Native prosodic structures constrain L2 word recognition: Evidence from Bengali-English bilinguals

Isabella Fritz & Aditi Lahiri

Supplementary Material

Table 1. Model output summary(model) for the RT data. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor *Prime*. On this model the pair-wise comparisons were run. The output also allows us to compare the strength of the RT priming effect across the four conditions. * <.05, **<.01, *** <.001.

	RTsLog			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	6.30	6.25 – 6.36	226.55	**<0.001 *** **
prime [experimental]	-0.06	-0.08 – -0.04	-5.50	**<0.001 *** **
condition [SHARED 2FEET]	-0.01	-0.05 – 0.03	-0.49	0.627
condition [ABSENT 1FOOT]	-0.02	-0.06 – 0.02	-0.96	0.335
condition [ABSENT 2FEET]	0.01	-0.03 – 0.05	0.68	0.497
prime [experimental] × condition [SHARED 2FEET]	0.03	0.00 – 0.06	2.23	**0.026 ***
prime [experimental] × condition [ABSENT 1FOOT]	0.01	-0.02 – 0.03	0.47	0.636
prime [experimental] × condition [ABSENT 2FEET]	0.01	-0.02 – 0.04	0.91	0.365
remaining comparisons for priming strength reference level = SHARED 2FEET				
prime [experimental] × condition [ABSENT 1FOOT]	-0.02	-0.05 – 0.00	-1.77	0.078
prime [experimental] × condition [ABSENT 2FEET]	-0.02	-0.05 – 0.01	-1.31	0.192
remaining comparisons for priming strength reference level = ABSENT 1FOOT				
prime [experimental] × condition [ABSENT 2FEET]	-0.02	-0.05 – 0.01	0.44	0.660
	Random Effects			
σ^2		0.03		
$\tau_{00\ item}$		0.00		
$\tau_{00\ subject}$		0.02		
$\tau_{11\ subject.primeexperimental}$		0.00		
$\rho_{01\ subject}$		-0.35		
ICC		0.38		
$N_{subject}$		27		
N_{item}		96		
Observations		4827		
Marginal R^2 / Conditional R^2		0.014 / 0.386		

ERP data model outputs

Models are listed based on the ERP time-window tested, starting with 200-300 post-stimulus onset.

200-300 Time-window

Table 2. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 200-300ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.* * <.05, **<.01, *** <.001.

	EEG			
Predictors	*Estimates*	*CI*	*t-value*	*p*
(Intercept)	1.64	0.06 – 3.22	2.03	**0.042 ***
prime [experimental]	-0.43	-1.52 – 0.66	-0.78	0.437
type [ABSENT]	-1.15	-2.51 – 0.20	-1.67	0.095
feet [2FEET]	-0.62	-1.98 – 0.73	-0.91	0.365
prime [experimental] × type [ABSENT]	2.05	0.51 – 3.58	2.62	**0.009 ****
prime [experimental] × feet [2feet]	1.25	-0.29 – 2.78	1.59	0.111
type [ABSENT] × feet [2FEET]	1.01	-0.88 – 2.91	1.05	0.294
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-1.70	-3.87 – 0.47	-1.53	0.125
Random Effects				
σ^2	96.20			
$\tau_{00\ item}$	1.90			
$\tau_{00\ subject}$	11.33			
$\tau_{11\ subject.primeexperimental}$	0.13			
$\tau_{11\ subject.typeabsent}$	0.36			
$\tau_{11\ subject.foot2feet}$	0.24			
$\rho_{01\ subject.primeexperimental}$	0.64			
$\rho_{01\ subject.typeabsent}$	-0.51			
$\rho_{01\ subject.foot2feet}$	0.24			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.003 / NA			

Table 3. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 200-300ms post-stimulus onset looking at the individual conditions. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-value*	*p*
(Intercept)	1.64	0.08 – 3.19	2.07	**0.039 ***
prime [experimental]	-0.43	-1.52 – 0.66	-0.78	0.438
condition [SHARED 2FEET]	-0.63	-1.97 – 0.71	-0.93	0.354
condition [ABSENT 1FOOT]	-1.15	-2.48 – 0.19	-1.68	0.093
condition [ABSENT 2FEET]	-0.76	-2.10 – 0.57	-1.12	0.263
prime [experimental] × condition [SHARED 2FEET]	1.25	-0.28 – 2.79	1.60	0.110
prime [experimental] × condition [ABSENT 1FOOT]	2.05	0.51 – 3.58	2.62	**0.009 ****

prime [experimental] × condition [ABSENT 2FEET]	1.60	0.06 – 3.13	2.04	**0.042 ***
Random Effects				
σ^2	96.37			
$\tau_{00\ item}$	1.89			
$\tau_{00\ subject}$	10.69			
$\tau_{11\ subject.primeexperimental}$	0.06			
$\rho_{01\ subject}$	1.00			
ICC	0.12			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.003 / 0.125			

Table 4. Model output summary(model) for single-trial ERP data in the anterior-left ROI 200-300ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.*

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	-1.50	-3.21 – 0.21	-1.71	0.087
prime [experimental]	-1.08	-2.15 – -0.01	-1.98	**0.048 ***
type [ABSENT]	-1.41	-2.72 – -0.09	-2.10	**0.036 ***
feet [2FEET]	-0.36	-1.68 – 0.97	-0.53	0.598
prime [experimental] × type [ABSENT]	2.36	0.84 – 3.88	3.05	**0.002 ****
prime [experimental] × foot [2feet]	1.66	0.14 – 3.18	2.14	**0.032 ***
type [ABSENT] × feet [2FEET]	2.03	0.19 – 3.88	2.16	**0.031 ***
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-2.68	-4.83 – -0.53	-2.44	**0.015 ***
Random Effects				
σ^2	94.41			
$\tau_{00\ item}$	1.68			
$\tau_{00\ subject}$	14.66			
$\tau_{11\ subject.primeexperimental}$	0.02			
$\tau_{11\ subject.typeabsent}$	0.27			
$\tau_{11\ subject.foot2feet}$	0.34			
$\rho_{01\ subject.primeexperimental}$	-0.90			
$\rho_{01\ subject.typeabsent}$	0.34			
$\rho_{01\ subject.foot2feet}$	-0.90			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.004 / NA			

Table 5. Model output summary(model) for single-trial ERP data in the anterior-left ROI 200-300ms post-stimulus onset looking at the individual conditions. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	-1.50	-3.16 – 0.16	-1.77	0.077
prime [experimental]	-1.08	-2.15 – -0.01	-1.97	**0.048 ***
condition [SHARED 2FEET]	-0.35	-1.66 – 0.95	-0.53	0.596
condition [ABSENT 1FOOT]	-1.41	-2.71 – -0.10	-2.12	**0.034 ***
condition [ABSENT 2FEET]	0.27	-1.03 – 1.57	0.40	0.687
prime [experimental] × condition [SHARED 2FEET]	1.66	0.13 – 3.18	2.13	**0.033 ***
prime [experimental] × condition [ABSENT 1FOOT]	2.36	0.84 – 3.88	3.04	**0.002 ****
prime [experimental] × condition [ABSENT 2FEET]	1.34	-0.18 – 2.86	1.73	0.083
Random Effects				
σ^2	94.56			
$\tau_{00\ item}$	1.68			
$\tau_{00\ subject}$	13.38			
$\tau_{11\ subject.primeexperimental}$	0.01			
$\rho_{01\ subject}$	-1.00			
ICC	0.13			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.004 / 0.137			

300-400 Time-window

Model output for the EEG ~ Prime * Type * Feet model can be found in the paper's Appendix B for both ROIs.

Table 6. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 300-400ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*Statistic*	*p*
(Intercept)	0.96	-0.88 – 2.79	1.02	0.306
prime [experimental]	-0.11	-1.37 – 1.14	-0.18	0.858
condition [SHARED 2FEET]	-0.07	-1.60 – 1.47	-0.08	0.933
condition [ABSENT 1FOOT]	-1.63	-3.17 – -0.10	-2.08	**0.037 ***
condition [ABSENT 2FEET]	-0.21	-1.75 – 1.32	-0.27	0.788
prime [experimental] × condition [SHARED 2FEET]	0.81	-0.90 – 2.53	0.93	0.354
prime [experimental] × condition [ABSENT 1FOOT]	2.37	0.66 – 4.08	2.71	**0.007 ****

prime [experimental] × condition [ABSENT 2FEET]	0.76	-0.95 – 2.47	0.87	0.385
Random Effects				
σ^2	120.01			
$\tau_{00\ item}$	2.77			
$\tau_{00\ subject}$	15.44			
$\tau_{11\ subject.primeexperimental}$	0.77			
$\rho_{01\ subject}$	0.34			
ICC	0.14			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.003 / 0.144			

Table 7. Model output summary(model) for single-trial ERP data in the left-anterior ROI 300-400ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*Statistic*	*p*
(Intercept)	-3.63	-5.51 – -1.74	-3.77	**<0.001 *** **
prime [experimental]	-1.58	-2.80 – -0.35	-2.52	**0.012 ***
condition [SHARED 2FEET]	-0.35	-1.81 – 1.10	-0.48	0.634
condition [ABSENT 1FOOT]	-1.79	-3.24 – -0.34	-2.42	**0.015 ***
condition [ABSENT 2FEET]	0.35	-1.10 – 1.80	0.48	0.632
prime [experimental] × condition [SHARED 2FEET]	1.48	-0.17 – 3.13	1.75	0.079
prime [experimental] × condition [ABSENT 1FOOT]	2.81	1.17 – 4.46	3.35	**0.001 ** **
prime [experimental] × condition [ABSENT 2FEET]	0.91	-0.74 – 2.56	1.08	0.280
Random Effects				
σ^2	111.23			
$\tau_{00\ item}$	2.31			
$\tau_{00\ subject}$	17.56			
$\tau_{11\ subject.primeexperimental}$	1.07			
$\rho_{01\ subject}$	0.18			
ICC	0.16			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.004 / 0.163			

400-500 Time-window

Table 8. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 400-500ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.*

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	4.54	2.33 – 6.74	4.03	**<0.001 *** **

prime [experimental]	-0.81	-2.23 – 0.61	-1.12	0.264
type [ABSENT]	-1.32	-3.17 – 0.53	-1.40	0.163
feet [2FEET]	-0.04	-1.92 – 1.84	-0.04	0.965
prime [experimental] × type [ABSENT]	2.42	0.51 – 4.32	2.49	**0.013 ***
prime [experimental] × feet [2feet]	1.46	-0.44 – 3.37	1.51	0.132
type [ABSENT] × feet [2FEET]	0.55	-2.05 – 3.15	0.41	0.679
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-1.92	-4.61 – 0.77	-1.40	0.162
Random Effects				
σ^2	147.82			
$\tau_{00\ item}$	4.85			
$\tau_{00\ subject}$	22.44			
$\tau_{11\ subject.primeexperimental}$	1.56			
$\tau_{11\ subject.typeabsent}$	0.46			
$\tau_{11\ subject.foot2feet}$	1.07			
$\rho_{01\ subject.primeexperimental}$	0.29			
$\rho_{01\ subject.typeabsent}$	-0.72			
$\rho_{01\ subject.foot2feet}$	0.24			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.003 / NA			

Table 9. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 400-500ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	4.54	2.36 – 6.71	4.09	**<0.001 *** **
prime [experimental]	-0.81	-2.22 – 0.60	-1.12	0.263
condition [SHARED 2FEET]	-0.06	-1.89 – 1.78	-0.06	0.951
condition [ABSENT 1FOOT]	-1.31	-3.15 – 0.52	-1.40	0.160
condition [ABSENT 2FEET]	-0.81	-2.65 – 1.02	-0.87	0.386
prime [experimental] × condition [SHARED 2FEET]	1.47	-0.44 – 3.38	1.51	0.131
prime [experimental] × condition [ABSENT 1FOOT]	2.42	0.52 – 4.33	2.49	**0.013 ***
prime [experimental] × condition [ABSENT 2FEET]	1.95	0.05 – 3.86	2.01	**0.044 ***
Random Effects				
σ^2	148.27			
$\tau_{00\ item}$	4.84			
$\tau_{00\ subject}$	21.35			
$\tau_{11\ subject.primeexperimental}$	1.29			
$\rho_{01\ subject}$	0.27			
ICC	0.16			
$N_{subject}$	27			

N_{item}	96
Observations	5017
Marginal R^2 / Conditional R^2	0.002 / 0.162

Table 10. Model output summary(model) for single-trial ERP data in the anterior-left ROI 400-500ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.*

	EEG			
Predictors	*Estimates*	*CI*	*t-value*	*p*
(Intercept)	-1.51	-3.61 – 0.59	-1.41	0.159
prime [experimental]	-2.36	-3.67 – -1.05	-3.54	**<0.001 *****
type [ABSENT]	-1.75	-3.42 – -0.08	-2.06	**0.040 ***
feet [2FEET]	-0.47	-2.13 – 1.19	-0.55	0.581
prime [experimental] × type [ABSENT]	3.67	1.88 – 5.45	4.03	**<0.001 *****
prime [experimental] × feet [2feet]	2.35	0.57 – 4.14	2.58	**0.010 ***
type [ABSENT] × feet [2FEET]	2.03	-0.28 – 4.35	1.72	0.085
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-4.14	-6.67 – -1.62	-3.22	**0.001 ****
Random Effects				
σ^2	129.88			
$\tau_{00\ item}$	3.38			
$\tau_{00\ subject}$	21.65			
$\tau_{11\ subject.primeexperimental}$	0.96			
$\tau_{11\ subject.typeabsent}$	0.77			
$\tau_{11\ subject.foot2feet}$	0.52			
$\rho_{01\ subject.primeexperimental}$	0.33			
$\rho_{01\ subject.typeabsent}$	-0.36			
$\rho_{01\ subject.foot2feet}$	-0.33			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.005 / NA			

Table 11. Model output summary(model) for single-trial ERP data in the anterior-left ROI 400-500ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	-1.51	-3.52 – 0.51	-1.47	0.142
prime [experimental]	-2.37	-3.67 – -1.06	-3.56	**<0.001 *****
condition [SHARED 2FEET]	-0.47	-2.11 – 1.17	-0.57	0.572
condition [ABSENT 1FOOT]	-1.74	-3.38 – -0.11	-2.09	**0.036 ***
condition [ABSENT 2FEET]	-0.19	-1.82 – 1.45	-0.23	0.820
prime [experimental] × condition [SHARED 2FEET]	2.36	0.57 – 4.15	2.59	**0.010 ***
prime [experimental] × condition [ABSENT 1FOOT]	3.67	1.88 – 5.45	4.03	**<0.001 *****

prime [experimental] × condition [ABSENT 2FEET]	1.88	0.10 – 3.67	2.07	**0.039 ***
Random Effects				
σ^2	130.25			
$\tau_{00\ item}$	3.37			
$\tau_{00\ subject}$	19.17			
$\tau_{11\ subject.primeexperimental}$	0.81			
$\rho_{01\ subject}$	0.32			
ICC	0.16			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.004 / 0.160			

500-600 Time-window

Table 12. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 500-600ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.*

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	7.87	5.73 – 10.02	7.18	<**0.001 *****
prime [experimental]	-1.05	-2.51 – 0.42	-1.40	0.161
type [ABSENT]	-1.40	-3.27 – 0.46	-1.47	0.141
feet [2FEET]	-0.72	-2.57 – 1.14	-0.76	0.449
prime [experimental] × type [ABSENT]	2.41	0.40 – 4.43	2.35	**0.019 ***
prime [experimental] × feet [2feet]	1.46	-0.56 – 3.48	1.41	0.158
type [ABSENT] × feet [2FEET]	1.15	-1.43 – 3.73	0.87	0.382
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-1.59	-4.44 – 1.27	-1.09	0.277
Random Effects				
σ^2	166.50			
$\tau_{00\ item}$	3.99			
$\tau_{00\ subject}$	20.85			
$\tau_{11\ subject.primeexperimental}$	0.82			
$\tau_{11\ subject.typeabsent}$	1.14			
$\tau_{11\ subject.foot2feet}$	0.85			
$\rho_{01\ subject.primeexperimental}$	0.40			
$\rho_{01\ subject.typeabsent}$	-0.47			
$\rho_{01\ subject.foot2feet}$	0.22			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.002 / NA			

Table 13. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 500-600ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	7.87	5.77 – 9.98	7.34	**<0.001 *** **
prime [experimental]	-1.05	-2.49 – 0.40	-1.42	0.155
condition [SHARED 2FEET]	-0.72	-2.55 – 1.10	-0.78	0.436
condition [ABSENT 1FOOT]	-1.39	-3.21 – 0.43	-1.50	0.133
condition [ABSENT 2FEET]	-0.96	-2.79 – 0.86	-1.04	0.299
prime [experimental] × condition [SHARED 2FEET]	1.47	-0.56 – 3.49	1.42	0.156
prime [experimental] × condition [ABSENT 1FOOT]	2.42	0.40 – 4.44	2.34	**0.019 ***
prime [experimental] × condition [ABSENT 2FEET]	2.29	0.27 – 4.31	2.22	**0.027 ***
Random Effects				
σ^2	167.11			
$\tau_{00\ item}$	3.96			
$\tau_{00\ subject}$	19.47			
$\tau_{11\ subject.primeexperimental}$	0.39			
$\rho_{01\ subject}$	0.56			
ICC	0.13			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.002 / 0.132			

Table 14. Model output summary(model) for single-trial ERP data in the anterior-left ROI 500-600ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.*

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	1.43	-0.73 – 3.58	1.30	0.194
prime [experimental]	-2.35	-3.72 – -0.98	-3.35	**0.001 ****
type [ABSENT]	-1.92	-3.60 – -0.25	-2.25	**0.025 ***
feet [2FEET]	-0.92	-2.57 – 0.73	-1.09	0.275
prime [experimental] × type [ABSENT]	3.32	1.43 – 5.21	3.45	**0.001 ****
prime [experimental] × feet [2feet]	2.08	0.19 – 3.97	2.15	**0.031 ***
type [ABSENT] × feet [2FEET]	2.25	-0.03 – 4.53	1.93	0.054
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-2.87	-5.55 – -0.20	-2.10	**0.035 ***
Random Effects				
σ^2	145.93			
$\tau_{00\ item}$	2.53			
$\tau_{00\ subject}$	23.48			
$\tau_{11\ subject.primeexperimental}$	0.78			
$\tau_{11\ subject.typeabsent}$	1.46			
$\tau_{11\ subject.foot2feet}$	0.76			
$\rho_{01\ subject.primeexperimental}$	0.46			
$\rho_{01\ subject.typeabsent}$	-0.49			

$\rho_{01\ subject.foot2feet}$	-0.03
$N_{subject}$	27
N_{item}	96
Observations	5017
Marginal R^2 / Conditional R^2	0.004 / NA

Table 15. Model output summary(model) for single-trial ERP data in the anterior-left ROI 500-600ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	1.43	-0.63 – 3.48	1.36	0.173
prime [experimental]	-2.35	-3.72 – -0.98	-3.37	**0.001 ****
condition [SHARED 2FEET]	-0.92	-2.54 – 0.69	-1.12	0.263
condition [ABSENT 1FOOT]	-1.91	-3.52 – -0.30	-2.32	**0.020 ***
condition [ABSENT 2FEET]	-0.59	-2.20 – 1.02	-0.72	0.472
prime [experimental] × condition [SHARED 2FEET]	2.08	0.19 – 3.98	2.15	**0.031 ***
prime [experimental] × condition [ABSENT 1FOOT]	3.31	1.42 – 5.21	3.43	**0.001 ****
prime [experimental] × condition [ABSENT 2FEET]	2.53	0.64 – 4.42	2.62	**0.009 ****
Random Effects				
σ^2	146.54			
$\tau_{00\ item}$	2.50			
$\tau_{00\ subject}$	20.54			
$\tau_{11\ subject.primeexperimental}$	0.64			
$\rho_{01\ subject}$	0.49			
ICC	0.15			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.003 / 0.149			

600-700 Time-window

Table 16. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 600-700ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Foot.*

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	6.81	4.93 – 8.70	7.10	**<0.001 *****
prime [experimental]	-0.70	-2.21 – 0.81	-0.91	0.363
type [ABSENT]	-0.84	-2.58 – 0.91	-0.94	0.347
foot [2FEET]	-0.41	-2.18 – 1.35	-0.46	0.645
prime [experimental] × type [ABSENT]	1.72	-0.36 – 3.79	1.62	0.106
prime [experimental] × foot [2feet]	1.22	-0.86 – 3.31	1.15	0.249
type [ABSENT] × foot [2FEET]	1.32	-1.12 – 3.76	1.06	0.288

(prime [experimental] × type [ABSENT]) × foot [2FEET]	-1.40	-4.35 – 1.54	-0.93	0.351
Random Effects				
σ^2	176.77			
$\tau_{00\ item}$	2.48			
$\tau_{00\ subject}$	14.56			
$\tau_{11\ subject.primeexperimental}$	0.92			
$\tau_{11\ subject.typeabsent}$	0.61			
$\tau_{11\ subject.foot2feet}$	0.98			
$\rho_{01\ subject.primeexperimental}$	-0.06			
$\rho_{01\ subject.typeabsent}$	-0.51			
$\rho_{01\ subject.foot2feet}$	0.90			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.002 / NA			

Table 17. Model output summary(model) for single-trial ERP data in the centro-parietal ROI 600-700ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	6.81	4.86 – 8.77	6.84	**<0.001 *****
prime [experimental]	-0.70	-2.21 – 0.81	-0.91	0.363
condition [SHARED 2FEET]	-0.41	-2.14 – 1.31	-0.47	0.638
condition [ABSENT 1FOOT]	-0.84	-2.56 – 0.88	-0.96	0.339
condition [ABSENT 2FEET]	0.07	-1.65 – 1.79	0.08	0.938
prime [experimental] × condition [SHARED 2FEET]	1.23	-0.86 – 3.31	1.16	0.248
prime [experimental] × condition [ABSENT 1FOOT]	1.72	-0.36 – 3.80	1.62	0.105
prime [experimental] × condition [ABSENT 2FEET]	1.54	-0.54 – 3.62	1.45	0.146
Random Effects				
σ^2	177.19			
$\tau_{00\ item}$	2.46			
$\tau_{00\ subject}$	16.45			
$\tau_{11\ subject.primeexperimental}$	0.88			
$\rho_{01\ subject}$	-0.03			
ICC	0.10			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.001 / 0.099			

Table 18. Model output summary(model) for single-trial ERP data in the anterior-left ROI 600-700ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference levels were *control* for the factor *Prime*; SHARED for the factor *Type*; 1FOOT for the factor *Feet.*

	EEG

Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	2.27	0.27 – 4.28	2.22	**0.026 ***
prime [experimental]	-2.00	-3.50 – -0.51	-2.63	**0.009 ****
type [ABSENT]	-1.83	-3.43 – -0.24	-2.25	**0.025 ***
feet [2FEET]	-0.91	-2.51 – 0.69	-1.11	0.267
prime [experimental] × type [ABSENT]	3.00	1.01 – 5.00	2.96	**0.003 ****
prime [experimental] × feet [2feet]	1.77	-0.22 – 3.77	1.74	0.082
type [ABSENT] × feet [2FEET]	2.84	0.61 – 5.07	2.49	**0.013 ***
(prime [experimental] × type [ABSENT]) × feet [2FEET]	-3.22	-6.04 – -0.40	-2.24	**0.025 ***
Random Effects				
σ^2	162.18			
$\tau_{00\ item}$	1.55			
$\tau_{00\ subject}$	19.53			
$\tau_{11\ subject.primeexperimental}$	1.84			
$\tau_{11\ subject.typeabsent}$	0.54			
$\tau_{11\ subject.foot2feet}$	0.48			
$\rho_{01\ subject.primeexperimental}$	-0.01			
$\rho_{01\ subject.typeabsent}$	-0.52			
$\rho_{01\ subject.foot2feet}$	0.56			
ICC	0.12			
$N_{subject}$	27			
N_{item}	96			
Observations	5017			
Marginal R^2 / Conditional R^2	0.003 / 0.122			

Table 19. Model output summary(model) for single-trial ERP data in the left-anterior ROI 600-700ms post-stimulus onset. Square brackets indicate the factor level comparisons. Reference level for the fixed effect *condition* was SHARED 1FOOT; and *control* for the factor prime type. On this model the planned pair-wise comparisons were run.

	EEG			
Predictors	*Estimates*	*CI*	*t-values*	*p*
(Intercept)	2.27	0.27 – 4.28	2.23	**0.026 ***
prime [experimental]	-2.01	-3.50 – -0.51	-2.63	**0.009 ****
condition [SHARED 2FEET]	-0.90	-2.48 – 0.67	-1.12	0.261
condition [ABSENT 1FOOT]	-1.83	-3.41 – -0.26	-2.28	**0.023 ***
condition [ABSENT 2FEET]	0.10	-1.48 – 1.67	0.12	0.903
prime [experimental] × condition [SHARED 2FEET]	1.78	-0.22 – 3.77	1.74	0.081
prime [experimental] × condition [ABSENT 1FOOT]	3.01	1.01 – 5.00	2.96	**0.003 ****
prime [experimental] × condition [ABSENT 2FEET]	1.56	-0.43 – 3.55	1.54	0.124
Random Effects				
σ^2	162.45			
$\tau_{00\ item}$	1.53			
$\tau_{00\ subject}$	19.54			
$\tau_{11\ subject.primeexperimental}$	1.83			

$\rho_{01\ subject}$	-0.04
ICC	0.12
$N_{subject}$	27
N_{item}	96
Observations	5017
Marginal R^2 / Conditional R^2	0.003 / 0.121