

Supplementary Materials

Linear Mixed-Effects Models

SM 1. Linear Mixed-Effects Model on All Participants' Log-Transformed Latencies, Morphological Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.598	0.022	-27.263	<.001
Prime Type (Identity Condition)	-0.010	0.006	-1.627	>.1
Prime Type (Unrelated Condition)	0.064	0.006	10.579	<.001
Target Type	-0.005	0.021	< 1	>.1
Group	0.184	0.041	4.476	<.001
Prime Type (Identity Condition) × Target Type	0.011	0.022	< 1	>.1
Prime Type (Unrelated Condition) × Target Type	0.015	0.022	< 1	>.1
Prime Type (Identity Condition) × Group	0.012	0.012	< 1	>.1
Prime Type (Unrelated Condition) × Group	-0.012	0.012	< 1	>.1
Target Type × Group	0.026	0.017	1.533	>.1
Prime Type (Identity Condition) × Target Type × Group	0.028	0.024	1.178	>.1
Prime Type (Unrelated Condition) × Target Type × Group	0.002	0.024	< 1	>.1
Prime Frequency	-0.004	0.003	-1.394	>.1
Target Frequency	-0.005	0.004	-1.331	>.1

Note. *df* = 2748; α = .05

SM 2. Linear Mixed-Effects Model on L2 Learners' Log-Transformed Latencies, Morphological Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.498	0.031	-15.899	<.001
Prime Type (Identity Condition)	-0.003	0.009	< 1	>.1
Prime Type (Unrelated Condition)	0.057	0.009	6.499	<.001
Target Type	0.003	0.029	< 1	>.1
Proficiency	-0.013	0.004	-2.845	<.005
Prime Type (Identity Condition) × Target Type	0.010	0.032	< 1	>.1
Prime Type (Unrelated Condition) × Target Type	0.001	0.032	< 1	>.1
Prime Type (Identity Condition) × Proficiency	0.001	0.001	1.122	>.1
Prime Type (Unrelated Condition) × Proficiency	0.003	0.001	2.394	<.017
Target Type × Proficiency	-0.000	0.002	< 1	>.1
Prime Type (Identity Condition) × Target Type × Proficiency	0.002	0.003	< 1	>.1
Prime Type (Unrelated Condition) × Target Type × Proficiency	-0.002	0.003	< 1	>.1
Prime Frequency	-0.006	0.004	-1.535	>.1
Target Frequency	-0.009	0.005	-1.679	<.094

Note. *df* = 1370; α = .05

SM 3. Linear Mixed-Effects Model on All Participants' Log-Transformed Latencies,
Orthographic Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.558	0.022	-25.395	<.001
Prime Type (Identity Condition)	-0.054	0.006	-8.733	<.001
Prime Type (Unrelated Condition)	0.022	0.006	3.533	<.001
Target Type	0.024	0.016	1.456	>.1
Group	0.168	0.041	4.063	<.001
Prime Type (Identity Condition) × Target Type	-0.011	0.012	< 1	>.1
Prime Type (Unrelated Condition) × Target Type	-0.006	0.012	< 1	>.1
Prime Type (Identity Condition) × Group	0.027	0.012	2.268	<.023
Prime Type (Unrelated Condition) × Group	0.005	0.012	< 1	>.1
Target Type × Group	0.022	0.017	1.313	>.1
Prime Type (Identity Condition) × Target Type × Group	0.031	0.023	1.320	>.1
Prime Type (Unrelated Condition) × Target Type × Group	0.004	0.024	< 1	>.1
Prime Frequency	0.000	0.002	< 1	>.1
Target Frequency	-0.007	0.004	-1.659	<.097

Note. *df* = 2740; α = .05

SM 4. Linear Mixed-Effects Model on Native Speakers' Log-Transformed Latencies,
Orthographic Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.644	0.026	-24.346	<.001
Prime Type (Identity Condition)	-0.068	0.008	-8.082	<.001
Prime Type (Unrelated Condition)	0.019	0.008	2.268	<.024
Target Type	0.017	0.020	< 1	>.1
Prime Type (Identity Condition) × Target Type	-0.028	0.017	-1.688	<.092
Prime Type (Unrelated Condition) × Target Type	-0.008	0.016	< 1	>.1
Prime Frequency	0.001	0.003	< 1	>.1
Target Frequency	-0.006	0.005	-1.253	>.1

Note. *df* = 1365; α = .05

SM 5. Linear Mixed-Effects Model on L2 Learners' Log-Transformed Latencies, Orthographic Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.472	0.032	-14.707	<.001
Prime Type (Identity Condition)	-0.040	0.009	-4.483	<.001
Prime Type (Unrelated Condition)	0.023	0.009	2.261	<.024
Target Type	0.031	0.022	1.379	>.1
Proficiency	-0.010	0.005	-2.144	<.032
Prime Type (Identity Condition) × Target Type	0.006	0.018	< 1	>.1
Prime Type (Unrelated Condition) × Target Type	-0.004	0.018	< 1	>.1
Prime Type (Identity Condition) × Proficiency	-0.002	0.001	-1.171	>.1
Prime Type (Unrelated Condition) × Proficiency	0.000	0.001	< 1	>.1
Target Type × Proficiency	0.001	0.002	< 1	>.1
Prime Type (Identity Condition) × Target Type × Proficiency	0.000	0.003	< 1	>.1
Prime Type (Unrelated Condition) × Target Type × Proficiency	-0.003	0.003	-1.350	>.1
Prime Frequency	0.000	0.003	< 1	>.1
Target Frequency	-0.007	0.005	-1.381	>.1

Note. *df* = 1368; α = .05

SM 6. Linear Mixed-Effects Model on All Participants' Log-Transformed Latencies, Morphological vs. Orthographic Conditions

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.601	.021	-28.230	<.001
Condition	0.044	.006	6.903	<.001
Group	0.183	.041	4.410	<.001
Condition × Group	-0.014	.012	-1.143	>.1
Prime Frequency	-0.001	.002	< 1	>.1
Target Frequency	-0.006	.002	-4.004	<.001

Note. *df* = 1819; α = .05

SM 7. Linear Mixed-Effects Model on All Participants' Log-Transformed Latencies, Semantic Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.533	0.022	-24.662	<.001
Prime Type (Identity Condition)	-0.068	0.006	-11.119	<.001
Prime Type (Unrelated Condition)	0.005	0.006	< 1	>.1
Target Type	0.009	0.017	< 1	>.1
Group	0.180	0.04	4.466	<.001
Prime Type (Identity Condition) × Target Type	-0.018	0.012	-1.459	>.1
Prime Type (Unrelated Condition) × Target Type	-0.014	0.012	-1.183	>.1
Prime Type (Identity Condition) × Group	0.015	0.012	< 1	>.1
Prime Type (Unrelated Condition) × Group	-0.008	0.012	< 1	>.1
Target Type × Group	0.010	0.017	< 1	>.1
Prime Type (Identity Condition) × Target Type × Group	0.046	0.023	1.949	<.051
Prime Type (Unrelated Condition) × Target Type × Group	0.016	0.023	< 1	>.1
Prime Frequency	-0.004	0.002	-1.965	<.049
Target Frequency	-0.009	0.004	-2.186	<.028

Note. *df* = 2722; α = .05

SM 8. Linear Mixed-Effects Model on Native Speakers' Log-Transformed Latencies, Semantic Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.627	0.026	-24.590	<.001
Prime Type (Identity Condition)	-0.077	0.008	-9.483	<.001
Prime Type (Unrelated Condition)	0.009	0.008	1.071	>.1
Target Type	0.013	0.020	< 1	>.1
Prime Type (Identity Condition) × Target Type	-0.040	0.016	-2.478	<.013
Prime Type (Unrelated Condition) × Target Type	-0.019	0.016	-1.228	>.1
Prime Frequency	-0.002	0.003	< 1	>.1
Target Frequency	-0.007	0.005	-1.587	>.1

Note. *df* = 1354; α = .05

SM 9. Linear Mixed-Effects Models on Native Speakers' Log-Transformed Latencies for Stem and Inflected Targets, Semantic Condition

Target Type	Variable	Estimate	SE	<i>t</i>	<i>p</i>
Stem	(Intercept)	-0.633	0.033	-18.913	<.001
	Prime Type (Identity Condition)	-0.056	0.012	-4.817	<.001
	Prime Type (Unrelated Condition)	0.019	0.011	1.728	<.090
	Prime Frequency	-0.004	0.003	-1.045	>.1
	Target Frequency	-0.007	0.007	-1.037	>.1
Inflected	(Intercept)	-0.618	0.026	-23.886	<.001
	Prime Type (Identity Condition)	-0.097	0.012	-8.358	<.001
	Prime Type (Unrelated Condition)	-0.002	0.011	< 1	>.1
	Prime Frequency	-0.002	0.004	< 1	>.1
	Target Frequency	-0.002	0.006	< 1	>.1

Note. *df* for stem target model = 674; *df* for inflected target model = 679; $\alpha = .05$

SM 10. Linear Mixed-Effects Model on L2 Learners' Log-Transformed Latencies, Semantic Condition

Variable	Estimate	SE	<i>t</i>	<i>p</i>
(Intercept)	-0.441	0.032	-13.887	<.001
Prime Type (Identity Condition)	-0.059	0.009	-6.494	<.001
Prime Type (Unrelated Condition)	0.003	0.009	< 1	>.1
Target Type	0.009	0.022	< 1	>.1
Proficiency	-0.010	0.004	-2.211	<.027
Prime Type (Identity Condition) × Target Type	0.002	0.018	< 1	>.1
Prime Type (Unrelated Condition) × Target Type	-0.009	0.018	< 1	>.1
Prime Type (Identity Condition) × Proficiency	-0.001	0.001	< 1	>.1
Prime Type (Unrelated Condition) × Proficiency	0.000	0.001	< 1	>.1
Target Type × Proficiency	0.000	0.002	< 1	>.1
Prime Type (Identity Condition) × Target Type × Proficiency	0.001	0.003	< 1	>.1
Prime Type (Unrelated Condition) × Target Type × Proficiency	-0.003	0.003	-1.070	>.1
Prime Frequency	-0.006	0.003	-1.933	<.053
Target Frequency	-0.009	0.005	-1.779	<.076

Note. *df* = 1361; $\alpha = .05$