

Table S5: Linear mixed effects regression tree results modeling EEG power dynamics (in dB) in individually defined theta frequency bands. Splits and predicted power time courses are shown in Fig S4. Underlying data, scripts and models are available from <https://osf.io/uhtcn/>.

Theta-band power dynamics, 0–800 ms relative to picture onset			
		dependent variable: dB	
		Estimate	Standard error
Global			
	Intercept	0.711	0.049
	Speech Onset (standardized)	−0.010	0.007
	Speech Onset × Time ¹	0.010	0.020
	Speech Onset × Time ²	−0.017	0.020
	Speech Onset × Time ³	−0.056	0.020
	Speech Onset × Time ⁴	0.035	0.020
	Agent NP Length (standardized)	−0.009	0.007
	Agent NP Length × Time ¹	0.013	0.020
	Agent NP Length × Time ²	−0.011	0.020
	Agent NP Length × Time ³	0.099	0.020
	Agent NP Length × Time ⁴	0.033	0.020
	Trial Number (standardized)	0.025	0.005
	Trial Number × Time ¹	−0.010	0.016
	Trial Number × Time ²	−0.033	0.016
	Trial Number × Time ³	0.029	0.016
	Trial Number × Time ⁴	0.049	0.016
	Number of Fixations (standardized)	−0.012	0.006
	Number of Fixations × Time ¹	0.037	0.018
	Number of Fixations × Time ²	−0.005	0.018
	Number of Fixations × Time ³	−0.017	0.018
	Number of Fixations × Time ⁴	0.083	0.018
	Agent Codability (<i>H</i> standardized)	< 0.001	0.019
	Verb Codability (<i>H</i> standardized)	0.009	0.019
	Agent Humanness (= non-human)	−0.025	0.025
	dB at Lag = 1 (centered)	0.771	0.001
Tree-tip specific			
Frontal &	Time ¹	−0.572	0.133
left-mid central,	Time ²	0.109	0.105
aligned	Time ³	0.448	0.117
	Time ⁴	−0.368	0.123

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Frontal &	Intercept	-0.075	0.056
left-mid central,	Time ¹	-0.432	0.136
non-aligned,	Time ²	0.074	0.109
intransitive	Time ³	0.285	0.121
	Time ⁴	-0.069	0.127
Frontal &	Intercept	-0.160	0.057
left-mid central,	Time ¹	-0.434	0.139
non-aligned,	Time ²	0.111	0.112
transitive	Time ³	0.366	0.124
	Time ⁴	-0.214	0.129
Posterior &	Intercept	0.079	0.018
right central,	Time ¹	-0.751	0.137
aligned,	Time ²	0.204	0.110
intransitive	Time ³	0.772	0.122
	Time ⁴	-0.663	0.128
Posterior &	Intercept	0.084	0.019
right central,	Time ¹	-0.930	0.139
aligned,	Time ²	0.132	0.112
transitive	Time ³	0.601	0.124
	Time ⁴	-0.581	0.130
Right central,	Intercept	-0.072	0.059
non-aligned	Time ¹	-0.679	0.146
	Time ²	0.131	0.121
	Time ³	0.496	0.131
	Time ⁴	-0.374	0.137
Posterior,	Intercept	0.056	0.056
non-aligned	Time ¹	-0.831	0.135
	Time ²	0.321	0.108
	Time ³	0.507	0.120
	Time ⁴	-0.473	0.125