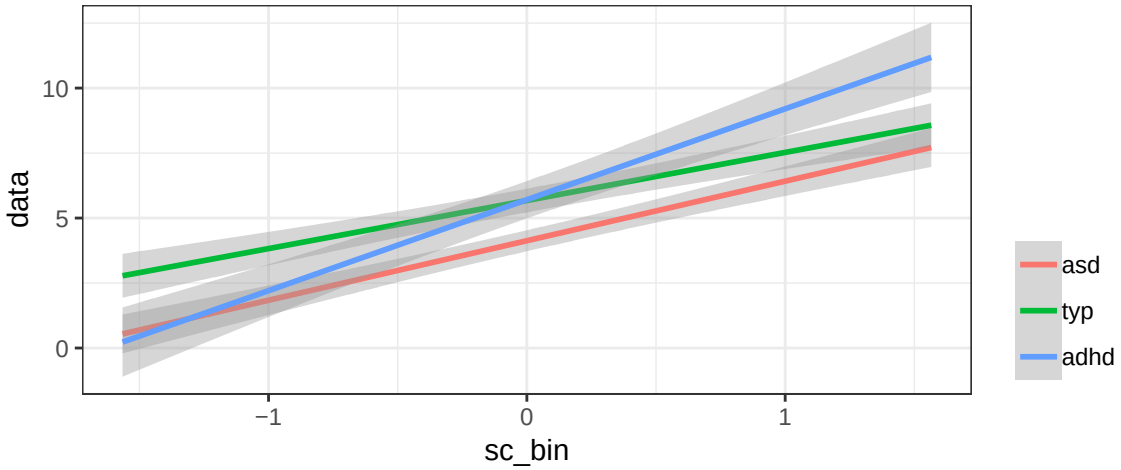
AVEP ANALYSIS RESULTS

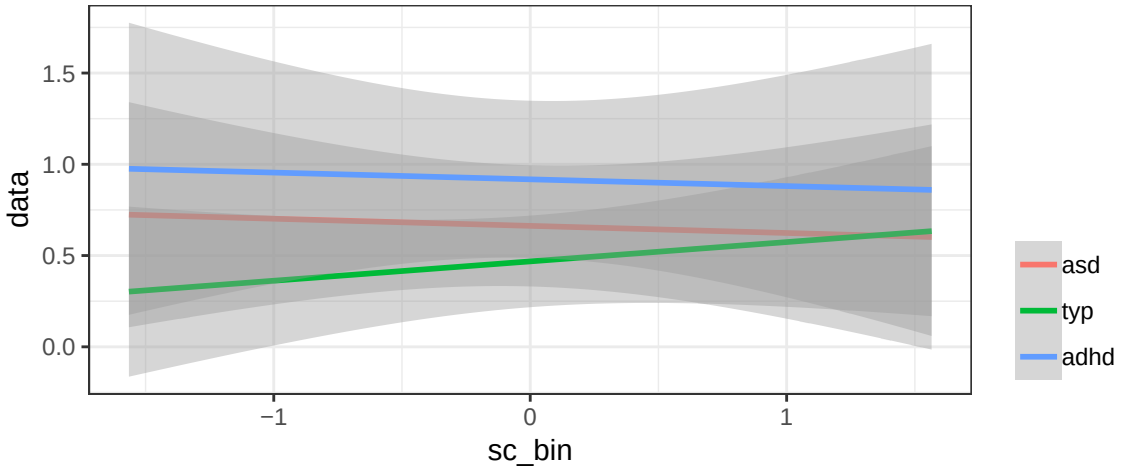
```
top_folder = '/Users/kohler/Dropbox/WRITING/Articles/2018_AVEP/data_for_r'
cond_names <- c("vis_sweep", "aud_sweep", "vis_sweep+aud", "aud_sweep+vis")
counter = 0
for (q in c(1,2,3,4)) {
  cur_file = switch(q, "r_vis_rc1_1F1", "r_vis_rc1_2F1", "r_aud_rc1_1F2", "r_aud_rc1_2F2")
  for (c in c(1,2,3,4)) {
    cur_csv <- sprintf('%s/%s_%d.csv', top_folder, cur_file, c)
    cur_data <-data.frame( read.csv(file = cur_csv ) )
    cur_data$group_lbl <- factor(cur_data$group_lbl, levels=c("typ","asd","adhd"))
    cur_data$group_lbl2 <- factor(cur_data$group_lbl, levels=c("asd","typ","adhd"))
    cur_data$sc_bin <- scale(log(cur_data$bin,2))

    if (q == 1) {
      cur_data$condition=factor(c)
      if (c == 1) {
        vis_frame <- cur_data
      } else {
        vis_frame <- rbind(vis_frame, cur_data)
      }
    }
    g <- ggplot(data = cur_data, aes(x=sc_bin, y=data, color=group_lbl2), ylim(0,15)) +
      geom_smooth(method="lm") + theme_bw()
    g <- g + theme(
      legend.title=element_blank(),
      legend.justification=c(1,0),
      legend.background = element_blank()) +
      ggtitle(toupper(sprintf('%s, %s\n',cur_file, cond_names[c])))
    print(g)
    m1 <- lmer(data ~ group_lbl * sc_bin + (1|subject), cur_data)
    m1_alt <- lmer(data ~ group_lbl2 * sc_bin + (1|subject), cur_data)
    m2 <- lmer(data ~ group_lbl + sc_bin + (1|subject), cur_data)
    cat("ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS\n")
    print(anova(m1), type='pdf')
    cat("\nSUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD\n")
    print(prettify(summary(m1)), type='pdf')
    cat("\nSUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD\n")
    print(prettify(summary(m1_alt)), type='pdf')
    cat("\nTEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT\n")
    print(anova(m1, m2))
  }
}
```

R_VIS_RC1_1F1, VIS_SWEEP



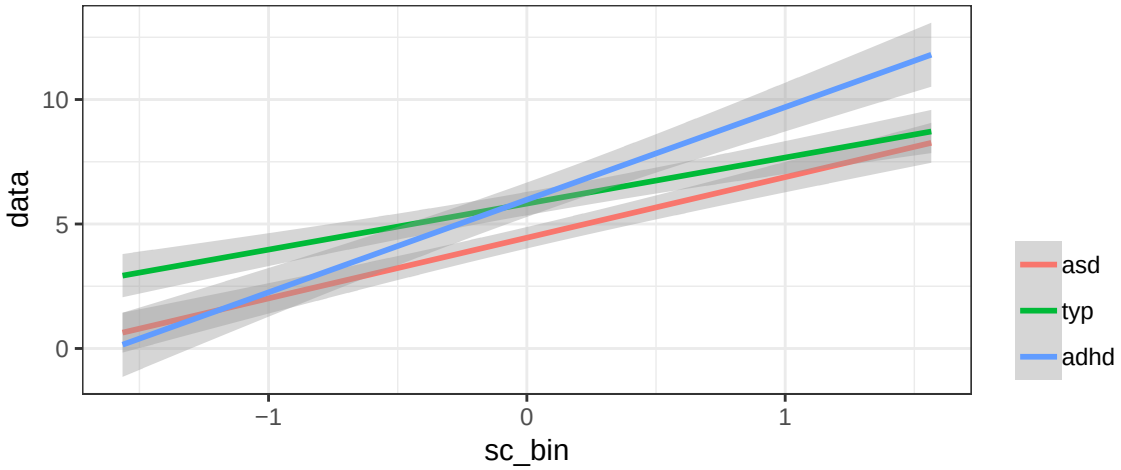

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF  F value    Pr(>F)
## group_lbl          88.9    44.5     2    84   3.5972    0.0317 *
## sc_bin           4438.4  4438.4     1   780 359.0979 < 2.2e-16 ***
## group_lbl:sc_bin  266.6   133.3     2   780  10.7861 2.395e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                            Estimate  CI (lower) CI (upper) Std. Error  df     t value Pr(>|t|)
## 1            (Intercept)  5.6749523  4.86284840  6.4870562  0.4170347  84 13.60786592   <0.001 ***
## 2         group_lbl: asd -1.5469751 -2.74506113 -0.3488891  0.6152457  84 -2.51440206    0.014   *
## 3        group_lbl: adhd  0.0300026 -1.60974825  1.6697534  0.8420511  84  0.03563037    0.972
## 4                sc_bin  1.8499624  1.50547617  2.1944487  0.1758833 780 10.51812589   <0.001 ***
## 5  group_lbl: asd:sc_bin  0.4407662 -0.06744973  0.9489822  0.2594782 780  1.69866356     0.09   .
## 6 group_lbl: adhd:sc_bin  1.6485999  0.95303421  2.3441656  0.3551328 780  4.64220665   <0.001 ***
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1             (Intercept)  4.1279772  3.24712685 5.00882760  0.4523377  83.99996  9.125875   <0.001 ***
## 2          group_lbl2: typ  1.5469751  0.34888905 2.74506113  0.6152458  83.99996  2.514402    0.014   *
## 3         group_lbl2: adhd  1.5769777 -0.09788573 3.25184109  0.8600824  83.99996  1.833519     0.07   .
## 4                 sc_bin  2.2907287  1.91708086 2.66437647  0.1907722 780.00002 12.007665   <0.001 ***
## 5  group_lbl2: typ:sc_bin -0.4407662 -0.94898220 0.06744973  0.2594782 780.00002 -1.698664     0.09   .
## 6 group_lbl2: adhd:sc_bin  1.2078337  0.49737358 1.91829378  0.3627374 780.00002  3.329774    0.001 ***
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4834.1 4862.8 -2411.1   4822.1
## m1  8 4816.8 4854.9 -2400.4   4800.8 21.361      2  2.299e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

R_VIS_RC1_1F1, AUD_SWEEP



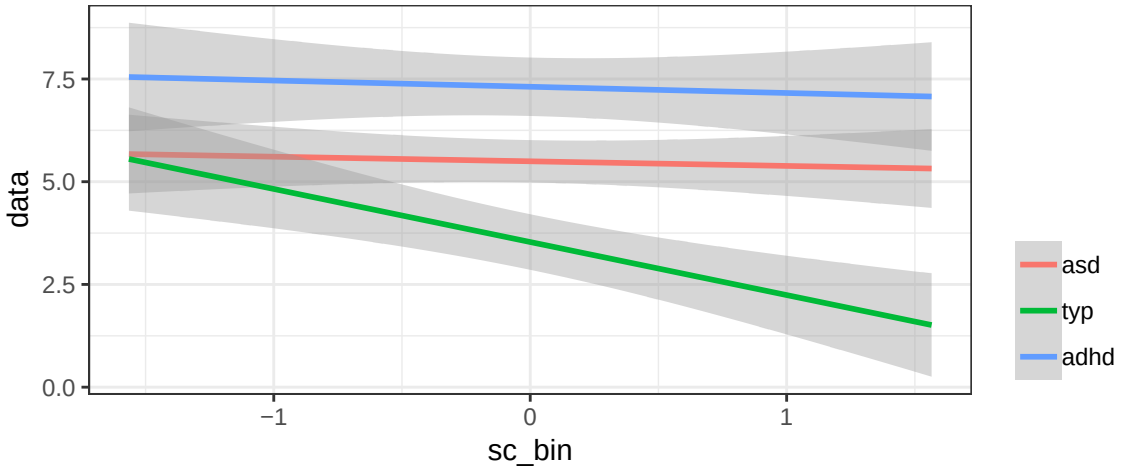

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                   Sum Sq Mean Sq NumDF DenDF F value Pr(>F)
## group_lbl        21.2902 10.6451     2   863  1.3828 0.2514
## sc_bin            0.0676  0.0676     1   863  0.0088 0.9254
## group_lbl:sc_bin  4.4998  2.2499     2   863  0.2923 0.7466
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1            (Intercept)  0.4680138  0.19640899  0.7396187  0.1389037 863  3.3693402    0.001 ***
## 2         group_lbl: asd  0.1947242 -0.20569999  0.5951483  0.2047843 863  0.9508747    0.342
## 3        group_lbl: adhd  0.4496139 -0.09827646  0.9975043  0.2802012 863  1.6046110    0.109
## 4                 sc_bin  0.1058864 -0.16554498  0.3773177  0.1388150 863  0.7627879    0.446
## 5  group_lbl: asd:sc_bin -0.1449576 -0.54538848  0.2554733  0.2047877 863 -0.7078431    0.479
## 6 group_lbl: adhd:sc_bin -0.1428835 -0.69092563  0.4051587  0.2802788 863 -0.5097906     0.61
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate CI (lower) CI (upper) Std. Error  df      t value Pr(>|t|)
## 1             (Intercept)  0.66273802  0.3685097  0.9569664  0.1504738 863  4.404342574   <0.001 ***
## 2         group_lbl2: typ -0.19472417 -0.5951483  0.2057000  0.2047843 863 -0.950874674    0.342
## 3        group_lbl2: adhd  0.25488974 -0.3045609  0.8143403  0.2861133 863  0.890869952    0.373
## 4                 sc_bin -0.03907119 -0.3334688  0.2553264  0.1505603 863 -0.259505228    0.795
## 5  group_lbl2: typ:sc_bin  0.14495757 -0.2554733  0.5453885  0.2047877 863  0.707843096    0.479
## 6 group_lbl2: adhd:sc_bin  0.00207408 -0.5576983  0.5618465  0.2862779 863  0.007244988    0.994
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4246.3 4274.9 -2117.2   4234.3
## m1  8 4249.7 4287.9 -2116.9   4233.7 0.5884      2     0.7451
```

R_VIS_RC1_1F1, VIS_SWEEP+AUD



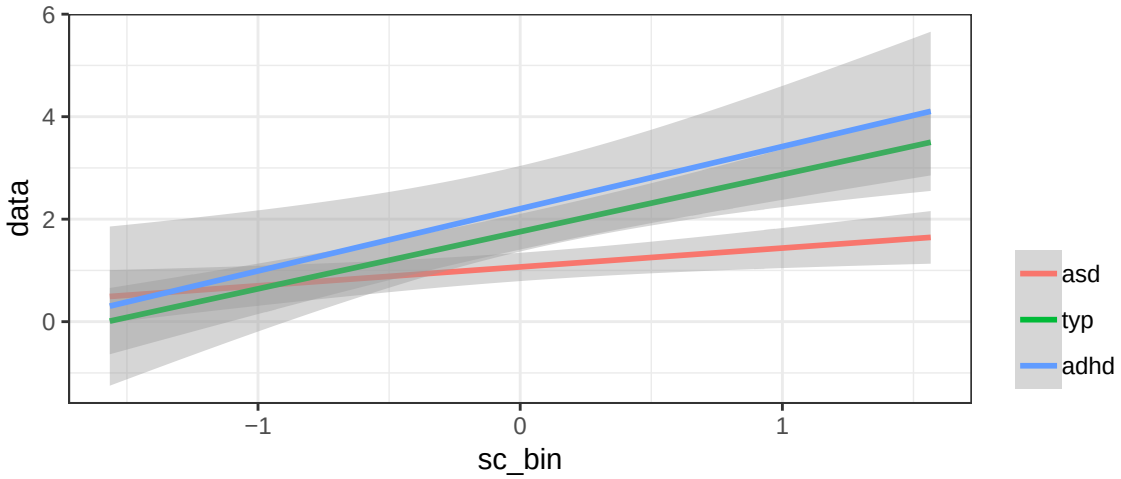

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF  F value    Pr(>F)
## group_lbl          71.0    35.5     2    84   2.7266   0.07124 .
## sc_bin           4873.3  4873.3     1   780 374.3011 < 2.2e-16 ***
## group_lbl:sc_bin  346.4   173.2     2   780  13.3029 2.084e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                            Estimate  CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1            (Intercept)  5.8201237  4.97155369  6.6686938  0.4357609  84 13.3562310   <0.001 ***
## 2         group_lbl: asd -1.3721396 -2.62402364 -0.1202556  0.6428723  84 -2.1343891    0.036   *
## 3        group_lbl: adhd  0.1547345 -1.55864651  1.8681156  0.8798620  84  0.1758623    0.861
## 4                sc_bin  1.8492892  1.49572379  2.2028545  0.1805188 780 10.2443042   <0.001 ***
## 5  group_lbl: asd:sc_bin  0.5859786  0.06436835  1.1075889  0.2663169 780  2.2003056    0.028   *
## 6 group_lbl: adhd:sc_bin  1.8709979  1.15710019  2.5848956  0.3644925 780  5.1331585   <0.001 ***
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                             Estimate CI (lower)  CI (upper) Std. Error  df   t value Pr(>|t|)
## 1             (Intercept)  4.4479841  3.5275807  5.36838758  0.4726491  84  9.410753   <0.001 ***
## 2         group_lbl2: typ  1.3721396  0.1202556  2.62402364  0.6428723  84  2.134389    0.036   *
## 3        group_lbl2: adhd  1.5268742 -0.2231961  3.27694443  0.8987028  84  1.698976    0.093   .
## 4                sc_bin  2.4352678  2.0517723  2.81876325  0.1958001 780 12.437521   <0.001 ***
## 5  group_lbl2: typ:sc_bin -0.5859786 -1.1075889 -0.06436835  0.2663169 780 -2.200306    0.028   *
## 6 group_lbl2: adhd:sc_bin  1.2850193  0.5558346  2.01420390  0.3722975 780  3.451592    0.001 ***
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4887.4 4916.0 -2437.7   4875.4
## m1  8 4865.2 4903.3 -2424.6   4849.2 26.263      2  1.982e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

R_VIS_RC1_1F1, AUD_SWEEP+VIS



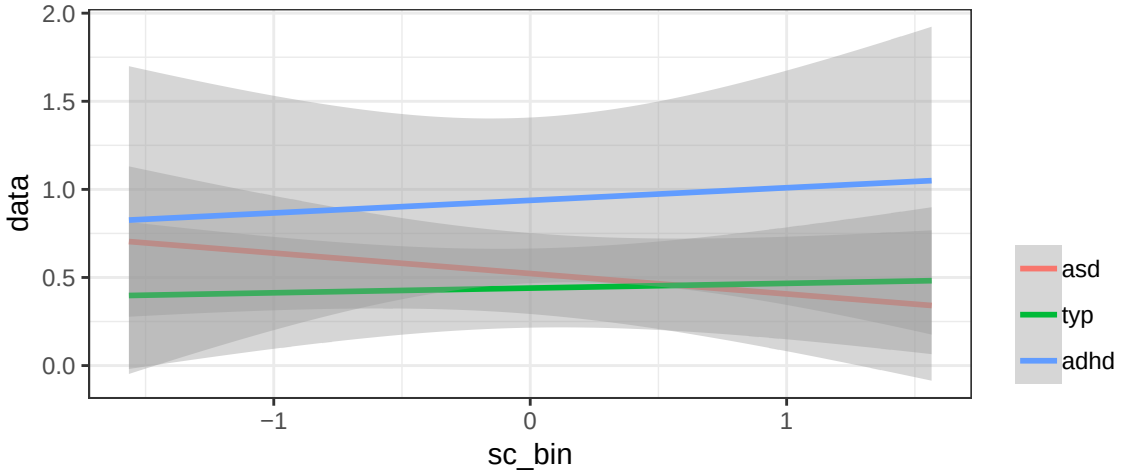

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                   Sum Sq Mean Sq NumDF DenDF F value    Pr(>F)
## group_lbl         64.124  32.062     2    84  3.2239   0.04477 *
## sc_bin           183.887 183.887     1   780 18.4901 1.924e-05 ***
## group_lbl:sc_bin 294.435 147.217     2   780 14.8030 4.900e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                           Estimate CI (lower) CI (upper) Std. Error        df   t value Pr(>|t|)
## 1            (Intercept)  3.532275  1.9871581  5.0773922  0.7934566  83.99931  4.451756   <0.001 ***
## 2         group_lbl: asd  1.964438 -0.3150526  4.2439285  1.1705759  83.99931  1.678181    0.097   .
## 3        group_lbl: adhd  3.778450  0.6586433  6.8982562  1.6020994  83.99931  2.358437    0.021   *
## 4                 sc_bin -1.290905 -1.5999146 -0.9818947  0.1577702 780.00024 -8.182183   <0.001 ***
## 5  group_lbl: asd:sc_bin  1.178534  0.7226553  1.6344118  0.2327563 780.00024  5.063381   <0.001 ***
## 6 group_lbl: adhd:sc_bin  1.139235  0.5153012  1.7631694  0.3185600 780.00024  3.576203   <0.001 ***
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1             (Intercept)  5.49671311  3.8207983  7.1726279  0.8606245  83.99931  6.3868886   <0.001 ***
## 2         group_lbl2: typ -1.96443795 -4.2439285  0.3150526  1.1705759  83.99931 -1.6781807    0.097   .
## 3        group_lbl2: adhd  1.81401184 -1.3726001  5.0006238  1.6364057  83.99931  1.1085343    0.271
## 4                 sc_bin -0.11237109 -0.4475394  0.2227972  0.1711258 780.00024 -0.6566578    0.512
## 5  group_lbl2: typ:sc_bin -1.17853356 -1.6344118 -0.7226553  0.2327563 780.00024 -5.0633809   <0.001 ***
## 6 group_lbl2: adhd:sc_bin -0.03929826 -0.6765929  0.5979963  0.3253814 780.00024 -0.1207760    0.904
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance Chisq Chi Df Pr(>Chisq)
## m2  6 4783.7 4812.3 -2385.8   4771.7
## m1  8 4758.5 4796.7 -2371.3   4742.5 29.17      2  4.633e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

R_VIS_RC1_2F1, VIS_SWEEP



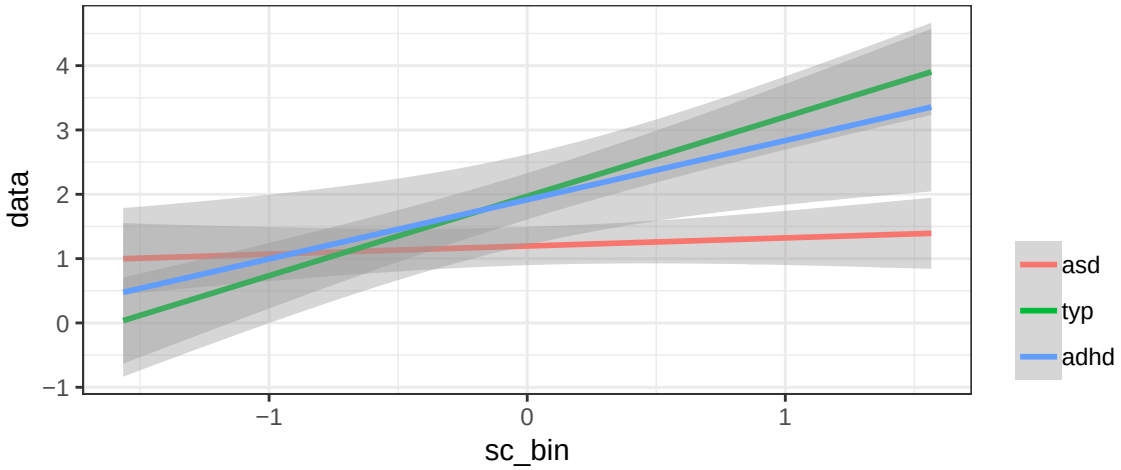

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                   Sum Sq Mean Sq NumDF DenDF F value    Pr(>F)
## group_lbl          41.87   20.94     2    84  2.2175  0.115216
## sc_bin            553.22  553.22     1   780 58.5961 5.725e-14 ***
## group_lbl:sc_bin 123.92   61.96     2   780  6.5628  0.001491 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                              Estimate CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1            (Intercept)  1.75543475  1.1865583  2.3243112  0.2921316  84  6.0090548   <0.001 ***
## 2         group_lbl: asd -0.68735601 -1.5266118  0.1518997  0.4309778  84 -1.5948756    0.114
## 3        group_lbl: adhd  0.44832095 -0.7003197  1.5969616  0.5898543  84  0.7600537    0.449
## 4                sc_bin  1.11472743  0.8136474  1.4158075  0.1537215 780  7.2516042   <0.001 ***
## 5  group_lbl: asd:sc_bin -0.74652751 -1.1907069 -0.3023482  0.2267833 780 -3.2918105    0.001  **
## 6 group_lbl: adhd:sc_bin  0.09939398 -0.5085285  0.7073165  0.3103851 780  0.3202279    0.749
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error  df  t value Pr(>|t|)
## 1             (Intercept) 1.0680787  0.45104563  1.6851118  0.3168612  84 3.370809    0.001  **
## 2         group_lbl2: typ 0.6873560 -0.15189975  1.5266118  0.4309778  84 1.594876    0.114
## 3        group_lbl2: adhd 1.1356770 -0.03755995  2.3089139  0.6024851  84 1.884988    0.063   .
## 4                sc_bin 0.3681999  0.04163277  0.6947671  0.1667344 780 2.208302    0.028   *
## 5  group_lbl2: typ:sc_bin 0.7465275  0.30234817  1.1907069  0.2267833 780 3.291810    0.001  **
## 6 group_lbl2: adhd:sc_bin 0.8459215  0.22498134  1.4668616  0.3170315 780 2.668257    0.008  **
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4553.0 4581.6 -2270.5   4541.0
## m1  8 4543.9 4582.1 -2264.0   4527.9 13.066      2   0.001454 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

R_VIS_RC1_2F1, AUD_SWEEP



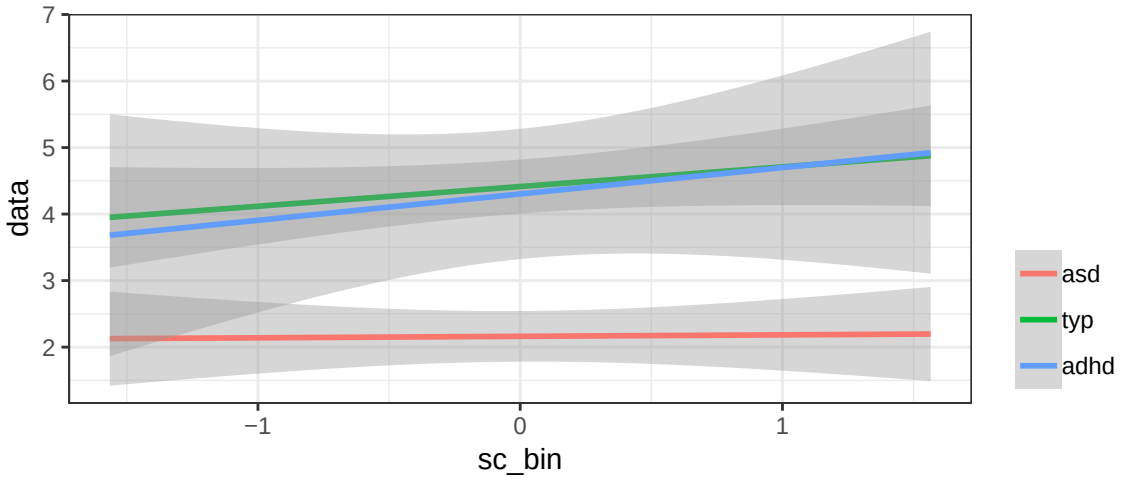

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                   Sum Sq Mean Sq NumDF  DenDF F value Pr(>F)
## group_lbl        19.3500  9.6750     2  84.08  1.8737 0.1599
## sc_bin            0.0236  0.0236     1 779.15  0.0046 0.9461
## group_lbl:sc_bin  5.0841  2.5420     2 779.15  0.4923 0.6114
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate   CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1            (Intercept)  0.43983556  0.189930124  0.6897450  0.1283338  84.30383  3.4272771    0.001 ***
## 2         group_lbl: asd  0.08266378 -0.285825659  0.4511492  0.1892265  84.13542  0.4368511    0.663
## 3        group_lbl: adhd  0.49791187 -0.006310286  1.0021300  0.2589276  84.06873  1.9229775    0.058   .
## 4                sc_bin  0.02681755 -0.195851177  0.2494883  0.1136882 779.15852  0.2358868    0.814
## 5  group_lbl: asd:sc_bin -0.14275808 -0.471253934  0.1857358  0.1677192 779.15346 -0.8511732    0.395
## 6 group_lbl: adhd:sc_bin  0.04467799 -0.404861621  0.4942652  0.2295457 779.15145  0.1946366    0.846
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate  CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1             (Intercept)  0.52249934  0.25170557  0.7932931  0.1390578  83.99237  3.7574246   <0.001 ***
## 2         group_lbl2: typ -0.08266378 -0.45114921  0.2858257  0.1892265  84.13542 -0.4368511    0.663
## 3        group_lbl2: adhd  0.41524809 -0.09964365  0.9301398  0.2644069  83.99237  1.5704890     0.12
## 4                sc_bin -0.11594054 -0.35745051  0.1255694  0.1233074 779.14915 -0.9402558    0.347
## 5  group_lbl2: typ:sc_bin  0.14275808 -0.18573578  0.4712539  0.1677192 779.15346  0.8511732    0.395
## 6 group_lbl2: adhd:sc_bin  0.18743608 -0.27177497  0.6466471  0.2344588 779.14915  0.7994415    0.424
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 3920.6 3949.2 -1954.3   3908.6
## m1  8 3923.6 3961.8 -1953.8   3907.6 0.9878      2     0.6103
```

R_VIS_RC1_2F1, VIS_SWEEP+AUD



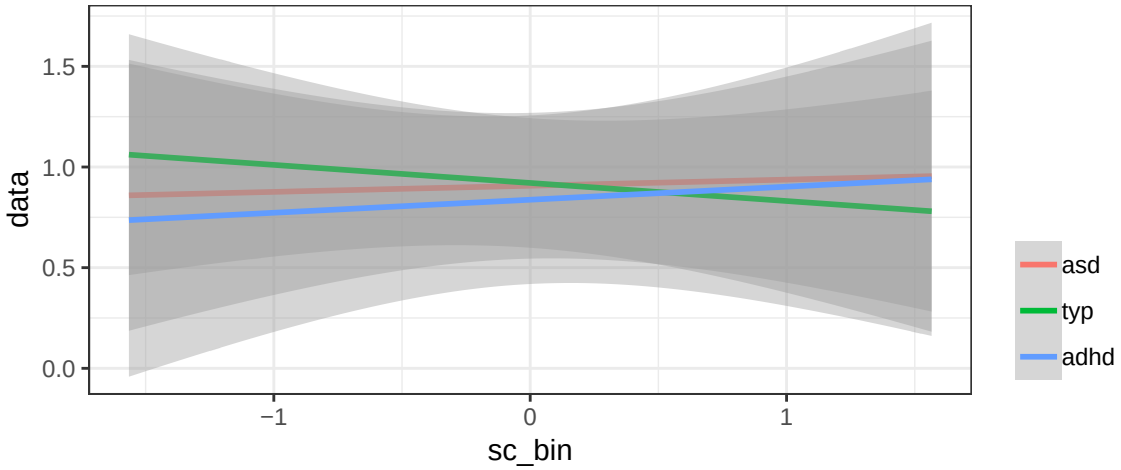

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF F value    Pr(>F)
## group_lbl         26.88   13.44     2    84  1.5371     0.221
## sc_bin           395.68  395.68     1   780 45.2524 3.351e-11 ***
## group_lbl:sc_bin 229.88  114.94     2   780 13.1449 2.429e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1            (Intercept)  1.96916556  1.3608174  2.5775137  0.3124013  84  6.3033216   <0.001 ***
## 2         group_lbl: asd -0.77346133 -1.6709492  0.1240265  0.4608814  84 -1.6782221    0.097   .
## 3        group_lbl: adhd -0.05374726 -1.2820868  1.1745923  0.6307816  84 -0.0852074    0.932
## 4                 sc_bin  1.23495646  0.9452079  1.5247050  0.1479360 780  8.3479100   <0.001 ***
## 5  group_lbl: asd:sc_bin -1.10883304 -1.5362952 -0.6813709  0.2182480 780 -5.0806101   <0.001 ***
## 6 group_lbl: adhd:sc_bin -0.31509334 -0.9001360  0.2699493  0.2987034 780 -1.0548703    0.292
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                            Estimate CI (lower) CI (upper) Std. Error  df   t value Pr(>|t|)
## 1             (Intercept) 1.1957042  0.5358580  1.8555504  0.3388467  84 3.5287465    0.001 ***
## 2         group_lbl2: typ 0.7734613 -0.1240265  1.6709492  0.4608814  84 1.6782221    0.097   .
## 3        group_lbl2: adhd 0.7197141 -0.5349283  1.9743565  0.6442888  84 1.1170675    0.267
## 4                 sc_bin 0.1261234 -0.1881530  0.4403998  0.1604591 780 0.7860159    0.432
## 5  group_lbl2: typ:sc_bin 1.1088330  0.6813709  1.5362952  0.2182480 780 5.0806101   <0.001 ***
## 6 group_lbl2: adhd:sc_bin 0.7937397  0.1961694  1.3913101  0.3050996 780 2.6015755    0.009  **
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4517.5 4546.1 -2252.8   4505.5
## m1  8 4495.5 4533.7 -2239.8   4479.5 25.956      2  2.311e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

R_VIS_RC1_2F1, AUD_SWEEP+VIS



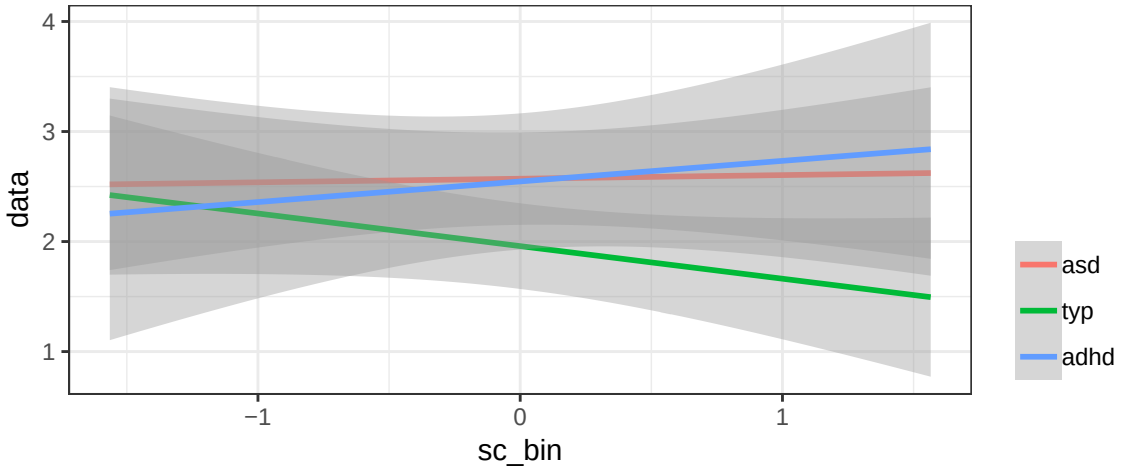

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF F value   Pr(>F)
## group_lbl        31.061  15.531     2    84  3.6379 0.030536 *
## sc_bin           38.807  38.807     1   780  9.0901 0.002653 **
## group_lbl:sc_bin 19.412   9.706     2   780  2.2735 0.103630
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                            Estimate  CI (lower)  CI (upper) Std. Error  df     t value Pr(>|t|)
## 1            (Intercept)  4.4138769  3.25761033  5.57014347  0.5937704  84  7.43364224   <0.001 ***
## 2         group_lbl: asd -2.2517053 -3.95752993 -0.54588075  0.8759816  84 -2.57049401    0.012   *
## 3        group_lbl: adhd -0.1113467 -2.44600989  2.22331640  1.1989051  84 -0.09287369    0.926
## 4                 sc_bin  0.2960992  0.09363958  0.49855873  0.1033692 780  2.86448272    0.004  **
## 5  group_lbl: asd:sc_bin -0.2739604 -0.57264627  0.02472554  0.1524991 780 -1.79647164    0.073   .
## 6 group_lbl: adhd:sc_bin  0.0999857 -0.30880837  0.50877977  0.2087167 780  0.47904981    0.632
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error  df  t value Pr(>|t|)
## 1             (Intercept) 2.16217155  0.90802437  3.4163187  0.6440344  84 3.357230    0.001  **
## 2         group_lbl2: typ 2.25170534  0.54588075  3.9575299  0.8759816  84 2.570494    0.012   *
## 3        group_lbl2: adhd 2.14035860 -0.24429752  4.5250147  1.2245777  84 1.747834    0.084   .
## 4                 sc_bin 0.02213879 -0.19745945  0.2417370  0.1121196 780 0.197457    0.844
## 5  group_lbl2: typ:sc_bin 0.27396036 -0.02472554  0.5726463  0.1524991 780 1.796472    0.073   .
## 6 group_lbl2: adhd:sc_bin 0.37394606 -0.04360165  0.7914938  0.2131860 780 1.754083     0.08   .
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4046.5 4075.1 -2017.2   4034.5
## m1  8 4045.9 4084.1 -2015.0   4029.9 4.5513      2     0.1027
```

R_AUD_RC1_1F2, VIS_SWEEP



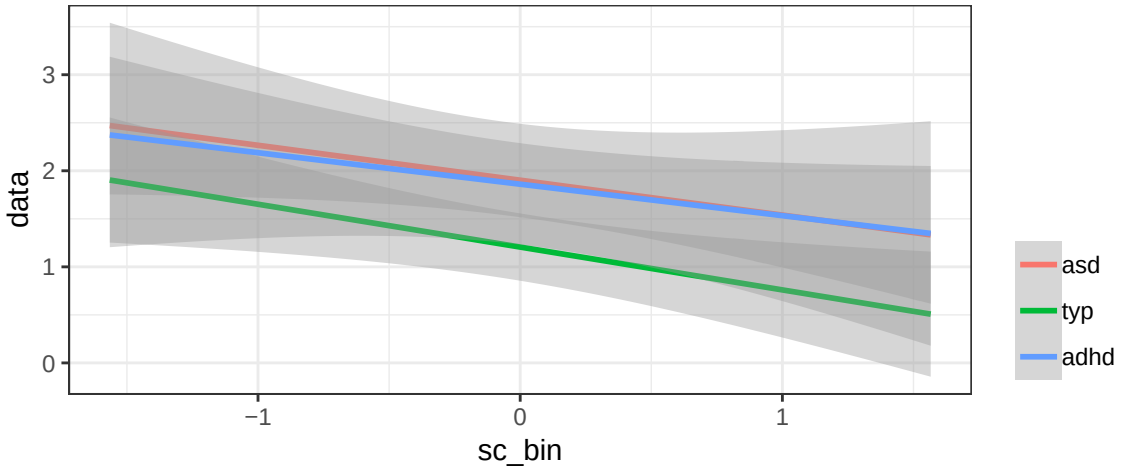

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF F value Pr(>F)
## group_lbl        0.6347 0.31736     2    84  0.0310 0.9694
## sc_bin           0.0022 0.00224     1   780  0.0002 0.9882
## group_lbl:sc_bin 3.7424 1.87121     2   780  0.1830 0.8328
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate CI (lower) CI (upper) Std. Error        df     t value Pr(>|t|)
## 1            (Intercept)  0.92076324  0.5962151  1.2453114  0.1666632  83.99913  5.52469600   <0.001 ***
## 2         group_lbl: asd -0.01384482 -0.4926464  0.4649568  0.2458759  83.99913 -0.05630814    0.955
## 3        group_lbl: adhd -0.08330129 -0.7386093  0.5720067  0.3365161  83.99913 -0.24754029    0.805
## 4                sc_bin -0.08977416 -0.4030792  0.2235309  0.1599632 779.99872 -0.56121747    0.575
## 5  group_lbl: asd:sc_bin  0.12024884 -0.3419659  0.5824636  0.2359916 779.99872  0.50954711    0.611
## 6 group_lbl: adhd:sc_bin  0.15450070 -0.4781059  0.7871073  0.3229880 779.99872  0.47834809    0.633
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate CI (lower) CI (upper) Std. Error        df     t value Pr(>|t|)
## 1             (Intercept)  0.90691843  0.5548965  1.2589404  0.1807716  83.99913  5.01693069   <0.001 ***
## 2         group_lbl2: typ  0.01384482 -0.4649568  0.4926464  0.2458759  83.99913  0.05630814    0.955
## 3        group_lbl2: adhd -0.06945648 -0.7387968  0.5998838  0.3437220  83.99913 -0.20207164     0.84
## 4                 sc_bin  0.03047468 -0.3093524  0.3703017  0.1735045 779.99872  0.17564205    0.861
## 5  group_lbl2: typ:sc_bin -0.12024884 -0.5824636  0.3419659  0.2359916 779.99872 -0.50954711    0.611
## 6 group_lbl2: adhd:sc_bin  0.03425186 -0.6119010  0.6804046  0.3299043 779.99872  0.10382364    0.917
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4505.0 4533.6 -2246.5   4493.0
## m1  8 4508.6 4546.8 -2246.3   4492.6 0.3674      2     0.8322
```

R_AUD_RC1_1F2, AUD_SWEEP



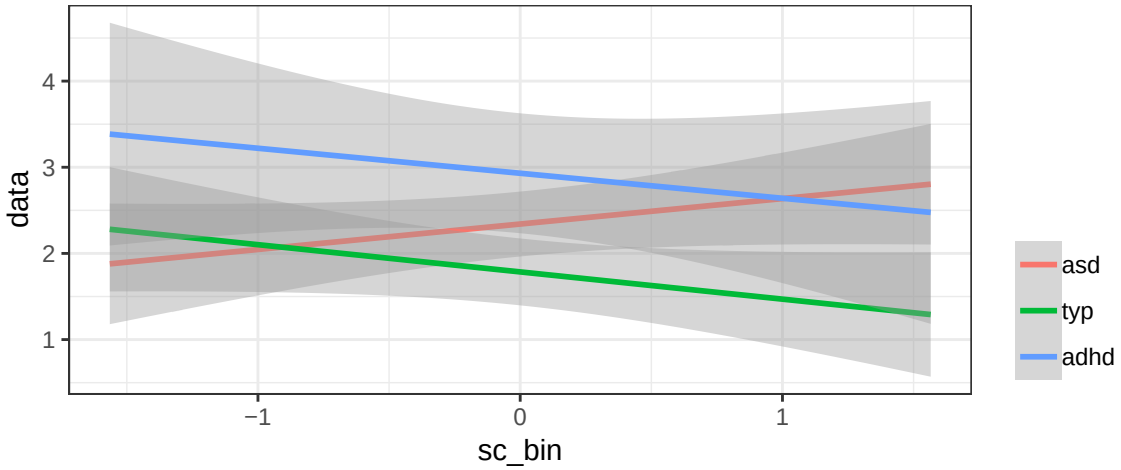

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF  DenDF F value Pr(>F)
## group_lbl        27.236  13.618     2  83.94  1.0631 0.3500
## sc_bin            0.452   0.452     1 778.98  0.0353 0.8510
## group_lbl:sc_bin 32.192  16.096     2 778.98  1.2565 0.2852
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                            Estimate CI (lower) CI (upper) Std. Error        df   t value Pr(>|t|)
## 1            (Intercept)  1.9621866  1.3708660 2.55355926  0.3036725  84.05313  6.461523   <0.001 ***
## 2         group_lbl: asd  0.6089838 -0.2632312 1.48114679  0.4478913  83.97173  1.359669    0.178
## 3        group_lbl: adhd  0.5840306 -0.6095924 1.77760140  0.6129418  83.93949  0.952832    0.343
## 4                sc_bin -0.2970420 -0.6477510 0.05369297  0.1790670 778.97966 -1.658831    0.098   .
## 5  group_lbl: asd:sc_bin  0.3298351 -0.1875821 0.84722637  0.2641695 778.97720  1.248574    0.212
## 6 group_lbl: adhd:sc_bin  0.4841965 -0.2239515 1.19231860  0.3615503 778.97623  1.339223    0.181
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate CI (lower) CI (upper) Std. Error        df     t value Pr(>|t|)
## 1             (Intercept)  2.57117045  1.9300599  3.2122810  0.3292259  83.90257  7.80974560   <0.001 ***
## 2         group_lbl2: typ -0.60898385 -1.4811468  0.2632312  0.4478913  83.97173 -1.35966870    0.178
## 3        group_lbl2: adhd -0.02495327 -1.2439715  1.1940650  0.6259955  83.90257 -0.03986174    0.968
## 4                 sc_bin  0.03279312 -0.3476030  0.4131893  0.1942177 778.97512  0.16884724    0.866
## 5  group_lbl2: typ:sc_bin -0.32983508 -0.8472264  0.1875821  0.2641695 778.97720 -1.24857376    0.212
## 6 group_lbl2: adhd:sc_bin  0.15436140 -0.5689301  0.8776529  0.3692887 778.97512  0.41799653    0.676
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4782.6 4811.2 -2385.3   4770.6
## m1  8 4784.1 4822.2 -2384.0   4768.1 2.5184      2     0.2839
```

R_AUD_RC1_1F2, VIS_SWEEP+AUD



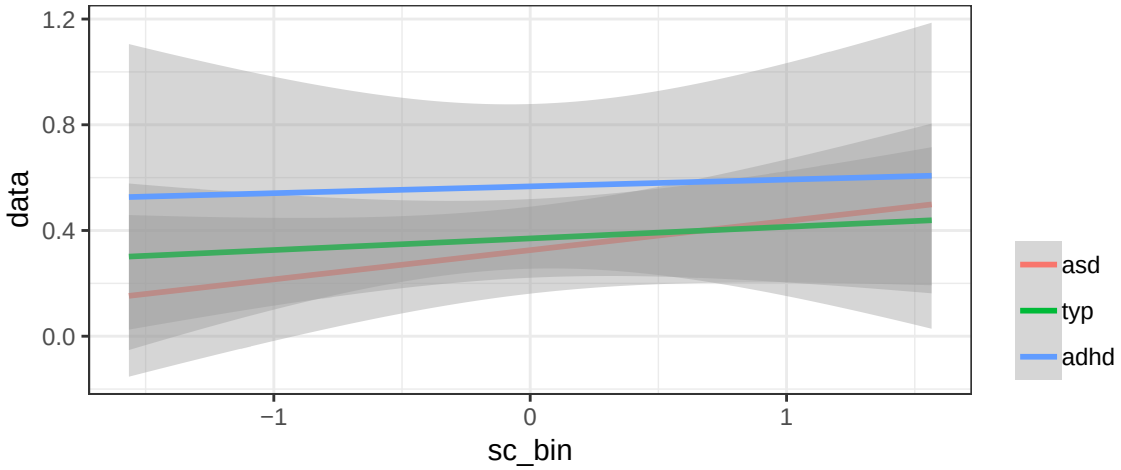

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF F value   Pr(>F)
## group_lbl        39.383  19.691     2    84  1.7585 0.178587
## sc_bin           98.284  98.284     1   780  8.7770 0.003143 **
## group_lbl:sc_bin  1.967   0.983     2   780  0.0878 0.915938
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1            (Intercept)  1.20589736  0.68293880  1.7288559  0.2685517  83.99997  4.4903730   <0.001 ***
## 2         group_lbl: asd  0.69618873 -0.07532503  1.4677025  0.3961907  83.99997  1.7572059    0.083   .
## 3        group_lbl: adhd  0.65450517 -0.40142096  1.7104313  0.5422433  83.99997  1.2070323    0.231
## 4                sc_bin -0.44592494 -0.77382009 -0.1180298  0.1674124 780.00002 -2.6636314    0.008  **
## 5  group_lbl: asd:sc_bin  0.08253789 -0.40120143  0.5662772  0.2469813 780.00002  0.3341868    0.738
## 6 group_lbl: adhd:sc_bin  0.11844564 -0.54362031  0.7805116  0.3380289 780.00002  0.3504009    0.726
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate CI (lower)   CI (upper) Std. Error        df     t value Pr(>|t|)
## 1             (Intercept)  1.90208610  1.3348579  2.469314296  0.2912852  83.99997  6.52997780   <0.001 ***
## 2         group_lbl2: typ -0.69618873 -1.4677025  0.075325028  0.3961907  83.99997 -1.75720593    0.083   .
## 3        group_lbl2: adhd -0.04168357 -1.1202206  1.036853477  0.5538545  83.99997 -0.07526086     0.94
## 4                sc_bin -0.36338705 -0.7190393 -0.007734822  0.1815842 780.00002 -2.00120361    0.046   *
## 5  group_lbl2: typ:sc_bin -0.08253789 -0.5662772  0.401201435  0.2469813 780.00002 -0.33418683    0.738
## 6 group_lbl2: adhd:sc_bin  0.03590775 -0.6403353  0.712150748  0.3452673 780.00002  0.10399986    0.917
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4659.1 4687.7 -2323.5   4647.1
## m1  8 4662.9 4701.1 -2323.4   4646.9 0.1763      2     0.9156
```

R_AUD_RC1_1F2, AUD_SWEEP+VIS



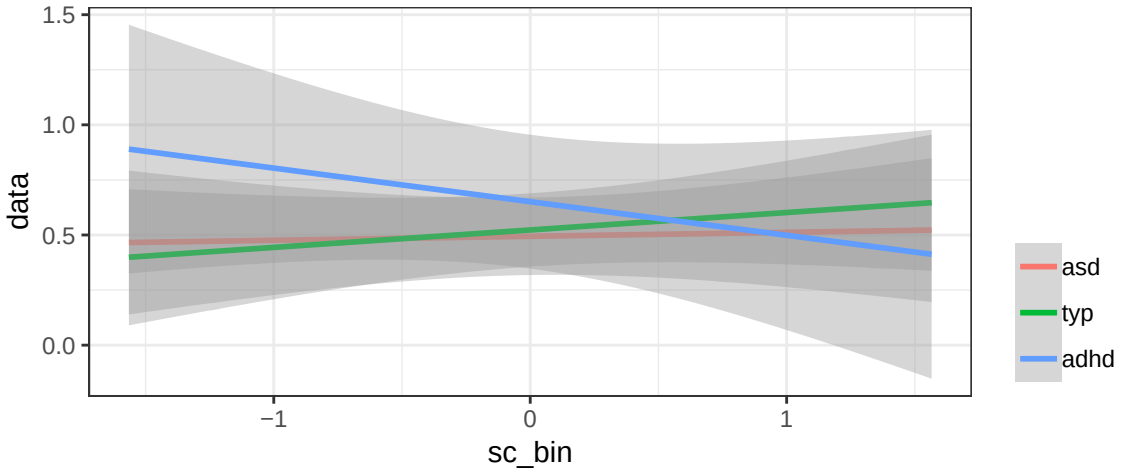

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF F value  Pr(>F)
## group_lbl        48.932  24.466     2    84  2.0140 0.13985
## sc_bin            7.358   7.358     1   780  0.6057 0.43663
## group_lbl:sc_bin 75.823  37.912     2   780  3.1208 0.04467 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error  df     t value Pr(>|t|)
## 1            (Intercept)  1.78544515  1.20275120  2.3681391  0.2992272  84  5.96685398   <0.001 ***
## 2         group_lbl: asd  0.55569147 -0.30394912  1.4153321  0.4414459  84  1.25879853    0.212
## 3        group_lbl: adhd  1.14493949 -0.03160072  2.3214797  0.6041814  84  1.89502599    0.062   .
## 4                sc_bin -0.31611438 -0.65763557  0.0254068  0.1743694 780 -1.81290047     0.07   .
## 5  group_lbl: asd:sc_bin  0.61146135  0.10761972  1.1153030  0.2572449 780  2.37696244    0.018   *
## 6 group_lbl: adhd:sc_bin  0.02582904 -0.66374977  0.7154078  0.3520761 780  0.07336209    0.942
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                             Estimate  CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1            (Intercept)  2.3411366  1.70911629  2.9731570  0.3245575  84  7.213319   <0.001 ***
## 2         group_lbl2: typ -0.5556915 -1.41533207  0.3039491  0.4414459  84 -1.258799    0.212
## 3        group_lbl2: adhd  0.5892480 -0.61248587  1.7909819  0.6171190  84  0.954837    0.342
## 4                sc_bin  0.2953470 -0.07508477  0.6657787  0.1891302 780  1.561607    0.119
## 5  group_lbl2: typ:sc_bin -0.6114614 -1.11530298 -0.1076197  0.2572449 780 -2.376962    0.018   *
## 6 group_lbl2: adhd:sc_bin -0.5856323 -1.28997732  0.1187127  0.3596152 780 -1.628497    0.104
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 4747.7 4776.3 -2367.9   4735.7
## m1  8 4745.5 4783.6 -2364.7   4729.5 6.2407      2    0.04414 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

R_AUD_RC1_2F2, VIS_SWEEP



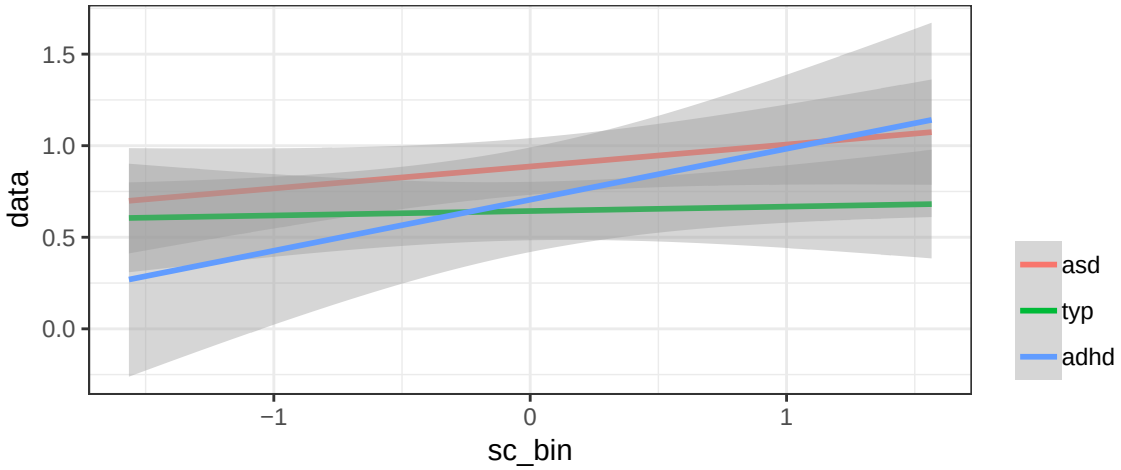

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                  Sum Sq Mean Sq NumDF DenDF F value Pr(>F)
## group_lbl        4.7674 2.38371     2    84  0.9834 0.3783
## sc_bin           2.4677 2.46766     1   780  1.0180 0.3133
## group_lbl:sc_bin 1.0761 0.53807     2   780  0.2220 0.8010
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1            (Intercept)  0.37001264  0.2059956  0.5340296 0.08422663  83.99999  4.3930599   <0.001 ***
## 2         group_lbl: asd -0.04438613 -0.2863582  0.1975860 0.12425842  83.99999 -0.3572082    0.722
## 3        group_lbl: adhd  0.19685489 -0.1343183  0.5280280 0.17006529  83.99999  1.1575254     0.25
## 4                sc_bin  0.04389073 -0.1086680  0.1964495 0.07789146 779.99997  0.5634858    0.573
## 5  group_lbl: asd:sc_bin  0.06658690 -0.1584810  0.2916548 0.11491223 779.99997  0.5794588    0.562
## 6 group_lbl: adhd:sc_bin -0.01813067 -0.3261681  0.2899067 0.15727370 779.99997 -0.1152810    0.908
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate  CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1             (Intercept)  0.32562652  0.14772510  0.5035279 0.09135661  84  3.5643454    0.001 ***
## 2          group_lbl2: typ  0.04438613 -0.19758596  0.2863582 0.12425843  84  0.3572082    0.722
## 3         group_lbl2: adhd  0.24124101 -0.09702367  0.5795057 0.17370697  84  1.3887814    0.169
## 4                 sc_bin  0.11047764 -0.05499559  0.2759509 0.08448515 780  1.3076575    0.191
## 5  group_lbl2: typ:sc_bin -0.06658690 -0.29165482  0.1584810 0.11491223 780 -0.5794588    0.562
## 6 group_lbl2: adhd:sc_bin -0.08471757 -0.39935109  0.2299159 0.16064146 780 -0.5273706    0.598
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 3259.4 3288.0 -1623.7   3247.4
## m1  8 3262.9 3301.1 -1623.5   3246.9 0.4455      2     0.8003
```

R_AUD_RC1_2F2, AUD_SWEEP



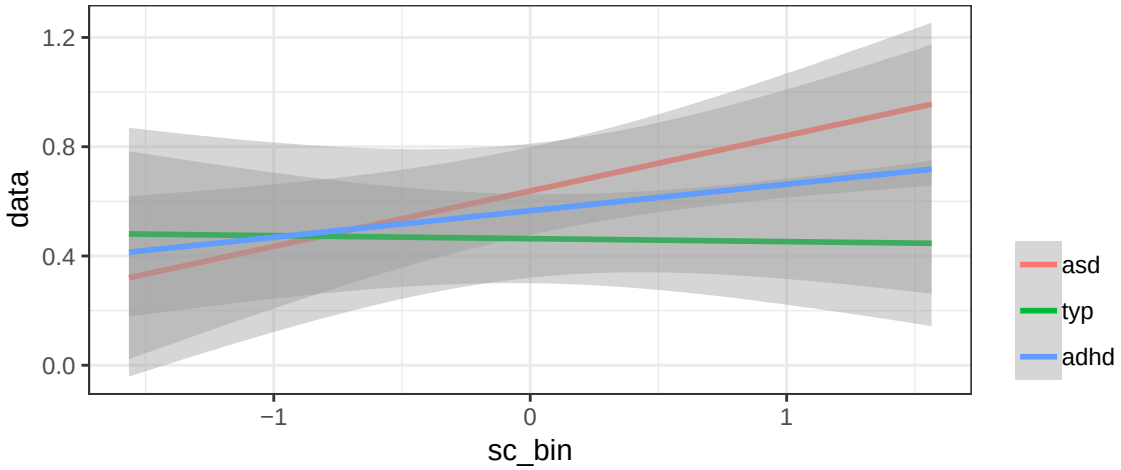

```
## ANOVA TEST FOR MAIN EFFECTS AND INTERACTIONS
## Type III Analysis of Variance Table with Satterthwaite's method
##                   Sum Sq Mean Sq NumDF  DenDF F value Pr(>F)
## group_lbl        1.7147 0.85736     2  83.87  0.3137 0.7316
## sc_bin           0.2330 0.23296     1 778.94  0.0852 0.7704
## group_lbl:sc_bin 5.2541 2.62706     2 778.94  0.9611 0.3829
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                              Estimate  CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1            (Intercept)  0.52333765  0.33410052 0.71260922 0.09718770  84.07952  5.3848136   <0.001 ***
## 2         group_lbl: asd -0.02930789 -0.30839024 0.24973990 0.14330748  83.92255 -0.2045105    0.838
## 3        group_lbl: adhd  0.12784281 -0.25403908 0.50969009 0.19609746  83.86038  0.6519351    0.516
## 4                 sc_bin  0.07903575 -0.08296123 0.24104988 0.08271458 778.94311  0.9555238     0.34
## 5  group_lbl: asd:sc_bin -0.06098599 -0.29999420 0.17800507 0.12202517 778.93836 -0.4997821    0.617
## 6 group_lbl: adhd:sc_bin -0.23146698 -0.55857778 0.09562668 0.16700739 778.93648 -1.3859685    0.166
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                               Estimate CI (lower) CI (upper) Std. Error        df    t value Pr(>|t|)
## 1             (Intercept)  0.49402976  0.2889442  0.6991154  0.1053166  83.78921  4.6909012   <0.001 ***
## 2         group_lbl2: typ  0.02930789 -0.2497399  0.3083902  0.1433075  83.92255  0.2045105    0.838
## 3        group_lbl2: adhd  0.15715070 -0.2328025  0.5471039  0.2002507  83.78921  0.7847697    0.435
## 4                 sc_bin  0.01804976 -0.1576631  0.1937627  0.0897131 778.93433  0.2011942    0.841
## 5  group_lbl2: typ:sc_bin  0.06098599 -0.1780051  0.2999942  0.1220252 778.93836  0.4997821    0.617
## 6 group_lbl2: adhd:sc_bin -0.17048098 -0.5045844  0.1636224  0.1705820 778.93433 -0.9994081    0.318
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 3375.8 3404.4 -1681.9   3363.8
## m1  8 3377.8 3416.0 -1680.9   3361.8 1.9274      2     0.3815
```

R_AUD_RC1_2F2, VIS_SWEEP+AUD




```
## 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)
## group_lbl         3.9088  1.9544     2    84  0.9462 0.39231
## sc_bin           13.5668 13.5668     1   780  6.5683 0.01057 *
## group_lbl:sc_bin  6.5651  3.2826     2   780  1.5892 0.20474
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                            Estimate  CI (lower) CI (upper) Std. Error  df   t value Pr(>|t|)
## 1            (Intercept) 0.64313785  0.40665152  0.8796242 0.12144136  84 5.2958716   <0.001 ***
## 2         group_lbl: asd 0.24338991 -0.10549520  0.5922750 0.17916081  84 1.3584997    0.178
## 3        group_lbl: adhd 0.06180318 -0.41569563  0.5393020 0.24520701  84 0.2520449    0.802
## 4                sc_bin 0.02416240 -0.11666251  0.1649873 0.07190053 780 0.3360531    0.737
## 5  group_lbl: asd:sc_bin 0.09557986 -0.11217724  0.3033370 0.10607390 780 0.9010687    0.368
## 6 group_lbl: adhd:sc_bin 0.25428914 -0.03005595  0.5386342 0.14517719 780 1.7515778     0.08    .
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1             (Intercept)  0.88652776  0.6300223  1.1430332 0.13172165  84  6.7303117   <0.001 ***
## 2         group_lbl2: typ -0.24338991 -0.5922750  0.1054952 0.17916081  84 -1.3584997    0.178
## 3        group_lbl2: adhd -0.18158673 -0.6693104  0.3061369 0.25045771  84 -0.7250195     0.47
## 4                  sc_bin  0.11974226 -0.0330038  0.2724883 0.07798708 780  1.5354115    0.125
## 5  group_lbl2: typ:sc_bin -0.09557986 -0.3033370  0.1121772 0.10607390 780 -0.9010687    0.368
## 6 group_lbl2: adhd:sc_bin  0.15870928 -0.1317246  0.4491432 0.14828592 780  1.0702923    0.285
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 3200.5 3229.1 -1594.2   3188.5
## m1  8 3201.3 3239.4 -1592.6   3185.3 3.1842      2     0.2035
```

R_AUD_RC1_2F2, AUD_SWEEP+VIS




```
## 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)
## group_lbl        2.3183  1.1591     2    84  0.5387 0.58550
## sc_bin           6.3539  6.3539     1   780  2.9530 0.08611 .
## group_lbl:sc_bin 8.4090  4.2045     2   780  1.9541 0.14239
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## SUMMARY AND POST-HOC TESTS, TYP VS ASD & TYP VS ADHD
##                             Estimate   CI (lower) CI (upper) Std. Error  df    t value Pr(>|t|)
## 1            (Intercept)  0.46346619  0.240612198  0.6863202  0.1144408  84  4.0498324   <0.001 ***
## 2         group_lbl: asd  0.17441100 -0.154362502  0.5031845  0.1688330  84  1.0330384    0.305
## 3        group_lbl: adhd  0.10218243 -0.347790785  0.5521557  0.2310720  84  0.4422104    0.659
## 4                sc_bin -0.01095934 -0.154691926  0.1327732  0.0733851 780 -0.1493402    0.881
## 5  group_lbl: asd:sc_bin  0.21389291  0.001846149  0.4259397  0.1082641 780  1.9756595    0.049   *
## 6 group_lbl: adhd:sc_bin  0.10802688 -0.182189212  0.3982430  0.1481747 780  0.7290506    0.466
##
## SUMMARY AND POST-HOC TESTS, ASD VS TYP & ASD VS ADHD
##                              Estimate  CI (lower)   CI (upper) Std. Error  df    t value Pr(>|t|)
## 1             (Intercept)  0.63787719  0.39615810  0.879596274 0.12412851  84  5.1388452   <0.001 ***
## 2         group_lbl2: typ -0.17441100 -0.50318451  0.154362502 0.16883303  84 -1.0330384    0.305
## 3        group_lbl2: adhd -0.07222857 -0.53183722  0.387380087 0.23601999  84 -0.3060273     0.76
## 4                sc_bin  0.20293356  0.04703369  0.358833438 0.07959731 780  2.5495027    0.011   *
## 5  group_lbl2: typ:sc_bin -0.21389291 -0.42593966 -0.001846149 0.10826405 780 -1.9756595    0.049   *
## 6 group_lbl2: adhd:sc_bin -0.10586603 -0.40229662  0.190564567 0.15134764 780 -0.6994891    0.484
##
## TEST OF WHETHER OR NOT THE INTERACTION PROVIDES A BETTER FIT
## Data: cur_data
## Models:
## m2: data ~ group_lbl + sc_bin + (1 | subject)
## m1: data ~ group_lbl * sc_bin + (1 | subject)
##    Df    AIC    BIC  logLik deviance  Chisq Chi Df Pr(>Chisq)
## m2  6 3222.9 3251.5 -1605.4   3210.9
## m1  8 3222.9 3261.1 -1603.5   3206.9 3.9133      2     0.1413
```