

Table S6: Linear mixed effects regression tree results modeling EEG power dynamics (in dB) in individually defined alpha frequency bands. Splits and predicted power time courses are shown in Fig S5. (Underlying data, scripts and models are available from <https://osf.io/uhtcn/>)

Alpha-band power dynamics, 0–800 ms relative to picture onset		dependent variable: dB	
		Estimate	Standard error
Global			
	Intercept	−0.236	0.076
	Speech Onset (standardized)	0.009	0.008
	Speech Onset × Time ¹	0.022	0.020
	Speech Onset × Time ²	−0.028	0.021
	Speech Onset × Time ³	−0.009	0.021
	Speech Onset × Time ⁴	0.024	0.022
	Agent NP Length (standardized)	−0.014	0.008
	Agent NP Length × Time ¹	0.000	0.019
	Agent NP Length × Time ²	−0.047	0.022
	Agent NP Length × Time ³	0.082	0.022
	Agent NP Length × Time ⁴	0.014	0.022
	Trial Number (standardized)	0.017	0.006
	Trial Number × Time ¹	−0.012	0.017
	Trial Number × Time ²	−0.021	0.017
	Trial Number × Time ³	−0.020	0.017
	Trial Number × Time ⁴	0.005	0.017
	Number of Fixations (standardized)	0.013	0.007
	Number of Fixations × Time ¹	−0.032	0.019
	Number of Fixations × Time ²	0.032	0.019
	Number of Fixations × Time ³	−0.036	0.019
	Number of Fixations × Time ⁴	−0.060	0.019
	Agent Codability (<i>H</i> standardized)	0.008	0.023
	Verb Codability (<i>H</i> standardized)	−0.003	0.023
	Agent Humanness (= non-human)	> −0.001	0.030
	dB at Lag = 1 (centered)	0.595	0.002
Tree-tip specific			
Frontal,	Time ¹	−0.423	0.103
unmarked	Time ²	0.211	0.087
	Time ³	0.356	0.089
	Time ⁴	−0.635	0.111

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Frontal, marked	Intercept	0.029	0.030
	Time ¹	-0.288	0.119
	Time ²	0.107	0.108
	Time ³	0.179	0.110
	Time ⁴	-0.635	0.111
Central, unmarked	Intercept	-0.060	0.015
	Time ¹	-0.687	0.103
	Time ²	0.225	0.087
	Time ³	0.423	0.089
	Time ⁴	-0.383	0.090
Posterior, unmarked, transitive	Intercept	-0.014	0.024
	Time ¹	-0.795	0.115
	Time ²	0.229	0.102
	Time ³	0.645	0.104
	Time ⁴	-0.599	0.105
Posterior, unmarked, intransitive	Intercept	-0.081	0.017
	Time ¹	-0.932	0.105
	Time ²	0.134	0.091
	Time ³	0.639	0.093
	Time ⁴	-0.454	0.094
Posterior, marked	Intercept	0.024	0.026
	Time ¹	-0.641	0.110
	Time ²	0.200	0.099
	Time ³	0.324	0.101
	Time ⁴	-0.570	0.102