Experiment 3: Ratings Analysis

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Setup

Variable names:

- Experiment: exp3_
- Data (_d_)
 - d = main df
- Models (_m_)
 - like = Likeability ratings
 - acc = Accomplishment ratings
 - imp = Importance ratings
 - ratings = build model with all 3 ratings

Load data and select columns used in model. See data/exp3_data_about.txt for more details.

```
## 'data.frame': 8904 obs. of 10 variables:
## $ Participant : Factor w/ 1272 levels "Exp3_P1","Exp3_P10",..: 974 974 974 974 974 974 974 330 330
## $ Condition : Factor w/ 3 levels "first","full",..: 1 1 1 1 1 1 1 1 1 1 ...
## $ GenderRating: num 5.22 1.24 5.86 3.75 6.78 4.34 2.41 6.24 2.61 6.82 ...
```

```
## $ Item : Factor w/ 63 levels "Ashley Cook",..: 6 9 13 43 47 52 62 2 16 20 ...
## $ He : int 0 1 0 0 0 0 1 0 1 0 ...
## $ She : int 0 0 1 0 1 0 0 0 1 ...
## $ Other : int 1 0 0 1 0 0 0 1 0 0 ...
## $ Likeable : int 2 2 2 2 2 1 2 2 1 2 ...
## $ Accomplished: int 2 1 1 2 1 1 2 3 1 1 ...
## $ Important : int 2 1 2 2 1 1 ...
```

Center gender rating for names: Original scale from 1 to 7, with 1 as most masculine and 7 as most feminine. Mean-centered with higher still as more feminine.

```
exp3_d %<>% mutate(GenderRatingCentered =
  scale(GenderRating, scale = FALSE))
```

Set contrasts for name conditions, now weighted to account for uneven sample sizes. This uses Scott Fraundorf's function for weighted contrasts. (The psycholing package version doesn't support doing 2v1 comparisons, only 1v1.) Condition1 is Last vs First+Full. Condition2 is First vs Full.

```
source("centerfactor.R")
contrasts(exp3_d$Condition) <- centerfactor(
  exp3_d$Condition, c("last","first"))
contrasts(exp3_d$Condition)</pre>
```

```
## [,1] [,2]
## first 0.4009434 -0.48113208
## full 0.4009434 0.51886792
## last -0.5990566 0.01886792
```

\$ Item

Flip ratings from 1=most likeable/accomplished/important to 7=most L/A/I, to make interpreting models easier, then mean-center.

: Factor w/ 63 levels "Ashley Cook",..: 6 9 13 43 47 52 62 2 16 20 ...

```
## $ He
                        : int 0 1 0 0 0 0 1 0 1 0 ...
                       : int 0010110001...
## $ She
## $ Other
                       : int 1001000100...
## $ Likeable
                              2 2 2 2 2 1 2 2 1 2 ...
                       : int
## $ Accomplished
                       : int
                              2 1 1 2 1 1 2 3 1 1 ...
## $ Important
                        : int 2 1 2 2 1 1 2 2 1 1 ...
  $ GenderRatingCentered: num [1:8904, 1] 1.014 -2.966 1.654 -0.456 2.574 ...
   ..- attr(*, "scaled:center")= num 4.21
##
   $ LikeableFlip
##
                       : num 6666676676 ...
## $ AccomplishedFlip
                        : num 6776776577...
## $ ImportantFlip
                       : num 6766776677...
## $ LikeableCentered
                        : num [1:8904, 1] 0.271 0.271 0.271 0.271 0.271 ...
   ..- attr(*, "scaled:center")= num 5.73
  $ AccomplishedCentered: num [1:8904, 1] 0.147 1.147 1.147 0.147 1.147 ...
   ..- attr(*, "scaled:center")= num 5.85
##
   $ ImportantCentered
                        : num [1:8904, 1] 0.585 1.585 0.585 0.585 1.585 ...
   ..- attr(*, "scaled:center")= num 5.42
```

Likeability

Summary statistics:

[1] 1.316101

```
summary(exp3_d$Likeable)
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
##
     1.000
            1.000
                    2.000
                             2.271
                                    3.000
                                            7.000
summary(exp3_d$LikeableFlip)
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
##
     1.000
           5.000
                    6.000
                            5.729
                                    7.000
                                            7.000
sd(exp3_d$Likeable)
```

Does the Likeability rating of the character predict the likelihood of she as opposed to he and other responses? The maximal model includes all interactions, then random intercepts by item but not by participant.

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
## Approximation) (p-values based on Wald z-scores) [glmerMod]
```

```
## Family: binomial (logit)
## Formula: She ~ 1 + GenderRatingCentered + LikeableCentered + Condition +
##
       GenderRatingCentered:Condition + GenderRatingCentered:LikeableCentered +
       LikeableCentered:Condition + GenderRatingCentered:LikeableCentered:Condition +
##
##
       (1 | Item)
##
     Data: exp3_d
##
##
                 BIC
                      logLik deviance df.resid
##
     7977.9
              8070.1 -3975.9
                                7951.9
                                           8891
##
## Scaled residuals:
                1Q Median
##
      Min
                                3Q
  -2.6061 -0.5430 -0.1465 0.6311 10.0732
##
## Random effects:
  Groups Name
                       Variance Std.Dev.
           (Intercept) 0.3524
  Item
                                0.5936
## Number of obs: 8904, groups: Item, 63
## Fixed effects:
##
                                                     Estimate Std. Error
                                                                           z value
## (Intercept)
                                                     -1.37455
                                                                 0.08926 -15.39978
                                                                 0.05487 18.80241
## GenderRatingCentered
                                                      1.03162
## LikeableCentered
                                                      0.08004
                                                                 0.02805
                                                                           2.85361
## Condition1
                                                      0.13853
                                                                 0.07103
                                                                         1.95029
## Condition2
                                                      0.06855
                                                                 0.08957
                                                                           0.76530
## GenderRatingCentered:Condition1
                                                                 0.04529
                                                                          1.94319
                                                      0.08800
## GenderRatingCentered:Condition2
                                                     -0.06416
                                                                 0.05848 -1.09717
## GenderRatingCentered:LikeableCentered
                                                                 0.01736
                                                      0.02698
                                                                         1.55386
## LikeableCentered:Condition1
                                                     -0.06365
                                                                 0.05656 -1.12521
## LikeableCentered:Condition2
                                                      0.06998
                                                                 0.06931
                                                                           1.00957
                                                                 0.03485
## GenderRatingCentered:LikeableCentered:Condition1
                                                      0.06193
                                                                           1.77725
## GenderRatingCentered:LikeableCentered:Condition2
                                                    -0.03563
                                                                 0.04395
                                                                         -0.81076
##
                                                    Pr(>|z|) Pr(>|t|)
## (Intercept)
                                                       0.000 < 2e-16 ***
## GenderRatingCentered
                                                       0.000 < 2e-16 ***
## LikeableCentered
                                                       0.004 0.00432 **
## Condition1
                                                       0.051 0.05114 .
## Condition2
                                                       0.444 0.44409
## GenderRatingCentered:Condition1
                                                       0.052 0.05199 .
## GenderRatingCentered:Condition2
                                                       0.273 0.27257
## GenderRatingCentered:LikeableCentered
                                                       0.120 0.12022
## LikeableCentered:Condition1
                                                       0.261 0.26050
## LikeableCentered:Condition2
                                                       0.313 0.31270
## GenderRatingCentered:LikeableCentered:Condition1
                                                       0.076 0.07553 .
## GenderRatingCentered:LikeableCentered:Condition2
                                                       0.418 0.41750
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
               (Intr) GndrRC LkblCn Cndtn1 Cndtn2 GRC:C1 GRC:C2 GnRC:LC LkC:C1
##
## GndrRtngCnt -0.287
## LikeblCntrd -0.005 -0.003
## Condition1 0.000 -0.005 0.051
```

```
## Condition2 -0.017 0.018 -0.072 0.017
## GndrRtnC:C1 0.001 0.016 -0.044 -0.601 0.000
## GndrRtnC:C2 0.016 -0.023 0.048 0.001 -0.586
## GndrRtnC:LC 0.002 0.005 -0.623 -0.044 0.050
                                                0.044 -0.090
## LkblCntr:C1 0.029 -0.030 -0.054 -0.073 -0.055
                                                 0.052 0.037
## LkblCntr:C2 -0.034 0.028 0.077 -0.056 -0.013 0.038 0.000 -0.042
                                                                       0.094
## GndRC:LC:C1 -0.029 0.032 0.044 0.053 0.039 -0.047 -0.071 -0.006 -0.626
## GndRC:LC:C2 0.023 -0.042 -0.041 0.038 0.001 -0.073 0.003 0.093 -0.051
##
              LkC:C2 GRC:LC:C1
## GndrRtngCnt
## LikeblCntrd
## Condition1
## Condition2
## GndrRtnC:C1
## GndrRtnC:C2
## GndrRtnC:LC
## LkblCntr:C1
## LkblCntr:C2
## GndRC:LC:C1 -0.052
## GndRC:LC:C2 -0.594
```

• Characters who are rated as more Likeable are more likely to be referred to with she

Accomplishment

Summary statistics:

```
summary(exp3_d$Accomplished)
      Min. 1st Qu.
##
                               Mean 3rd Qu.
                     Median
                                                 Max.
##
             1.000
                      2.000
                                       3.000
                                                7.000
summary(exp3_d$AccomplishedFlip)
                     Median
##
      Min. 1st Qu.
                               Mean 3rd Qu.
                                                 Max.
##
     1.000
             5.000
                               5.853
                                       7.000
                                                7.000
sd(exp3_d$Accomplished)
```

```
## [1] 1.27504
```

Does the Accomplishment rating of the character predict the likelihood of *she* as opposed to *he* and *other* responses? The maximal model includes all interactions, then random intercepts by item but not by participant.

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##
     Approximation) (p-values based on Wald z-scores) [glmerMod]
    Family: binomial (logit)
  Formula: She ~ 1 + GenderRatingCentered + AccomplishedCentered + Condition +
       GenderRatingCentered:Condition + GenderRatingCentered:AccomplishedCentered +
##
       AccomplishedCentered:Condition + GenderRatingCentered:AccomplishedCentered:Condition +
##
##
       (1 | Item)
##
      Data: exp3_d
##
##
        AIC
                 BIC
                        logLik deviance df.resid
##
     7975.7
              8068.0
                      -3974.9
                                 7949.7
                                             8891
##
##
  Scaled residuals:
                10 Median
##
       Min
                                 3Q
                                        Max
   -2.6466 -0.5469 -0.1450 0.6222 10.8637
##
## Random effects:
    Groups Name
                        Variance Std.Dev.
           (Intercept) 0.3595
    Item
                                 0.5996
## Number of obs: 8904, groups:
##
## Fixed effects:
##
                                                            Estimate Std. Error
                                                                        0.089919
## (Intercept)
                                                           -1.372294
                                                            1.034110
## GenderRatingCentered
                                                                        0.055238
## AccomplishedCentered
                                                            0.072453
                                                                        0.028342
## Condition1
                                                            0.139473
                                                                        0.070835
## Condition2
                                                            0.073638
                                                                        0.089326
## GenderRatingCentered:Condition1
                                                            0.090036
                                                                        0.045170
## GenderRatingCentered:Condition2
                                                           -0.057030
                                                                        0.058311
## GenderRatingCentered:AccomplishedCentered
                                                            0.029731
                                                                        0.017426
## AccomplishedCentered:Condition1
                                                           -0.083766
                                                                        0.058528
## AccomplishedCentered:Condition2
                                                           -0.069941
                                                                        0.069994
## GenderRatingCentered:AccomplishedCentered:Condition1
                                                            0.084687
                                                                        0.035961
   {\tt GenderRatingCentered:AccomplishedCentered:Condition2}
                                                            0.002789
                                                                        0.043500
##
                                                             z value Pr(>|z|)
## (Intercept)
                                                          -15.261381
                                                                         0.000
## GenderRatingCentered
                                                           18.720891
                                                                         0.000
## AccomplishedCentered
                                                                         0.011
                                                            2.556329
## Condition1
                                                            1.968970
                                                                         0.049
## Condition2
                                                            0.824375
                                                                         0.410
## GenderRatingCentered:Condition1
                                                                         0.046
                                                            1.993281
## GenderRatingCentered:Condition2
                                                           -0.978038
                                                                         0.328
## GenderRatingCentered:AccomplishedCentered
                                                                         0.088
                                                            1.706129
## AccomplishedCentered:Condition1
                                                           -1.431211
                                                                         0.152
## AccomplishedCentered:Condition2
                                                                         0.318
                                                           -0.999249
\verb|## GenderRatingCentered:AccomplishedCentered:Condition1|\\
                                                            2.354960
                                                                         0.019
## GenderRatingCentered:AccomplishedCentered:Condition2
                                                            0.064123
                                                                         0.949
##
                                                          Pr(>|t|)
## (Intercept)
                                                            <2e-16 ***
## GenderRatingCentered
                                                            <2e-16 ***
## AccomplishedCentered
                                                            0.0106 *
## Condition1
                                                            0.0490 *
## Condition2
                                                            0.4097
```

```
## GenderRatingCentered:Condition1
                                                         0.0462 *
## GenderRatingCentered:Condition2
                                                         0.3281
## GenderRatingCentered:AccomplishedCentered
                                                         0.0880
## AccomplishedCentered:Condition1
                                                         0.1524
## AccomplishedCentered:Condition2
                                                         0.3177
## GenderRatingCentered:AccomplishedCentered:Condition1
                                                         0.0185 *
## GenderRatingCentered:AccomplishedCentered:Condition2
                                                         0.9489
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
               (Intr) GndrRC AccmpC Cndtn1 Cndtn2 GRC:C1 GRC:C2 GnRC:AC AcC:C1
##
## GndrRtngCnt -0.284
## AccmplshdCn -0.006 0.003
## Condition1
               0.001 -0.006 0.060
## Condition2
              -0.017
                      0.018 -0.013
## GndrRtnC:C1 -0.001 0.018 -0.054 -0.601
                                          0.001
## GndrRtnC:C2 0.016 -0.023 0.002 0.001 -0.586
## GndrRtnC:AC 0.006 0.006 -0.623 -0.055 0.002
                                                 0.060 -0.022
## AccmplsC:C1 0.041 -0.045 -0.088 -0.045 -0.008 0.031 0.001
## AccmplsC:C2 -0.001 -0.003 0.021 -0.006 0.026 -0.001 -0.033
                                                               0.012
                                                                        0.055
## GndRC:AC:C1 -0.040 0.048 0.079 0.032 0.001 -0.009 -0.016 -0.069
## GndRC:AC:C2 -0.005 -0.002 0.011 -0.001 -0.033 -0.015 0.062 0.023
              AcC:C2 GRC:AC:C1
## GndrRtngCnt
## AccmplshdCn
## Condition1
## Condition2
## GndrRtnC:C1
## GndrRtnC:C2
## GndrRtnC:AC
## AccmplsC:C1
## AccmplsC:C2
## GndRC:AC:C1 -0.013
## GndRC:AC:C2 -0.592
```

- Characters who are rated as more Accomplished are more likely to be referred to with *she*, but this is n.s. after correction for multiple comparisons.
- Interaction between Accomplishment, Name Gender Rating, and Condition (L vs F+F), but this is n.s. after correction for multiple comparisons, so I'm not going to dig into it.

Importance

Summary statistics:

```
summary(exp3_d$Important)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.000 1.000 2.000 2.585 3.000 7.000
```

```
summary(exp3_d$ImportantFlip)

## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.000 5.000 6.000 5.415 7.000 7.000

sd(exp3_d$Important)
```

```
## [1] 1.366153
```

Does the Importance rating of the character predict the likelihood of she as opposed to he and other responses. The maximal model includes all interactions, then random intercepts by item but not by participant.

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
     Approximation) (p-values based on Wald z-scores) [glmerMod]
   Family: binomial (logit)
## Formula: She ~ 1 + GenderRatingCentered + Condition + ImportantCentered +
       GenderRatingCentered:Condition + GenderRatingCentered:ImportantCentered +
##
##
       Condition: ImportantCentered + GenderRatingCentered: Condition: ImportantCentered +
##
       (1 | Item)
##
      Data: exp3_d
##
##
        AIC
                       logLik deviance df.resid
                 BIC
##
     7998.6
                      -3986.3
                                7972.6
                                            8891
##
## Scaled residuals:
                1Q Median
                                3Q
##
       Min
                                       Max
## -2.4475 -0.5401 -0.1474 0.6287 9.9493
##
## Random effects:
##
  Groups Name
                       Variance Std.Dev.
## Item
           (Intercept) 0.3588
                                0.599
## Number of obs: 8904, groups: Item, 63
## Fixed effects:
##
                                                        Estimate Std. Error
## (Intercept)
                                                       -1.374939
                                                                   0.089891
## GenderRatingCentered
                                                        1.033388
                                                                   0.055223
## Condition1
                                                        0.136688
                                                                   0.070834
## Condition2
                                                        0.076283
                                                                   0.089473
## ImportantCentered
                                                        0.041717
                                                                   0.026130
## GenderRatingCentered:Condition1
                                                                   0.045131
                                                        0.087122
## GenderRatingCentered:Condition2
                                                       -0.054814
                                                                   0.058223
## GenderRatingCentered:ImportantCentered
                                                        0.003465
                                                                   0.016691
```

```
## Condition1:ImportantCentered
                                                      -0.059863
                                                                  0.052359
## Condition2:ImportantCentered
                                                       0.078479
                                                                  0.063684
## GenderRatingCentered:Condition1:ImportantCentered
                                                                  0.033480
                                                       0.065849
## GenderRatingCentered:Condition2:ImportantCentered -0.028646
                                                                  0.041322
                                                        z value Pr(>|z|) Pr(>|t|)
## (Intercept)
                                                     -15.295564
                                                                   0.000
                                                                           <2e-16
## GenderRatingCentered
                                                      18.712849
                                                                   0.000
                                                                           <2e-16
## Condition1
                                                       1.929679
                                                                   0.054
                                                                           0.0536
## Condition2
                                                       0.852574
                                                                   0.394
                                                                           0.3939
## ImportantCentered
                                                       1.596514
                                                                   0.110
                                                                           0.1104
## GenderRatingCentered:Condition1
                                                       1.930431
                                                                   0.054
                                                                           0.0536
## GenderRatingCentered:Condition2
                                                      -0.941446
                                                                   0.346
                                                                           0.3465
## GenderRatingCentered:ImportantCentered
                                                       0.207623
                                                                   0.836
                                                                           0.8355
                                                                           0.2529
## Condition1:ImportantCentered
                                                      -1.143320
                                                                   0.253
## Condition2:ImportantCentered
                                                                   0.218
                                                       1.232319
                                                                           0.2178
## GenderRatingCentered:Condition1:ImportantCentered
                                                       1.966845
                                                                   0.049
                                                                           0.0492
## GenderRatingCentered:Condition2:ImportantCentered
                                                      -0.693251
                                                                   0.488
                                                                           0.4882
##
## (Intercept)
                                                     ***
## GenderRatingCentered
## Condition1
## Condition2
## ImportantCentered
## GenderRatingCentered:Condition1
## GenderRatingCentered:Condition2
## GenderRatingCentered:ImportantCentered
## Condition1:ImportantCentered
## Condition2:ImportantCentered
## GenderRatingCentered:Condition1:ImportantCentered *
## GenderRatingCentered:Condition2:ImportantCentered
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
               (Intr) GndrRC Cndtn1 Cndtn2 ImprtC GnRC:C1 GnRC:C2 GRC:IC Cn1:IC
## GndrRtngCnt -0.285
## Condition1
              0.002 -0.006
## Condition2 -0.017 0.018 0.014
## ImprtntCntr -0.022 0.026 0.051 -0.053
## GndrRtnC:C1 -0.001 0.017 -0.601 0.001 -0.052
## GndrRtnC:C2 0.015 -0.021 0.002 -0.588 0.030 0.008
## GndrRtnC:IC 0.026 -0.025 -0.052 0.030 -0.585 0.043 -0.059
## Cndtn1:ImpC 0.033 -0.038 -0.042 -0.039 -0.070 0.046
                                                           0.021
                                                                   0.064
## Cndtn2:ImpC -0.027 0.022 -0.041 0.019 0.041 0.023 -0.017 -0.001 0.065
## GndRC:C1:IC -0.036 0.038 0.046 0.022 0.065 -0.030
                                                          -0.046 -0.048 -0.590
## GndRC:C2:IC 0.019 -0.035 0.023 -0.017 -0.001 -0.048
                                                           0.021
                                                                   0.048 -0.018
##
               Cn2:IC GRC:C1:
## GndrRtngCnt
## Condition1
## Condition2
## ImprtntCntr
## GndrRtnC:C1
## GndrRtnC:C2
## GndrRtnC:IC
```

```
## Cndtn1:ImpC
## Cndtn2:ImpC
## GndRC:C1:IC -0.018
## GndRC:C2:IC -0.552 0.074
```

• Interaction between Important, Name Gender Rating, and Condition (L vs F+F), but this is way too small to be significant after correction for multiple comparisons

All Ratings

```
stats::glm(formula = She ~ 1 + GenderRatingCentered + LikeableCentered +
##
       Condition + ImportantCentered + AccomplishedCentered + Condition: AccomplishedCentered +
##
       Condition: ImportantCentered + LikeableCentered: Condition +
##
       LikeableCentered:AccomplishedCentered + LikeableCentered:ImportantCentered +
##
       ImportantCentered:AccomplishedCentered + LikeableCentered:ImportantCentered:AccomplishedCentered
##
       LikeableCentered:Condition:AccomplishedCentered + LikeableCentered:Condition:ImportantCentered +
       Condition: Important Centered: Accomplished Centered + Condition: Likeable Centered: Accomplished Center
##
##
       family = binomial, data = exp3_d)
##
## Deviance Residuals:
##
                 1Q
                     Median
                                   3Q
## -1.9790 -0.7231 -0.3095 0.7728
                                         2.9943
## Coefficients:
##
                                                                         Estimate
## (Intercept)
                                                                        -1.183679
## GenderRatingCentered
                                                                         0.895923
## LikeableCentered
                                                                         0.110380
## Condition1
                                                                         0.192791
## Condition2
                                                                        -0.061019
## ImportantCentered
                                                                        -0.070138
## AccomplishedCentered
                                                                         0.053692
## Condition1:AccomplishedCentered
                                                                         0.043019
## Condition2:AccomplishedCentered
                                                                        -0.239237
## Condition1:ImportantCentered
                                                                        -0.035665
## Condition2:ImportantCentered
                                                                         0.100167
## LikeableCentered:Condition1
                                                                        -0.052403
## LikeableCentered:Condition2
                                                                         0.022351
## LikeableCentered:AccomplishedCentered
                                                                         0.008091
```

	LikeableCentered:ImportantCentered	0.005932
	ImportantCentered:AccomplishedCentered	0.000364
	LikeableCentered:ImportantCentered:AccomplishedCentered	0.009798
	LikeableCentered:Condition1:AccomplishedCentered	0.007850
	LikeableCentered:Condition2:AccomplishedCentered	0.017325
	LikeableCentered:Condition1:ImportantCentered	0.008035
	LikeableCentered:Condition2:ImportantCentered	0.078234
	Condition1:ImportantCentered:AccomplishedCentered	0.023376
	Condition2: ImportantCentered: AccomplishedCentered	0.029479
	LikeableCentered:Condition1:ImportantCentered:AccomplishedCentered	0.022956
	${\tt Likeable Centered: Condition 2: Important Centered: Accomplished Centered}$	0.057829
##	(T-++)	Std. Error
##	(Intercept)	0.038223
	GenderRatingCentered	0.021163
	LikeableCentered	0.032207
	Condition1	0.069638
	Condition2	0.087625
	ImportantCentered	0.029469
	AccomplishedCentered	0.034803
	Condition1:AccomplishedCentered	0.071294
	Condition2:AccomplishedCentered	0.089899
	Condition1:ImportantCentered	0.059845
	Condition2: ImportantCentered	0.077861
	LikeableCentered:Condition1	0.065543
	LikeableCentered:Condition2	0.084333
	LikeableCentered:AccomplishedCentered	0.021795
	LikeableCentered:ImportantCentered	0.022602
	ImportantCentered:AccomplishedCentered	0.023053
	LikeableCentered:ImportantCentered:AccomplishedCentered	0.008109
	LikeableCentered:Condition1:AccomplishedCentered	0.043915
	LikeableCentered:Condition2:AccomplishedCentered	0.058238
	LikeableCentered:Condition1:ImportantCentered	0.045577
	LikeableCentered:Condition2:ImportantCentered	0.060974 0.047445
	Condition1:ImportantCentered:AccomplishedCentered	0.047445
	Condition2:ImportantCentered:AccomplishedCentered	0.036217
	LikeableCentered:Condition1:ImportantCentered:AccomplishedCentered LikeableCentered:Condition2:ImportantCentered:AccomplishedCentered	0.010000
##	Likeablecenteled.conditionz.importantoenteled.accomplishedcenteled	z value
##	(Intercept)	-30.968
	GenderRatingCentered	42.335
	LikeableCentered	3.427
	Condition1	2.768
	Condition2	-0.696
##	ImportantCentered	-2.380
	AccomplishedCentered	1.543
	Condition1:AccomplishedCentered	0.603
	Condition2:AccomplishedCentered	-2.661
	Condition1:ImportantCentered	-0.596
	Condition2:ImportantCentered	1.286
	LikeableCentered:Condition1	-0.800
	LikeableCentered:Condition2	0.265
	LikeableCentered:AccomplishedCentered	0.371
	LikeableCentered:ImportantCentered	0.262
	ImportantCentered:AccomplishedCentered	0.016
	I	

```
## LikeableCentered:ImportantCentered:AccomplishedCentered
                                                                         1.208
## LikeableCentered:Condition1:AccomplishedCentered
                                                                         0.179
## LikeableCentered:Condition2:AccomplishedCentered
                                                                         0.297
## LikeableCentered:Condition1:ImportantCentered
                                                                         0.176
## LikeableCentered:Condition2:ImportantCentered
                                                                         1.283
## Condition1:ImportantCentered:AccomplishedCentered
                                                                         0.493
## Condition2:ImportantCentered:AccomplishedCentered
                                                                         0.506
## LikeableCentered:Condition1:ImportantCentered:AccomplishedCentered
                                                                         1.429
## LikeableCentered:Condition2:ImportantCentered:AccomplishedCentered
                                                                         2.526
##
                                                                       Pr(>|z|)
## (Intercept)
                                                                        < 2e-16 ***
## GenderRatingCentered
                                                                        < 2e-16 ***
## LikeableCentered
                                                                        0.00061 ***
## Condition1
                                                                        0.00563 **
## Condition2
                                                                        0.48621
## ImportantCentered
                                                                        0.01731 *
                                                                        0.12289
## AccomplishedCentered
## Condition1:AccomplishedCentered
                                                                        0.54624
## Condition2:AccomplishedCentered
                                                                        0.00779 **
## Condition1:ImportantCentered
                                                                        0.55121
## Condition2:ImportantCentered
                                                                        0.19827
## LikeableCentered:Condition1
                                                                        0.42398
## LikeableCentered:Condition2
                                                                        0.79098
## LikeableCentered:AccomplishedCentered
                                                                        0.71047
## LikeableCentered:ImportantCentered
                                                                        0.79297
## ImportantCentered:AccomplishedCentered
                                                                        0.98740
## LikeableCentered:ImportantCentered:AccomplishedCentered
                                                                        0.22694
## LikeableCentered:Condition1:AccomplishedCentered
                                                                        0.85814
## LikeableCentered:Condition2:AccomplishedCentered
                                                                        0.76610
## LikeableCentered:Condition1:ImportantCentered
                                                                        0.86006
## LikeableCentered:Condition2:ImportantCentered
                                                                        0.19947
## Condition1:ImportantCentered:AccomplishedCentered
                                                                        0.62223
## Condition2:ImportantCentered:AccomplishedCentered
                                                                        0.61260
## LikeableCentered:Condition1:ImportantCentered:AccomplishedCentered 0.15310
## LikeableCentered:Condition2:ImportantCentered:AccomplishedCentered 0.01153 *
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 11191.3 on 8903 degrees of freedom
##
## Residual deviance: 8193.3 on 8879 degrees of freedom
## AIC: 8243.3
##
## Number of Fisher Scoring iterations: 5
```