Positive Affect and SM Use - SMASH Study

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Examine Variables

Negative Affect

```
## Negative mood - sumduration
NA_sm_sum <- lmer(Mood_1_pm ~ phone_applications_foreground_rapids_sumdurationsm + Mood_1_am + day_in_s
summary(NA_sm_sum)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: Mood_1_pm ~ phone_applications_foreground_rapids_sumdurationsm +
##
      Mood_1_am + day_in_study + (1 | pid)
##
      Data: data
##
## REML criterion at convergence: 50580.3
##
## Scaled residuals:
           1Q Median
##
      Min
                                ЗQ
                                       Max
## -1.8602 -0.5240 -0.1081 0.1487 4.2221
##
## Random effects:
## Groups
            Name
                         Variance Std.Dev.
             (Intercept) 337.9
                                  18.38
## pid
                         334.2
                                  18.28
## Number of obs: 5836, groups: pid, 17
## Fixed effects:
                                                       Estimate Std. Error
##
## (Intercept)
                                                      1.679e+01 4.528e+00
## phone applications foreground rapids sumdurationsm 2.369e-02 2.579e-02
## Mood_1_am
                                                      1.088e-01 1.175e-02
## day_in_study
                                                      1.045e-01 2.996e-02
##
                                                             df t value Pr(>|t|)
## (Intercept)
                                                      1.665e+01
                                                                  3.708 0.001801
## phone_applications_foreground_rapids_sumdurationsm 5.821e+03
                                                                0.918 0.358518
## Mood 1 am
                                                      5.832e+03 9.260 < 2e-16
## day_in_study
                                                      5.828e+03 3.487 0.000493
##
```

```
## (Intercept)
## phone_applications_foreground_rapids_sumdurationsm
## Mood 1 am
## day_in_study
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
              (Intr) ph____ Md_1_m
## phn_pplc___ -0.035
## Mood_1_am -0.077 -0.007
## day_in_stdy -0.117 0.042 0.242
## Negative mood - sumduration
NA_sm_sum_test <- lmer(NAf_pm ~ sum_sm + NAf_am + day_in_study + (1 | pid), data = day)
summary(NA_sm_sum_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: NAf_pm ~ sum_sm + NAf_am + day_in_study + (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 8791.5
## Scaled residuals:
      Min
              1Q Median
                               3Q
## -2.3534 -0.4687 -0.1009 0.0270 4.4305
## Random effects:
## Groups
           Name
                        Variance Std.Dev.
            (Intercept) 61738 248.5
## Residual
                        206490
## Number of obs: 581, groups: pid, 19
##
## Fixed effects:
                Estimate Std. Error
                                           df t value Pr(>|t|)
## (Intercept) 233.57731
                         74.21905 36.86749
                                               3.147 0.00326 **
                          0.20272 567.80533
                                               0.708 0.47934
## sum_sm
                 0.14349
## NAf_am
                 0.13173
                            0.04002 560.69639
                                               3.291 0.00106 **
                            2.07055 570.06846 -0.329 0.74230
## day_in_study -0.68116
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
              (Intr) sum_sm NAf_am
##
## sum sm
              -0.303
## NAf am
              -0.246 -0.017
## day_in_stdy -0.487 0.048 0.181
## Negative mood - counts
```

```
NA_sm_count <- lmer(Mood_1_pm ~ phone_applications_foreground_rapids_countsm + Mood_1_am + day_in_study
summary(NA_sm_count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## Mood_1_pm ~ phone_applications_foreground_rapids_countsm + Mood_1_am +
       day_in_study + (1 | pid)
      Data: data
##
## REML criterion at convergence: 28573
##
## Scaled residuals:
##
      Min
               1Q Median
                               30
                                       Max
## -1.9693 -0.5092 -0.1497 0.2084 4.0615
## Random effects:
## Groups
            Name
                        Variance Std.Dev.
## pid
             (Intercept) 325.5
                                 18.04
                         357.4
                                  18.91
## Residual
## Number of obs: 3268, groups: pid, 17
##
## Fixed effects:
##
                                                 Estimate Std. Error
                                                1.489e+01 4.520e+00 1.735e+01
## (Intercept)
## phone applications foreground rapids countsm 6.138e-02 2.898e-02 3.254e+03
                                                1.226e-01 1.580e-02 3.264e+03
## Mood 1 am
                                                1.733e-01 4.109e-02 3.260e+03
## day_in_study
##
                                                t value Pr(>|t|)
## (Intercept)
                                                  3.294 0.00419 **
## phone_applications_foreground_rapids_countsm
                                                  2.118 0.03424 *
                                                  7.756 1.16e-14 ***
## Mood 1 am
## day_in_study
                                                  4.216 2.55e-05 ***
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Correlation of Fixed Effects:
              (Intr) ph____ Md_1_m
## phn_pplc___ -0.075
## Mood_1_am -0.104 -0.009
## day_in_stdy -0.161 0.028 0.240
NA_sm_count_test <- lmer(NAf_pm ~ count_sm + NAf_am + day_in_study + (1 | pid), data = day)
summary(NA_sm_count_test) ###########Significant - # of SM checks predicts evening neg mood
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: NAf_pm ~ count_sm + NAf_am + day_in_study + (1 | pid)
##
      Data: day
```

##

```
## REML criterion at convergence: 8785.7
##
## Scaled residuals:
##
      Min 1Q Median
                             3Q
                                   Max
## -2.4137 -0.4475 -0.1415 0.0886 4.3800
##
## Random effects:
## Groups
           Name
                       Variance Std.Dev.
            (Intercept) 60405
## pid
                       204549
## Residual
                               452.3
## Number of obs: 581, groups: pid, 19
## Fixed effects:
                                        df t value Pr(>|t|)
##
               Estimate Std. Error
## (Intercept) 164.89280
                        77.89591 41.47796
                                            2.117 0.04032 *
                                             2.487 0.01345 *
## count_sm
                0.52774
                          0.21223 293.41059
## NAf_am
                0.12989
                          0.03983 560.23556
                                           3.261 0.00118 **
## day_in_study -0.10120
                          2.07450 572.35339 -0.049 0.96111
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
             (Intr) cnt_sm NAf_am
             -0.436
## count sm
## NAf am
             -0.226 -0.027
## day_in_stdy -0.499 0.125 0.177
## Negitive Event Rating * Where event occurred & minutes of SM
NA_sm <- lmer(phone_applications_foreground_rapids_sumdurationsm ~ NegEventRating_1_pm*NegEventHow_pm +
summary(NA_sm)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## phone_applications_foreground_rapids_sumdurationsm ~ NegEventRating_1_pm *
      NegEventHow_pm + day_in_study + (1 | pid)
##
##
     Data: data
## REML criterion at convergence: 39716.6
##
## Scaled residuals:
              1Q Median
      Min
                             3Q
                                   Max
## -1.7346 -0.5589 -0.2336 0.2034 6.7878
##
## Random effects:
## Groups
           Name
                      Variance Std.Dev.
## pid
            (Intercept) 11.56
                               3.400
                               8.456
## Residual
                       71.50
## Number of obs: 5576, groups: pid, 18
##
```

```
##
                                         Estimate Std. Error
                                                                      df t value
## (Intercept)
                                          6.21429
                                                     0.86983
                                                               20.89850
                                                                           7.144
## NegEventRating_1_pm
                                         -0.15824
                                                     0.02358 5386.96875
                                                                         -6.711
## NegEventHow_pm1
                                         -0.69999
                                                     0.67830 5554.64040
                                                                         -1.032
## NegEventHow pm2
                                         -0.38352
                                                     1.19708 5293.95683
                                                                         -0.320
## NegEventHow pm3
                                         -7.87634
                                                     1.50585 5336.02513
                                                                         -5.231
## NegEventHow_pm4
                                          4.90026
                                                     2.13228 5563.99518
                                                                           2.298
## day_in_study
                                         -0.04282
                                                     0.01415 5558.71219
                                                                         -3.026
## NegEventRating_1_pm:NegEventHow_pm1
                                          0.16254
                                                     0.02577 5358.06555
                                                                           6.307
## NegEventRating_1_pm:NegEventHow_pm2
                                          0.16985
                                                     0.03270 5011.13411
                                                                           5.193
## NegEventRating_1_pm:NegEventHow_pm3
                                          0.25661
                                                     0.04752 5368.75322
                                                                           5.400
## NegEventRating_1_pm:NegEventHow_pm4
                                          0.11169
                                                     0.04254 5512.96328
                                                                           2,626
##
                                       Pr(>|t|)
## (Intercept)
                                       4.94e-07 ***
## NegEventRating_1_pm
                                       2.13e-11 ***
                                        0.30212
## NegEventHow_pm1
## NegEventHow pm2
                                        0.74869
                                       1.76e-07 ***
## NegEventHow_pm3
## NegEventHow_pm4
                                        0.02159 *
## day_in_study
                                        0.00249 **
## NegEventRating_1_pm:NegEventHow_pm1 3.06e-10 ***
## NegEventRating_1_pm:NegEventHow_pm2 2.15e-07 ***
## NegEventRating_1_pm:NegEventHow_pm3 6.95e-08 ***
## NegEventRating_1_pm:NegEventHow_pm4 0.00868 **
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
##
                (Intr) NgER_1_ NgEH_1 NgEH_2 NgEH_3 NgEH_4 dy_n_s NER_1_:NEH_1
## NgEvntRt_1_
                -0.025
## NgEvntHw_p1
               -0.097
                       0.042
## NgEvntHw_p2
               -0.039 0.182
                                0.066
## NgEvntHw_p3
               -0.049 0.195
                                0.109
                                      0.185
               -0.021 0.008
## NgEvntHw p4
                                0.042 0.030 0.025
## day_in_stdy -0.280 -0.063
                                0.101 0.035 -0.030 0.078
## NER 1 :NEH 1 0.023 -0.922 -0.372 -0.190 -0.200 -0.023
## NER_1_:NEH_2 0.004 -0.806
                              -0.041 -0.677 -0.221 -0.019
                                                            0.076
                                                                    0.758
## NER_1_:NEH_3 0.007 -0.596
                              -0.027 -0.175 -0.804 0.000
                                                            0.099
## NER_1_:NEH_4 -0.001 -0.552 -0.022 -0.126 -0.106 -0.782 -0.003
                NER_1_:NEH_2 NER_1_:NEH_3
## NgEvntRt_1_
## NgEvntHw_p1
## NgEvntHw_p2
## NgEvntHw_p3
## NgEvntHw_p4
## day_in_stdy
## NER_1_:NEH_1
## NER_1_:NEH_2
## NER_1_:NEH_3
                0.515
                              0.327
## NER_1_:NEH_4 0.469
### collapsed across day
NA_sm_test <- lmer(sum_sm ~ NegEvent*NegEventWhere + NA_average + day_in_study + (1 | pid), data = day)
```

Fixed effects:

```
summary(NA_sm_test) # between person effect
```

##

##

Data: data

REML criterion at convergence: 24735.6

```
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ NegEvent * NegEventWhere + NA_average + day_in_study +
##
       (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 3115.4
##
## Scaled residuals:
      Min
##
               1Q Median
                               3Q
                                      Max
## -2.8650 -0.4788 -0.0906 0.3765 6.7489
##
## Random effects:
## Groups Name
                        Variance Std.Dev.
## pid
            (Intercept) 4176
                                 64.63
## Residual
                        4825
                                 69.46
## Number of obs: 273, groups: pid, 18
##
## Fixed effects:
##
                         Estimate Std. Error
                                                   df t value Pr(>|t|)
## (Intercept)
                        135.5963 30.8169 29.3864 4.400 0.000131 ***
## NegEvent
                         -0.9419
                                     0.4368 261.3687 -2.157 0.031943 *
## NegEventWhere
                        -10.6910
                                   11.1312 266.8892 -0.960 0.337693
## NA_average
                          -0.2426
                                     0.6802 18.3991 -0.357 0.725395
## day_in_study
                          -0.7526
                                      0.5065 258.4470 -1.486 0.138561
## NegEvent:NegEventWhere 0.4659
                                      0.2326 265.0334 2.003 0.046156 *
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) NgEvnt NgEvnW NA_vrg dy_n_s
##
## NegEvent
              -0.255
## NegEventWhr -0.467 0.565
## NA_average -0.641 -0.065
                             0.020
## day_in_stdy -0.318  0.003  0.089  0.003
## NgEvnt:NgEW 0.362 -0.884 -0.809 -0.033 -0.003
## Negitive Event * Where event occurred & SM checks
NA_sm_count <- lmer(phone_applications_foreground_rapids_countsm ~ NegEventRating_1_pm*NegEventHow_pm +
summary(NA sm count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: phone_applications_foreground_rapids_countsm ~ NegEventRating_1_pm *
##
      NegEventHow_pm + day_in_study + (1 | pid)
```

```
##
## Scaled residuals:
      Min
                1Q Median
  -3.6368 -0.6121 -0.1734 0.3575
                                   8.8852
##
## Random effects:
                         Variance Std.Dev.
   Groups
            Name
             (Intercept) 93.84
   pid
                                   9.687
   Residual
                         139.59
                                  11.815
## Number of obs: 3171, groups: pid, 18
## Fixed effects:
                                         Estimate Std. Error
                                                                     df t value
                                                                          6.433
## (Intercept)
                                         15.34821
                                                     2.38579
                                                               17.96510
                                         -0.57444
                                                     0.50634 3145.49520
## NegEventRating_1_pm
                                                                         -1.135
## NegEventHow_pm1
                                          0.07310
                                                     1.21519 3155.41662
                                                                          0.060
## NegEventHow_pm2
                                          3.30462
                                                     2.26867 3155.81873
                                                                          1.457
## NegEventHow pm3
                                          0.68453
                                                     3.11806 3077.89691
                                                                          0.220
## NegEventHow_pm4
                                         -6.91691
                                                     4.08455 3152.99391
                                                                         -1.693
## day in study
                                         -0.09946
                                                     0.02633 3155.10372
                                                                         -3.778
## NegEventRating_1_pm:NegEventHow_pm1
                                          0.58099
                                                     0.50713 3145.58001
                                                                          1.146
## NegEventRating_1_pm:NegEventHow_pm2
                                                     0.50710 3145.69114
                                          0.54149
                                                                          1.068
## NegEventRating_1_pm:NegEventHow_pm3
                                          0.55646
                                                     0.51150 3146.93346
                                                                          1.088
## NegEventRating_1_pm:NegEventHow_pm4
                                                     0.51229 3146.29350
                                          0.71744
                                                                          1.400
##
                                       Pr(>|t|)
## (Intercept)
                                       4.74e-06 ***
                                       0.256669
## NegEventRating_1_pm
## NegEventHow_pm1
                                       0.952037
## NegEventHow_pm2
                                       0.145318
## NegEventHow_pm3
                                       0.826246
## NegEventHow_pm4
                                       0.090472
## day_in_study
                                       0.000161 ***
## NegEventRating_1_pm:NegEventHow_pm1 0.252027
## NegEventRating_1_pm:NegEventHow_pm2 0.285689
## NegEventRating_1_pm:NegEventHow_pm3 0.276721
## NegEventRating_1_pm:NegEventHow_pm4 0.161477
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
                (Intr) NgER_1 NgEH_1 NgEH_2 NgEH_3 NgEH_4 dy_n_s NER_1:NEH_1
## NgEvntRt 1
                -0.045
## NgEvntHw_p1
               -0.078
                       0.054
## NgEvntHw_p2 -0.014 0.019
                                0.048
## NgEvntHw_p3 -0.056 0.011
                                0.128 0.060
## NgEvntHw_p4 -0.007 0.025
                                0.030 0.022 0.017
## day_in_stdy -0.192 0.168
                                0.157 0.007 0.013 0.075
## NER_1_:NEH_1 0.045 -0.999
                               -0.084 -0.021 -0.014 -0.026 -0.173
## NER_1_:NEH_2 0.043 -0.997
                               -0.053 -0.086 -0.014 -0.026 -0.162
## NER_1_:NEH_3 0.047 -0.989
                               -0.057 -0.024 -0.140 -0.025 -0.161
## NER_1_:NEH_4 0.041 -0.990 -0.050 -0.022 -0.008 -0.156 -0.173
                NER_1_:NEH_2 NER_1_:NEH_3
## NgEvntRt_1_
## NgEvntHw p1
```

```
## NgEvntHw p2
## NgEvntHw_p3
## NgEvntHw p4
## day_in_stdy
## NER_1_:NEH_1
## NER 1 :NEH 2
## NER 1 :NEH 3 0.987
## NER_1_:NEH_4 0.988
                            0.979
### collapsed across day
NA_sm_count_test <- lmer(count_sm ~ NegEvent*NegEventWhere + NA_average + day_in_study + (1 | pid), dat
summary(NA_sm_count_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ NegEvent * NegEventWhere + NA_average + day_in_study +
      (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 3134.3
##
## Scaled residuals:
##
      Min
              1Q Median
                              3Q
## -2.4367 -0.6117 -0.0822 0.4077 4.3527
##
## Random effects:
## Groups Name
                       Variance Std.Dev.
            (Intercept) 20865
## pid
## Residual
                                 68.78
                        4731
## Number of obs: 273, groups: pid, 18
##
## Fixed effects:
                                                 df t value Pr(>|t|)
                        Estimate Std. Error
##
                       231.43557 57.56891 17.64769 4.020 0.000831 ***
## (Intercept)
## NegEvent
                         0.063 0.949534
## NegEventWhere
                        5.80807 11.26464 255.93081
                                                      0.516 0.606578
## NA_average
                         -2.26766
                                  1.39774 15.34869 -1.622 0.125078
## day_in_study
                         -0.96239
                                    0.50479 251.68695 -1.907 0.057720 .
## NegEvent:NegEventWhere 0.01627
                                    ## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
              (Intr) NgEvnt NgEvnW NA_vrg dy_n_s
##
             -0.141
## NegEvent
## NegEventWhr -0.254 0.570
## NA_average -0.741 -0.028 0.011
## day_in_stdy -0.168  0.004  0.092  0.000
## NgEvnt:NgEW 0.199 -0.886 -0.813 -0.018 -0.005
```

```
## Negitive Event * Who event was with & minutes of SM
NA_sm_int <- lmer(phone_applications_foreground_rapids_sumdurationsm ~ NegEventRating_1_pm*NegEventWho_
summary(NA_sm_int)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## phone_applications_foreground_rapids_sumdurationsm ~ NegEventRating_1_pm *
       NegEventWho_pm + day_in_study + (1 | pid)
##
##
      Data: data
##
## REML criterion at convergence: 39767.5
##
## Scaled residuals:
      Min
               10 Median
                                       Max
## -1.3200 -0.5526 -0.2450 0.1932 6.7666
## Random effects:
## Groups
            Name
                         Variance Std.Dev.
                                  3.19
## pid
             (Intercept) 10.17
## Residual
                         72.25
                                  8.50
## Number of obs: 5576, groups: pid, 18
## Fixed effects:
##
                                        Estimate Std. Error
                                                                     df t value
## (Intercept)
                                         6.25449 0.82600
                                                              21.63048
                                                                        7.572
## NegEventRating_1_pm
                                                    0.01165 5461.49378 -3.563
                                        -0.04151
## NegEventWho_pm1
                                        -2.67252
                                                     0.84182 5004.19321 -3.175
## NegEventWho_pm13
                                        10.11484
                                                    3.77913 5276.02416
                                                                         2.676
## NegEventWho_pm2
                                        -0.17908
                                                     0.76235 5563.70367 -0.235
## NegEventWho_pm3
                                         7.25906
                                                     2.05794 5565.06660
                                                                         3.527
## day_in_study
                                         -0.05785
                                                    0.01425 5546.08945
                                                                        -4.059
## NegEventRating_1_pm:NegEventWho_pm1
                                         0.08205
                                                    0.01948 5383.28368
                                                                         4.212
## NegEventRating_1_pm:NegEventWho_pm2
                                          0.04164
                                                     0.01584 5551.64170
                                                                          2.629
## NegEventRating_1_pm:NegEventWho_pm3
                                                     0.03719 5565.88722 -1.834
                                        -0.06822
##
                                      Pr(>|t|)
## (Intercept)
                                      1.62e-07 ***
## NegEventRating_1_pm
                                      0.000369 ***
## NegEventWho_pm1
                                      0.001509 **
## NegEventWho_pm13
                                      0.007463 **
## NegEventWho_pm2
                                      0.814293
## NegEventWho_pm3
                                      0.000423 ***
## day in study
                                       4.99e-05 ***
## NegEventRating_1_pm:NegEventWho_pm1 2.57e-05 ***
## NegEventRating_1_pm:NegEventWho_pm2 0.008586 **
## NegEventRating_1_pm:NegEventWho_pm3 0.066638 .
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
                (Intr) NgER_1_ NgEW_1 NEW_13 NgEW_2 NgEW_3 dy_n_s NER_1_:NEW_1
```

```
## NgEvntRt_1_ -0.067
## NgEvntWh_p1 -0.094 0.109
## NgEvntWh 13 -0.034 -0.222
                             -0.017
## NgEvntWh_p2 -0.092 0.025
                              0.095 0.013
## NgEvntWh_p3 -0.003 0.009
                              0.065 -0.004 0.016
## day in stdy -0.303 0.018
                             0.105 0.033 0.093 -0.008
## NER 1 :NEW 1 0.036 -0.623 -0.739 0.144 -0.029 -0.038 0.014
## NER_1_:NEW_2 0.050 -0.715 -0.132 0.169 -0.632 -0.026 -0.059
                                                                0.485
## NER_1_:NEW_3 -0.011 -0.303 -0.022 0.074 0.017 -0.890 0.030 0.194
##
               NER_1_:NEW_2
## NgEvntRt_1_
## NgEvntWh_p1
## NgEvntWh_13
## NgEvntWh_p2
## NgEvntWh_p3
## day_in_stdy
## NER_1_:NEW_1
## NER_1_:NEW_2
## NER_1_:NEW_3
                0.229
## fit warnings:
## fixed-effect model matrix is rank deficient so dropping 1 column / coefficient
### collapsed across day, within person only
NA_sm_int_test <- lmer(sum_sm ~ NegEvent*NegEventWho + NA_average + day_in_study + (1 | pid), data = da
summary(NA_sm_int_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ NegEvent * NegEventWho + NA_average + day_in_study +
      (1 | pid)
##
     Data: day
## REML criterion at convergence: 3122.2
##
## Scaled residuals:
      Min
              1Q Median
                               30
                                     Max
## -2.7695 -0.4992 -0.1074 0.3489 6.7960
##
## Random effects:
                        Variance Std.Dev.
## Groups
            Name
## pid
            (Intercept) 4426
                                 66.53
                        4896
## Residual
                                 69.97
## Number of obs: 273, groups: pid, 18
## Fixed effects:
##
                                                  df t value Pr(>|t|)
                        Estimate Std. Error
## (Intercept)
                                  29.27848 21.79692 4.157 0.000418 ***
                       121.70057
                                   0.37132 259.14996 -0.661 0.509421
## NegEvent
                        -0.24532
## NegEventWho
                         1.91054
                                   6.34671 256.65091
                                                       0.301 0.763637
## NA_average
                        -0.21105
                                   0.69755 17.79828 -0.303 0.765734
## day_in_study
                        -0.85446
                                   0.50917 257.90604 -1.678 0.094527
                                   ## NegEvent:NegEventWho 0.03297
```

```
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
##
               (Intr) NgEvnt NgEvnW NA_vrg dy_n_s
## NegEvent
              -0.139
## NegEventWho -0.300 0.329
## NA_average -0.678 -0.098 -0.024
## day_in_stdy -0.323 0.148 0.101 0.004
## NgEvnt:NgEW 0.249 -0.784 -0.762 0.000 -0.131
## Negitive Event * Who event was with & SM checks
NA_sm_count_int <- lmer(phone_applications_foreground_rapids_countsm ~ NegEventRating_1_pm*NegEventWho_
summary(NA_sm_count_int)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: phone_applications_foreground_rapids_countsm ~ NegEventRating_1_pm *
       NegEventWho_pm + day_in_study + (1 | pid)
##
      Data: data
##
##
## REML criterion at convergence: 24735.1
## Scaled residuals:
##
      Min
               1Q Median
                                3Q
                                       Max
## -3.6314 -0.6116 -0.1736 0.3607 8.9022
##
## Random effects:
                        Variance Std.Dev.
## Groups
            Name
                         95.06
                                   9.75
##
   pid
             (Intercept)
## Residual
                         139.47
                                  11.81
## Number of obs: 3171, groups: pid, 18
##
## Fixed effects:
##
                                         Estimate Std. Error
                                                                     df t value
## (Intercept)
                                         15.10938
                                                     2.39789 17.85913
                                                                         6.301
## NegEventRating_1_pm
                                         -0.01575
                                                     0.02843 3157.93404 -0.554
## NegEventWho_pm1
                                         2.10447
                                                    1.52938 3127.04876
                                                                         1.376
## NegEventWho_pm13
                                        -0.48312
                                                    5.72953 3154.70988 -0.084
## NegEventWho_pm2
                                        -1.35980
                                                     1.35711 3151.02057 -1.002
## NegEventWho_pm3
                                         -1.54536
                                                     3.87445 3148.43620
                                                                         -0.399
## day_in_study
                                         -0.08250
                                                     0.02618 3158.57999 -3.152
## NegEventRating_1_pm:NegEventWho_pm1
                                          0.01462
                                                     0.03869 3160.17748
                                                                          0.378
## NegEventRating_1_pm:NegEventWho_pm2
                                          0.03622
                                                     0.03442 3154.00338
                                                                          1.052
## NegEventRating_1_pm:NegEventWho_pm3
                                          0.07130
                                                     0.07222 3149.93273
                                                                          0.987
##
                                       Pr(>|t|)
## (Intercept)
                                       6.35e-06 ***
## NegEventRating_1_pm
                                       0.57981
## NegEventWho_pm1
                                        0.16891
## NegEventWho_pm13
                                       0.93281
## NegEventWho pm2
                                       0.31643
## NegEventWho_pm3
                                       0.69003
```

```
## day_in_study
                                       0.00164 **
## NegEventRating_1_pm:NegEventWho_pm1
                                       0.70553
## NegEventRating_1_pm:NegEventWho_pm2
## NegEventRating_1_pm:NegEventWho_pm3  0.32358
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
               (Intr) NgER_1_ NgEW_1 NEW_13 NgEW_2 NgEW_3 dy_n_s NER_1:NEW_1
## NgEvntRt_1_ -0.038
## NgEvntWh_p1 -0.069 0.019
## NgEvntWh_13 -0.023 -0.365
                               0.002
## NgEvntWh_p2 -0.062 0.019
                               0.093 0.031
                               0.074 -0.003 0.010
## NgEvntWh_p3 -0.005 0.004
## day_in_stdy -0.192 0.076
                              0.141 0.015 0.123 0.001
## NER_1_:NEW_1 0.032 -0.718 -0.612 0.269 -0.024 -0.035 -0.061
## NER_1_:NEW_2 0.038 -0.823
                             -0.065 0.303 -0.513 -0.015 -0.127
                                                                 0.623
## NER_1_:NEW_3 -0.002 -0.390
                               0.003 0.149 0.016 -0.862 0.002 0.282
               NER_1_:NEW_2
## NgEvntRt 1
## NgEvntWh_p1
## NgEvntWh_13
## NgEvntWh_p2
## NgEvntWh_p3
## day_in_stdy
## NER_1_: NEW_1
## NER_1_: NEW_2
## NER_1_:NEW_3 0.325
## fit warnings:
## fixed-effect model matrix is rank deficient so dropping 1 column / coefficient
### collapsed across day, wihtin person only
NA_sm_count_int_test <- lmer(count_sm ~ NegEvent*NegEventWho + NA_average + day_in_study + (1 | pid), d
summary(NA_sm_count_int_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ NegEvent * NegEventWho + NA_average + day_in_study +
##
       (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 3135.9
##
## Scaled residuals:
               1Q Median
                               3Q
## -2.4835 -0.5794 -0.0796 0.3970 4.3179
##
## Random effects:
## Groups
                        Variance Std.Dev.
            Name
## pid
            (Intercept) 20385
                                 142.78
## Residual
                         4724
                                  68.73
```

Number of obs: 273, groups: pid, 18

```
##
## Fixed effects:
                       Estimate Std. Error
##
                                                  df t value Pr(>|t|)
## (Intercept)
                       246.63882 55.75002 16.28911 4.424 0.000409 ***
                        0.33781
## NegEvent
                                   0.36746 252.24078
                                                      0.919 0.358803
## NegEventWho
                       -5.79060 6.26519 251.46826 -0.924 0.356242
## NA average
                        -2.22561 1.38219 15.38065 -1.610 0.127679
## day_in_study
                        -1.04091
                                   0.50314 251.74453 -2.069 0.039584 *
## NegEvent:NegEventWho
                        0.01097
                                   0.11679 252.07394
                                                       0.094 0.925211
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Correlation of Fixed Effects:
##
              (Intr) NgEvnt NgEvnW NA_vrg dy_n_s
## NegEvent
              -0.071
## NegEventWho -0.155 0.328
## NA_average -0.752 -0.050 -0.012
## day_in_stdy -0.165 0.152 0.099 0.001
## NgEvnt:NgEW 0.128 -0.786 -0.760 0.002 -0.134
####################################Negative Affect During SM Use##################################
## Negitive affect & minutes of SM
NA_on_SM <- lmer(phone_applications_foreground_rapids_sumdurationsm ~ SMNeg_1_pm + day_in_study + (1 | :
summary(NA_on_SM)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: phone_applications_foreground_rapids_sumdurationsm ~ SMNeg_1_pm +
##
      day_in_study + (1 | pid)
     Data: data
##
##
## REML criterion at convergence: 42732.6
##
## Scaled residuals:
##
      Min
            1Q Median
                               3Q
                                      Max
## -1.3687 -0.5419 -0.2535 0.1746 6.7382
##
## Random effects:
## Groups
            Name
                        Variance Std.Dev.
            (Intercept) 9.124
## pid
                                 3.021
                        73.491
                                 8.573
## Residual
## Number of obs: 5979, groups: pid, 18
##
## Fixed effects:
                 Estimate Std. Error
                                             df t value Pr(>|t|)
## (Intercept)
                5.942e+00 7.680e-01 2.006e+01
                                                 7.737 1.91e-07 ***
                5.543e-03 7.308e-03 5.643e+03
## SMNeg_1_pm
                                                 0.758 0.448214
## day_in_study -5.135e-02 1.382e-02 5.913e+03 -3.717 0.000204 ***
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

```
##
## Correlation of Fixed Effects:
               (Intr) SMN 1
## SMNeg_1_pm -0.173
## day_in_stdy -0.287 0.186
### collapsed across day, wihtin person only
NA_on_SM_test <- lmer(sum_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 | pid), data = day)
summary(NA_on_SM_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 | pid)
      Data: day
##
## REML criterion at convergence: 3354.2
##
## Scaled residuals:
##
      \mathtt{Min}
           1Q Median
                                3Q
                                       Max
## -2.8056 -0.4714 -0.1259 0.3859 7.0294
##
## Random effects:
## Groups
            Name
                        Variance Std.Dev.
## pid
             (Intercept) 4342
                                  65.89
                        4731
                                  68.78
## Residual
## Number of obs: 294, groups: pid, 18
##
## Fixed effects:
                 Estimate Std. Error
                                           df t value Pr(>|t|)
                             25.4241 18.2073
                                              4.711 0.000169 ***
## (Intercept)
                 119.7818
## SM_Neg
                  0.2189
                             0.2665 273.5237
                                                0.821 0.412092
                             1.4099 15.7415 -0.268 0.792256
## NA_sm_average -0.3777
## day_in_study
                 -0.8991
                             0.4926 281.7229 -1.825 0.069002 .
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
               (Intr) SM_Neg NA_sm_
## SM_Neg
              -0.042
## NA_sm_averg -0.686 -0.194
## day_in_stdy -0.263 0.160 -0.059
## Negitive affect & SM checks
NA_on_SM_count <- lmer(phone_applications_foreground_rapids_countsm ~ SMNeg_1_pm + day_in_study + (1 |
summary(NA_on_SM_count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
```

Formula:

```
## phone_applications_foreground_rapids_countsm ~ SMNeg_1_pm + day_in_study +
       (1 | pid)
##
     Data: data
##
##
## REML criterion at convergence: 26428.6
##
## Scaled residuals:
##
      Min
              1Q Median
                               3Q
                                      Max
## -3.1775 -0.6042 -0.1842 0.3537 9.0808
##
## Random effects:
                        Variance Std.Dev.
## Groups
            Name
## pid
             (Intercept) 63.22
                                 7.951
## Residual
                        136.89
                                11.700
## Number of obs: 3397, groups: pid, 18
##
## Fixed effects:
##
                 Estimate Std. Error
                                             df t value Pr(>|t|)
                 13.80326
                             1.96344
                                       18.59800
                                                 7.030 1.22e-06 ***
## (Intercept)
## SMNeg_1_pm
                 0.01849
                             0.01373 3387.28700
                                                  1.347 0.17798
                             0.02516 3393.95724 -2.735 0.00626 **
## day_in_study -0.06882
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
              (Intr) SMN_1_
## SMNeg_1_pm -0.131
## day_in_stdy -0.210 0.222
### collapsed across day, wihtin person only
NA_on_SM_count_test <- lmer(count_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 | pid), data = day)
summary(NA_on_SM_count_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 | pid)
      Data: day
##
## REML criterion at convergence: 3375.2
##
## Scaled residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -2.5359 -0.6346 -0.1120 0.4154 4.4260
##
## Random effects:
                        Variance Std.Dev.
## Groups
            Name
             (Intercept) 19013
                                 137.89
## pid
## Residual
                         4712
                                  68.64
## Number of obs: 294, groups: pid, 18
##
## Fixed effects:
                                          df t value Pr(>|t|)
##
                Estimate Std. Error
```

```
0.2660 273.2928
                                          1.777 0.07663 .
## SM_Neg
                 0.4727
## NA sm average -2.7512
                           2.7926 15.4622 -0.985 0.33971
                           0.4947 275.5329 -1.572 0.11712
## day_in_study
               -0.7776
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
             (Intr) SM_Neg NA_sm_
## SM_Neg
             -0.022
## NA_sm_averg -0.718 -0.098
## day_in_stdy -0.136  0.161 -0.030
Positive Affect
## Positive Event Rating * Where event occurred & minutes of SM
PA_sm <- lmer(phone_applications_foreground_rapids_sumdurationsm ~ PosEventRating_1_pm*PosEventHow_pm +
summary(PA sm)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## phone_applications_foreground_rapids_sumdurationsm ~ PosEventRating_1_pm *
      PosEventHow pm + day in study + (1 | pid)
##
     Data: data
##
## REML criterion at convergence: 58965
##
## Scaled residuals:
             1Q Median
                             3Q
      Min
                                    Max
## -1.8355 -0.4389 -0.2109 0.1156 5.6013
##
## Random effects:
                       Variance Std.Dev.
## Groups
           Name
                               4.16
## pid
            (Intercept) 17.31
                       102.77
## Residual
                               10.14
## Number of obs: 7880, groups: pid, 19
## Fixed effects:
##
                                     Estimate Std. Error
                                                               df t value
                                     5.625e+00 1.066e+00 2.589e+01
## (Intercept)
                                                                    5.277
## PosEventRating_1_pm
                                    1.755e-02 2.431e-02 7.867e+03
                                                                    0.722
## PosEventHow pm1
                                    1.564e+00 8.765e-01 7.869e+03
                                                                  1.785
## PosEventHow_pm2
                                    5.391e-04 1.273e+00 7.866e+03 0.000
                                    5.631e+00 1.890e+00 7.856e+03
## PosEventHow_pm3
                                                                   2.980
## PosEventHow_pm4
                                    -6.574e+00 3.087e+00 5.962e+03 -2.130
## day_in_study
                                    -1.788e-02 1.410e-02 7.863e+03 -1.268
## PosEventRating_1_pm:PosEventHow_pm1 -4.167e-02 2.621e-02 7.868e+03 -1.590
```

48.8954 16.1892

3.927 0.00118 **

(Intercept)

192.0153

PosEventRating_1_pm:PosEventHow_pm2 -1.087e-02 3.031e-02 7.856e+03 -0.359

```
## PosEventRating_1_pm:PosEventHow_pm3 -8.839e-02 3.367e-02 7.862e+03 -2.625
## PosEventRating_1_pm:PosEventHow_pm4 1.028e-01 4.676e-02 5.942e+03
                                                                         2.198
                                      Pr(>|t|)
##
                                      1.64e-05 ***
## (Intercept)
## PosEventRating_1_pm
                                       0.47049
## PosEventHow pm1
                                       0.07435 .
## PosEventHow pm2
                                       0.99966
## PosEventHow pm3
                                       0.00289 **
## PosEventHow_pm4
                                       0.03324 *
## day_in_study
                                       0.20474
## PosEventRating_1_pm:PosEventHow_pm1 0.11191
## PosEventRating_1_pm:PosEventHow_pm2
                                       0.71996
## PosEventRating_1_pm:PosEventHow_pm3  0.00868 **
## PosEventRating_1_pm:PosEventHow_pm4
                                      0.02802 *
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
                (Intr) PsER_1_ PsEH_1 PsEH_2 PsEH_3 PsEH_4 dy_n_s PER_1_:PEH_1
##
               -0.058
## PsEvntRt 1
## PsEvntHw_p1 -0.115 0.042
## PsEvntHw p2 -0.067 0.036
                               0.118
## PsEvntHw_p3 -0.039 0.022
                               0.122 0.080
## PsEvntHw_p4 -0.018 0.023
                               0.044 0.019 0.072
## day in stdy -0.265 -0.027
                               0.117 0.022 -0.011 0.027
## PER 1 :PEH 1 0.034 -0.913 -0.404 -0.044 -0.050 -0.021 0.023
## PER_1_:PEH_2 0.024 -0.799
                              -0.053 -0.566 -0.035 -0.009 0.031
                                                                  0.740
## PER_1_:PEH_3 0.007 -0.716 -0.072 -0.050 -0.686 -0.051 0.072 0.681
## PER_1_:PEH_4 -0.002 -0.523 -0.030 -0.015 -0.059 -0.838 0.013 0.482
##
               PER_1_:PEH_2 PER_1_:PEH_3
## PsEvntRt_1_
## PsEvntHw_p1
## PsEvntHw_p2
## PsEvntHw_p3
## PsEvntHw p4
## day_in_stdy
## PER 1 : PEH 1
## PER_1_:PEH_2
## PER_1_:PEH_3 0.590
## PER_1_:PEH_4 0.416
                             0.413
### collapsed across day
PA_sm_test <- lmer(sum_sm ~ PosEvent*PosEventWhere + PA_average + day_in_study + (1 | pid), data = day)
summary(PA_sm_test) # between person effect
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ PosEvent * PosEventWhere + PA_average + day_in_study +
##
       (1 | pid)
##
      Data: day
## REML criterion at convergence: 5386.8
##
```

```
## Scaled residuals:
           1Q Median
                               30
      Min
                                      Max
## -3.2226 -0.3747 -0.0801 0.2777 4.1556
##
## Random effects:
## Groups
                        Variance Std.Dev.
           Name
                                 76.61
## pid
            (Intercept) 5869
                                 97.73
## Residual
                        9551
## Number of obs: 449, groups: pid, 19
##
## Fixed effects:
##
                            Estimate Std. Error
                                                       df t value Pr(>|t|)
## (Intercept)
                          121.055940 45.793246 24.467478
                                                            2.644
                                                                    0.0141 *
                                      0.380699 436.916486 -0.487
## PosEvent
                           -0.185568
                                                                    0.6262
## PosEventWhere2
                           11.853166 25.106235 424.645036
                                                           0.472
                                                                    0.6371
## PosEventWhere3
                           -6.456011
                                      38.026756 423.793135 -0.170
                                                                    0.8653
## PosEventWhere4
                           58.510117 49.039384 432.308587
                                                            1.193
                                                                    0.2335
## PosEventWhere5
                          -28.783982 71.569187 436.258900
                                                           -0.402
                                                                    0.6877
## PA_average
                           -0.005109
                                      0.036627 18.274774 -0.139
                                                                    0.8906
## day in study
                           -0.304728
                                      0.557186 427.349979 -0.547
                                                                    0.5847
## PosEvent:PosEventWhere2 -0.275763 0.589392 427.637617 -0.468
                                                                    0.6401
## PosEvent:PosEventWhere3 0.360848 1.011894 430.329731
                                                           0.357
                                                                    0.7216
## PosEvent:PosEventWhere4 -1.156640 1.131692 432.604973 -1.022
                                                                    0.3073
## PosEvent:PosEventWhere5 1.715284
                                     1.694736 429.747453
                                                           1.012
                                                                    0.3120
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) PsEvnt PsEvW2 PsEvW3 PsEvW4 PsEvW5 PA_vrg dy_n_s PE:PEW2
##
## PosEvent
              -0.360
## PosEvntWhr2 -0.196 0.320
## PosEvntWhr3 -0.106 0.225 0.228
## PosEvntWhr4 -0.129 0.187 0.207 0.143
## PosEvntWhr5 -0.109 0.126 0.122 0.075 0.139
## PA_average -0.816 0.089 -0.019 -0.034 0.021
## day_in_stdy -0.235  0.158  0.184  0.058  0.039  0.042 -0.031
## PsEvnt:PEW2 0.221 -0.538 -0.824 -0.144 -0.150 -0.070 -0.088 -0.122
## PsEvnt:PEW3 0.074 -0.313 -0.132 -0.799 -0.074 -0.016 0.005 -0.034 0.190
## PsEvnt:PEW4 0.146 -0.297 -0.129 -0.087 -0.904 -0.094 -0.105 0.014 0.219
## PsEvnt:PEW5 0.099 -0.179 -0.077 -0.044 -0.104 -0.905 -0.047 -0.023 0.106
##
              PE:PEW3 PE:PEW4
## PosEvent
## PosEvntWhr2
## PosEvntWhr3
## PosEvntWhr4
## PosEvntWhr5
## PA_average
## day_in_stdy
## PsEvnt:PEW2
## PsEvnt:PEW3
## PsEvnt:PEW4 0.112
## PsEvnt:PEW5 0.044
                       0.129
```

```
## Positive Event * Where event occurred & SM checks
PA sm count <- lmer(phone applications foreground rapids countsm ~ PosEventRating 1 pm*PosEventHow pm +
summary(PA_sm_count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: phone_applications_foreground_rapids_countsm ~ PosEventRating_1_pm *
      PosEventHow_pm + day_in_study + (1 | pid)
##
      Data: data
##
## REML criterion at convergence: 32323.2
##
## Scaled residuals:
##
      Min
                1Q Median
                                3Q
                                       Max
## -2.9066 -0.5615 -0.1771 0.3095
                                   9.1078
##
## Random effects:
## Groups
            Name
                         Variance Std.Dev.
                                   6.99
## pid
             (Intercept)
                         48.86
## Residual
                         137.81
                                  11.74
## Number of obs: 4152, groups: pid, 19
##
## Fixed effects:
##
                                         Estimate Std. Error
                                                                     df t value
## (Intercept)
                                         12.73565
                                                     1.76730
                                                               23.88979
                                                                          7.206
## PosEventRating 1 pm
                                         -0.02414
                                                     0.03314 4131.24494 -0.728
## PosEventHow_pm1
                                                     1.32703 4136.97442 -0.879
                                         -1.16674
## PosEventHow pm2
                                         -0.23269
                                                     1.82990 4137.41397
                                                                         -0.127
## PosEventHow_pm3
                                         4.48210
                                                     3.05384 4140.91746
                                                                         1.468
## PosEventHow_pm4
                                         -1.88910
                                                     4.93786 3626.00917 -0.383
## day_in_study
                                         -0.05106
                                                     0.02259 4140.99977 -2.260
## PosEventRating_1_pm:PosEventHow_pm1
                                          0.02832
                                                     0.03645 4133.35949
                                                                         0.777
## PosEventRating_1_pm:PosEventHow_pm2
                                          0.04643
                                                     0.04212 4140.25198
                                                                          1.102
## PosEventRating_1_pm:PosEventHow_pm3
                                         -0.02796
                                                     0.05081 4140.96779 -0.550
## PosEventRating_1_pm:PosEventHow_pm4
                                                     0.07553 3464.64768
                                          0.11531
                                                                         1.527
##
                                       Pr(>|t|)
                                       1.96e-07 ***
## (Intercept)
## PosEventRating_1_pm
                                         0.4665
## PosEventHow pm1
                                         0.3793
## PosEventHow_pm2
                                         0.8988
## PosEventHow_pm3
                                         0.1423
## PosEventHow_pm4
                                         0.7021
## day in study
                                         0.0239 *
## PosEventRating_1_pm:PosEventHow_pm1
                                         0.4372
## PosEventRating 1 pm:PosEventHow pm2
                                        0.2703
## PosEventRating_1_pm:PosEventHow_pm3
                                         0.5822
## PosEventRating_1_pm:PosEventHow_pm4
                                         0.1269
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
```

```
(Intr) PsER_1_ PsEH_1 PsEH_2 PsEH_3 PsEH_4 dy_n_s PER_1_:PEH_1
               -0.053
## PsEvntRt_1_
## PsEvntHw_p1 -0.100 0.039
## PsEvntHw_p2 -0.063 0.037
                               0.116
## PsEvntHw_p3 -0.026 0.019 0.107 0.082
## PsEvntHw_p4 -0.008 0.024 0.036 0.019 0.046
## day_in_stdy -0.255 -0.024 0.135 0.037 -0.009 0.024
## PER_1_: PEH_1 0.031 -0.892 -0.444 -0.046 -0.048 -0.020 0.013
## PER_1_:PEH_2 0.022 -0.783 -0.054 -0.584 -0.039 -0.012 0.023 0.712
## PER_1_:PEH_3 -0.001 -0.646 -0.061 -0.052 -0.747 -0.033 0.068 0.603
## PER_1_:PEH_4 -0.010 -0.444 -0.022 -0.015 -0.036 -0.873 0.008 0.397
               PER_1_:PEH_2 PER_1_:PEH_3
## PsEvntRt_1_
## PsEvntHw_p1
## PsEvntHw_p2
## PsEvntHw_p3
## PsEvntHw_p4
## day_in_stdy
## PER_1_:PEH_1
## PER_1_:PEH_2
## PER_1_:PEH_3 0.527
## PER_1_:PEH_4 0.347
                             0.307
### collapsed across day
PA_sm_count_test <- lmer(count_sm ~ PosEvent*PosEventWhere + PA_average + day_in_study + (1 | pid), dat
summary(PA_sm_count_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ PosEvent * PosEventWhere + PA_average + day_in_study +
##
       (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 5087.5
##
## Scaled residuals:
##
      Min
              1Q Median
                               3Q
                                      Max
## -3.9550 -0.5783 -0.0932 0.4157 4.8331
##
## Random effects:
## Groups
                        Variance Std.Dev.
## pid
             (Intercept) 12591
                                 112.21
                         4554
## Number of obs: 449, groups: pid, 19
## Fixed effects:
                                                      df t value Pr(>|t|)
                           Estimate Std. Error
## (Intercept)
                          247.41926
                                     60.23362 18.33375
                                                         4.108 0.000639 ***
## PosEvent
                            0.03207
                                      0.26711 427.24339
                                                         0.120 0.904484
## PosEventWhere2
                          -18.02555 17.37608 420.74813 -1.037 0.300156
## PosEventWhere3
                          -20.17938 26.30666 420.50793 -0.767 0.443463
                                      34.11178 423.38215 0.540 0.589551
## PosEventWhere4
                           18.41689
```

```
## PosEventWhere5
                          39.20800
                                    ## PA_average
                          -0.08662 0.05096 16.89365 -1.700 0.107515
## day in study
                          ## PosEvent:PosEventWhere2 -0.02508 0.40861 421.63538 -0.061 0.951095
                          0.86846
## PosEvent:PosEventWhere3
                                     0.70293 422.79958
                                                       1.235 0.217332
## PosEvent:PosEventWhere4 -0.53675 0.78725 423.31131 -0.682 0.495740
## PosEvent:PosEventWhere5 -0.45307 1.17680 422.59331 -0.385 0.700431
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
              (Intr) PsEvnt PsEvW2 PsEvW3 PsEvW4 PsEvW5 PA_vrg dy_n_s PE:PEW2
## PosEvent
             -0.192
## PosEvntWhr2 -0.102 0.313
## PosEvntWhr3 -0.056 0.223 0.228
## PosEvntWhr4 -0.068 0.181 0.208 0.145
## PosEvntWhr5 -0.058 0.118 0.122 0.075 0.147
## PA average -0.875 0.045 -0.010 -0.017 0.010 0.010
## day_in_stdy -0.124  0.162  0.182  0.058  0.033  0.037 -0.015
## PsEvnt:PEW2 0.117 -0.535 -0.823 -0.145 -0.149 -0.066 -0.043 -0.123
## PsEvnt:PEW3 0.038 -0.313 -0.132 -0.795 -0.073 -0.012 0.003 -0.038 0.192
## PsEvnt:PEW4 0.077 -0.291 -0.130 -0.089 -0.903 -0.097 -0.053 0.017 0.217
## PsEvnt:PEW5 0.053 -0.173 -0.077 -0.045 -0.111 -0.905 -0.024 -0.020 0.103
             PE:PEW3 PE:PEW4
## PosEvent
## PosEvntWhr2
## PosEvntWhr3
## PosEvntWhr4
## PosEvntWhr5
## PA_average
## day_in_stdy
## PsEvnt:PEW2
## PsEvnt:PEW3
## PsEvnt:PEW4 0.112
## PsEvnt:PEW5 0.041
## Positive Event * Who event was with & minutes of SM
PA_sm_int <- lmer(phone_applications_foreground_rapids_sumdurationsm ~ PosEventRating_1_pm*PosEventWho_
summary(PA_sm_int)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## phone_applications_foreground_rapids_sumdurationsm ~ PosEventRating_1_pm *
##
      PosEventWho_pm + day_in_study + (1 | pid)
##
     Data: data
## REML criterion at convergence: 58760.3
## Scaled residuals:
      Min
              1Q Median
## -1.8311 -0.4401 -0.1878 0.1200 5.6235
```

```
##
## Random effects:
## Groups
                        Variance Std.Dev.
             (Intercept) 16.61
                                  4.075
## pid
## Residual
                        102.52
                                 10.125
## Number of obs: 7856, groups: pid, 19
## Fixed effects:
##
                                          Estimate Std. Error
                                                                       df t value
## (Intercept)
                                          5.464e+00 1.051e+00 2.754e+01
                                                                            5.197
## PosEventRating_1_pm
                                        -8.559e-02 1.783e-02 7.837e+03
                                                                          -4.800
## PosEventWho_pm1
                                         5.766e-01 8.314e-01
                                                               7.832e+03
                                                                            0.694
## PosEventWho_pm12
                                         1.885e+01 5.799e+00 7.839e+03
                                                                            3.251
## PosEventWho_pm123
                                         2.688e+01 9.367e+00 7.834e+03
                                                                            2.870
## PosEventWho_pm13
                                         9.648e+00 4.812e+00 7.838e+03
                                                                            2.005
## PosEventWho_pm2
                                         1.330e+00 1.207e+00
                                                               7.840e+03
                                                                            1.101
## PosEventWho_pm3
                                        -1.297e+00 7.023e+00 7.828e+03
                                                                          -0.185
## day in study
                                          3.593e-03 1.430e-02 7.839e+03
                                                                            0.251
                                         7.685e-02 1.987e-02 7.839e+03
## PosEventRating_1_pm:PosEventWho_pm1
                                                                           3.868
## PosEventRating_1_pm:PosEventWho_pm12 -1.204e-01 6.843e-02 7.840e+03
                                                                          -1.759
## PosEventRating_1_pm:PosEventWho_pm123 -2.624e-01 1.028e-01 7.834e+03 -2.552
## PosEventRating_1_pm:PosEventWho_pm13
                                        -2.713e-02 5.862e-02 7.837e+03 -0.463
                                         7.615e-02 2.307e-02 7.841e+03
## PosEventRating_1_pm:PosEventWho_pm2
                                                                           3.301
## PosEventRating_1_pm:PosEventWho_pm3
                                         9.488e-02 8.163e-02 7.827e+03
                                                                            1.162
##
                                         Pr(>|t|)
## (Intercept)
                                         1.70e-05 ***
## PosEventRating_1_pm
                                         1.62e-06 ***
## PosEventWho_pm1
                                        0.487948
## PosEventWho_pm12
                                        0.001153 **
## PosEventWho_pm123
                                        0.004118 **
## PosEventWho_pm13
                                        0.045021 *
## PosEventWho_pm2
                                        0.270838
## PosEventWho_pm3
                                        0.853464
## day_in_study
                                         0.801609
## PosEventRating_1_pm:PosEventWho_pm1
                                         0.000111 ***
## PosEventRating_1_pm:PosEventWho_pm12  0.078638 .
## PosEventRating_1_pm:PosEventWho_pm123 0.010742 *
## PosEventRating_1_pm:PosEventWho_pm13 0.643446
## PosEventRating_1_pm:PosEventWho_pm2
                                        0.000967 ***
## PosEventRating_1_pm:PosEventWho_pm3
                                        0.245110
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
### collapsed across day, within person only
PA_sm_int_test <- lmer(sum_sm ~ PosEvent*PosEventWho + PA_average + day_in_study + (1 | pid), data = da
summary(PA_sm_int_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ PosEvent * PosEventWho + PA_average + day_in_study +
##
       (1 | pid)
```

##

Data: day

```
##
## REML criterion at convergence: 5337.6
## Scaled residuals:
      Min
               1Q Median
                               3Q
                                      Max
## -3.1991 -0.3488 -0.0798 0.2587 4.1520
## Random effects:
## Groups
            Name
                        Variance Std.Dev.
## pid
             (Intercept) 6208
                                 78.79
## Residual
                        9486
                                 97.40
## Number of obs: 448, groups: pid, 19
## Fixed effects:
##
                                                    df t value Pr(>|t|)
                         Estimate Std. Error
## (Intercept)
                        123.41116
                                   46.75668 24.57561
                                                         2.639
                                                               0.0142 *
## PosEvent
                         -0.30558
                                     0.38186 431.97822 -0.800
                                                                 0.4240
## PosEventWho2
                         -0.79667
                                    24.71137 421.60582 -0.032
                                                                 0.9743
## PosEventWho3
                        218.92015 138.12977 417.23591
                                                         1.585
                                                                 0.1137
## PosEventWho4
                        219.47581
                                   207.11647 417.05700
                                                         1.060
                                                                0.2899
## PosEventWho5
                        95.14550
                                   116.66114 417.32565
                                                         0.816
                                                               0.4152
## PosEventWho6
                        20.82522
                                    33.35178 422.23197
                                                         0.624
                                                                 0.5327
## PosEventWho7
                        -35.90440 168.98554 416.24993 -0.212
                                                                 0.8318
## PA average
                                                                 0.7253
                         -0.01328
                                     0.03721 17.98035 -0.357
## day_in_study
                         -0.05049
                                     0.56301 422.31893 -0.090 0.9286
## PosEvent:PosEventWho2 0.24777
                                     0.57696 420.78121
                                                        0.429
                                                                 0.6678
## PosEvent:PosEventWho3 -4.22942
                                     2.75556 417.60549 -1.535
                                                                 0.1256
## PosEvent:PosEventWho4 -5.74369
                                     3.93844 416.84089 -1.458
                                                                0.1455
## PosEvent:PosEventWho5 -1.73211
                                     2.43620 416.88364 -0.711
                                                                 0.4775
## PosEvent:PosEventWho6 0.13762
                                     0.80932 426.86173
                                                         0.170
                                                                 0.8651
## PosEvent:PosEventWho7
                          0.85051
                                     3.48111 416.09591
                                                         0.244
                                                                 0.8071
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Positive Event * Who event was with & SM checks
PA_sm_count_int <- lmer(phone_applications_foreground_rapids_countsm ~ PosEventRating_1_pm*PosEventWho_
summary(PA_sm_count_int)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: phone_applications_foreground_rapids_countsm ~ PosEventRating_1_pm *
##
      PosEventWho_pm + day_in_study + (1 | pid)
##
     Data: data
##
## REML criterion at convergence: 32178.8
##
## Scaled residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -2.9237 -0.5597 -0.1739 0.3188 9.0884
##
```

Variance Std.Dev.

Random effects:

Name

Groups

```
(Intercept) 52.95
                                 7.277
## pid
                       137.64
## Residual
                                11.732
## Number of obs: 4135, groups: pid, 19
## Fixed effects:
##
                                        Estimate Std. Error
                                                                   df t value
## (Intercept)
                                       1.257e+01 1.833e+00 2.410e+01
                                                                        6.858
## PosEventRating_1_pm
                                       -1.784e-02 3.325e-02 4.110e+03
                                                                       -0.537
## PosEventWho_pm1
                                       -8.358e-01 1.235e+00
                                                            4.117e+03 -0.677
## PosEventWho_pm12
                                       1.542e+01 8.147e+00
                                                            4.110e+03
                                                                        1.893
## PosEventWho_pm123
                                       -3.163e+00 1.320e+01
                                                            4.109e+03 -0.240
                                       8.372e+00 7.659e+00
## PosEventWho_pm13
                                                            4.109e+03
                                                                        1.093
## PosEventWho_pm2
                                       7.338e-01 1.874e+00
                                                            4.117e+03
                                                                        0.391
                                                            4.103e+03 -0.441
## PosEventWho_pm3
                                       -4.341e+00 9.839e+00
                                       -2.977e-02 2.306e-02
## day_in_study
                                                            4.119e+03
                                                                       -1.291
## PosEventRating_1_pm:PosEventWho_pm1
                                        3.166e-02 3.637e-02
                                                            4.114e+03
                                                                        0.870
## PosEventRating_1_pm:PosEventWho_pm12
                                      -1.697e-01 9.936e-02 4.111e+03
                                                                       -1.708
## PosEventRating_1_pm:PosEventWho_pm123
                                       1.218e-01
                                                 1.614e-01
                                                            4.110e+03
                                                                        0.755
## PosEventRating_1_pm:PosEventWho_pm13
                                      -9.172e-02 9.587e-02 4.108e+03 -0.957
## PosEventRating_1_pm:PosEventWho_pm2
                                       4.979e-03 4.031e-02 4.114e+03
                                                                        0.124
## PosEventRating_1_pm:PosEventWho_pm3
                                       5.018e-02 1.170e-01 4.104e+03
                                                                        0.429
                                       Pr(>|t|)
                                       4.21e-07 ***
## (Intercept)
## PosEventRating_1_pm
                                        0.5915
## PosEventWho_pm1
                                        0.4987
## PosEventWho_pm12
                                        0.0585
## PosEventWho_pm123
                                        0.8107
## PosEventWho_pm13
                                         0.2744
## PosEventWho_pm2
                                        0.6955
## PosEventWho_pm3
                                         0.6591
## day_in_study
                                         0.1968
## PosEventRating_1_pm:PosEventWho_pm1
                                         0.3841
## PosEventRating_1_pm:PosEventWho_pm12
                                         0.0877
## PosEventRating_1_pm:PosEventWho_pm123
                                        0.4506
## PosEventRating_1_pm:PosEventWho_pm13
                                         0.3387
## PosEventRating_1_pm:PosEventWho_pm2
                                        0.9017
## PosEventRating_1_pm:PosEventWho_pm3
                                         0.6681
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
### collapsed across day, wihtin person only
PA_sm_count_int_test <- lmer(count_sm ~ PosEvent*PosEventWho + PA_average + day_in_study + (1 | pid), d
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ PosEvent * PosEventWho + PA_average + day_in_study +
##
      (1 | pid)
##
     Data: day
## REML criterion at convergence: 5036.5
##
```

```
## Scaled residuals:
          1Q Median
##
      Min
                             30
                                    Max
## -3.8799 -0.5521 -0.0796 0.4081 4.5362
##
## Random effects:
## Groups Name
                       Variance Std.Dev.
## pid
            (Intercept) 13195
                               114.87
## Residual
                        4463
                                66.81
## Number of obs: 448, groups: pid, 19
##
## Fixed effects:
##
                                                 df t value Pr(>|t|)
                        Estimate Std. Error
## (Intercept)
                       249.53475
                                 61.52523 18.46374
                                                    4.056 0.000709 ***
                                                     0.239 0.811003
## PosEvent
                        0.06367
                                  0.26609 422.11639
## PosEventWho2
                       -21.71497
                                  17.00839 416.47228 -1.277 0.202412
## PosEventWho3
                       198.41157
                                 94.85047 415.28049
                                                     2.092 0.037060 *
## PosEventWho4
                      141.30063 142.20693 415.21583
                                                     0.994 0.320983
## PosEventWho5
                       48.80711
                                 80.11350 415.32250
                                                     0.609 0.542709
## PosEventWho6
                                 22.96213 416.57838
                                                     0.232 0.816779
                        5.32345
## PosEventWho7
                       -52.44449 115.98008 415.00750 -0.452 0.651372
## PA_average
                       -0.09323
                                 0.05200 16.94910 -1.793 0.090864 .
## day_in_study
                        -0.28822
                                 0.38767 416.67608 -0.743 0.457621
## PosEvent:PosEventWho2 0.38455
                                 0.39691 416.18986
                                                    0.969 0.333174
## PosEvent:PosEventWho3 -4.60046
                                  1.89255 415.39036 -2.431 0.015487 *
## PosEvent:PosEventWho4 -1.95151
                                   2.70386 415.16065 -0.722 0.470855
## PosEvent:PosEventWho5 -1.71262 1.67258 415.18142 -1.024 0.306459
## PosEvent:PosEventWho6 -0.45694
                                   0.55901 418.17608 -0.817 0.414162
                                   2.38903 414.97634
## PosEvent:PosEventWho7 0.39294
                                                    0.164 0.869437
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Positive affect & minutes of SM
PA_on_SM <- lmer(phone_applications_foreground_rapids_sumdurationsm ~ SMPos_1_pm + day_in_study + (1 | -
summary(PA_on_SM)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: phone_applications_foreground_rapids_sumdurationsm ~ SMPos_1_pm +
      day_in_study + (1 | pid)
##
##
     Data: data
##
## REML criterion at convergence: 61018.8
##
## Scaled residuals:
##
      Min
              1Q Median
                             3Q
                                    Max
## -1.7729 -0.4474 -0.2014 0.1208 5.6334
##
## Random effects:
## Groups
          Name
                       Variance Std.Dev.
```

```
## pid
        (Intercept) 14.85
                                  3.853
                        104.35
## Residual
                                10.215
## Number of obs: 8140, groups: pid, 19
## Fixed effects:
##
                 Estimate Std. Error
                                             df t value Pr(>|t|)
                5.034e+00 9.948e-01 2.737e+01 5.060 2.5e-05 ***
## (Intercept)
## SMPos_1_pm
                1.270e-02 6.324e-03 5.753e+03
                                                  2.009
                                                         0.0446 *
## day_in_study -9.224e-03 1.412e-02 8.061e+03 -0.653
                                                         0.5137
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
              (Intr) SMP_1_
## SMPos_1_pm -0.392
## day_in_stdy -0.291 0.274
### collapsed across day, wihtin person only
PA_on_SM_test <- lmer(sum_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 | pid), data = day)
summary(PA_on_SM_test)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 4893.4
## Scaled residuals:
           1Q Median
      Min
                               3Q
                                      Max
## -3.0812 -0.3197 -0.0834 0.2565 4.0897
## Random effects:
## Groups
           Name
                        Variance Std.Dev.
## pid
            (Intercept) 5487
## Residual
                        10120
## Number of obs: 403, groups: pid, 19
## Fixed effects:
                Estimate Std. Error
                                          df t value Pr(>|t|)
## (Intercept)
                 79.8511
                           42.3008 18.8947
                                               1.888
                                                      0.0745 .
## SM_Pos
                  0.2296
                             0.2852 383.7966
                                               0.805
                                                       0.4213
## PA_sm_average
                 0.3673
                             0.7566 22.9930
                                               0.485
                                                       0.6320
                -0.2318
                             0.6097 395.3684 -0.380
## day_in_study
                                                       0.7040
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
              (Intr) SM_Pos PA_sm_
## SM_Pos
              -0.057
## PA_sm_averg -0.797 -0.374
## day_in_stdy -0.216  0.263 -0.087
```

```
## Positive affect & SM checks
PA_on_SM_count <- lmer(phone_applications_foreground_rapids_countsm ~ SMPos_1_pm + day_in_study + (1 | -
summary(PA_on_SM_count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## phone_applications_foreground_rapids_countsm ~ SMPos_1_pm + day_in_study +
       (1 | pid)
     Data: data
##
## REML criterion at convergence: 33645.2
##
## Scaled residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -2.8721 -0.5505 -0.1731 0.3112 8.9254
## Random effects:
## Groups Name
                        Variance Std.Dev.
             (Intercept) 56.92
                                  7.545
## Residual
                        142.72
                                 11.946
## Number of obs: 4303, groups: pid, 19
##
## Fixed effects:
                                             df t value Pr(>|t|)
##
                 Estimate Std. Error
## (Intercept)
                 11.10199
                             1.89569
                                       24.40078 5.856 4.55e-06 ***
                  0.03275
                             0.01042 3961.91779
                                                  3.141 0.00169 **
## SMPos_1_pm
                             0.02276 4295.73125 -1.207 0.22738
## day_in_study -0.02748
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
               (Intr) SMP_1_
## SMPos_1_pm -0.346
## day_in_stdy -0.256 0.294
### collapsed across day, wihtin person only
PA_on_SM_count_test <- lmer(count_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 | pid), data = day)
summary(PA_on_SM_count_test) ################################# higher PA while on SM = more SM chec.
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 | pid)
##
     Data: day
##
## REML criterion at convergence: 4608.1
##
## Scaled residuals:
##
      Min
              1Q Median
                               3Q
```

Max

```
## -3.6540 -0.5396 -0.1017 0.4095 4.5674
##
## Random effects:
## Groups Name
                       Variance Std.Dev.
## pid
            (Intercept) 15272
                                123.58
                         4602
                                 67.84
## Residual
## Number of obs: 403, groups: pid, 19
## Fixed effects:
##
                 Estimate Std. Error
                                           df t value Pr(>|t|)
## (Intercept)
                142.67554 66.37956 17.06787 2.149 0.046235 *
                            0.19241 382.09013 3.802 0.000167 ***
## SM_Pos
                  0.73154
## PA_sm_average -0.71744
                           1.14110 17.72171 -0.629 0.537548
## day_in_study
                -0.08481
                          0.41519 385.16803 -0.204 0.838256
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Correlation of Fixed Effects:
              (Intr) SM_Pos PA_sm_
##
## SM Pos
              -0.024
## PA_sm_averg -0.881 -0.167
## day_in_stdy -0.092 0.266 -0.039
```

Positive Affect Bayesian Analyses