

# Statistics

---

## Summary

### ANOVA 1

Final Score as a function of winners vs losers did not prove significant

The main effect, winners vs losers, was insignificant,  $F(1, 107) = 1.54, p = 0.22$ .

### RM-ANOVA 1

Score within trial proved significant

The within factor, trial, was significant,  $F(99, 10692) = 2.34, p = 1.62e-12$ .

### MIXED ANOVA 1

Score as a function of winners vs losers within trial, the interaction proved significant

The main effect, winners vs losers, was insignificant,  $F(1, 107) = 1.08, p = 0.3$ .

The within factor, trial, was significant,  $F(99, 10593) = 2.35, p = 1.21e-12$ .

The interaction was significant,  $F(99, 10593) = 1.47, p = 1.76e-3$ .

### RM-ANOVA 2

Score within quintile proved insignificant

The main effect was insignificant,  $F(4, 432) = 1.81, p = 0.12$ .

### MIXED ANOVA 2

Score as a function of winners vs losers within quintile, nothing proved significant

The main effect, winners vs losers, was insignificant,  $F(1, 107) = 1.08, p = 0.3$ .

The within factor, trial, was insignificant,  $F(4, 428) = 1.82, p = 0.12$ .

The interaction was insignificant,  $F(4, 428) = 1.71, p = 0.15$ .

## Model Results

### ANOVA 1

dv=final score

iv=win/loss\_2

|   | Source     | SS          | DF  | MS          | F       | p        | np2       |
|---|------------|-------------|-----|-------------|---------|----------|-----------|
| 0 | win/loss_2 | 4.27468e+06 | 1   | 4.27468e+06 | 1.54781 | 0.216177 | 0.0142593 |
| 1 | Within     | 2.95507e+08 | 107 | 2.76175e+06 | nan     | nan      | nan       |

### RM-ANOVA 1

dv=score

within=trial

|   | Source | SS          | DF    | MS          | F       | p           | p-GG-corr | ng2       |
|---|--------|-------------|-------|-------------|---------|-------------|-----------|-----------|
| 0 | trial  | 1.23185e+08 | 99    | 1.24429e+06 | 2.34462 | 1.62207e-12 | 0.076931  | 0.0084271 |
| 1 | Error  | 5.67428e+09 | 10692 | 530703      | nan     | nan         | nan       | nan       |

## MIXED ANOVA 1

dv=score

within=trial

between=win/loss\_2

|   | Source      | SS          | DF1 | DF2   | MS          | F       | p          | p-GG-corr | np2       |
|---|-------------|-------------|-----|-------|-------------|---------|------------|-----------|-----------|
| 0 | win/loss_2  | 8.83519e+07 | 1   | 107   | 8.83519e+07 | 1.08265 | 0.30045    | nan       | 0.0100169 |
| 1 | trial       | 1.23185e+08 | 99  | 10593 | 1.24429e+06 | 2.35479 | 1.218e-12  | 0.076931  | 0.0215335 |
| 2 | Interaction | 7.684e+07   | 99  | 10593 | 776161      | 1.46886 | 0.00176271 | nan       | 0.0135418 |

## RM-ANOVA 2

dv=score

within=quintile

|   | Source   | SS          | DF  | MS     | F       | p        | p-GG-corr | ng2        |
|---|----------|-------------|-----|--------|---------|----------|-----------|------------|
| 0 | quintile | 3.61704e+06 | 4   | 904259 | 1.81454 | 0.124979 | 0.16988   | 0.00548107 |
| 1 | Error    | 2.15284e+08 | 432 | 498342 | nan     | nan      | nan       | nan        |

## MIXED ANOVA 2

dv=score

within=quintile

between=win/loss\_2

|   | Source      | SS          | DF1 | DF2 | MS         | F       | p        | p-GG-corr | np2       |
|---|-------------|-------------|-----|-----|------------|---------|----------|-----------|-----------|
| 0 | win/loss_2  | 4.4176e+06  | 1   | 107 | 4.4176e+06 | 1.08265 | 0.30045  | nan       | 0.0100169 |
| 1 | quintile    | 3.61704e+06 | 4   | 428 | 904259     | 1.82647 | 0.122717 | 0.16988   | 0.0167833 |
| 2 | Interaction | 3.38638e+06 | 4   | 428 | 846595     | 1.70999 | 0.146746 | nan       | 0.0157299 |