scr_thought_t:kbi_p_c_reg_friend_group    0.048557 *
## asr_scr_thought_t:kbi_p_c_bully               0.077015 .
## asr_scr_thought_t:kbi_p_c_mh_sa               0.373790
## asr_scr_thought_t:fes_youth                   0.386815
## asr_scr_thought_t:fes_p_ss_fc_pr              0.394150
## asr_scr_thought_t:macv_p_ss_fs                0.514294
## asr_scr_thought_t:macv_p_ss_fo                0.001296 **
## asr_scr_thought_t:macv_p_ss_isr               0.039533 *
## asr_scr_thought_t:macv_p_ss_fr                0.546816
## asr_scr_thought_t:macv_p_ss_r                 0.877833
## asr_scr_thought_t:demo_prnt_age_v2            0.894715
## asr_scr_thought_t:demo_prnt_marital_v2        0.970123
## asr_scr_thought_t:demo_comb_income_v2         0.336391
## asr_scr_thought_t:demo_fam_exp                0.502333
## asr_scr_thought_t:demo_yrs_1                  0.716326
## asr_scr_thought_t:demo_yrs_2                  0.390616
## asr_scr_thought_t:parent_rules_q1             0.211105
## asr_scr_thought_t:parent_rules_q4             0.051917 .
## asr_scr_thought_t:parent_rules_q7             0.010686 *
## asr_scr_thought_t:su_risk_p_1                 0.437963
## asr_scr_thought_t:su_risk_p_2_3               0.842584
## asr_scr_thought_t:su_risk_p_4_5               0.152286
## asr_scr_thought_t:neighborhood1_2_3_p         0.821230
## asr_scr_thought_t:neighborhood_crime_y        0.669729
## asr_scr_thought_t:sexM                        0.999007
## asr_scr_attention_t:asr_scr_aggressive_t      0.587812
## asr_scr_attention_t:asr_scr_rulebreak_t       0.818125
## asr_scr_attention_t:asr_scr_intrusive_t       0.421700
## asr_scr_attention_t:asr_scr_internal_t        0.749241
## asr_scr_attention_t:asr_scr_external_t        0.831085
## asr_scr_attention_t:asr_scr_totprob_t         0.905650
## asr_scr_attention_t:asr_scr_depress_t         0.996140
## asr_scr_attention_t:asr_scr_anxdisord_t       0.363982
## asr_scr_attention_t:asr_scr_somaticpr_t       0.726696
## asr_scr_attention_t:asr_scr_avoidant_t        0.011289 *
## asr_scr_attention_t:asr_scr_adhd_t            0.929405
## asr_scr_attention_t:asr_scr_antisocial_t      0.646258
## asr_scr_attention_t:asr_scr_inattention_t     0.891177
```

```
## asr_scr_attention_t:asr_scr_hyperactive_t       0.941344
## asr_scr_attention_t:crpbi_bothcare              0.394521
## asr_scr_attention_t:parent_monitor_y            0.881628
## asr_scr_attention_t:kbi_p_conflict              0.440526
## asr_scr_attention_t:kbi_p_c_best_friend         0.959453
## asr_scr_attention_t:kbi_p_c_reg_friend_group    0.870708
## asr_scr_attention_t:kbi_p_c_bully               0.010268 *
## asr_scr_attention_t:kbi_p_c_mh_sa               0.003831 **
## asr_scr_attention_t:fes_youth                   0.592152
## asr_scr_attention_t:fes_p_ss_fc_pr              0.025875 *
## asr_scr_attention_t:macv_p_ss_fs                0.003771 **
## asr_scr_attention_t:macv_p_ss_fo                0.479922
## asr_scr_attention_t:macv_p_ss_isr               0.076108 .
## asr_scr_attention_t:macv_p_ss_fr                0.469330
## asr_scr_attention_t:macv_p_ss_r                 0.398562
## asr_scr_attention_t:demo_prnt_age_v2            0.394622
## asr_scr_attention_t:demo_prnt_marital_v2        0.256014
## asr_scr_attention_t:demo_comb_income_v2         0.785773
## asr_scr_attention_t:demo_fam_exp                0.159727
## asr_scr_attention_t:demo_yrs_1                  0.473684
## asr_scr_attention_t:demo_yrs_2                  0.832449
## asr_scr_attention_t:parent_rules_q1             0.932275
## asr_scr_attention_t:parent_rules_q4             0.178190
## asr_scr_attention_t:parent_rules_q7             0.203552
## asr_scr_attention_t:su_risk_p_1                 0.799361
## asr_scr_attention_t:su_risk_p_2_3               0.359996
## asr_scr_attention_t:su_risk_p_4_5               0.413619
## asr_scr_attention_t:neighborhood1_2_3_p         0.919633
## asr_scr_attention_t:neighborhood_crime_y        0.132176
## asr_scr_attention_t:sexM                        0.545923
## asr_scr_aggressive_t:asr_scr_rulebreak_t        0.509525
## asr_scr_aggressive_t:asr_scr_intrusive_t        0.370034
## asr_scr_aggressive_t:asr_scr_internal_t         0.015247 *
## asr_scr_aggressive_t:asr_scr_external_t         0.128502
## asr_scr_aggressive_t:asr_scr_totprob_t          0.026468 *
## asr_scr_aggressive_t:asr_scr_depress_t          0.993800
## asr_scr_aggressive_t:asr_scr_anxdisord_t        0.042325 *
## asr_scr_aggressive_t:asr_scr_somaticpr_t        0.496847
## asr_scr_aggressive_t:asr_scr_avoidant_t         0.175311
## asr_scr_aggressive_t:asr_scr_adhd_t             0.615980
## asr_scr_aggressive_t:asr_scr_antisocial_t       0.446696
## asr_scr_aggressive_t:asr_scr_inattention_t      0.973896
## asr_scr_aggressive_t:asr_scr_hyperactive_t      0.221027
## asr_scr_aggressive_t:crpbi_bothcare             0.825370
## asr_scr_aggressive_t:parent_monitor_y           0.179671
## asr_scr_aggressive_t:kbi_p_conflict             0.921087
## asr_scr_aggressive_t:kbi_p_c_best_friend        0.516625
## asr_scr_aggressive_t:kbi_p_c_reg_friend_group   0.077899 .
## asr_scr_aggressive_t:kbi_p_c_bully              0.007651 **
## asr_scr_aggressive_t:kbi_p_c_mh_sa              0.024922 *
## asr_scr_aggressive_t:fes_youth                  0.575253
```

```
## asr_scr_aggressive_t:fes_p_ss_fc_pr              0.073406 .
## asr_scr_aggressive_t:macv_p_ss_fs               0.621496
## asr_scr_aggressive_t:macv_p_ss_fo               0.769948
## asr_scr_aggressive_t:macv_p_ss_isr              0.977870
## asr_scr_aggressive_t:macv_p_ss_fr               0.066375 .
## asr_scr_aggressive_t:macv_p_ss_r                0.989693
## asr_scr_aggressive_t:demo_prnt_age_v2           0.743097
## asr_scr_aggressive_t:demo_prnt_marital_v2       0.445444
## asr_scr_aggressive_t:demo_comb_income_v2        0.762105
## asr_scr_aggressive_t:demo_fam_exp               0.909544
## asr_scr_aggressive_t:demo_yrs_1                 0.675908
## asr_scr_aggressive_t:demo_yrs_2                 0.138804
## asr_scr_aggressive_t:parent_rules_q1            0.204548
## asr_scr_aggressive_t:parent_rules_q4            0.785843
## asr_scr_aggressive_t:parent_rules_q7            0.369842
## asr_scr_aggressive_t:su_risk_p_1                0.291755
## asr_scr_aggressive_t:su_risk_p_2_3              0.542184
## asr_scr_aggressive_t:su_risk_p_4_5              0.076986 .
## asr_scr_aggressive_t:neighborhood1_2_3_p        0.641249
## asr_scr_aggressive_t:neighborhood_crime_y       0.926344
## asr_scr_aggressive_t:sexM                       0.130360
## asr_scr_rulebreak_t:asr_scr_intrusive_t         0.054483 .
## asr_scr_rulebreak_t:asr_scr_internal_t          0.014478 *
## asr_scr_rulebreak_t:asr_scr_external_t          0.031955 *
## asr_scr_rulebreak_t:asr_scr_totprob_t           0.042760 *
## asr_scr_rulebreak_t:asr_scr_depress_t           0.491053
## asr_scr_rulebreak_t:asr_scr_anxdisord_t         0.925377
## asr_scr_rulebreak_t:asr_scr_somaticpr_t         0.238922
## asr_scr_rulebreak_t:asr_scr_avoidant_t          0.735211
## asr_scr_rulebreak_t:asr_scr_adhd_t              0.420571
## asr_scr_rulebreak_t:asr_scr_antisocial_t        0.893013
## asr_scr_rulebreak_t:asr_scr_inattention_t       0.317821
## asr_scr_rulebreak_t:asr_scr_hyperactive_t       0.817597
## asr_scr_rulebreak_t:crpbi_bothcare              0.483287
## asr_scr_rulebreak_t:parent_monitor_y            0.765004
## asr_scr_rulebreak_t:kbi_p_conflict              0.216291
## asr_scr_rulebreak_t:kbi_p_c_best_friend         0.288657
## asr_scr_rulebreak_t:kbi_p_c_reg_friend_group    0.337376
## asr_scr_rulebreak_t:kbi_p_c_bully               0.469610
## asr_scr_rulebreak_t:kbi_p_c_mh_sa               0.096656 .
## asr_scr_rulebreak_t:fes_youth                   0.320726
## asr_scr_rulebreak_t:fes_p_ss_fc_pr              0.126077
## asr_scr_rulebreak_t:macv_p_ss_fs                0.324353
## asr_scr_rulebreak_t:macv_p_ss_fo                0.540215
## asr_scr_rulebreak_t:macv_p_ss_isr               0.287272
## asr_scr_rulebreak_t:macv_p_ss_fr                0.061214 .
## asr_scr_rulebreak_t:macv_p_ss_r                 0.013154 *
## asr_scr_rulebreak_t:demo_prnt_age_v2            0.758999
## asr_scr_rulebreak_t:demo_prnt_marital_v2        0.139663
## asr_scr_rulebreak_t:demo_comb_income_v2         0.101702
## asr_scr_rulebreak_t:demo_fam_exp                0.850338
```

```
## asr_scr_rulebreak_t:demo_yrs_1                 0.387710
## asr_scr_rulebreak_t:demo_yrs_2                 0.072677 .
## asr_scr_rulebreak_t:parent_rules_q1            0.034924 *
## asr_scr_rulebreak_t:parent_rules_q4            0.328816
## asr_scr_rulebreak_t:parent_rules_q7            0.575970
## asr_scr_rulebreak_t:su_risk_p_1                0.631958
## asr_scr_rulebreak_t:su_risk_p_2_3              0.057562 .
## asr_scr_rulebreak_t:su_risk_p_4_5              0.037409 *
## asr_scr_rulebreak_t:neighborhood1_2_3_p        0.662168
## asr_scr_rulebreak_t:neighborhood_crime_y       0.143284
## asr_scr_rulebreak_t:sexM                       0.330669
## asr_scr_intrusive_t:asr_scr_internal_t         0.869162
## asr_scr_intrusive_t:asr_scr_external_t         0.183562
## asr_scr_intrusive_t:asr_scr_totprob_t          0.188120
## asr_scr_intrusive_t:asr_scr_depress_t          0.493373
## asr_scr_intrusive_t:asr_scr_anxdisord_t        0.181607
## asr_scr_intrusive_t:asr_scr_somaticpr_t        0.886176
## asr_scr_intrusive_t:asr_scr_avoidant_t         0.471110
## asr_scr_intrusive_t:asr_scr_adhd_t             0.930204
## asr_scr_intrusive_t:asr_scr_antisocial_t       0.142350
## asr_scr_intrusive_t:asr_scr_inattention_t      0.810701
## asr_scr_intrusive_t:asr_scr_hyperactive_t      0.485548
## asr_scr_intrusive_t:crpbi_bothcare             0.645772
## asr_scr_intrusive_t:parent_monitor_y           0.195215
## asr_scr_intrusive_t:kbi_p_conflict             0.554193
## asr_scr_intrusive_t:kbi_p_c_best_friend        0.697241
## asr_scr_intrusive_t:kbi_p_c_reg_friend_group   0.363980
## asr_scr_intrusive_t:kbi_p_c_bully              0.920937
## asr_scr_intrusive_t:kbi_p_c_mh_sa              0.169484
## asr_scr_intrusive_t:fes_youth                  0.806549
## asr_scr_intrusive_t:fes_p_ss_fc_pr             0.985377
## asr_scr_intrusive_t:macv_p_ss_fs               0.757849
## asr_scr_intrusive_t:macv_p_ss_fo               0.232890
## asr_scr_intrusive_t:macv_p_ss_isr              0.375496
## asr_scr_intrusive_t:macv_p_ss_fr               0.930491
## asr_scr_intrusive_t:macv_p_ss_r                0.763239
## asr_scr_intrusive_t:demo_prnt_age_v2           0.705134
## asr_scr_intrusive_t:demo_prnt_marital_v2       0.182815
## asr_scr_intrusive_t:demo_comb_income_v2        0.951849
## asr_scr_intrusive_t:demo_fam_exp               0.051062 .
## asr_scr_intrusive_t:demo_yrs_1                 0.440809
## asr_scr_intrusive_t:demo_yrs_2                 0.242143
## asr_scr_intrusive_t:parent_rules_q1            0.217650
## asr_scr_intrusive_t:parent_rules_q4            0.924095
## asr_scr_intrusive_t:parent_rules_q7            0.246393
## asr_scr_intrusive_t:su_risk_p_1                0.093053 .
## asr_scr_intrusive_t:su_risk_p_2_3              0.888387
## asr_scr_intrusive_t:su_risk_p_4_5              0.417264
## asr_scr_intrusive_t:neighborhood1_2_3_p        0.272338
## asr_scr_intrusive_t:neighborhood_crime_y       0.038135 *
## asr_scr_intrusive_t:sexM                       0.486645
```

```
## asr_scr_internal_t:asr_scr_external_t            0.350614
## asr_scr_internal_t:asr_scr_totprob_t             0.572294
## asr_scr_internal_t:asr_scr_depress_t             0.081237 .
## asr_scr_internal_t:asr_scr_anxdisord_t           0.304618
## asr_scr_internal_t:asr_scr_somaticpr_t           0.561376
## asr_scr_internal_t:asr_scr_avoidant_t            0.142038
## asr_scr_internal_t:asr_scr_adhd_t                0.556936
## asr_scr_internal_t:asr_scr_antisocial_t          0.747545
## asr_scr_internal_t:asr_scr_inattention_t         0.436359
## asr_scr_internal_t:asr_scr_hyperactive_t         0.397393
## asr_scr_internal_t:crpbi_bothcare                0.596464
## asr_scr_internal_t:parent_monitor_y              0.723494
## asr_scr_internal_t:kbi_p_conflict                0.352953
## asr_scr_internal_t:kbi_p_c_best_friend           0.574769
## asr_scr_internal_t:kbi_p_c_reg_friend_group      0.247705
## asr_scr_internal_t:kbi_p_c_bully                 0.173197
## asr_scr_internal_t:kbi_p_c_mh_sa                 0.158200
## asr_scr_internal_t:fes_youth                     0.236758
## asr_scr_internal_t:fes_p_ss_fc_pr                0.007771 **
## asr_scr_internal_t:macv_p_ss_fs                  0.113170
## asr_scr_internal_t:macv_p_ss_fo                  0.464478
## asr_scr_internal_t:macv_p_ss_isr                 0.939236
## asr_scr_internal_t:macv_p_ss_fr                  0.859207
## asr_scr_internal_t:macv_p_ss_r                   0.842084
## asr_scr_internal_t:demo_prnt_age_v2              0.387759
## asr_scr_internal_t:demo_prnt_marital_v2          0.112973
## asr_scr_internal_t:demo_comb_income_v2           0.254009
## asr_scr_internal_t:demo_fam_exp                  0.419388
## asr_scr_internal_t:demo_yrs_1                    0.854245
## asr_scr_internal_t:demo_yrs_2                    0.134351
## asr_scr_internal_t:parent_rules_q1               0.504253
## asr_scr_internal_t:parent_rules_q4               0.914549
## asr_scr_internal_t:parent_rules_q7               0.047278 *
## asr_scr_internal_t:su_risk_p_1                   0.781244
## asr_scr_internal_t:su_risk_p_2_3                 0.966983
## asr_scr_internal_t:su_risk_p_4_5                 0.846248
## asr_scr_internal_t:neighborhood1_2_3_p           0.698061
## asr_scr_internal_t:neighborhood_crime_y          0.427521
## asr_scr_internal_t:sexM                          0.100712
## asr_scr_external_t:asr_scr_totprob_t             0.018838 *
## asr_scr_external_t:asr_scr_depress_t             0.826363
## asr_scr_external_t:asr_scr_anxdisord_t           0.161937
## asr_scr_external_t:asr_scr_somaticpr_t           0.276235
## asr_scr_external_t:asr_scr_avoidant_t            0.028844 *
## asr_scr_external_t:asr_scr_adhd_t                0.430181
## asr_scr_external_t:asr_scr_antisocial_t          0.287845
## asr_scr_external_t:asr_scr_inattention_t         0.588406
## asr_scr_external_t:asr_scr_hyperactive_t         0.333135
## asr_scr_external_t:crpbi_bothcare                0.580586
## asr_scr_external_t:parent_monitor_y              0.746824
## asr_scr_external_t:kbi_p_conflict                0.684278
```

```
## asr_scr_external_t:kbi_p_c_best_friend          0.905113
## asr_scr_external_t:kbi_p_c_reg_friend_group     0.072889 .
## asr_scr_external_t:kbi_p_c_bully                0.921265
## asr_scr_external_t:kbi_p_c_mh_sa                0.067631 .
## asr_scr_external_t:fes_youth                    0.809898
## asr_scr_external_t:fes_p_ss_fc_pr               0.613357
## asr_scr_external_t:macv_p_ss_fs                 0.037758 *
## asr_scr_external_t:macv_p_ss_fo                 0.028975 *
## asr_scr_external_t:macv_p_ss_isr                0.198364
## asr_scr_external_t:macv_p_ss_fr                 0.115193
## asr_scr_external_t:macv_p_ss_r                  0.537455
## asr_scr_external_t:demo_prnt_age_v2             0.102419
## asr_scr_external_t:demo_prnt_marital_v2         0.990478
## asr_scr_external_t:demo_comb_income_v2          0.777019
## asr_scr_external_t:demo_fam_exp                 0.488221
## asr_scr_external_t:demo_yrs_1                   0.368841
## asr_scr_external_t:demo_yrs_2                   0.963537
## asr_scr_external_t:parent_rules_q1              0.405857
## asr_scr_external_t:parent_rules_q4              0.536900
## asr_scr_external_t:parent_rules_q7              0.167894
## asr_scr_external_t:su_risk_p_1                  0.521571
## asr_scr_external_t:su_risk_p_2_3                0.247970
## asr_scr_external_t:su_risk_p_4_5                0.072984 .
## asr_scr_external_t:neighborhood1_2_3_p          0.289748
## asr_scr_external_t:neighborhood_crime_y         0.778208
## asr_scr_external_t:sexM                         0.059571 .
## asr_scr_totprob_t:asr_scr_depress_t             0.677095
## asr_scr_totprob_t:asr_scr_anxdisord_t           0.217373
## asr_scr_totprob_t:asr_scr_somaticpr_t           0.170794
## asr_scr_totprob_t:asr_scr_avoidant_t            0.057257 .
## asr_scr_totprob_t:asr_scr_adhd_t                0.367001
## asr_scr_totprob_t:asr_scr_antisocial_t          0.922511
## asr_scr_totprob_t:asr_scr_inattention_t         0.473794
## asr_scr_totprob_t:asr_scr_hyperactive_t         0.921288
## asr_scr_totprob_t:crpbi_bothcare                0.773973
## asr_scr_totprob_t:parent_monitor_y              0.418778
## asr_scr_totprob_t:kbi_p_conflict                0.517881
## asr_scr_totprob_t:kbi_p_c_best_friend           0.942516
## asr_scr_totprob_t:kbi_p_c_reg_friend_group      0.352129
## asr_scr_totprob_t:kbi_p_c_bully                 0.368392
## asr_scr_totprob_t:kbi_p_c_mh_sa                 0.141168
## asr_scr_totprob_t:fes_youth                     0.449581
## asr_scr_totprob_t:fes_p_ss_fc_pr                0.772720
## asr_scr_totprob_t:macv_p_ss_fs                  0.036227 *
## asr_scr_totprob_t:macv_p_ss_fo                  0.106812
## asr_scr_totprob_t:macv_p_ss_isr                 0.692134
## asr_scr_totprob_t:macv_p_ss_fr                  0.541309
## asr_scr_totprob_t:macv_p_ss_r                   0.520184
## asr_scr_totprob_t:demo_prnt_age_v2              0.302024
## asr_scr_totprob_t:demo_prnt_marital_v2          0.962083
## asr_scr_totprob_t:demo_comb_income_v2           0.606341
```

```
## asr_scr_totprob_t:demo_fam_exp              0.874613
## asr_scr_totprob_t:demo_yrs_1               0.733904
## asr_scr_totprob_t:demo_yrs_2               0.493364
## asr_scr_totprob_t:parent_rules_q1          0.910774
## asr_scr_totprob_t:parent_rules_q4          0.330237
## asr_scr_totprob_t:parent_rules_q7          0.033340 *
## asr_scr_totprob_t:su_risk_p_1              0.745271
## asr_scr_totprob_t:su_risk_p_2_3            0.677921
## asr_scr_totprob_t:su_risk_p_4_5            0.467124
## asr_scr_totprob_t:neighborhood1_2_3_p      0.058587 .
## asr_scr_totprob_t:neighborhood_crime_y     0.452939
## asr_scr_totprob_t:sexM                     0.025356 *
## asr_scr_depress_t:asr_scr_anxdisord_t      0.569950
## asr_scr_depress_t:asr_scr_somaticpr_t      0.014928 *
## asr_scr_depress_t:asr_scr_avoidant_t       0.769316
## asr_scr_depress_t:asr_scr_adhd_t           0.218457
## asr_scr_depress_t:asr_scr_antisocial_t     0.906147
## asr_scr_depress_t:asr_scr_inattention_t    0.132625
## asr_scr_depress_t:asr_scr_hyperactive_t    0.290402
## asr_scr_depress_t:crpbi_bothcare           0.536345
## asr_scr_depress_t:parent_monitor_y         0.570730
## asr_scr_depress_t:kbi_p_conflict           0.482469
## asr_scr_depress_t:kbi_p_c_best_friend      0.397145
## asr_scr_depress_t:kbi_p_c_reg_friend_group 0.224837
## asr_scr_depress_t:kbi_p_c_bully            0.728176
## asr_scr_depress_t:kbi_p_c_mh_sa            0.353629
## asr_scr_depress_t:fes_youth                0.458653
## asr_scr_depress_t:fes_p_ss_fc_pr           0.438032
## asr_scr_depress_t:macv_p_ss_fs             0.003328 **
## asr_scr_depress_t:macv_p_ss_fo             0.576053
## asr_scr_depress_t:macv_p_ss_isr            0.398634
## asr_scr_depress_t:macv_p_ss_fr             0.038184 *
## asr_scr_depress_t:macv_p_ss_r              0.276199
## asr_scr_depress_t:demo_prnt_age_v2         0.050358 .
## asr_scr_depress_t:demo_prnt_marital_v2     0.551455
## asr_scr_depress_t:demo_comb_income_v2      0.910414
## asr_scr_depress_t:demo_fam_exp             0.304769
## asr_scr_depress_t:demo_yrs_1               0.886738
## asr_scr_depress_t:demo_yrs_2               0.949691
## asr_scr_depress_t:parent_rules_q1          0.319828
## asr_scr_depress_t:parent_rules_q4          0.586632
## asr_scr_depress_t:parent_rules_q7          0.599983
## asr_scr_depress_t:su_risk_p_1              0.588536
## asr_scr_depress_t:su_risk_p_2_3            0.339140
## asr_scr_depress_t:su_risk_p_4_5            0.888480
## asr_scr_depress_t:neighborhood1_2_3_p      0.068439 .
## asr_scr_depress_t:neighborhood_crime_y     0.376267
## asr_scr_depress_t:sexM                     0.998027
## asr_scr_anxdisord_t:asr_scr_somaticpr_t    0.170668
## asr_scr_anxdisord_t:asr_scr_avoidant_t     0.028171 *
## asr_scr_anxdisord_t:asr_scr_adhd_t         0.160794
```

```
## asr_scr_anxdisord_t:asr_scr_antisocial_t         0.075748 .
## asr_scr_anxdisord_t:asr_scr_inattention_t        0.680980
## asr_scr_anxdisord_t:asr_scr_hyperactive_t        0.200802
## asr_scr_anxdisord_t:crpbi_bothcare               0.346332
## asr_scr_anxdisord_t:parent_monitor_y             0.010580 *
## asr_scr_anxdisord_t:kbi_p_conflict               0.041673 *
## asr_scr_anxdisord_t:kbi_p_c_best_friend          0.708970
## asr_scr_anxdisord_t:kbi_p_c_reg_friend_group     0.529668
## asr_scr_anxdisord_t:kbi_p_c_bully                0.486853
## asr_scr_anxdisord_t:kbi_p_c_mh_sa                0.972755
## asr_scr_anxdisord_t:fes_youth                    0.773694
## asr_scr_anxdisord_t:fes_p_ss_fc_pr               0.020612 *
## asr_scr_anxdisord_t:macv_p_ss_fs                 0.146657
## asr_scr_anxdisord_t:macv_p_ss_fo                 0.778063
## asr_scr_anxdisord_t:macv_p_ss_isr                0.916789
## asr_scr_anxdisord_t:macv_p_ss_fr                 0.333596
## asr_scr_anxdisord_t:macv_p_ss_r                  0.331493
## asr_scr_anxdisord_t:demo_prnt_age_v2             0.006927 **
## asr_scr_anxdisord_t:demo_prnt_marital_v2         0.386628
## asr_scr_anxdisord_t:demo_comb_income_v2          0.561018
## asr_scr_anxdisord_t:demo_fam_exp                 0.228523
## asr_scr_anxdisord_t:demo_yrs_1                   0.694533
## asr_scr_anxdisord_t:demo_yrs_2                   0.240013
## asr_scr_anxdisord_t:parent_rules_q1              0.964054
## asr_scr_anxdisord_t:parent_rules_q4              0.097713 .
## asr_scr_anxdisord_t:parent_rules_q7              0.100747
## asr_scr_anxdisord_t:su_risk_p_1                  0.975454
## asr_scr_anxdisord_t:su_risk_p_2_3                0.423460
## asr_scr_anxdisord_t:su_risk_p_4_5                0.083415 .
## asr_scr_anxdisord_t:neighborhood1_2_3_p          0.070188 .
## asr_scr_anxdisord_t:neighborhood_crime_y         0.208962
## asr_scr_anxdisord_t:sexM                         0.890336
## asr_scr_somaticpr_t:asr_scr_avoidant_t           0.988983
## asr_scr_somaticpr_t:asr_scr_adhd_t               0.587736
## asr_scr_somaticpr_t:asr_scr_antisocial_t         0.866701
## asr_scr_somaticpr_t:asr_scr_inattention_t        0.557046
## asr_scr_somaticpr_t:asr_scr_hyperactive_t        0.043871 *
## asr_scr_somaticpr_t:crpbi_bothcare               0.792189
## asr_scr_somaticpr_t:parent_monitor_y             0.833439
## asr_scr_somaticpr_t:kbi_p_conflict               0.032341 *
## asr_scr_somaticpr_t:kbi_p_c_best_friend          0.327525
## asr_scr_somaticpr_t:kbi_p_c_reg_friend_group     0.382424
## asr_scr_somaticpr_t:kbi_p_c_bully                0.340695
## asr_scr_somaticpr_t:kbi_p_c_mh_sa                0.358454
## asr_scr_somaticpr_t:fes_youth                    0.969646
## asr_scr_somaticpr_t:fes_p_ss_fc_pr               0.236378
## asr_scr_somaticpr_t:macv_p_ss_fs                 0.820139
## asr_scr_somaticpr_t:macv_p_ss_fo                 0.346390
## asr_scr_somaticpr_t:macv_p_ss_isr                0.126745
## asr_scr_somaticpr_t:macv_p_ss_fr                 0.588589
## asr_scr_somaticpr_t:macv_p_ss_r                  0.169662
```

```
## asr_scr_somaticpr_t:demo_prnt_age_v2            0.498102
## asr_scr_somaticpr_t:demo_prnt_marital_v2        0.858854
## asr_scr_somaticpr_t:demo_comb_income_v2         0.083808 .
## asr_scr_somaticpr_t:demo_fam_exp                0.464437
## asr_scr_somaticpr_t:demo_yrs_1                  0.684331
## asr_scr_somaticpr_t:demo_yrs_2                  0.147642
## asr_scr_somaticpr_t:parent_rules_q1             0.565056
## asr_scr_somaticpr_t:parent_rules_q4             0.811589
## asr_scr_somaticpr_t:parent_rules_q7             0.883246
## asr_scr_somaticpr_t:su_risk_p_1                 0.740383
## asr_scr_somaticpr_t:su_risk_p_2_3               0.630657
## asr_scr_somaticpr_t:su_risk_p_4_5               0.968704
## asr_scr_somaticpr_t:neighborhood1_2_3_p         0.720460
## asr_scr_somaticpr_t:neighborhood_crime_y        0.122106
## asr_scr_somaticpr_t:sexM                        0.086575 .
## asr_scr_avoidant_t:asr_scr_adhd_t               0.001836 **
## asr_scr_avoidant_t:asr_scr_antisocial_t         0.517702
## asr_scr_avoidant_t:asr_scr_inattention_t        0.042919 *
## asr_scr_avoidant_t:asr_scr_hyperactive_t        0.009318 **
## asr_scr_avoidant_t:crpbi_bothcare               0.072823 .
## asr_scr_avoidant_t:parent_monitor_y             0.186047
## asr_scr_avoidant_t:kbi_p_conflict               0.592874
## asr_scr_avoidant_t:kbi_p_c_best_friend          0.730605
## asr_scr_avoidant_t:kbi_p_c_reg_friend_group     0.326522
## asr_scr_avoidant_t:kbi_p_c_bully                0.696424
## asr_scr_avoidant_t:kbi_p_c_mh_sa                0.676438
## asr_scr_avoidant_t:fes_youth                    0.757576
## asr_scr_avoidant_t:fes_p_ss_fc_pr               0.006290 **
## asr_scr_avoidant_t:macv_p_ss_fs                 0.004446 **
## asr_scr_avoidant_t:macv_p_ss_fo                 0.041525 *
## asr_scr_avoidant_t:macv_p_ss_isr                0.616874
## asr_scr_avoidant_t:macv_p_ss_fr                 0.006704 **
## asr_scr_avoidant_t:macv_p_ss_r                  0.550962
## asr_scr_avoidant_t:demo_prnt_age_v2             0.845746
## asr_scr_avoidant_t:demo_prnt_marital_v2         0.300811
## asr_scr_avoidant_t:demo_comb_income_v2          0.206872
## asr_scr_avoidant_t:demo_fam_exp                 0.028706 *
## asr_scr_avoidant_t:demo_yrs_1                   0.124050
## asr_scr_avoidant_t:demo_yrs_2                   0.031087 *
## asr_scr_avoidant_t:parent_rules_q1              0.478590
## asr_scr_avoidant_t:parent_rules_q4              0.869038
## asr_scr_avoidant_t:parent_rules_q7              0.429564
## asr_scr_avoidant_t:su_risk_p_1                  0.625362
## asr_scr_avoidant_t:su_risk_p_2_3                0.852051
## asr_scr_avoidant_t:su_risk_p_4_5                0.563981
## asr_scr_avoidant_t:neighborhood1_2_3_p          0.662895
## asr_scr_avoidant_t:neighborhood_crime_y         0.972535
## asr_scr_avoidant_t:sexM                         0.173893
## asr_scr_adhd_t:asr_scr_antisocial_t             0.405958
## asr_scr_adhd_t:asr_scr_inattention_t            0.221155
## asr_scr_adhd_t:asr_scr_hyperactive_t            0.947461
```

```
## asr_scr_adhd_t:crpbi_bothcare                    0.582814
## asr_scr_adhd_t:parent_monitor_y                  0.577428
## asr_scr_adhd_t:kbi_p_conflict                     0.818434
## asr_scr_adhd_t:kbi_p_c_best_friend                0.414979
## asr_scr_adhd_t:kbi_p_c_reg_friend_group           0.667209
## asr_scr_adhd_t:kbi_p_c_bully                      0.089337 .
## asr_scr_adhd_t:kbi_p_c_mh_sa                       0.003361 **
## asr_scr_adhd_t:fes_youth                          0.339060
## asr_scr_adhd_t:fes_p_ss_fc_pr                     0.156104
## asr_scr_adhd_t:macv_p_ss_fs                       0.853573
## asr_scr_adhd_t:macv_p_ss_fo                       0.284194
## asr_scr_adhd_t:macv_p_ss_isr                      0.061970 .
## asr_scr_adhd_t:macv_p_ss_fr                       0.777392
## asr_scr_adhd_t:macv_p_ss_r                        0.109943
## asr_scr_adhd_t:demo_prnt_age_v2                   0.116603
## asr_scr_adhd_t:demo_prnt_marital_v2               0.030468 *
## asr_scr_adhd_t:demo_comb_income_v2                0.973622
## asr_scr_adhd_t:demo_fam_exp                       0.989590
## asr_scr_adhd_t:demo_yrs_1                         0.770535
## asr_scr_adhd_t:demo_yrs_2                         0.099665 .
## asr_scr_adhd_t:parent_rules_q1                    0.136519
## asr_scr_adhd_t:parent_rules_q4                    0.366221
## asr_scr_adhd_t:parent_rules_q7                    0.905892
## asr_scr_adhd_t:su_risk_p_1                        0.806890
## asr_scr_adhd_t:su_risk_p_2_3                      0.471708
## asr_scr_adhd_t:su_risk_p_4_5                      0.230565
## asr_scr_adhd_t:neighborhood1_2_3_p                0.685922
## asr_scr_adhd_t:neighborhood_crime_y               0.519347
## asr_scr_adhd_t:sexM                               0.925870
## asr_scr_antisocial_t:asr_scr_inattention_t        0.688954
## asr_scr_antisocial_t:asr_scr_hyperactive_t        0.729266
## asr_scr_antisocial_t:crpbi_bothcare               0.817351
## asr_scr_antisocial_t:parent_monitor_y             0.092204 .
## asr_scr_antisocial_t:kbi_p_conflict               0.350916
## asr_scr_antisocial_t:kbi_p_c_best_friend          0.561562
## asr_scr_antisocial_t:kbi_p_c_reg_friend_group     0.136751
## asr_scr_antisocial_t:kbi_p_c_bully                0.418024
## asr_scr_antisocial_t:kbi_p_c_mh_sa                0.231732
## asr_scr_antisocial_t:fes_youth                    0.307681
## asr_scr_antisocial_t:fes_p_ss_fc_pr               0.869125
## asr_scr_antisocial_t:macv_p_ss_fs                 0.852077
## asr_scr_antisocial_t:macv_p_ss_fo                 0.907253
## asr_scr_antisocial_t:macv_p_ss_isr                0.856419
## asr_scr_antisocial_t:macv_p_ss_fr                 0.097961 .
## asr_scr_antisocial_t:macv_p_ss_r                  0.503849
## asr_scr_antisocial_t:demo_prnt_age_v2             0.276440
## asr_scr_antisocial_t:demo_prnt_marital_v2         0.316495
## asr_scr_antisocial_t:demo_comb_income_v2          0.393630
## asr_scr_antisocial_t:demo_fam_exp                 0.450764
## asr_scr_antisocial_t:demo_yrs_1                   0.830772
## asr_scr_antisocial_t:demo_yrs_2                   0.501918
```

```
## asr_scr_antisocial_t:parent_rules_q1              0.176640
## asr_scr_antisocial_t:parent_rules_q4              0.288176
## asr_scr_antisocial_t:parent_rules_q7              0.682893
## asr_scr_antisocial_t:su_risk_p_1                  0.074677 .
## asr_scr_antisocial_t:su_risk_p_2_3                0.060023 .
## asr_scr_antisocial_t:su_risk_p_4_5                0.198976
## asr_scr_antisocial_t:neighborhood1_2_3_p          0.876728
## asr_scr_antisocial_t:neighborhood_crime_y         0.214518
## asr_scr_antisocial_t:sexM                         0.945777
## asr_scr_inattention_t:asr_scr_hyperactive_t       0.642517
## asr_scr_inattention_t:crpbi_bothcare              0.426687
## asr_scr_inattention_t:parent_monitor_y            0.600477
## asr_scr_inattention_t:kbi_p_conflict              0.982003
## asr_scr_inattention_t:kbi_p_c_best_friend         0.685561
## asr_scr_inattention_t:kbi_p_c_reg_friend_group    0.960510
## asr_scr_inattention_t:kbi_p_c_bully               0.042951 *
## asr_scr_inattention_t:kbi_p_c_mh_sa               0.366512
## asr_scr_inattention_t:fes_youth                   0.497740
## asr_scr_inattention_t:fes_p_ss_fc_pr              0.851844
## asr_scr_inattention_t:macv_p_ss_fs                0.083413 .
## asr_scr_inattention_t:macv_p_ss_fo                0.203271
## asr_scr_inattention_t:macv_p_ss_isr               0.302361
## asr_scr_inattention_t:macv_p_ss_fr                0.700864
## asr_scr_inattention_t:macv_p_ss_r                 0.052597 .
## asr_scr_inattention_t:demo_prnt_age_v2            0.293990
## asr_scr_inattention_t:demo_prnt_marital_v2        0.094548 .
## asr_scr_inattention_t:demo_comb_income_v2         0.603933
## asr_scr_inattention_t:demo_fam_exp                0.460123
## asr_scr_inattention_t:demo_yrs_1                  0.899324
## asr_scr_inattention_t:demo_yrs_2                  0.142210
## asr_scr_inattention_t:parent_rules_q1             0.168408
## asr_scr_inattention_t:parent_rules_q4             0.816088
## asr_scr_inattention_t:parent_rules_q7             0.373010
## asr_scr_inattention_t:su_risk_p_1                 0.564732
## asr_scr_inattention_t:su_risk_p_2_3               0.281180
## asr_scr_inattention_t:su_risk_p_4_5               0.072200 .
## asr_scr_inattention_t:neighborhood1_2_3_p         0.661105
## asr_scr_inattention_t:neighborhood_crime_y        0.043772 *
## asr_scr_inattention_t:sexM                        0.146753
## asr_scr_hyperactive_t:crpbi_bothcare              0.476481
## asr_scr_hyperactive_t:parent_monitor_y            0.185918
## asr_scr_hyperactive_t:kbi_p_conflict              0.259972
## asr_scr_hyperactive_t:kbi_p_c_best_friend         0.734159
## asr_scr_hyperactive_t:kbi_p_c_reg_friend_group    0.263246
## asr_scr_hyperactive_t:kbi_p_c_bully               0.009897 **
## asr_scr_hyperactive_t:kbi_p_c_mh_sa               1.60e-05 ***
## asr_scr_hyperactive_t:fes_youth                   0.359105
## asr_scr_hyperactive_t:fes_p_ss_fc_pr              0.391449
## asr_scr_hyperactive_t:macv_p_ss_fs                0.811021
## asr_scr_hyperactive_t:macv_p_ss_fo                0.440516
## asr_scr_hyperactive_t:macv_p_ss_isr               0.062674 .
```

```
## asr_scr_hyperactive_t:macv_p_ss_fr              0.361054
## asr_scr_hyperactive_t:macv_p_ss_r               0.642327
## asr_scr_hyperactive_t:demo_prnt_age_v2          0.252676
## asr_scr_hyperactive_t:demo_prnt_marital_v2      0.366811
## asr_scr_hyperactive_t:demo_comb_income_v2       0.590095
## asr_scr_hyperactive_t:demo_fam_exp              0.604742
## asr_scr_hyperactive_t:demo_yrs_1                0.931535
## asr_scr_hyperactive_t:demo_yrs_2                0.981848
## asr_scr_hyperactive_t:parent_rules_q1           0.266995
## asr_scr_hyperactive_t:parent_rules_q4           0.450142
## asr_scr_hyperactive_t:parent_rules_q7           0.756457
## asr_scr_hyperactive_t:su_risk_p_1               0.644786
## asr_scr_hyperactive_t:su_risk_p_2_3             0.121311
## asr_scr_hyperactive_t:su_risk_p_4_5             0.164513
## asr_scr_hyperactive_t:neighborhood1_2_3_p       0.518625
## asr_scr_hyperactive_t:neighborhood_crime_y      0.398567
## asr_scr_hyperactive_t:sexM                      0.260623
## crpbi_bothcare:parent_monitor_y                 0.032128 *
## crpbi_bothcare:kbi_p_conflict                   0.850249
## crpbi_bothcare:kbi_p_c_best_friend              0.706785
## crpbi_bothcare:kbi_p_c_reg_friend_group         0.305960
## crpbi_bothcare:kbi_p_c_bully                    0.000175 ***
## crpbi_bothcare:kbi_p_c_mh_sa                    0.385124
## crpbi_bothcare:fes_youth                        0.575124
## crpbi_bothcare:fes_p_ss_fc_pr                   0.600537
## crpbi_bothcare:macv_p_ss_fs                     0.087730 .
## crpbi_bothcare:macv_p_ss_fo                     0.470108
## crpbi_bothcare:macv_p_ss_isr                    0.581286
## crpbi_bothcare:macv_p_ss_fr                     0.734824
## crpbi_bothcare:macv_p_ss_r                      0.561255
## crpbi_bothcare:demo_prnt_age_v2                 0.487624
## crpbi_bothcare:demo_prnt_marital_v2             0.802852
## crpbi_bothcare:demo_comb_income_v2              0.612446
## crpbi_bothcare:demo_fam_exp                     0.560132
## crpbi_bothcare:demo_yrs_1                       0.460912
## crpbi_bothcare:demo_yrs_2                       0.541752
## crpbi_bothcare:parent_rules_q1                  0.762040
## crpbi_bothcare:parent_rules_q4                  0.405884
## crpbi_bothcare:parent_rules_q7                  0.188915
## crpbi_bothcare:su_risk_p_1                      0.573638
## crpbi_bothcare:su_risk_p_2_3                    0.003566 **
## crpbi_bothcare:su_risk_p_4_5                    0.198369
## crpbi_bothcare:neighborhood1_2_3_p              0.509695
## crpbi_bothcare:neighborhood_crime_y             0.431086
## crpbi_bothcare:sexM                             0.236881
## parent_monitor_y:kbi_p_conflict                 0.824789
## parent_monitor_y:kbi_p_c_best_friend            0.857150
## parent_monitor_y:kbi_p_c_reg_friend_group       0.072619 .
## parent_monitor_y:kbi_p_c_bully                  0.540636
## parent_monitor_y:kbi_p_c_mh_sa                  0.206865
## parent_monitor_y:fes_youth                      0.800663
```

```
## parent_monitor_y:fes_p_ss_fc_pr                    0.671442
## parent_monitor_y:macv_p_ss_fs                      0.891650
## parent_monitor_y:macv_p_ss_fo                      0.713732
## parent_monitor_y:macv_p_ss_isr                     0.492835
## parent_monitor_y:macv_p_ss_fr                      0.970623
## parent_monitor_y:macv_p_ss_r                       0.945291
## parent_monitor_y:demo_prnt_age_v2                  0.206784
## parent_monitor_y:demo_prnt_marital_v2              0.224833
## parent_monitor_y:demo_comb_income_v2               0.711779
## parent_monitor_y:demo_fam_exp                      0.380430
## parent_monitor_y:demo_yrs_1                        0.787531
## parent_monitor_y:demo_yrs_2                        0.456663
## parent_monitor_y:parent_rules_q1                   0.973785
## parent_monitor_y:parent_rules_q4                   0.012988 *
## parent_monitor_y:parent_rules_q7                   0.004333 **
## parent_monitor_y:su_risk_p_1                       0.560316
## parent_monitor_y:su_risk_p_2_3                     0.715936
## parent_monitor_y:su_risk_p_4_5                     0.672887
## parent_monitor_y:neighborhood1_2_3_p              0.788760
## parent_monitor_y:neighborhood_crime_y             0.103237
## parent_monitor_y:sexM                              0.749700
## kbi_p_conflict:kbi_p_c_best_friend                0.735553
## kbi_p_conflict:kbi_p_c_reg_friend_group           0.664134
## kbi_p_conflict:kbi_p_c_bully                       0.045867 *
## kbi_p_conflict:kbi_p_c_mh_sa                       0.054156 .
## kbi_p_conflict:fes_youth                           0.599352
## kbi_p_conflict:fes_p_ss_fc_pr                      0.268668
## kbi_p_conflict:macv_p_ss_fs                        0.471792
## kbi_p_conflict:macv_p_ss_fo                        0.267441
## kbi_p_conflict:macv_p_ss_isr                       0.624522
## kbi_p_conflict:macv_p_ss_fr                        0.348814
## kbi_p_conflict:macv_p_ss_r                         0.206232
## kbi_p_conflict:demo_prnt_age_v2                    0.579429
## kbi_p_conflict:demo_prnt_marital_v2                0.733387
## kbi_p_conflict:demo_comb_income_v2                 0.502739
## kbi_p_conflict:demo_fam_exp                        0.901609
## kbi_p_conflict:demo_yrs_1                          0.925055
## kbi_p_conflict:demo_yrs_2                          0.066931 .
## kbi_p_conflict:parent_rules_q1                     0.965334
## kbi_p_conflict:parent_rules_q4                     0.148851
## kbi_p_conflict:parent_rules_q7                     0.942828
## kbi_p_conflict:su_risk_p_1                         0.725787
## kbi_p_conflict:su_risk_p_2_3                       0.477815
## kbi_p_conflict:su_risk_p_4_5                       0.260302
## kbi_p_conflict:neighborhood1_2_3_p                0.504957
## kbi_p_conflict:neighborhood_crime_y               0.455917
## kbi_p_conflict:sexM                                0.667000
## kbi_p_c_best_friend:kbi_p_c_reg_friend_group      0.021766 *
## kbi_p_c_best_friend:kbi_p_c_bully                  0.494184
## kbi_p_c_best_friend:kbi_p_c_mh_sa                  0.327587
## kbi_p_c_best_friend:fes_youth                      0.844917
```

```
## kbi_p_c_best_friend:fes_p_ss_fc_pr                  0.700070
## kbi_p_c_best_friend:macv_p_ss_fs                    0.853791
## kbi_p_c_best_friend:macv_p_ss_fo                    0.017625 *
## kbi_p_c_best_friend:macv_p_ss_isr                   0.125411
## kbi_p_c_best_friend:macv_p_ss_fr                    0.922947
## kbi_p_c_best_friend:macv_p_ss_r                     0.832793
## kbi_p_c_best_friend:demo_prnt_age_v2                0.891168
## kbi_p_c_best_friend:demo_prnt_marital_v2            0.541374
## kbi_p_c_best_friend:demo_comb_income_v2             0.249762
## kbi_p_c_best_friend:demo_fam_exp                    0.186119
## kbi_p_c_best_friend:demo_yrs_1                      0.846142
## kbi_p_c_best_friend:demo_yrs_2                      0.146352
## kbi_p_c_best_friend:parent_rules_q1                 0.319546
## kbi_p_c_best_friend:parent_rules_q4                 0.030001 *
## kbi_p_c_best_friend:parent_rules_q7                 0.031575 *
## kbi_p_c_best_friend:su_risk_p_1                     0.874556
## kbi_p_c_best_friend:su_risk_p_2_3                   0.870741
## kbi_p_c_best_friend:su_risk_p_4_5                   0.666435
## kbi_p_c_best_friend:neighborhood1_2_3_p             0.162339
## kbi_p_c_best_friend:neighborhood_crime_y            0.189805
## kbi_p_c_best_friend:sexM                            0.200128
## kbi_p_c_reg_friend_group:kbi_p_c_bully              0.753154
## kbi_p_c_reg_friend_group:kbi_p_c_mh_sa              0.000517 ***
## kbi_p_c_reg_friend_group:fes_youth                  0.277420
## kbi_p_c_reg_friend_group:fes_p_ss_fc_pr             0.182092
## kbi_p_c_reg_friend_group:macv_p_ss_fs               0.438226
## kbi_p_c_reg_friend_group:macv_p_ss_fo               0.240267
## kbi_p_c_reg_friend_group:macv_p_ss_isr              0.386831
## kbi_p_c_reg_friend_group:macv_p_ss_fr               0.614997
## kbi_p_c_reg_friend_group:macv_p_ss_r                0.437863
## kbi_p_c_reg_friend_group:demo_prnt_age_v2           0.556891
## kbi_p_c_reg_friend_group:demo_prnt_marital_v2       0.333525
## kbi_p_c_reg_friend_group:demo_comb_income_v2        0.905908
## kbi_p_c_reg_friend_group:demo_fam_exp               0.090946 .
## kbi_p_c_reg_friend_group:demo_yrs_1                 0.964222
## kbi_p_c_reg_friend_group:demo_yrs_2                 0.336856
## kbi_p_c_reg_friend_group:parent_rules_q1            0.558304
## kbi_p_c_reg_friend_group:parent_rules_q4            0.687439
## kbi_p_c_reg_friend_group:parent_rules_q7            0.809511
## kbi_p_c_reg_friend_group:su_risk_p_1                0.859118
## kbi_p_c_reg_friend_group:su_risk_p_2_3              0.661192
## kbi_p_c_reg_friend_group:su_risk_p_4_5              0.454212
## kbi_p_c_reg_friend_group:neighborhood1_2_3_p        0.124699
## kbi_p_c_reg_friend_group:neighborhood_crime_y       0.271574
## kbi_p_c_reg_friend_group:sexM                       0.903954
## kbi_p_c_bully:kbi_p_c_mh_sa                         0.332280
## kbi_p_c_bully:fes_youth                             0.116805
## kbi_p_c_bully:fes_p_ss_fc_pr                        0.711291
## kbi_p_c_bully:macv_p_ss_fs                          0.259816
## kbi_p_c_bully:macv_p_ss_fo                          0.185044
## kbi_p_c_bully:macv_p_ss_isr                         0.058528 .
```

```
## kbi_p_c_bully:macv_p_ss_fr                    0.229163
## kbi_p_c_bully:macv_p_ss_r                     0.553786
## kbi_p_c_bully:demo_prnt_age_v2                0.319745
## kbi_p_c_bully:demo_prnt_marital_v2            0.453023
## kbi_p_c_bully:demo_comb_income_v2             0.931526
## kbi_p_c_bully:demo_fam_exp                    0.024611 *
## kbi_p_c_bully:demo_yrs_1                      0.325363
## kbi_p_c_bully:demo_yrs_2                      0.389141
## kbi_p_c_bully:parent_rules_q1                 0.334770
## kbi_p_c_bully:parent_rules_q4                 0.007550 **
## kbi_p_c_bully:parent_rules_q7                 0.171207
## kbi_p_c_bully:su_risk_p_1                     0.150774
## kbi_p_c_bully:su_risk_p_2_3                   0.604542
## kbi_p_c_bully:su_risk_p_4_5                   0.014939 *
## kbi_p_c_bully:neighborhood1_2_3_p             0.906251
## kbi_p_c_bully:neighborhood_crime_y            0.004115 **
## kbi_p_c_bully:sexM                            0.843242
## kbi_p_c_mh_sa:fes_youth                       0.917822
## kbi_p_c_mh_sa:fes_p_ss_fc_pr                  0.817625
## kbi_p_c_mh_sa:macv_p_ss_fs                    0.314676
## kbi_p_c_mh_sa:macv_p_ss_fo                    0.240744
## kbi_p_c_mh_sa:macv_p_ss_isr                   0.383242
## kbi_p_c_mh_sa:macv_p_ss_fr                    0.341351
## kbi_p_c_mh_sa:macv_p_ss_r                     0.071960 .
## kbi_p_c_mh_sa:demo_prnt_age_v2                0.791014
## kbi_p_c_mh_sa:demo_prnt_marital_v2            0.012397 *
## kbi_p_c_mh_sa:demo_comb_income_v2             0.480755
## kbi_p_c_mh_sa:demo_fam_exp                    0.687619
## kbi_p_c_mh_sa:demo_yrs_1                      0.023667 *
## kbi_p_c_mh_sa:demo_yrs_2                      0.003551 **
## kbi_p_c_mh_sa:parent_rules_q1                 0.241060
## kbi_p_c_mh_sa:parent_rules_q4                 0.849063
## kbi_p_c_mh_sa:parent_rules_q7                 0.643478
## kbi_p_c_mh_sa:su_risk_p_1                     0.887219
## kbi_p_c_mh_sa:su_risk_p_2_3                   0.030072 *
## kbi_p_c_mh_sa:su_risk_p_4_5                   0.340591
## kbi_p_c_mh_sa:neighborhood1_2_3_p             0.161510
## kbi_p_c_mh_sa:neighborhood_crime_y            0.444328
## kbi_p_c_mh_sa:sexM                            0.000963 ***
## fes_youth:fes_p_ss_fc_pr                      0.675041
## fes_youth:macv_p_ss_fs                        0.981795
## fes_youth:macv_p_ss_fo                        0.238533
## fes_youth:macv_p_ss_isr                       0.360659
## fes_youth:macv_p_ss_fr                        0.852791
## fes_youth:macv_p_ss_r                         0.150701
## fes_youth:demo_prnt_age_v2                    0.392454
## fes_youth:demo_prnt_marital_v2                0.466524
## fes_youth:demo_comb_income_v2                 0.469945
## fes_youth:demo_fam_exp                        0.805456
## fes_youth:demo_yrs_1                          0.121544
## fes_youth:demo_yrs_2                          0.129652
```

```
## fes_youth:parent_rules_q1                    0.014169 *
## fes_youth:parent_rules_q4                    0.390326
## fes_youth:parent_rules_q7                    0.350671
## fes_youth:su_risk_p_1                        0.406004
## fes_youth:su_risk_p_2_3                      0.552989
## fes_youth:su_risk_p_4_5                      0.757616
## fes_youth:neighborhood1_2_3_p               0.523258
## fes_youth:neighborhood_crime_y              0.629162
## fes_youth:sexM                               0.458798
## fes_p_ss_fc_pr:macv_p_ss_fs                  0.189194
## fes_p_ss_fc_pr:macv_p_ss_fo                  0.264435
## fes_p_ss_fc_pr:macv_p_ss_isr                 0.837942
## fes_p_ss_fc_pr:macv_p_ss_fr                  0.912364
## fes_p_ss_fc_pr:macv_p_ss_r                   0.639808
## fes_p_ss_fc_pr:demo_prnt_age_v2              0.122370
## fes_p_ss_fc_pr:demo_prnt_marital_v2          0.729645
## fes_p_ss_fc_pr:demo_comb_income_v2           0.563015
## fes_p_ss_fc_pr:demo_fam_exp                  0.223954
## fes_p_ss_fc_pr:demo_yrs_1                    0.239579
## fes_p_ss_fc_pr:demo_yrs_2                    0.659302
## fes_p_ss_fc_pr:parent_rules_q1               0.726756
## fes_p_ss_fc_pr:parent_rules_q4               0.086180 .
## fes_p_ss_fc_pr:parent_rules_q7               0.509327
## fes_p_ss_fc_pr:su_risk_p_1                   0.512841
## fes_p_ss_fc_pr:su_risk_p_2_3                 0.065411 .
## fes_p_ss_fc_pr:su_risk_p_4_5                 0.882664
## fes_p_ss_fc_pr:neighborhood1_2_3_p           0.798541
## fes_p_ss_fc_pr:neighborhood_crime_y          0.703639
## fes_p_ss_fc_pr:sexM                          0.093072 .
## macv_p_ss_fs:macv_p_ss_fo                    0.273265
## macv_p_ss_fs:macv_p_ss_isr                   0.917084
## macv_p_ss_fs:macv_p_ss_fr                    0.141144
## macv_p_ss_fs:macv_p_ss_r                     0.084268 .
## macv_p_ss_fs:demo_prnt_age_v2                0.874819
## macv_p_ss_fs:demo_prnt_marital_v2            0.270263
## macv_p_ss_fs:demo_comb_income_v2             0.350206
## macv_p_ss_fs:demo_fam_exp                    0.631777
## macv_p_ss_fs:demo_yrs_1                      0.312130
## macv_p_ss_fs:demo_yrs_2                      0.220746
## macv_p_ss_fs:parent_rules_q1                 0.850773
## macv_p_ss_fs:parent_rules_q4                 0.405561
## macv_p_ss_fs:parent_rules_q7                 0.539263
## macv_p_ss_fs:su_risk_p_1                     0.670569
## macv_p_ss_fs:su_risk_p_2_3                   0.127832
## macv_p_ss_fs:su_risk_p_4_5                   0.341351
## macv_p_ss_fs:neighborhood1_2_3_p             0.492296
## macv_p_ss_fs:neighborhood_crime_y            0.358505
## macv_p_ss_fs:sexM                            0.518574
## macv_p_ss_fo:macv_p_ss_isr                   0.859288
## macv_p_ss_fo:macv_p_ss_fr                    0.362683
## macv_p_ss_fo:macv_p_ss_r                     0.429247
```

```
## macv_p_ss_fo:demo_prnt_age_v2                      0.028532 *
## macv_p_ss_fo:demo_prnt_marital_v2                  0.553167
## macv_p_ss_fo:demo_comb_income_v2                   0.586863
## macv_p_ss_fo:demo_fam_exp                          0.831243
## macv_p_ss_fo:demo_yrs_1                            0.472043
## macv_p_ss_fo:demo_yrs_2                            0.124808
## macv_p_ss_fo:parent_rules_q1                       0.707606
## macv_p_ss_fo:parent_rules_q4                       0.678953
## macv_p_ss_fo:parent_rules_q7                       0.457997
## macv_p_ss_fo:su_risk_p_1                           0.656595
## macv_p_ss_fo:su_risk_p_2_3                         0.404116
## macv_p_ss_fo:su_risk_p_4_5                         0.309251
## macv_p_ss_fo:neighborhood1_2_3_p                   0.825083
## macv_p_ss_fo:neighborhood_crime_y                  0.778844
## macv_p_ss_fo:sexM                                  0.519081
## macv_p_ss_isr:macv_p_ss_fr                         0.464986
## macv_p_ss_isr:macv_p_ss_r                          0.582321
## macv_p_ss_isr:demo_prnt_age_v2                     0.564920
## macv_p_ss_isr:demo_prnt_marital_v2                 0.735141
## macv_p_ss_isr:demo_comb_income_v2                  0.337995
## macv_p_ss_isr:demo_fam_exp                         0.326023
## macv_p_ss_isr:demo_yrs_1                           0.671280
## macv_p_ss_isr:demo_yrs_2                           0.282833
## macv_p_ss_isr:parent_rules_q1                      0.044836 *
## macv_p_ss_isr:parent_rules_q4                      0.953909
## macv_p_ss_isr:parent_rules_q7                      0.430241
## macv_p_ss_isr:su_risk_p_1                          0.105174
## macv_p_ss_isr:su_risk_p_2_3                        0.368524
## macv_p_ss_isr:su_risk_p_4_5                        0.011370 *
## macv_p_ss_isr:neighborhood1_2_3_p                  0.070787 .
## macv_p_ss_isr:neighborhood_crime_y                 0.043355 *
## macv_p_ss_isr:sexM                                 0.191755
## macv_p_ss_fr:macv_p_ss_r                           0.763998
## macv_p_ss_fr:demo_prnt_age_v2                      0.707133
## macv_p_ss_fr:demo_prnt_marital_v2                  0.391489
## macv_p_ss_fr:demo_comb_income_v2                   0.636139
## macv_p_ss_fr:demo_fam_exp                          0.526615
## macv_p_ss_fr:demo_yrs_1                            0.395033
## macv_p_ss_fr:demo_yrs_2                            0.940391
## macv_p_ss_fr:parent_rules_q1                       0.605441
## macv_p_ss_fr:parent_rules_q4                       0.163980
## macv_p_ss_fr:parent_rules_q7                       0.767328
## macv_p_ss_fr:su_risk_p_1                           0.729190
## macv_p_ss_fr:su_risk_p_2_3                         0.410947
## macv_p_ss_fr:su_risk_p_4_5                         0.639294
## macv_p_ss_fr:neighborhood1_2_3_p                   0.231567
## macv_p_ss_fr:neighborhood_crime_y                  0.180813
## macv_p_ss_fr:sexM                                  0.377350
## macv_p_ss_r:demo_prnt_age_v2                       0.553352
## macv_p_ss_r:demo_prnt_marital_v2                   0.229920
## macv_p_ss_r:demo_comb_income_v2                    0.753140
```

```
## macv_p_ss_r:demo_fam_exp                      0.460094
## macv_p_ss_r:demo_yrs_1                        0.097032 .
## macv_p_ss_r:demo_yrs_2                        0.405996
## macv_p_ss_r:parent_rules_q1                   0.991168
## macv_p_ss_r:parent_rules_q4                   0.337018
## macv_p_ss_r:parent_rules_q7                   0.688441
## macv_p_ss_r:su_risk_p_1                       0.453921
## macv_p_ss_r:su_risk_p_2_3                     0.318942
## macv_p_ss_r:su_risk_p_4_5                     0.442632
## macv_p_ss_r:neighborhood1_2_3_p              0.444744
## macv_p_ss_r:neighborhood_crime_y             0.506485
## macv_p_ss_r:sexM                             0.740078
## demo_prnt_age_v2:demo_prnt_marital_v2        0.217568
## demo_prnt_age_v2:demo_comb_income_v2         0.002390 **
## demo_prnt_age_v2:demo_fam_exp                0.269464
## demo_prnt_age_v2:demo_yrs_1                  0.485116
## demo_prnt_age_v2:demo_yrs_2                  0.103771
## demo_prnt_age_v2:parent_rules_q1             0.211441
## demo_prnt_age_v2:parent_rules_q4             0.681255
## demo_prnt_age_v2:parent_rules_q7             0.390460
## demo_prnt_age_v2:su_risk_p_1                 0.779587
## demo_prnt_age_v2:su_risk_p_2_3               0.248748
## demo_prnt_age_v2:su_risk_p_4_5               0.105755
## demo_prnt_age_v2:neighborhood1_2_3_p         0.629173
## demo_prnt_age_v2:neighborhood_crime_y        0.437537
## demo_prnt_age_v2:sexM                        0.162264
## demo_prnt_marital_v2:demo_comb_income_v2     0.812430
## demo_prnt_marital_v2:demo_fam_exp            0.478107
## demo_prnt_marital_v2:demo_yrs_1              0.641553
## demo_prnt_marital_v2:demo_yrs_2              0.400341
## demo_prnt_marital_v2:parent_rules_q1         0.048777 *
## demo_prnt_marital_v2:parent_rules_q4         0.012782 *
## demo_prnt_marital_v2:parent_rules_q7         0.925202
## demo_prnt_marital_v2:su_risk_p_1             0.455584
## demo_prnt_marital_v2:su_risk_p_2_3           0.016862 *
## demo_prnt_marital_v2:su_risk_p_4_5           0.091327 .
## demo_prnt_marital_v2:neighborhood1_2_3_p     0.071551 .
## demo_prnt_marital_v2:neighborhood_crime_y    0.501935
## demo_prnt_marital_v2:sexM                    0.284020
## demo_comb_income_v2:demo_fam_exp             0.291622
## demo_comb_income_v2:demo_yrs_1               0.065051 .
## demo_comb_income_v2:demo_yrs_2               0.976638
## demo_comb_income_v2:parent_rules_q1          0.176576
## demo_comb_income_v2:parent_rules_q4          0.589033
## demo_comb_income_v2:parent_rules_q7          0.440280
## demo_comb_income_v2:su_risk_p_1              0.719116
## demo_comb_income_v2:su_risk_p_2_3            0.086366 .
## demo_comb_income_v2:su_risk_p_4_5            0.004923 **
## demo_comb_income_v2:neighborhood1_2_3_p      0.001284 **
## demo_comb_income_v2:neighborhood_crime_y     0.452597
## demo_comb_income_v2:sexM                     0.921828
```

```
## demo_fam_exp:demo_yrs_1                        0.153609
## demo_fam_exp:demo_yrs_2                        0.188150
## demo_fam_exp:parent_rules_q1                   0.008292 **
## demo_fam_exp:parent_rules_q4                   0.354905
## demo_fam_exp:parent_rules_q7                   0.232705
## demo_fam_exp:su_risk_p_1                       0.395606
## demo_fam_exp:su_risk_p_2_3                     0.943249
## demo_fam_exp:su_risk_p_4_5                     0.765730
## demo_fam_exp:neighborhood1_2_3_p              0.742289
## demo_fam_exp:neighborhood_crime_y             0.825773
## demo_fam_exp:sexM                              0.401267
## demo_yrs_1:demo_yrs_2                          0.554141
## demo_yrs_1:parent_rules_q1                     0.250962
## demo_yrs_1:parent_rules_q4                     0.343866
## demo_yrs_1:parent_rules_q7                     0.833072
## demo_yrs_1:su_risk_p_1                         0.622322
## demo_yrs_1:su_risk_p_2_3                       0.001486 **
## demo_yrs_1:su_risk_p_4_5                       0.122853
## demo_yrs_1:neighborhood1_2_3_p                0.981134
## demo_yrs_1:neighborhood_crime_y               0.673186
## demo_yrs_1:sexM                                0.152060
## demo_yrs_2:parent_rules_q1                     0.366291
## demo_yrs_2:parent_rules_q4                     0.934106
## demo_yrs_2:parent_rules_q7                     0.610503
## demo_yrs_2:su_risk_p_1                         0.037331 *
## demo_yrs_2:su_risk_p_2_3                       0.224330
## demo_yrs_2:su_risk_p_4_5                       0.004435 **
## demo_yrs_2:neighborhood1_2_3_p                0.497857
## demo_yrs_2:neighborhood_crime_y               0.600242
## demo_yrs_2:sexM                                0.613145
## parent_rules_q1:parent_rules_q4               0.280078
## parent_rules_q1:parent_rules_q7               0.842148
## parent_rules_q1:su_risk_p_1                    0.612024
## parent_rules_q1:su_risk_p_2_3                  0.407732
## parent_rules_q1:su_risk_p_4_5                  0.281555
## parent_rules_q1:neighborhood1_2_3_p           0.614866
## parent_rules_q1:neighborhood_crime_y          0.227409
## parent_rules_q1:sexM                           0.087317 .
## parent_rules_q4:parent_rules_q7               0.513972
## parent_rules_q4:su_risk_p_1                    0.932446
## parent_rules_q4:su_risk_p_2_3                  0.712558
## parent_rules_q4:su_risk_p_4_5                  0.578176
## parent_rules_q4:neighborhood1_2_3_p           0.774029
## parent_rules_q4:neighborhood_crime_y          0.314886
## parent_rules_q4:sexM                           0.339694
## parent_rules_q7:su_risk_p_1                    0.554096
## parent_rules_q7:su_risk_p_2_3                  0.239803
## parent_rules_q7:su_risk_p_4_5                  0.149461
## parent_rules_q7:neighborhood1_2_3_p           0.791298
## parent_rules_q7:neighborhood_crime_y          0.786426
## parent_rules_q7:sexM                           0.078536 .
```

```
## su_risk_p_1:su_risk_p_2_3                        0.474694
## su_risk_p_1:su_risk_p_4_5                        0.120234
## su_risk_p_1:neighborhood1_2_3_p                  0.477583
## su_risk_p_1:neighborhood_crime_y                 0.345223
## su_risk_p_1:sexM                                 0.076451 .
## su_risk_p_2_3:su_risk_p_4_5                      7.22e-06 ***
## su_risk_p_2_3:neighborhood1_2_3_p                0.955135
## su_risk_p_2_3:neighborhood_crime_y               0.718041
## su_risk_p_2_3:sexM                               0.110104
## su_risk_p_4_5:neighborhood1_2_3_p                0.909408
## su_risk_p_4_5:neighborhood_crime_y               0.219146
## su_risk_p_4_5:sexM                               0.195690
## neighborhood1_2_3_p:neighborhood_crime_y         0.752487
## neighborhood1_2_3_p:sexM                         0.472065
## neighborhood_crime_y:sexM                        0.929762
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8804.4  on 6593  degrees of freedom
## Residual deviance: 3639.8  on 5368  degrees of freedom
## AIC: 6091.8
##
## Number of Fisher Scoring iterations: 8
```

```
cm <- confusionMatrix(table(as.numeric(glm.fit$fitted.values>0.5), df$y))
print(cm)
```

```
## Confusion Matrix and Statistics
##
##
##          0    1
##    0 3745  467
##    1  294 2088
##
##                 Accuracy : 0.8846
##                   95% CI : (0.8766, 0.8922)
##      No Information Rate : 0.6125
##      P-Value [Acc > NIR] : < 2.2e-16
##
##                    Kappa : 0.7538
##
##   Mcnemar's Test P-Value : 4.518e-10
##
##              Sensitivity : 0.9272
##              Specificity : 0.8172
##           Pos Pred Value : 0.8891
##           Neg Pred Value : 0.8766
##               Prevalence : 0.6125
##           Detection Rate : 0.5679
##     Detection Prevalence : 0.6388
##        Balanced Accuracy : 0.8722
##
##         'Positive' Class : 0
##
```

```
print(cm$byClass)
```

```
##          Sensitivity          Specificity       Pos Pred Value
##            0.9272097            0.8172211            0.8891263
##       Neg Pred Value            Precision               Recall
##            0.8765743            0.8891263            0.9272097
##                   F1           Prevalence       Detection Rate
##            0.9077688            0.6125265            0.5679406
## Detection Prevalence    Balanced Accuracy
##            0.6387625            0.8722154
```

Step Wise Logistic Regression StepWise Model Selection

```
library(MASS)
library(tidyverse)
glm.fit <- glm(y ~ ., data = df, family = binomial)
step.model <- glm.fit %>% stepAIC(trace = FALSE)
```

Result

```
summary(step.model)
```

```
## 
## Call:
## glm(formula = y ~ asr_scr_perstr_t + asr_scr_anxdep_t + asr_scr_thought_t + 
##     asr_scr_attention_t + asr_scr_aggressive_t + asr_scr_rulebreak_t + 
##     asr_scr_external_t + asr_scr_totprob_t + asr_scr_somaticpr_t + 
##     asr_scr_avoidant_t + asr_scr_adhd_t + asr_scr_antisocial_t + 
##     asr_scr_hyperactive_t + crpbi_bothcare + kbi_p_conflict + 
##     kbi_p_c_bully + kbi_p_c_mh_sa + fes_youth + fes_p_ss_fc_pr + 
##     macv_p_ss_fo + macv_p_ss_r + demo_prnt_age_v2 + demo_prnt_marital_v2 + 
##     demo_comb_income_v2 + demo_fam_exp + demo_yrs_1 + demo_yrs_2 + 
##     parent_rules_q4 + neighborhood1_2_3_p + neighborhood_crime_y + 
##     sex, family = binomial, data = df)
## 
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max  
## -3.2299  -0.5900  -0.3054   0.4860   3.0874  
## 
## Coefficients:
##                        Estimate Std. Error z value Pr(>|z|)    
## (Intercept)           -8.053363   1.055239  -7.632 2.32e-14 ***
## asr_scr_perstr_t       0.011875   0.004148   2.863 0.004193 ** 
## asr_scr_anxdep_t      -0.033283   0.011432  -2.911 0.003597 ** 
## asr_scr_thought_t      0.017369   0.009969   1.742 0.081464 .  
## asr_scr_attention_t    0.030928   0.016377   1.888 0.058960 .  
## asr_scr_aggressive_t  -0.056502   0.015753  -3.587 0.000335 ***
## asr_scr_rulebreak_t   -0.047682   0.013368  -3.567 0.000361 ***
## asr_scr_external_t     0.063951   0.010633   6.015 1.80e-09 ***
## asr_scr_totprob_t      0.055479   0.012177   4.556 5.21e-06 ***
## asr_scr_somaticpr_t    0.020694   0.007302   2.834 0.004596 ** 
## asr_scr_avoidant_t     0.018776   0.009358   2.006 0.044818 *  
## asr_scr_adhd_t        -0.030604   0.021391  -1.431 0.152520    
## asr_scr_antisocial_t   0.023148   0.015700   1.474 0.140374    
## asr_scr_hyperactive_t  0.027193   0.018111   1.501 0.133237    
## crpbi_bothcare        -0.007868   0.005536  -1.421 0.155221    
## kbi_p_conflict         2.235590   0.094507  23.655  < 2e-16 ***
## kbi_p_c_bully          0.924987   0.099555   9.291  < 2e-16 ***
## kbi_p_c_mh_sa          1.269945   0.091934  13.814  < 2e-16 ***
## fes_youth              0.114114   0.018602   6.135 8.53e-10 ***
## fes_p_ss_fc_pr         0.133990   0.020059   6.680 2.39e-11 ***
## macv_p_ss_fo           0.115516   0.059785   1.932 0.053336 .  
## macv_p_ss_r            0.182390   0.043217   4.220 2.44e-05 ***
## demo_prnt_age_v2      -0.012898   0.005677  -2.272 0.023087 *  
## demo_prnt_marital_v2   0.098772   0.025257   3.911 9.20e-05 ***
## demo_comb_income_v2   -0.060904   0.020620  -2.954 0.003141 ** 
## demo_fam_exp           0.233279   0.099115   2.354 0.018592 *  
## demo_yrs_1             0.063211   0.038650   1.635 0.101949    
## demo_yrs_2            -0.134540   0.054716  -2.459 0.013938 *  
## parent_rules_q4        0.072732   0.045497   1.599 0.109903    
## neighborhood1_2_3_p   -0.076861   0.040603  -1.893 0.058358 .  
## neighborhood_crime_y  -0.097209   0.034703  -2.801 0.005092 ** 
## sexM                   0.478035   0.070983   6.734 1.64e-11 ***
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8804.4  on 6593  degrees of freedom
## Residual deviance: 5164.5  on 6562  degrees of freedom
## AIC: 5228.5
##
## Number of Fisher Scoring iterations: 5
```

```
cm <- confusionMatrix(table(as.numeric(step.model$fitted.values>0.5), df$y))
print(cm)
```

```
## Confusion Matrix and Statistics
##
##
##        0    1
##   0 3603  725
##   1  436 1830
##
##                Accuracy : 0.8239
##                  95% CI : (0.8145, 0.8331)
##     No Information Rate : 0.6125
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.6212
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
##             Sensitivity : 0.8921
##             Specificity : 0.7162
##          Pos Pred Value : 0.8325
##          Neg Pred Value : 0.8076
##              Prevalence : 0.6125
##          Detection Rate : 0.5464
##    Detection Prevalence : 0.6564
##       Balanced Accuracy : 0.8041
##
##        'Positive' Class : 0
##
```

```
print(cm$byClass)
```

```
##            Sensitivity            Specificity         Pos Pred Value
##              0.8920525              0.7162427              0.8324861
##         Neg Pred Value              Precision                 Recall
##              0.8075905              0.8324861              0.8920525
##                     F1             Prevalence         Detection Rate
##              0.8612406              0.6125265              0.5464058
## Detection Prevalence      Balanced Accuracy
##              0.6563543              0.8041476
```

###Step WiseLogistic Regression W/ Interaction Model Selection

```
#glm.fit <- glm(y ~ . + .^2, data = df, family = binomial)
#step.model <- glm.fit %>% stepAIC(trace = FALSE)
```

Result

```
#summary(step.model )

#cm <- confusionMatrix(table(as.numeric(step.model $fitted.values>0.5), df$y))
#print(cm)
#print(cm$byClass)
```