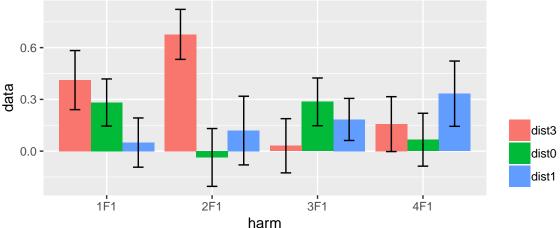
#### NUMEROSITY ANALYSIS RESULTS

## ##

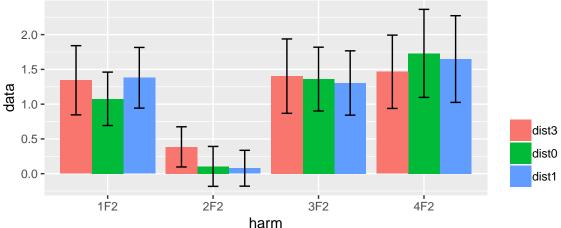
```
top folder = '/Users/kohler/Dropbox/WRITING/Articles/2019 KohlerNumerositySSVEP/figures/results/experiment2'
counter = 0
for (c in c(6,8)) {
 for (q in c(1,2,3,4)) {
    cur_file = switch(q, "RLS_oddball_rc1_carr", "RLS_carrier_rc1_carr", "RLS_oddball_rc2_carr", "RLS_carrier_rc
    cur csv <- sprintf('%s/%s%d full projected all trials.csv', top folder, cur file, c)
    cur_data <-data.frame( read.csv(file = cur_csv ) )</pre>
    cur data$cond <- factor(cur data$condition, levels(cur data$condition)[c(3,1,2)])
    cur_data$harm <- cur_data$harmonic</pre>
    cur_data$harm_alt <- factor(cur_data$harmonic, levels(cur_data$harmonic)[c(2,1,3,4)])</pre>
    g <- ggplot(cur_data, aes(harm, data, fill = cond)) +
      stat_summary(geom = "bar", fun.y = mean, position=position_dodge()) +
      stat_summary(geom = "errorbar", fun.data = mean_se, width=.3, position=position_dodge(.9))
    g <- g + theme(legend.title=element_blank(),
      legend.justification=c(1,0),
      legend.background = element_blank()) +
      ggtitle(toupper(sprintf('%s%d\n',cur_file, c)))
    if (q == 1 \&\& c == 6) {
      cat("RESULTS BELOW\n ")
      cat("\n ")
    }
   print(g)
   m1 <- lmer(data ~ cond * harm + (1|subject), cur_data)</pre>
    emm = emmeans(m1, ~ cond * harm, lmer.df = "satterthwaite")
   m2 <- lmer(data ~ cond + harm + (1|subject), cur_data)
    if (isSingular(m1)) {
      if (isSingular(m2)) {
        cat("WARNING: BOTH MODELS ARE SINGULAR!\n\n")
        cat("WARNING: MODEL1 IS SINGULAR, BUT MODEL2 IS NOT!\n\n")
      }
    } else {
      cat("LOVELY: NONE OF THE MODELS ARE SINGULAR!\n\n")
    cat("ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS\n")
   print(anova(m1), type='pdf')
   cat("\nESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION\n")
    print(prettify(summary(pairs(emm, simple = "cond", adjust = "none"))))
    cat("\nTEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT\n")
   print(anova(m1, m2))
 }
}
## RESULTS BELOW
```

### RLS\_ODDBALL\_RC1\_CARR6



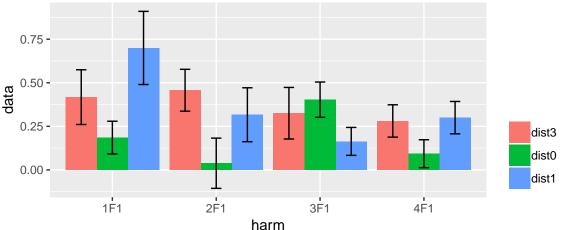
```
## WARNING: BOTH MODELS ARE SINGULAR!
##
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
            Sum Sq Mean Sq NumDF DenDF F value Pr(>F)
            1.0229 0.51147
                                   168
                                       1.3620 0.25897
  cond
            0.2578 0.08593
                                       0.2288 0.87624
## harm
                               3
                                   168
##
  cond:harm 5.2550 0.87584
                               6
                                   168
                                        2.3322 0.03445 *
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
             contrast harm
                              estimate
                                              SE df
                                                        t.ratio
##
      1 dist3 - dist0 1F1 0.12977409 0.2237685 168
                                                      0.5799480 0.562726674
  1
                      1F1 0.36218199 0.2237685 168
##
      2 dist3 - dist1
                                                      1.6185566 0.107418560
##
  3
      3 dist0 - dist1
                       1F1
                            0.23240789 0.2237685 168
                                                      1.0386086 0.300479312
                       2F1
##
      4 dist3 - dist0
                           0.71356893 0.2237685 168
                                                     3.1888711 0.001704027
                       2F1 0.55770251 0.2237685 168 2.4923190 0.013660459
##
      5 dist3 - dist1
##
      6 dist0 - dist1
                       2F1 -0.15586642 0.2237685 168 -0.6965521 0.487045793
      7 dist3 - dist0 3F1 -0.25458827 0.2237685 168 -1.1377306 0.256853001
##
  7
      8 dist3 - dist1 3F1 -0.15254606 0.2237685 168 -0.6817137 0.496358700
      9 dist0 - dist1
                       3F1 0.10204221 0.2237685 168 0.4560168 0.648966800
## 10 10 dist3 - dist0 4F1 0.09048833 0.2237685 168 0.4043837 0.686444946
## 11 11 dist3 - dist1 4F1 -0.17642404 0.2237685 168 -0.7884221 0.431560961
## 12 12 dist0 - dist1 4F1 -0.26691237 0.2237685 168 -1.1928058 0.234627366
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
                  BIC logLik deviance Chisq Chi Df Pr(>Chisq)
           AIC
                                336.51
## m2 8 352.51 378.05 -168.26
  m1 14 350.11 394.81 -161.06
                                322.11 14.401
                                                        0.02546 *
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

# RLS\_CARRIER\_RC1\_CARR6



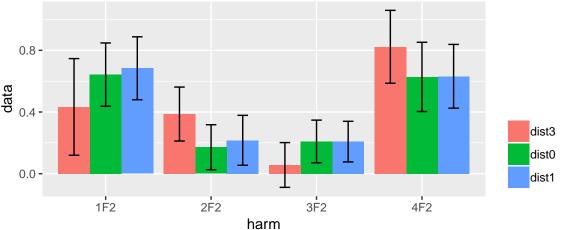
```
harm
## LOVELY: NONE OF THE MODELS ARE SINGULAR!
##
  ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
             Sum Sq Mean Sq NumDF DenDF F value
              0.200 0.1002
                                    154
                                        0.0344 0.9661911
  cond
             53.410 17.8035
                                    154
                                         6.1107 0.0005914 ***
## harm
                                3
##
  cond:harm 2.114 0.3523
                                6
                                    154
                                         0.1209 0.9937484
##
  Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
              contrast harm
                               estimate
                                               SE df
                                                          t.ratio
##
       1 dist3 - dist0
                       1F2 0.26688923 0.6232708 154
                                                       0.42820747 0.6690984
  1
                       1F2 -0.03569123 0.6232708 154 -0.05726440 0.9544088
##
       2 dist3 - dist1
##
  3
       3 dist0 - dist1
                       1F2 -0.30258046 0.6232708 154 -0.48547186 0.6280316
                        2F2 0.28076425 0.6232708 154
##
       4 dist3 - dist0
                                                       0.45046909 0.6530058
      5 dist3 - dist1
                        2F2
                            0.30718738 0.6232708 154
                                                       0.49286340 0.6228111
##
  5
##
       6 dist0 - dist1
                        2F2
                             0.02642313 0.6232708 154
                                                       0.04239431 0.9662393
                        3F2
##
  7
      7 dist3 - dist0
                            0.04263527 0.6232708 154
                                                       0.06840568 0.9455514
       8 dist3 - dist1
                        3F2
                            0.09881422 0.6232708 154
                                                       0.15854139 0.8742379
      9 dist0 - dist1
                        3F2 0.05617896 0.6232708 154
                                                       0.09013571 0.9282965
  10 10 dist3 - dist0
                        4F2 -0.26452747 0.6232708 154 -0.42441818 0.6718532
  11 11 dist3 - dist1
                        4F2 -0.18309495 0.6232708 154 -0.29376466 0.7693333
  12 12 dist0 - dist1
                        4F2 0.08143253 0.6232708 154
                                                      0.13065352 0.8962199
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
                   BIC logLik deviance Chisq Chi Df Pr(>Chisq)
            AIC
## m2 8 720.57 746.11 -352.28
                                 704.57
## m1 14 731.79 776.49 -351.90
                                 703.79 0.7755
                                                          0.9927
```

# RLS\_ODDBALL\_RC2\_CARR6



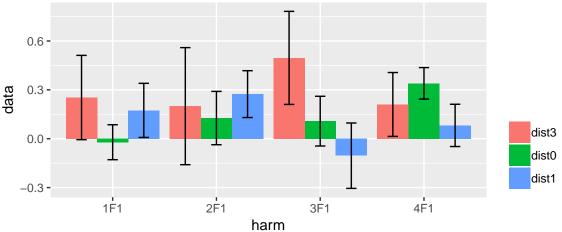
```
## WARNING: BOTH MODELS ARE SINGULAR!
##
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
             Sum Sq Mean Sq NumDF DenDF F value Pr(>F)
             1.4477 0.72384
                                        2.9104 0.05721 .
##
  cond
                                    168
             1.0996 0.36653
                                        1.4737 0.22353
## harm
                                3
                                    168
##
  cond:harm 2.7486 0.45811
                                    168
                                        1.8419 0.09379 .
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
             contrast harm
                              estimate
                                              SE df
##
       1 dist3 - dist0
                      1F1 0.23222357 0.1821025 168 1.2752353 0.203986644
  1
##
       2 dist3 - dist1
                       1F1 -0.28232772 0.1821025 168 -1.5503777 0.122932639
##
  3
      3 dist0 - dist1
                       1F1 -0.51455129 0.1821025 168 -2.8256130 0.005291315
       4 dist3 - dist0 2F1 0.41892334 0.1821025 168 2.3004805 0.022650380
##
      5 dist3 - dist1
                       2F1 0.14057973 0.1821025 168 0.7719812 0.441210144
       6 dist0 - dist1
                       2F1 -0.27834361 0.1821025 168 -1.5284994 0.128269233
##
      7 dist3 - dist0
                       3F1 -0.07771770 0.1821025 168 -0.4267799 0.670086080
##
  7
       8 dist3 - dist1
                       3F1 0.16174574 0.1821025 168 0.8882125 0.375696383
                       3F1 0.23946344 0.1821025 168
       9 dist0 - dist1
                                                      1.3149923 0.190304583
  10 10 dist3 - dist0
                       4F1 0.18803598 0.1821025 168
                                                      1.0325830 0.303283278
## 11 11 dist3 - dist1
                       4F1 -0.01900536 0.1821025 168 -0.1043662 0.917003211
                       4F1 -0.20704133 0.1821025 168 -1.1369492 0.257178586
## 12 12 dist0 - dist1
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
           AIC
                  BIC logLik deviance Chisq Chi Df Pr(>Chisq)
## m2 8 275.40 300.95 -129.70
                                 259.40
## m1 14 275.94 320.64 -123.97
                                247.94 11.468
##
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

### RLS\_CARRIER\_RC2\_CARR6



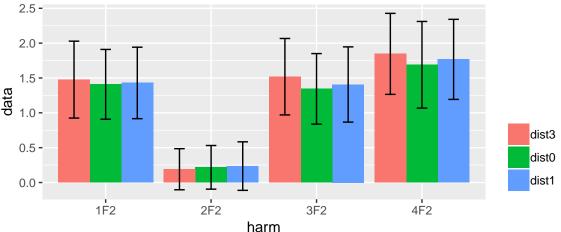
```
## LOVELY: NONE OF THE MODELS ARE SINGULAR!
##
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
             Sum Sq Mean Sq NumDF DenDF F value
             0.0149 0.00744
                                    154
                                        0.0140 0.986077
  cond
            8.8855 2.96182
                                    154
                                        5.5854 0.001157 **
## harm
                                3
##
  cond:harm 1.5171 0.25285
                                6
                                    154
                                        0.4768 0.824817
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
             contrast harm
                                estimate
                                                SE df
##
       1 dist3 - dist0 1F2 -0.209587411 0.2659023 154 -0.788212126 0.4317842
  1
      2 dist3 - dist1 1F2 -0.250639097 0.2659023 154 -0.942598482 0.3473627
##
##
  3
      3 dist0 - dist1
                      1F2 -0.041051686 0.2659023 154 -0.154386355 0.8775073
      4 dist3 - dist0 2F2 0.215022420 0.2659023 154 0.808652000 0.4199628
##
      5 dist3 - dist1
                       2F2 0.170172295 0.2659023 154
                                                        0.639980550 0.5231362
##
  5
##
       6 dist0 - dist1
                       2F2 -0.044850125 0.2659023 154 -0.168671450 0.8662764
##
  7
      7 dist3 - dist0 3F2 -0.152396282 0.2659023 154 -0.573128878 0.5673934
       8 dist3 - dist1
                       3F2 -0.151368679 0.2659023 154 -0.569264289 0.5700062
       9 dist0 - dist1
                       3F2 0.001027603 0.2659023 154
                                                        0.003864588 0.9969215
  10 10 dist3 - dist0
                       4F2 0.195166609 0.2659023 154
                                                        0.733978664 0.4640777
## 11 11 dist3 - dist1
                       4F2 0.191086910 0.2659023 154
                                                        0.718635816 0.4734543
  12 12 dist0 - dist1
                       4F2 -0.004079699 0.2659023 154 -0.015342848 0.9877785
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
                  BIC logLik deviance Chisq Chi Df Pr(>Chisq)
            AIC
## m2 8 414.98 440.53 -199.49
                                398.98
## m1 14 423.95 468.65 -197.97
                                395.95 3.0372
                                                          0.8042
```

# RLS\_ODDBALL\_RC1\_CARR8



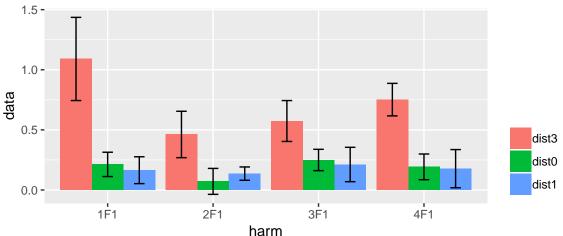
```
## LOVELY: NONE OF THE MODELS ARE SINGULAR!
##
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
            Sum Sq Mean Sq NumDF DenDF F value Pr(>F)
             1.1528 0.57642
                                    154 0.9623 0.3843
  cond
             0.1589 0.05297
                                    154
                                        0.0884 0.9663
## harm
                                3
##
  cond:harm 2.8893 0.48155
                                6
                                    154
                                        0.8039 0.5683
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
              contrast harm
                              estimate
                                              SE df
                                                         t.ratio
## 1
       1 dist3 - dist0 1F1 0.27442738 0.2826119 154 0.9710399 0.33305110
      2 dist3 - dist1 1F1 0.07898436 0.2826119 154 0.2794800 0.78025148
      3 dist0 - dist1 1F1 -0.19544302 0.2826119 154 -0.6915599 0.49025503
      4 dist3 - dist0 2F1 0.07316055 0.2826119 154
##
                                                      0.2588729 0.79607901
##
  5
      5 dist3 - dist1 2F1 -0.07384914 0.2826119 154 -0.2613094 0.79420304
       6 dist0 - dist1 2F1 -0.14700969 0.2826119 154 -0.5201823 0.60368350
      7 dist3 - dist0 3F1 0.38827204 0.2826119 154
##
  7
                                                      1.3738703 0.17147840
## 8
       8 dist3 - dist1
                       3F1 0.60036134 0.2826119 154
                                                      2.1243317 0.03523924
      9 dist0 - dist1 3F1 0.21208930 0.2826119 154 0.7504614 0.45412194
## 10 10 dist3 - dist0 4F1 -0.12987034 0.2826119 154 -0.4595361 0.64649732
## 11 11 dist3 - dist1 4F1 0.12845158 0.2826119 154
                                                      0.4545159 0.65009756
  12 12 dist0 - dist1 4F1 0.25832192 0.2826119 154
                                                      0.9140519 0.36211843
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
## m1: data ~ cond * harm + (1 | subject)
                  BIC logLik deviance Chisq Chi Df Pr(>Chisq)
           AIC
     8 431.55 457.10 -207.78
                                415.55
## m1 14 438.47 483.17 -205.23
                                410.47 5.0886
                                                         0.5325
```

# RLS\_CARRIER\_RC1\_CARR8



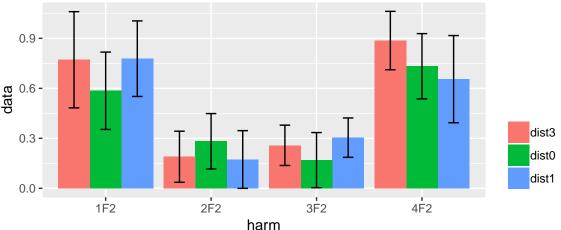
```
harm
## LOVELY: NONE OF THE MODELS ARE SINGULAR!
##
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
             Sum Sq Mean Sq NumDF DenDF F value
             0.259 0.1294
                                    154
                                       0.0371 0.9635658
  cond
            62.942 20.9807
                                    154
                                        6.0169 0.0006665 ***
## harm
                                3
##
  cond:harm 0.211 0.0351
                                6
                                    154
                                        0.0101 0.9999953
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
             contrast harm
                               estimate
                                              SE df
                                                         t.ratio
##
       1 dist3 - dist0 1F2 0.06761737 0.6818548 154
                                                      0.09916682 0.9211348
  1
       2 dist3 - dist1 1F2 0.04763711 0.6818548 154
##
                                                      0.06986401 0.9443925
##
  3
      3 dist0 - dist1
                      1F2 -0.01998026 0.6818548 154 -0.02930281 0.9766610
       4 dist3 - dist0 2F2 -0.02713281 0.6818548 154 -0.03979264 0.9683100
##
      5 dist3 - dist1
                       2F2 -0.04494424 0.6818548 154 -0.06591468 0.9475312
##
  5
##
       6 dist0 - dist1
                       2F2 -0.01781144 0.6818548 154 -0.02612204 0.9791938
      7 dist3 - dist0 3F2 0.17442880 0.6818548 154 0.25581516 0.7984349
##
  7
       8 dist3 - dist1
                       3F2 0.11188552 0.6818548 154 0.16408994 0.8698755
       9 dist0 - dist1
                       3F2 -0.06254328 0.6818548 154 -0.09172521 0.9270356
  10 10 dist3 - dist0
                       4F2 0.15656073 0.6818548 154 0.22961006 0.8186995
## 11 11 dist3 - dist1
                       4F2 0.07911295 0.6818548 154 0.11602610 0.9077830
  12 12 dist0 - dist1
                       4F2 -0.07744778 0.6818548 154 -0.11358397 0.9097155
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
                  BIC logLik deviance Chisq Chi Df Pr(>Chisq)
           AIC
## m2 8 749.84 775.39 -366.92
                                733.84
## m1 14 761.78 806.48 -366.89
                                733.78 0.0648
```

### RLS\_ODDBALL\_RC2\_CARR8



```
harm
## LOVELY: NONE OF THE MODELS ARE SINGULAR!
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
              Sum Sq Mean Sq NumDF DenDF F value
                                                    Pr(>F)
             11.7624
                     5.8812
                                 2
                                     154 15.9932 4.887e-07 ***
  cond
                                                    0.2275
              1.6114
                     0.5371
                                 3
                                     154
## harm
                                          1.4607
##
  cond:harm 2.0897
                      0.3483
                                 6
                                     154
                                          0.9471
                                                    0.4633
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
              contrast harm
                               estimate
                                               SE df
                                                          t.ratio
##
       1 dist3 - dist0
                       1F1
                            0.87707989 0.2214296 154
                                                       3.96098709 1.138077e-04
  1
                        1F1
##
       2 dist3 - dist1
                             0.92526444 0.2214296 154
                                                        4.17859368 4.899393e-05
##
  3
       3 dist0 - dist1
                        1F1
                             0.04818455 0.2214296 154
                                                       0.21760660 8.280237e-01
                        2F1
##
       4 dist3 - dist0
                             0.39025717 0.2214296 154
                                                       1.76244333 7.997827e-02
       5 dist3 - dist1
                        2F1
                            0.32564867 0.2214296 154
                                                       1.47066441 1.434222e-01
##
  5
##
       6 dist0 - dist1
                        2F1 -0.06460850 0.2214296 154 -0.29177892 7.708483e-01
                        3F1
##
  7
       7 dist3 - dist0
                            0.32416960 0.2214296 154
                                                       1.46398475 1.452364e-01
       8 dist3 - dist1
                        3F1
                             0.36173167 0.2214296 154
                                                       1.63361909 1.043816e-01
                        3F1
       9 dist0 - dist1
                             0.03756207 0.2214296 154
                                                       0.16963434 8.655203e-01
  10 10 dist3 - dist0
                        4F1
                             0.55922555 0.2214296 154
                                                       2.52552270 1.256373e-02
## 11 11 dist3 - dist1
                        4F1
                             0.57435929 0.2214296 154
                                                       2.59386828 1.040590e-02
  12 12 dist0 - dist1
                        4F1
                             0.01513374 0.2214296 154
                                                       0.06834558 9.455992e-01
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
                   BIC logLik deviance Chisq Chi Df Pr(>Chisq)
            AIC
## m2 8 346.45 371.99 -165.23
                                 330.45
## m1 14 352.47 397.17 -162.24
                                 324.47 5.9789
                                                          0.4256
```

### RLS\_CARRIER\_RC2\_CARR8



```
harm
## LOVELY: NONE OF THE MODELS ARE SINGULAR!
##
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
  Type III Analysis of Variance Table with Satterthwaite's method
##
             Sum Sq Mean Sq NumDF DenDF F value
             0.2140 0.1070
                                2
                                     154 0.2059 0.8141210
  cond
             11.5697 3.8566
                                3
                                         7.4233 0.0001122 ***
## harm
                                    154
##
  cond:harm 0.8077
                     0.1346
                                6
                                    154
                                         0.2591 0.9549237
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ESTIMATED MARGINAL MEANS, SIMPLE MAIN EFFECTS OF CONDITION WITHOUT CORRECTION
##
             contrast harm
                              estimate
                                              SE df
                                                         t.ratio
##
       1 dist3 - dist0 1F2 0.18598282 0.2631909 154
                                                      0.70664601 0.4808543
  1
       2 dist3 - dist1 1F2 -0.00652778 0.2631909 154 -0.02480245 0.9802446
##
##
  3
      3 dist0 - dist1
                       1F2 -0.19251060 0.2631909 154 -0.73144847 0.4656168
                       2F2 -0.09299893 0.2631909 154 -0.35335160 0.7243081
##
       4 dist3 - dist0
      5 dist3 - dist1
                       2F2 0.01650671 0.2631909 154 0.06271763 0.9500727
##
  5
##
       6 dist0 - dist1
                       2F2 0.10950564 0.2631909 154
                                                      0.41606923 0.6779386
                       3F2 0.08905689 0.2631909 154 0.33837372 0.7355425
##
  7
      7 dist3 - dist0
       8 dist3 - dist1
                       3F2 -0.04596407 0.2631909 154 -0.17464155 0.8615907
      9 dist0 - dist1
                       3F2 -0.13502096 0.2631909 154 -0.51301527 0.6086758
  10 10 dist3 - dist0
                       4F2 0.15426546 0.2631909 154
                                                     0.58613520 0.5586428
## 11 11 dist3 - dist1
                       4F2 0.23166719 0.2631909 154 0.88022483 0.3801091
  12 12 dist0 - dist1
                       4F2 0.07740172 0.2631909 154
                                                      0.29408963 0.7690854
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ cond + harm + (1 | subject)
  m1: data ~ cond * harm + (1 | subject)
                  BIC logLik deviance Chisq Chi Df Pr(>Chisq)
           AIC
## m2 8 411.14 436.69 -197.57
                                395.14
## m1 14 421.49 466.19 -196.74
                                393.49 1.6575
                                                         0.9484
```