

Supplemental materials

This supplement provides an acoustic analysis of sample stimuli. Acoustic analyses were conducted using Praat software [1].

Fundamental frequency (F0, the acoustic correlate of pitch) was measured using Praat's autocorrelation algorithm. Acoustic measurements were conducted on the entire utterance ("This one is *pseudoword*") as well as on the word itself. Note that as different words were used for different antonym pairs (e.g. *vorg* for the up/ down contrast, and *stengo* for the hard/ soft contrast), utterance duration can be compared within each antonym pair but not across antonym pairs.

[1] Boersma, P., & Weenink, D. (2009) Praat: doing phonetics by computer (version 5.1.43). Available: <http://www.praat.org>.

PROSODY AND MEMORY FOR NOVEL WORDS

Table 1: Acoustic measurements for the entire utterance

Antonym pair	First antonym (high pole)			Second antonym (low pole)			Difference		
	F0 (Hz.)	Amplitude (dB.)	Duration (ms.)	F0 (Hz.)	Amplitude (dB.)	Duration (ms.)	Fo	Amp.	Dur.
Verticality-related contrasts									
Up/ Down	275.26	75.93	1158	210.05	71.97	1574	65.21	3.96	-416
High/ Low	258.42	75.22	1042	207.41	72.29	1261	51.01	2.93	-219
Speed-related contrasts									
Fast/ Slow	333.13	75.37	932	192.63	71.4	1693	140.5	3.97	-761
Alert/ Sleepy	243.35	75.74	953	165.13	68.26	1579	78.22	7.48	-626
Texture & brightness contrasts									
Bright/ Dark	285.86	78.5	1211	174.54	73.06	1808	111.32	5.44	-597
Hard/ Soft	210.07	74.43	1098	172.58	69.81	1615	37.49	4.62	-517
Sharp/ Blunt	299.15	77.13	911	217.68	73.09	1470	81.47	4.04	-559

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Table 2: Acoustic measurements for the novel pseudowords (i.e. the final word in the utterance)

Antonym pair	First antonym (high pole)			Second antonym (low pole)			Difference		
	F0	Amplitude	Duration	F0	Amplitude	Duration	F0	Amp.	Dur.
	(Hz.)	(dB.)	(ms.)	(Hz.)	(dB.)	(ms.)			
Verticality-related contrasts									
Up/ Down	320.72	77.32	582	175.90	71.1	807	144.82	6.22	-225
High/ Low	248.34	74.76	601	186.48	68.08	650	61.86	6.68	-49
Speed-related contrasts									
Fast/ Slow	357.40	74.76	514	150.04	68.66	797	207.36	6.1	-283
Alert/ Sleepy	224.46	76.19	466	131.75	68.17	688	92.71	8.02	-222
Texture & brightness contrasts									
Bright/ Dark	286.30	78.87	725	179.78	73.17	1076	106.52	5.7	-351
Hard/ Soft	194.81	72.86	738	156.12	68.18	954	38.69	4.68	-216
Sharp/ Blunt	295.43	76.12	480	243.62	71.52	676	51.81	4.6	-196