Supplement

Supplementary Table 1

Lilliefors test results for experiment 1

| Dependent Variable | Accuracy  D | Accuracy  *p* | Median RT  D | Median RT  *p* | Standard-deviation RT  D | Standard-deviation RT  *p* |
| --- | --- | --- | --- | --- | --- | --- |
| Incongruent,  No Noise | 0.29 | 0.006\*\* | 0.171 | 0.428 | 0.25 | 0.037\* |
| Congruent,  No Noise | 0.305 | 0.003\*\* | 0.127 | 0.859 | 0.25 | 0.036\* |
| Incongruent,  White Noise | 0.254 | 0.032\* | 0.118 | 0.915 | 0.222 | 0.104 |
| Congruent,  White Noise | 0.226 | 0.092 | 0.218 | 0.12 | 0.204 | 0.183 |

Note: D represents the maximal absolute difference between the empirical data distribution and the normal distribution. If the p-value is below the critical alpha level, the hypothesis of normality has to be rejected. \* indicates *p* < .05, \*\* indicates *p* < .01.

Supplementary Table 2

Lilliefors test results for experiment 2

| Block | Response | D | *p* |
| --- | --- | --- | --- |
| Baseline | 0 | 0.538 | 0\*\* |
|  | 1 | 0.164 | 0.172 |
|  | 2 | 0.167 | 0.151 |
| Noise 1 | 0 | 0.451 | 0\*\* |
|  | 1 | 0.206 | 0.025\* |
|  | 2 | 0.183 | 0.076 |
| Noise 2 | 0 | 0.538 | 0\*\* |
|  | 1 | 0.19 | 0.058 |
|  | 2 | 0.182 | 0.08 |
| Noise 3 | 0 | 0.463 | 0\*\* |
|  | 1 | 0.254 | 0.001\*\* |
|  | 2 | 0.287 | 0\*\* |
| Noise 4 | 0 | 0.508 | 0\*\* |
|  | 1 | 0.234 | 0.005\*\* |
|  | 2 | 0.224 | 0.01\*\* |
| Noise 5 | 0 | 0.509 | 0\*\* |
|  | 1 | 0.171 | 0.128 |
|  | 2 | 0.198 | 0.039\* |
| Noise 6 | 0 | 0.524 | 0\*\* |
|  | 1 | 0.129 | 0.517 |
|  | 2 | 0.136 | 0.436 |
| Noise 7 | 0 | 0.464 | 0\*\* |
|  | 1 | 0.247 | 0.002\*\* |
|  | 2 | 0.258 | 0.001\*\* |

Note: D represents the maximal absolute difference between the empirical data distribution and the normal distribution. If the p-value is below the critical alpha level, the hypothesis of normality has to be rejected. \* indicates *p* < .05, \*\* indicates *p* < .01.