

Supplementary Materials
For
Socialness Effects in Lexical-Semantic Processing

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Table S1. Descriptive statistics for the two predictors of interest (socialness and concreteness) only for the words analyzed in the case of each behavioral dataset in Study 1. Socialness scores can range from 1 to 7, whereas concreteness scores can range from 1 to 5.

Dataset	Socialness		Concreteness	
	Mean	SD	Mean	SD
LDT Visual	3.63	1.24	3.14	0.97
LDT Auditory	3.65	1.26	3.13	0.98
SDT Concrete	3.14	1.37	4.35	0.43
SDT Abstract	4.02	0.96	2.04	0.28
RMT	3.55	1.23	3.16	0.94

Note. SD = standard deviation; LDT = lexical decision task; SDT = semantic decision task; RMT = recognition memory task.

Table S2. Summary of the statistical results of each behavioral dataset analyzed in Study 1.

Task	Predictor	β	SE	sr^2	β	SE	sr^2	β	SE	sr^2
		zRT			Accuracy			RT - Duration		
LDT Auditory (UK Accent)	Phoneme No.	0.07	0.013	0.004***	-0.03	0.004	0.01***	-0.11	0.014	0.009***
	Frequency	-0.07	0.007	0.018***	-0.02	0.002	0.022***	-0.04	0.008	0.004***
	PLD	0.06	0.011	0.005***	0	0.003	0	-0.15	0.012	0.024***
	Uniqueness Point	-0.01	0.007	0	-0.01	0.002	0.006***	-0.03	0.008	0.002***
	Age of Acquisition	0.03	0.008	0.003***	0.02	0.002	0.013***	0.03	0.008	0.001**
	Valence Extremity	-0.03	0.006	0.004***	0	0.002	0.001**	-0.02	0.006	0.002***
	Concreteness	0.01	0.006	0	0.02	0.002	0.018***	0.07	0.007	0.016***
	Socialness	-0.01	0.006	0.001*	0	0.002	0	-0.02	0.007	0.001*
	Socialness*Concreteness	0.01	0.006	0	0	0.002	0	0.01	0.006	0.001*
LDT Auditory	Phoneme No.	0.06	0.011	0.005***	-0.02	0.003	0.007***	-0.1	0.012	0.009***

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(US Accent)	Frequency	-0.07	0.006	0.021***	-0.02	0.002	0.019***	-0.04	0.007	0.004***
	PLD	0.06	0.01	0.006***	0	0.003	0	-0.16	0.01	0.031***
	Uniqueness Point	-0.01	0.006	0	-0.01	0.002	0.007***	-0.02	0.007	0.001**
	Age of Acquisition	0.03	0.007	0.004***	0.02	0.002	0.017***	0.04	0.007	0.005***
	Valence Extremity	-0.02	0.005	0.004***	0	0.001	0.001.	-0.03	0.005	0.003***
	Concreteness	0.02	0.005	0.001**	0.01	0.002	0.016***	0.06	0.006	0.013***
	Socialness	-0.02	0.005	0.002**	0	0.002	0.001*	-0.03	0.006	0.003***
	Socialness*Concreteness	0	0.005	0	0	0.001	0	0.01	0.005	0.
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LDT Auditory	Phoneme No.	0.12	0.012	0.016***	-0.02	0.004	0.009***	-0.24	0.011	0.051***
(Singapore Accent)	Frequency	-0.07	0.006	0.016***	-0.02	0.002	0.014***	-0.03	0.006	0.003***
	PLD	0.04	0.01	0.003***	0	0.003	0	-0.07	0.01	0.006***
	Uniqueness Point	-0.03	0.006	0.003***	-0.01	0.002	0.008***	0	0.006	0
	Age of Acquisition	0.04	0.007	0.006***	0.02	0.002	0.016***	0.03	0.006	0.003***

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	Valence Extremity	-0.01	0.005	0.001**	0	0.001	0.002**	-0.03	0.005	0.005***
	Concreteness	0.02	0.005	0.003***	0.02	0.002	0.018***	0.06	0.005	0.015***
	Socialness	-0.02	0.005	0.002**	0	0.002	0	-0.02	0.005	0.002***
	Socialness*Concreteness	0.01	0.005	0.	0	0.001	0	0.01	0.005	0.001**
LDT Visual	Length	0.04	0.005	0.004***	-0.04	0.002	0.043***			
	Frequency	-0.1	0.003	0.056***	-0.02	0.001	0.032***			
	OLD	0.07	0.005	0.014***	0.02	0.002	0.009***			
	Age of Acquisition	0.09	0.003	0.044***	0.03	0.001	0.054***			
	Valence Extremity	0	0.003	0.	0	0.001	0			
	Concreteness	0.01	0.003	0*	0	0.001	0.001**			
	Socialness	-0.01	0.003	0.001***	0	0.001	0.001***			
	Socialness*Concreteness	0	0.003	0	0	0.001	0			
SDT Concrete	Length	0.13	0.013	0.022***	0.03	0.005	0.009***			

	Frequency	-0.04	0.008	0.004***	0	0.003	0
	OLD	-0.11	0.013	0.014***	-0.03	0.005	0.013***
	Age of Acquisition	0.12	0.008	0.053***	0.02	0.003	0.015***
	Valence Extremity	0.01	0.007	0.001.	0	0.002	0
	Concreteness	-0.21	0.007	0.166***	-0.07	0.003	0.188***
	Socialness	-0.06	0.007	0.014***	-0.01	0.003	0.008***
	Socialness*Concreteness	0.01	0.007	0.001*	0	0.002	0
SDT Abstract	Length	-0.02	0.012	0.001.	-0.04	0.005	0.023***
	Frequency	-0.06	0.008	0.017***	-0.01	0.003	0.001
	OLD	0.04	0.012	0.003**	0.02	0.005	0.005***
	Age of Acquisition	0.04	0.008	0.01***	0	0.003	0.001
	Valence Extremity	-0.04	0.007	0.013***	-0.01	0.003	0.008***
	Concreteness	0.09	0.006	0.071***	0.05	0.003	0.101***

	Socialness	0	0.007	0	0	0.003	0.001.			
	Socialness*Concreteness	0	0.006	0	0	0.003	0			
		Hits			False Alarms			Hits – False Alarms		
RMT	Length	-0.02	0.003	0.009***	0.05	0.003	0.08***	-0.06	0.004	0.079***
	Frequency	-0.04	0.002	0.072***	0	0.003	0	-0.04	0.003	0.034***
	OLD	0.01	0.003	0.004***	-0.05	0.003	0.075***	0.06	0.004	0.062***
	Age of Acquisition	0.01	0.002	0.01***	0	0.003	0	0.01	0.003	0.004***
	Valence Extremity	0.01	0.002	0.012***	-0.01	0.002	0.005***	0.02	0.002	0.017***
	Concreteness	0.03	0.002	0.067***	-0.02	0.002	0.028***	0.05	0.003	0.096***
	Socialness	0.01	0.002	0.004***	0	0.002	0	0	0.003	0.001.
	Socialness*Concreteness	0	0.002	0.003**	0	0.002	0	0	0.002	0.001*

Note. LDT = lexical decision task; SDT = semantic decision task; RMT = recognition memory task; β = unstandardized regression weights; SE = standard error of the regression weights; sr2 = semi-partial correlation squared; zRTs = standardized reaction times; $p < .1$; * $p < .05$; ** $p < .01$; *** $p < .001$.

Table S3. Study 3 LMM estimating the effect of part of speech on socialness values, while controlling for concreteness scores:

Socialness $\sim 1 + \text{Part of Speech} + \text{Concreteness}$ ($N = 6451$). See Figure S1 for an illustration of the estimated marginal means.

Predictors	β	CI	t	p
(Intercept)	5.23	5.13 – 5.34	97.16	<0.001
Part of Speech	-0.23	-0.30 – -0.15	-5.81	<0.001
Concreteness	-0.50	-0.53 – -0.46	-30.50	<0.001
R ² / R ² adjusted		0.127 / 0.127		

Note. CI = confidence interval of the beta estimate

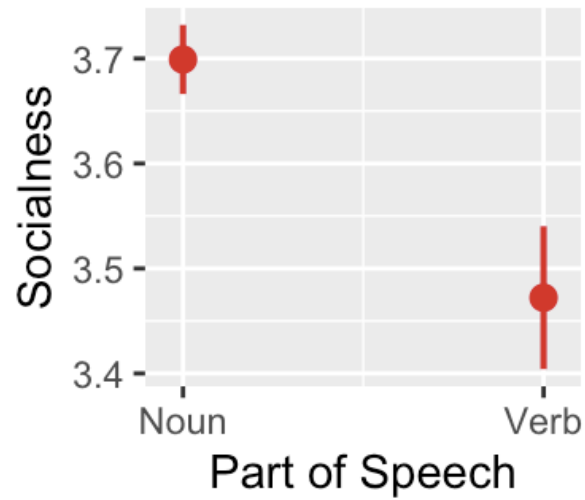


Figure S1. Study 3: estimated marginal means of the LMM model: $\text{Socialness} \sim 1 + \text{Part of Speech} + \text{Concreteness}$. These represent the predicted mean socialness scores (and 95% confidence intervals) for nouns vs verbs, holding concreteness constant. See Table S3 for the summary statistics.