**> summary(twobytwo1)**

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

[lmerModLmerTest]

Formula: word1 ~ RC + CE + RC \* CE + wl1 + (1 | Subject)

Data: RTtrimmedW

REML criterion at convergence: 54496.5

Scaled residuals:

Min 1Q Median 3Q Max

-2.8851 -0.5757 -0.1165 0.4552 6.8009

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 30389 174.3

Residual 17579 132.6

Number of obs: 4310, groups: Subject, 30

Fixed effects:

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

(Intercept) 533.4608 34.8605 41.3828 15.303 < 2e-16 \*\*\*

RC1 -1.9839 2.0208 4276.0380 -0.982 0.326

CE1 0.1004 2.0205 4276.0275 0.050 0.960

wl1 25.6158 4.0443 4276.0364 6.334 2.64e-10 \*\*\*

RC1:CE1 2.5659 2.0201 4276.0119 1.270 0.204

---

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

Correlation of Fixed Effects:

(Intr) RC1 CE1 wl1

RC1 0.000

CE1 -0.001 0.004

wl1 -0.404 -0.001 0.003

RC1:CE1 -0.001 -0.003 0.004 0.003

**> summary(twobytwo2)**

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

[lmerModLmerTest]

Formula: word2 ~ RC + CE + RC \* CE + word1 + wl2 + (1 | Subject)

Data: RTtrimmedW

REML criterion at convergence: 53803.1

Scaled residuals:

Min 1Q Median 3Q Max

-3.8282 -0.5543 -0.0947 0.3840 11.3340

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 12806 113.2

Residual 17769 133.3

Number of obs: 4253, groups: Subject, 30

Fixed effects:

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

(Intercept) 350.56829 25.96665 68.78537 13.501 <2e-16 \*\*\*

RC1 -4.15573 2.05087 4217.45920 -2.026 0.0428 \*

CE1 28.57471 2.31837 4217.45856 12.325 <2e-16 \*\*\*

word1 0.37620 0.01537 4191.29751 24.473 <2e-16 \*\*\*

wl2 7.70756 3.93445 4217.52236 1.959 0.0502 .

RC1:CE1 -1.00458 2.05108 4217.46630 -0.490 0.6243

---

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

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 wl2

RC1 0.029

CE1 0.223 0.038

word1 -0.353 0.018 0.015

wl2 -0.475 -0.072 -0.471 -0.031

RC1:CE1 -0.029 -0.011 -0.033 -0.023 0.077

**> summary(twobytwo3)**

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

[lmerModLmerTest]

Formula:

word3 ~ RC + CE + RC \* CE + word1 + word2 + wl3 + (1 | Subject)

Data: RTtrimmedW

REML criterion at convergence: 52557.3

Scaled residuals:

Min 1Q Median 3Q Max

-3.5861 -0.5750 -0.1165 0.3918 8.3234

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 8854 94.1

Residual 15676 125.2

Number of obs: 4196, groups: Subject, 30

Fixed effects:

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

(Intercept) 282.68437 21.62965 66.66538 13.069 < 2e-16 \*\*\*

RC1 3.06629 1.93850 4158.98679 1.582 0.1138

CE1 -0.29437 2.02607 4161.89803 -0.145 0.8845

word1 0.24225 0.01554 4171.63262 15.590 < 2e-16 \*\*\*

word2 0.18875 0.01453 4186.71850 12.990 < 2e-16 \*\*\*

wl3 13.81097 2.89479 4159.16944 4.771 1.9e-06 \*\*\*

RC1:CE1 -5.26661 1.96532 4158.99375 -2.680 0.0074 \*\*

---

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

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2 wl3

RC1 0.008

CE1 0.126 0.008

word1 -0.302 0.004 0.077

word2 -0.235 0.030 -0.209 -0.353

wl3 -0.352 -0.059 -0.203 -0.001 -0.044

RC1:CE1 -0.054 -0.015 -0.035 -0.027 0.001 0.177

**> summary(twobytwo4)**

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

[lmerModLmerTest]

Formula:

word4 ~ RC + CE + RC \* CE + word1 + word2 + word3 + wl4 + (1 |

Subject)

Data: RTtrimmedW

REML criterion at convergence: 54217.4

Scaled residuals:

Min 1Q Median 3Q Max

-3.8989 -0.5004 -0.0972 0.3193 8.7316

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 9606 98.01

Residual 27990 167.30

Number of obs: 4138, groups: Subject, 30

Fixed effects:

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

(Intercept) 184.70174 26.72158 119.42100 6.912 2.51e-10 \*\*\*

RC1 -14.31390 2.71078 4099.43682 -5.280 1.36e-07 \*\*\*

CE1 -27.02256 3.18235 4103.37241 -8.491 < 2e-16 \*\*\*

word1 0.20191 0.02154 4090.65962 9.374 < 2e-16 \*\*\*

word2 0.21473 0.01992 4126.46539 10.781 < 2e-16 \*\*\*

word3 0.24871 0.02072 4120.16793 12.001 < 2e-16 \*\*\*

wl4 13.22554 3.95055 4099.47834 3.348 0.000822 \*\*\*

RC1:CE1 30.14017 2.72400 4099.61310 11.065 < 2e-16 \*\*\*

---

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

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2 word3 wl4

RC1 0.117

CE1 -0.196 -0.152

word1 -0.265 0.012 0.074

word2 -0.220 0.028 -0.171 -0.292

word3 -0.234 -0.024 -0.020 -0.237 -0.205

wl4 -0.453 -0.277 0.545 0.010 0.014 -0.019

RC1:CE1 0.125 0.074 -0.159 -0.039 -0.006 0.062 -0.290

**> 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 + wl5 +

(1 | Subject)

Data: RTtrimmedW

REML criterion at convergence: 52577.3

Scaled residuals:

Min 1Q Median 3Q Max

-3.0868 -0.4944 -0.1222 0.3186 13.6162

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 6125 78.26

Residual 22197 148.99

Number of obs: 4085, groups: Subject, 30

Fixed effects:

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

(Intercept) 225.08398 25.31153 219.49177 8.893 2.23e-16 \*\*\*

RC1 -22.83359 2.34700 4046.51352 -9.729 < 2e-16 \*\*\*

CE1 -10.67485 2.43757 4049.67779 -4.379 1.22e-05 \*\*\*

word1 0.12337 0.01963 4024.49958 6.284 3.66e-10 \*\*\*

word2 0.22966 0.01814 4072.68320 12.661 < 2e-16 \*\*\*

word3 0.14795 0.01897 4067.81450 7.799 7.90e-15 \*\*\*

word4 0.05323 0.01402 4074.28728 3.798 0.000148 \*\*\*

wl5 13.85916 5.03484 4045.98475 2.753 0.005938 \*\*

RC1:CE1 10.91679 2.38109 4048.38192 4.585 4.68e-06 \*\*\*

---

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

Correlation of Fixed Effects:

(Intr) RC1 CE1 word1 word2 word3 word4 wl5

RC1 -0.060

CE1 0.003 0.018

word1 -0.228 0.001 0.048

word2 -0.188 0.021 -0.234 -0.260

word3 -0.205 -0.039 -0.045 -0.206 -0.171

word4 -0.121 0.075 0.190 -0.147 -0.165 -0.185

wl5 -0.597 0.071 0.051 0.002 0.018 0.007 -0.003

RC1:CE1 0.016 -0.022 -0.040 -0.010 0.026 0.092 -0.192 0.007

**> 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 +

wl6 + (1 | Subject)

Data: RTtrimmedW

REML criterion at convergence: 51647.3

Scaled residuals:

Min 1Q Median 3Q Max

-3.8701 -0.4957 -0.0926 0.3459 13.3609

Random effects:

Groups Name Variance Std.Dev.

Subject (Intercept) 6423 80.14

Residual 20884 144.51

Number of obs: 4031, groups: Subject, 30

Fixed effects:

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

(Intercept) 186.13549 23.13517 145.49043 8.046 2.76e-13 \*\*\*

RC1 -10.48234 2.36281 3993.94324 -4.436 9.39e-06 \*\*\*

CE1 4.45111 2.39089 3994.70078 1.862 0.062720 .

word1 0.09688 0.01923 3993.08905 5.038 4.91e-07 \*\*\*

word2 0.07357 0.01801 4020.96737 4.084 4.51e-05 \*\*\*

word3 0.17251 0.01864 4019.46888 9.254 < 2e-16 \*\*\*

word4 0.06573 0.01373 4020.85020 4.789 1.73e-06 \*\*\*

word5 0.22106 0.01535 4020.81201 14.405 < 2e-16 \*\*\*

wl6 11.36914 3.16704 3991.77432 3.590 0.000335 \*\*\*

RC1:CE1 -11.76881 2.34957 3994.80354 -5.009 5.71e-07 \*\*\*

---

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 -0.137

CE1 0.051 0.013

word1 -0.225 -0.012 0.039

word2 -0.160 -0.006 -0.247 -0.231

word3 -0.185 -0.060 -0.051 -0.192 -0.139

word4 -0.125 0.069 0.187 -0.141 -0.150 -0.174

word5 -0.161 0.143 0.076 -0.103 -0.195 -0.118 -0.049

wl6 -0.440 0.201 -0.068 0.005 0.013 -0.022 -0.003 -0.040

RC1:CE1 -0.020 -0.010 -0.054 -0.004 0.041 0.097 -0.187 -0.075

wl6

RC1

CE1

word1

word2

word3

word4

word5

wl6

RC1:CE1 0.124