


```

Random effects:
Groups   Name              Variance Std.Dev. Corr
Subject  (Intercept)        108205   328.95
         ConditionNeutral  2589    50.88  -1.00
         ConditionPositive  6425    80.16  -1.00  1.00
Item     (Intercept)        32985   181.62
         ConditionNeutral  1296    36.00   0.00
         ConditionPositive  3897    62.42  -0.54  0.84
Residual                    204916   452.68
Number of obs: 574, groups: Subject, 24; Item, 24

Fixed effects:
              Estimate Std. Error   df t value Pr(>|t|)
(Intercept)   1083.76    83.40   30.15  12.994 6.88e-14 ***
ConditionNeutral  101.04    48.05   52.01   2.103  0.0403 *
ConditionPositive 123.54    50.70   22.73   2.437  0.0231 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```



- This is what we're mainly interested in. We know the model itself is significantly better than the null model. These comparisons tell us what differences are driving the effect.

- Think of these like the contrasts that are used to interpret significant ANOVAs. In this case, the Neutral and Positive conditions are each being compared to the Negative condition (or the intercept of the regression line). The estimates tell us that the intercept is 1084 (which is the Negative condition mean). The Neutral mean is $1084 + 101$, while the Positive mean is $1084 + 124$.

A few points to note so far...

- Models can only be compared to each other using the ANOVA function if they are nested - in other words, if one model is a subset of the other. Models with different fixed and random effects structures cannot be compared in this way - use AIC or BIC comparisons.
- If using treatment coding for Contrasts, sometimes the Intercept (or reference level condition) chosen by R isn't the one you might want. You can change it using: `DV$Condition <- relevel (DV$Condition, ref = 3)` where `ref` corresponds to the level of the factor `Condition` you want as the intercept, `DV` corresponds to the datafile, and `Condition` corresponds to the factor you want to relevel.