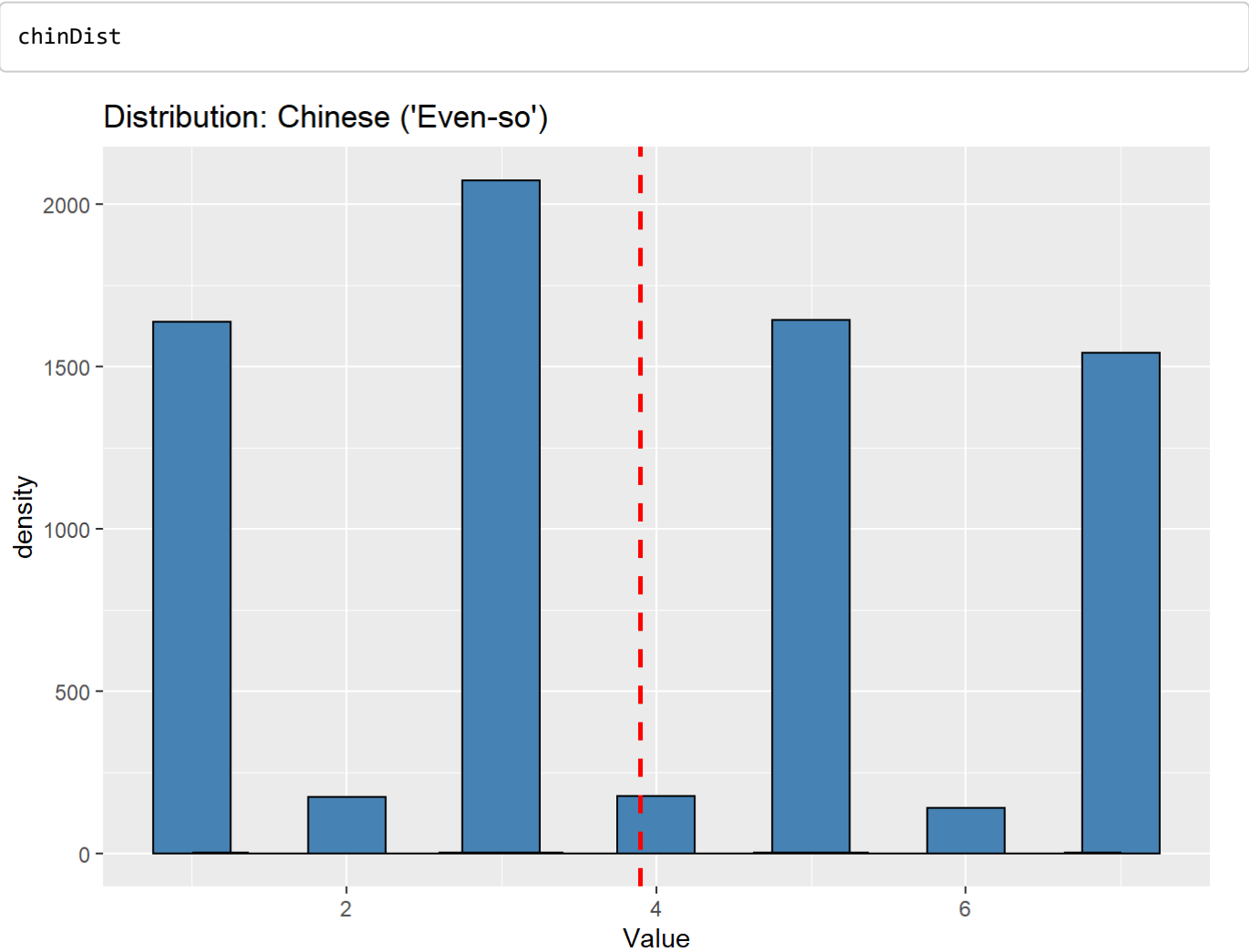


Chinese 'Even-so' Summary

This provides a summary of plots and models for the Chinese 'even-so' data from the self-paced reading task.

Distribution



Means and Standard Deviations per Condition

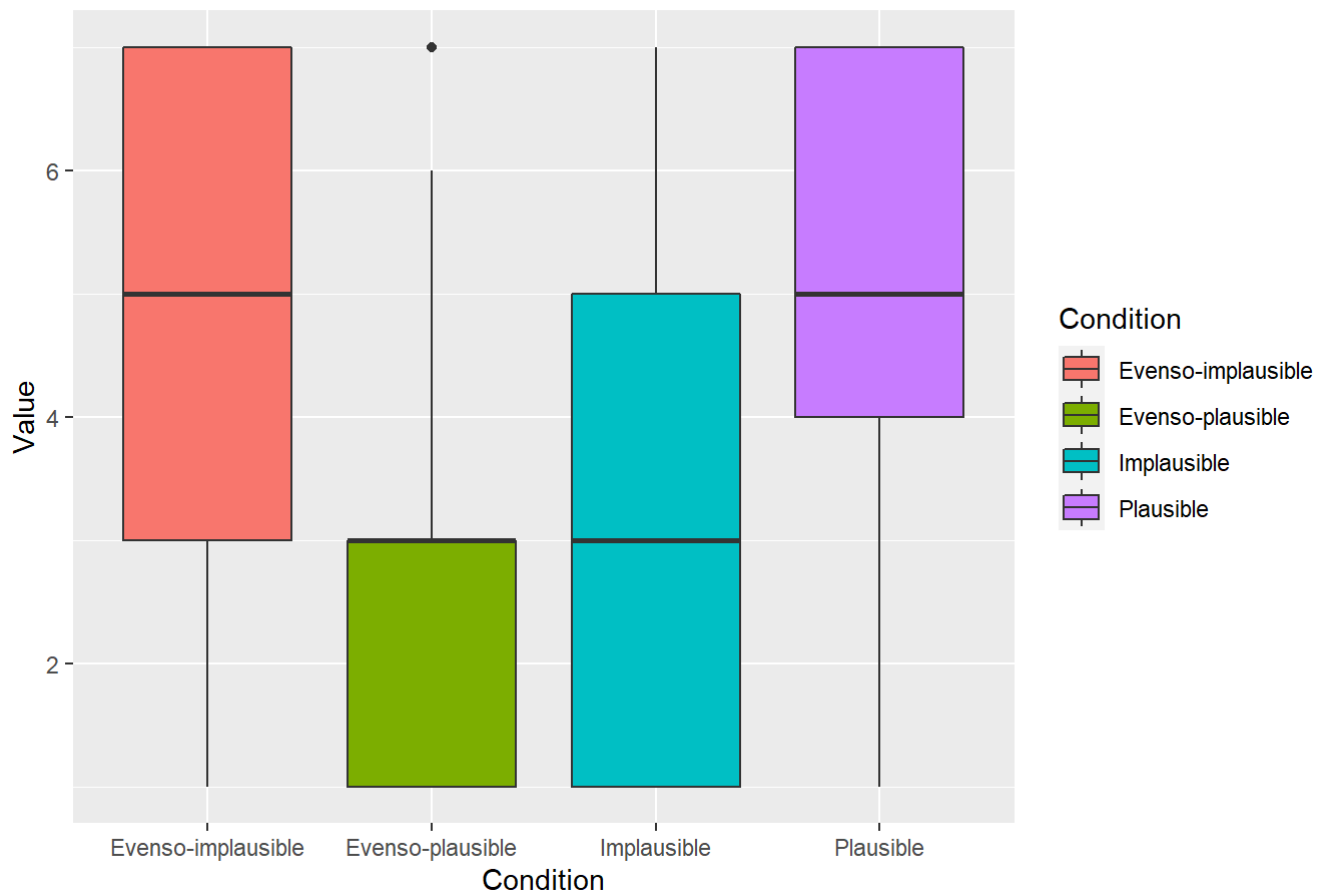
chineseCondNorms

##	Condition	Mean	SD
## 1	Evenso-implausible	4.352846	2.098612
## 2	Evenso-plausible	2.831978	1.580095
## 3	Implausible	3.199458	2.040613
## 4	Plausible	5.192954	1.893205

Box plots per Condition



Chinese: Even-so



Clmm Analysis

Model with value as DV and Condition as IV (Participant as random effect)

```
chinclmmModel <- clmm(Value~Condition + (1|Participant), data = coherenceScores)
summary(chinclmmModel)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: Value ~ Condition + (1 | Participant)
## data: coherenceScores
##
## link threshold nobs logLik AIC niter max.grad cond.H
## logit flexible 7380 -10797.87 21615.75 1289(3870) 1.55e-02 1.6e+03
##
## Random effects:
## Groups Name Variance Std.Dev.
## Participant (Intercept) 0.3415 0.5844
## Number of groups: Participant 41
##
## Coefficients:
## Estimate Std. Error z value Pr(>|z|)
## ConditionEvenso-plausible -1.43824 0.06133 -23.45 <2e-16 ***
## ConditionImplausible -1.15877 0.06230 -18.60 <2e-16 ***
## ConditionPlausible 0.80231 0.06131 13.09 <2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
## Estimate Std. Error z value
## 1|2 -2.0135 0.1047 -19.225
## 2|3 -1.8623 0.1044 -17.845
## 3|4 -0.3589 0.1019 -3.522
## 4|5 -0.2375 0.1018 -2.332
## 5|6 1.0440 0.1026 10.171
## 6|7 1.1789 0.1029 11.455
```

Between conditions analysis with emmeans

```
emmeans(chinclmmModel, pairwise ~ Condition | Value, mode = "prob")
```

```
## $`Differences of cumulative probabilities`
## Value = 1:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.11779 0.01088 Inf   0.09646   0.1391
## Evenso-plausible   0.36002 0.02331 Inf   0.31433   0.4057
## Improbable         0.29843 0.02146 Inf   0.25637   0.3405
## Plausible          0.05647 0.00568 Inf   0.04534   0.0676
##
## Value = 2:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.01664 0.00177 Inf   0.01317   0.0201
## Evenso-plausible   0.03552 0.00279 Inf   0.03006   0.0410
## Improbable         0.03259 0.00272 Inf   0.02726   0.0379
## Plausible          0.00862 0.00101 Inf   0.00663   0.0106
##
## Value = 3:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.27680 0.01350 Inf   0.25034   0.3033
## Evenso-plausible   0.35083 0.00805 Inf   0.33506   0.3666
## Improbable         0.35893 0.00659 Inf   0.34602   0.3718
## Plausible          0.17336 0.01262 Inf   0.14862   0.1981
##
## Value = 4:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.02968 0.00226 Inf   0.02525   0.0341
## Evenso-plausible   0.02229 0.00201 Inf   0.01835   0.0262
## Improbable         0.02535 0.00215 Inf   0.02114   0.0296
## Plausible          0.02274 0.00204 Inf   0.01874   0.0267
##
## Value = 5:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.29871 0.00831 Inf   0.28243   0.3150
## Evenso-plausible   0.15423 0.01112 Inf   0.13243   0.1760
## Improbable         0.18519 0.01211 Inf   0.16145   0.2089
## Plausible          0.29894 0.00825 Inf   0.28277   0.3151
##
## Value = 6:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.02513 0.00244 Inf   0.02034   0.0299
## Evenso-plausible   0.00907 0.00109 Inf   0.00693   0.0112
## Improbable         0.01145 0.00135 Inf   0.00881   0.0141
## Plausible          0.03292 0.00279 Inf   0.02745   0.0384
##
## Value = 7:
## Condition          prob      SE   df asymp.LCL asymp.UCL
## Evenso-improbable  0.23525 0.01852 Inf   0.19896   0.2715
## Evenso-plausible   0.06804 0.00670 Inf   0.05491   0.0812
## Improbable         0.08805 0.00849 Inf   0.07142   0.1047
## Plausible          0.40695 0.02457 Inf   0.35880   0.4551
##
## Confidence level used: 0.95
##
## $contrasts
## Value = 1:
## contrast                                estimate      SE   df z.ratio
```

```

## (Evenso-implausible) - (Evenso-plausible) -0.242227 0.015624 Inf -15.504
## (Evenso-implausible) - Implausible -0.180644 0.014008 Inf -12.896
## (Evenso-implausible) - Plausible 0.061315 0.006919 Inf 8.862
## (Evenso-plausible) - Implausible 0.061583 0.013251 Inf 4.647
## (Evenso-plausible) - Plausible 0.303542 0.018979 Inf 15.993
## Implausible - Plausible 0.241959 0.017173 Inf 14.089
## p.value
## <.0001
## <.0001
## <.0001
## <.0001
## <.0001
## <.0001
##
## Value = 2:
## contrast estimate SE df z.ratio
## (Evenso-implausible) - (Evenso-plausible) -0.018880 0.001628 Inf -11.596
## (Evenso-implausible) - Implausible -0.015946 0.001438 Inf -11.092
## (Evenso-implausible) - Plausible 0.008024 0.000972 Inf 8.251
## (Evenso-plausible) - Implausible 0.002933 0.000743 Inf 3.949
## (Evenso-plausible) - Plausible 0.026904 0.002092 Inf 12.857
## Implausible - Plausible 0.023970 0.001955 Inf 12.260
## p.value
## <.0001
## <.0001
## <.0001
## 0.0005
## <.0001
## <.0001
##
## Value = 3:
## contrast estimate SE df z.ratio
## (Evenso-implausible) - (Evenso-plausible) -0.074036 0.017236 Inf -4.295
## (Evenso-implausible) - Implausible -0.082129 0.013599 Inf -6.039
## (Evenso-implausible) - Plausible 0.103440 0.007831 Inf 13.210
## (Evenso-plausible) - Implausible -0.008093 0.004384 Inf -1.846
## (Evenso-plausible) - Plausible 0.177477 0.017205 Inf 10.316
## Implausible - Plausible 0.185570 0.013723 Inf 13.522
## p.value
## 0.0001
## <.0001
## <.0001
## 0.2519
## <.0001
## <.0001
##
## Value = 4:
## contrast estimate SE df z.ratio
## (Evenso-implausible) - (Evenso-plausible) 0.007390 0.001657 Inf 4.459
## (Evenso-implausible) - Implausible 0.004323 0.001478 Inf 2.926
## (Evenso-implausible) - Plausible 0.006938 0.000999 Inf 6.947
## (Evenso-plausible) - Implausible -0.003067 0.000702 Inf -4.368
## (Evenso-plausible) - Plausible -0.000452 0.002220 Inf -0.204
## Implausible - Plausible 0.002615 0.002119 Inf 1.234
## p.value
## <.0001

```

```

## 0.0181
## <.0001
## 0.0001
## 0.9970
## 0.6053
##
## Value = 5:
## contrast estimate SE df z.ratio
## (Evenso-implausible) - (Evenso-plausible) 0.144486 0.008094 Inf 17.850
## (Evenso-implausible) - Implausible 0.113520 0.008476 Inf 13.392
## (Evenso-implausible) - Plausible -0.000226 0.010348 Inf -0.022
## (Evenso-plausible) - Implausible -0.030966 0.006687 Inf -4.631
## (Evenso-plausible) - Plausible -0.144711 0.016048 Inf -9.017
## Implausible - Plausible -0.113745 0.016645 Inf -6.833
## p.value
## <.0001
## <.0001
## 1.0000
## <.0001
## <.0001
## <.0001
##
## Value = 6:
## contrast estimate SE df z.ratio
## (Evenso-implausible) - (Evenso-plausible) 0.016060 0.001549 Inf 10.367
## (Evenso-implausible) - Implausible 0.013678 0.001367 Inf 10.007
## (Evenso-implausible) - Plausible -0.007791 0.001148 Inf -6.785
## (Evenso-plausible) - Implausible -0.002382 0.000568 Inf -4.192
## (Evenso-plausible) - Plausible -0.023852 0.002078 Inf -11.481
## Implausible - Plausible -0.021469 0.001930 Inf -11.125
## p.value
## <.0001
## <.0001
## <.0001
## 0.0002
## <.0001
## <.0001
##
## Value = 7:
## contrast estimate SE df z.ratio
## (Evenso-implausible) - (Evenso-plausible) 0.167208 0.013507 Inf 12.379
## (Evenso-implausible) - Implausible 0.147200 0.012512 Inf 11.765
## (Evenso-implausible) - Plausible -0.171700 0.014134 Inf -12.148
## (Evenso-plausible) - Implausible -0.020008 0.004623 Inf -4.328
## (Evenso-plausible) - Plausible -0.338908 0.019521 Inf -17.361
## Implausible - Plausible -0.318900 0.018391 Inf -17.340
## p.value
## <.0001
## <.0001
## <.0001
## 0.0001
## <.0001
## <.0001

```

```
##
```

```
## P value adjustment: tukey method for comparing a family of 4 estimates
```