**> summary(twobytwo1)**

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula: word1 ~ RC + CE + RC \* CE + (1 | Subject)

Data: RTtrimmed

REML criterion at convergence: 32308.4

Scaled residuals:

Min 1Q Median 3Q Max

-2.3157 -0.6427 -0.1325 0.4723 5.2852

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 28665 169.3

Residual 42642 206.5

Number of obs: 2389, groups: Subject, 20

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 854.5974 38.0983 18.9964 22.431 3.94e-15 \*\*\*

RC1 0.6135 4.2641 2366.1952 0.144 0.8856

CE1 -9.0046 4.2642 2366.1945 -2.112 0.0348 \*

RC1:CE1 -7.0449 4.2628 2366.1590 -1.653 0.0985 .

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1

RC1 -0.010

CE1 0.009 -0.022

RC1:CE1 -0.003 0.083 -0.093

**> summary(twobytwo2)**

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula: word2 ~ RC + CE + RC \* CE + word1 + (1 | Subject)

Data: RTtrimmed

REML criterion at convergence: 32072.1

Scaled residuals:

Min 1Q Median 3Q Max

-4.4109 -0.5821 -0.1357 0.4407 4.9203

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 14329 119.7

Residual 43914 209.6

Number of obs: 2367, groups: Subject, 20

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 629.70542 32.45539 37.59391 19.402 < 2e-16 \*\*\*

RC1 -10.12426 4.34640 2343.04094 -2.329 0.0199 \*

CE1 20.12320 4.35021 2343.13628 4.626 3.93e-06 \*\*\*

word1 0.30056 0.02089 2340.85573 14.389 < 2e-16 \*\*\*

RC1:CE1 6.33600 4.34680 2343.05846 1.458 0.1451

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1

RC1 -0.011

CE1 -0.012 -0.021

word1 -0.549 -0.002 0.042

RC1:CE1 -0.020 0.082 -0.090 0.031

**> summary(twobytwo3)**

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula: word3 ~ RC + CE + RC \* CE + word1 + word2 + (1 | Subject)

Data: RTtrimmed

REML criterion at convergence: 32779.1

Scaled residuals:

Min 1Q Median 3Q Max

-2.5110 -0.5358 -0.1084 0.3648 6.0096

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 23709 154

Residual 70201 265

Number of obs: 2338, groups: Subject, 20

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 595.55550 44.75280 48.45807 13.308 < 2e-16 \*\*\*

RC1 13.01155 5.53718 2313.03569 2.350 0.018864 \*

CE1 -10.36393 5.55762 2313.10198 -1.865 0.062334 .

word1 0.22635 0.02779 2330.50292 8.146 6.05e-16 \*\*\*

word2 0.17088 0.02639 2331.97301 6.476 1.15e-10 \*\*\*

RC1:CE1 -20.62584 5.53167 2312.74803 -3.729 0.000197 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2

RC1 -0.030

CE1 0.025 -0.023

word1 -0.378 -0.017 0.065

word2 -0.368 0.054 -0.094 -0.291

RC1:CE1 -0.006 0.080 -0.085 0.039 -0.033

**> summary(twobytwo4)**

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula:

word4 ~ RC + CE + RC \* CE + word1 + word2 + word3 + (1 | Subject)

Data: RTtrimmed

REML criterion at convergence: 32798

Scaled residuals:

Min 1Q Median 3Q Max

-3.2567 -0.5447 -0.1220 0.3602 7.1049

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 19884 141

Residual 82946 288

Number of obs: 2312, groups: Subject, 20

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 542.62186 46.29121 71.85104 11.722 < 2e-16 \*\*\*

RC1 -32.89338 6.05823 2285.86730 -5.430 6.25e-08 \*\*\*

CE1 1.28600 6.07941 2286.09350 0.212 0.832

word1 0.21361 0.03078 2302.42679 6.941 5.06e-12 \*\*\*

word2 0.13256 0.02908 2304.96614 4.558 5.44e-06 \*\*\*

word3 0.10045 0.02270 2302.55006 4.424 1.01e-05 \*\*\*

RC1:CE1 91.23003 6.06195 2286.08322 15.050 < 2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2 word3

RC1 -0.022

CE1 0.014 -0.021

word1 -0.344 -0.007 0.060

word2 -0.345 0.062 -0.099 -0.260

word3 -0.287 -0.045 0.039 -0.171 -0.138

RC1:CE1 -0.029 0.076 -0.080 0.028 -0.041 0.074

**> summary(twobytwo5)**

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula:

word5 ~ RC + CE + RC \* CE + word1 + word2 + word3 + word4 + (1 |

Subject)

Data: RTtrimmed

REML criterion at convergence: 32328.8

Scaled residuals:

Min 1Q Median 3Q Max

-2.9713 -0.5296 -0.1188 0.3270 8.1930

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 18969 137.7

Residual 78208 279.7

Number of obs: 2288, groups: Subject, 20

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 508.87349 46.50800 77.58341 10.942 < 2e-16 \*\*\*

RC1 -69.14480 5.95283 2260.93585 -11.615 < 2e-16 \*\*\*

CE1 33.28707 5.93568 2260.81521 5.608 2.30e-08 \*\*\*

word1 0.01225 0.03032 2279.64135 0.404 0.6863

word2 0.13637 0.02857 2279.88366 4.774 1.92e-06 \*\*\*

word3 0.03708 0.02226 2279.54717 1.666 0.0958 .

word4 0.22854 0.02030 2279.99845 11.261 < 2e-16 \*\*\*

RC1:CE1 -0.02352 6.20597 2261.76908 -0.004 0.9970

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2 word3 word4

RC1 -0.048

CE1 0.015 -0.022

word1 -0.294 -0.023 0.062

word2 -0.312 0.052 -0.101 -0.245

word3 -0.256 -0.055 0.039 -0.158 -0.127

word4 -0.238 0.115 -0.004 -0.144 -0.094 -0.088

RC1:CE1 0.045 0.038 -0.074 0.071 -0.009 0.094 -0.302

> summary(twobytwo6)

Linear mixed model fit by REML. t-tests use Satterthwaite's method

[lmerModLmerTest]

Formula:

word6 ~ RC + CE + RC \* CE + word1 + word2 + word3 + word4 + word5 +

(1 | Subject)

Data: RTtrimmed

REML criterion at convergence: 30328.1

Scaled residuals:

Min 1Q Median 3Q Max

-3.0942 -0.5638 -0.0955 0.4153 5.9362

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 10789 103.9

Residual 37967 194.9

Number of obs: 2261, groups: Subject, 20

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 346.21767 34.56502 76.21349 10.016 1.50e-15 \*\*\*

RC1 -21.07486 4.29055 2236.12914 -4.912 9.67e-07 \*\*\*

CE1 -6.55772 4.18710 2233.52039 -1.566 0.11745

word1 0.10471 0.02126 2251.95803 4.925 9.04e-07 \*\*\*

word2 0.05953 0.02007 2250.31506 2.966 0.00305 \*\*

word3 0.04296 0.01558 2251.96779 2.758 0.00586 \*\*

word4 0.06588 0.01460 2249.01881 4.511 6.78e-06 \*\*\*

word5 0.16516 0.01475 2251.65820 11.197 < 2e-16 \*\*\*

RC1:CE1 -12.43117 4.35099 2233.93576 -2.857 0.00432 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2 word3 word4 word5

RC1 -0.094

CE1 0.039 -0.048

word1 -0.276 -0.026 0.058

word2 -0.273 0.026 -0.086 -0.243

word3 -0.236 -0.061 0.045 -0.157 -0.119

word4 -0.169 0.055 0.023 -0.138 -0.064 -0.076

word5 -0.218 0.234 -0.116 -0.009 -0.098 -0.033 -0.232

RC1:CE1 0.041 0.034 -0.075 0.072 -0.008 0.095 -0.295 0.002