Supplementary Materials

Table S.1. *Sample responses for Experiments 1 and 2*

|  |  |
| --- | --- |
|  | Sample response |
| Experiment 1: Temporal phrases | |
| TP-V-S-O | Im Herbst trägt der Mann einen Hut.  “In the fall the man wears a hat.” |
| TP-S-V-O | Im Frühling der Vogel singt ein Lied.  “In spring the bird sings a song.” |
| S-V-TP-O | Der Junge isst um 11 Uhr ein Brötchen.  “The boy eats at 11 am a sandwich.” |
| S-V-O-TP | Die Prinzessin trägt ein Kleid am Abend.  “The princess wears a dress in the evening.” |
| Miscellaneous word order | Der Junge um 21 Uhr liest ein Buch.  “The boy at 9 pm reads a book.” |
| Experiment 2: Locative phrases | |
| LP-V-S-O | An der Uni der Journalist schreibt einen Artikel.  “At the university the journalist writes an article.” |
| LP-S-V-O | Im Garten sieht das Kind eine Blume.  “In the garden the child sees a flower.” |
| S-V-LP-O | Der Koch backt im Restaurant eine Nachspeise.  “The cook bakes in the restaurant a dessert.” |
| S-V-O-LP | Der Junge kauft einen Kürbis im Supermarkt.  “The boy buys a pumpkin in the supermarket.” |
| Miscellaneous word order | Der Sänger ein Lied im Konzertsaal singt.  “The singer a song in the concert hall sings.” |

Table S.2. *Proportion of fronted sentences by condition and target picture location in Experiment 1 (temporal phrases) and Experiment 2 (locative phrases)*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Fronted prime | Non-fronted prime | Priming effect |
| Experiment 1: Temporal phrases | | | |
| TP image left |  |  |  |
| Lexical overlap | .74 | .43 | .31 |
| No lexical overlap | .72 | .65 | .07 |
| TP image right |  |  |  |
| Lexical overlap | .59 | .38 | .21 |
| No lexical overlap | .46 | .37 | .09 |
| Experiment 2: Locative phrases | | | |
| LP image left |  |  |  |
| Lexical overlap | .48 | .13 | .35 |
| No lexical overlap | .25 | .17 | .08 |
| LP image right |  |  |  |
| Lexical overlap | .20 | .04 | .16 |
| No lexical overlap | .07 | .02 | .05 |

Table S.3. *Summary of the mixed logit model for priming with temporal phrases with target image location (Experiment 1)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Predictor | Parameter estimates | | Wald’s test of individual coefficients | | ∆(-2Ʌ)-test | |
| Fixed effects | Estimate | Std. error | z-value | Pr (>|z|) | χ2 | *p* |
| (Intercept) | 0.23 | 0.94 | 0.24 | .808 |  |  |
| Fronting | 1.62 | 0.46 | 3.51 | < .001 | 22.68b | < .001 |
| Repetition | -0.25 | 0.26 | -0.98 | .329 | 23.93 | < .001 |
| TP image location | 1.99 | 0.28 | 7.13 | < .001 | 67.37 | < .001 |
| Trial number | 0.01 | 0.00 | 2.62 | .009 | 6.51 | .011 |
| Fronting x Repetition | 1.85 | 0.52 | 3.58 | < .001 | 12.75 | < .001 |
| Fronting x TP image  location | 0.68 | 0.54 | 1.25 | .210 | 1.55 | .212 |
| Repetition x TP image  location | -1.35 | 0.51 | -2.65 | .008 | 6.83 | .009 |

a An initial model including the fronting x repetition x TP image location interaction term revealed that this 3-way interaction did not significantly improve the overall model fit (*p* > .1), so it was not included in the final model reported here.

b Likelihood ratio tests for simple main effects are based on omitting the simple main effect and any 2-way interaction terms involving that simple main effect

Table S.4. *Summary of the mixed logit model for priming with locative phrases with target image location (Experiment 2)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Predictor | Parameter estimates | | Wald’s test of individual coefficients | | ∆(-2Ʌ)-test | |
| Fixed effects | Estimate | Std. error | z-value | Pr (>|z|) | χ2 | *p* |
| (Intercept) | -3.37 | 0.57 | -5.97 | < .001 |  |  |
| Fronting | 2.03 | 0.55 | 3.66 | < .001 | 25.25b | < .001 |
| Repetition | 0.89 | 0.33 | 2.70 | .007 | 28.48 | < .001 |
| LP image location | 2.43 | 0.35 | 6.89 | < .001 | 71.96 | < .001 |
| Trial number | 0.01 | 0.00 | 2.44 | .015 | 6.00 | .014 |
| Fronting x Repetition | 2.02 | 0.60 | 3.355 | < .001 | 11.15 | < .001 |
| Fronting x LP image  location | 0.17 | 0.70 | 0.24 | .814 | 0.01 | .904 |
| Repetition x LP image  location | -0.46 | 0.63 | -0.73 | .465 | 0.45 | .503 |

a An initial model including the fronting x repetition x LP image location interaction term revealed that this 3-way interaction did not significantly improve the overall model fit (*p* > .4), so it was not included in the final model reported here.

b Likelihood ratio tests for simple main effects are based on omitting the simple main effect and any 2-way interaction terms involving that simple main effect