

Appendix S1: Stimuli

Test stimuli for the lexical decision task¹

List A		List B		List C		List D	
words	nonwords	words	nonwords	words	nonwords	words	nonwords
action	hugly	ugly	haction	account	hempty	empty	haccount
aftershave	halmond	almond	haftershave	acting	hevening	evening	hacting
editor	hillness	illness	heditor	adult	hending	ending	hadult
elephant	hecho	echo	helephant	angel	holive	olive	hangel
enter	hoil	oil	henter	apple	hobject	object	happle
epic	halarming	alarming	hepic	approach	hiron	iron	happroach
obvious	hamusing	amusing	hobvious	elbow	hemancipate	emancipate	helbow
onion	hicon	icon	honion	idol	heagle	eagle	hidol
open	hafternoon	afternoon	hopen	office	hofficer	officer	hoffice
unwilling	heasy	easy	hunwilling	outstanding	henvious	envious	houtstanding
handshake	ydrogen	hydrogen	andshake	hacker	alftime	halftime	acker
happy	andle	handle	appy	haircut	unter	hunter	aircut
hardworking	eadphones	headphones	ardworking	hallucinate	eaven	heaven	allucinate
headache	elpful	helpful	eadache	hamburger	ighway	highway	amburger
helmet	ockey	hockey	elmet	happen	ospital	hospital	appen
holiday	ealthy	healthy	oliday	hiking	eavy	heavy	iking
homework	oney	honey	omework	hobby	usband	husband	obby
horizon	opeful	hopeful	orizon	hungry	undred	hundred	ungry
horse	oly	holy	orse	hurricane	ousekeeper	housekeeper	urricane
hybrid	ateful	hateful	ybrid	hurry	istory	history	urry

¹ Note that the nonwords in Lists A and C are derived from the real words in lists B and D, respectively, and vice versa.

Control stimuli for the lexical decision task²

List A		List B		List C		List D	
words	nonwords	words	nonwords	words	nonwords	words	nonwords
abandon	occent	accent	ablondon	ability	ouctive	active	abinlity
accord	raccess	access	acclord	achieve	afaid	afraid	lachieve
acoustic	advoontage	advantage	ackistic	actual	oige	age	ictual
adapter	advase	advise	adipter	adjective	oogency	agency	tadjective
ankle	pallergy	allergy	sankle	adventure	balcohol	alcohol	advinture
answer	lanecient	ancient	ounswer	alive	rartificial	artificial	alouve
anxiety	anismal	animal	fanxiety	asleep	ooverage	average	asloop
attraction	battage	baggage	attrashion	authority	ontract	contract	authearity
award	borling	boring	paward	beach	electical	electrical	beaje
calling	boyriend	boyfriend	cawjing	birthday	tenergy	energy	birthfay
camera	kindy	candy	cafera	borrow	exoct	exact	bollow
cherry	chooken	chicken	cheddy	breakfast	mexperience	experience	breaklast
connection	kever	clever	conooction	bubble	incompootible	incompatible	buzzle
courageous	coggy	coffee	courogeous	casual	innoslent	innocent	catual
darling	dompany	company	darbing	challenge	lintuition	intuition	chaffenge
demon	compelition	competition	deton	charming	invontion	invention	charzing
different	comesy	cosy	rifferent	citizen	invosible	invisible	bitizen
dinner	cuffle	couple	ditter	city	invoot	invite	ciggy
doorway	diricult	difficult	orway	close	malnage	manage	clope
dynamic	elegrance	elegance	dynoomic	comedian	meslody	melody	copedian
effect	elessent	element	effaut	comment	mebber	member	coppent

² Note that the nonwords in Lists A and C are derived from the real words in lists B and D, respectively, and vice versa.

effort	emation	emotion	ellort	delete	odern	modern	degete
entrance	oxit	exit	ountrance	dental	offner	offer	ental
expert	fadous	famous	exnert	destination	organooze	organize	festination
explorer	fonish	finish	exporer	detail	voutside	outside	degail
feeling	filness	fitness	feebing	digest	parzing	parking	dimest
friendship	unny	funny	friendzip	discount	passnord	password	iscount
greatness	improssive	impressive	greatfess	doctor	peame	peace	doftor
image	inluence	influence	oomage	drive	pifot	pilot	dripe
impact	oonstant	instant	limpact	economy	thlane	plane	ecornomy
index	anteresting	interesting	findex	essential	pomution	pollution	essintial
learner	invet	invest	learter	event	prezict	predict	elent
leather	lapy	lady	jether	example	shretty	pretty	examle
lighter	loonguage	language	liser	exciting	priloner	prisoner	exceiting
mailbox	emon	lemon	gailbox	explosion	proless	process	exposion
notebook	kipstick	lipstick	notefook	farmer	product	product	farber
option	luffy	lucky	iption	game	prokessional	professional	gabe
orange	mepory	memory	thorange	glasses	protile	profile	glarses
perfect	middor	mirror	perject	iceberg	progress	progress	diceberg
pocket	montey	monkey	ponnet	ignorant	romise	promise	agnorant
present	moopie	movie	prejent	important	rotection	protection	limportant
question	mytery	mystery	dwestion	impossible	rotest	protest	rimpossible
ready	occosion	occasion	reassy	industry	raify	rainy	andustry
reply	focean	ocean	resly	jacket	sapid	rapid	jasset
rising	joperation	operation	ising	knowledge	omantic	romantic	knowfedge
shipping	vowner	owner	shimming	labour	scibbors	scissors	lanour

silent	potular	popular	saiflent	leader	screal	scream	leaber
sister	gower	power	sickter	level	tecond	second	lenvel
snowstorm	sadvess	sadness	snowsorm	lunch	sebection	selection	lunf
spicy	sanlich	sandwich	picy	midnight	sholling	shopping	midpight
splendid	berious	serious	plendid	model	sleen	sleep	odel
story	serpice	service	stoby	moment	smipe	smile	mopent
stupid	sheedow	shadow	tupid	number	stame	state	nubber
sunset	moker	smoker	sunfet	opposite	strawlerry	strawberry	ipposite
table	somial	social	tafle	pancake	suppen	sudden	ancake
teabag	ociety	society	teanag	plastic	suttary	summary	plattic
tomato	spooical	special	omato	silver	teabime	teatime	ilver
update	stydish	stylish	upsate	skateboard	thirspy	thirsty	kateboard
victory	surder	surfer	vicory	summer	trappic	traffic	gummer
wallet	tavel	travel	waplet	tower	whike	white	mower

Training stimuli

/h/-initial	Vowel-initial	/h/-initial	Vowel-initial	/h/-initial	Vowel-initial
hackney	acne	harmless	armless	Hester	Ester
had	add	harrow	arrow	high	eye
Hadrian	Adrian	hash	ash	highland	island
haft	aft	hat	at	highlander	islander
hail	ale	hate	eight	hill	ill
hair	air	hawk	auk	hit	it
hairless	airless	heady	eddy	hoar	ore
hairline	airline	hearing	earring	hoarder	order
hairy	airy	heart	art	hod	odd
hake	ache	heartiness	artiness	hoe	owe
hall	all	heartless	artless	hold	old
hallow	aloe	hearty	arty	holder	older
halter	alter	heat	eat	hone	own
hand	and	heater	eater	honed	owned
handy	Andy	heating	eating	honing	owning
hanger	anger	heave	eve	hosier	osier
Hannah	Anna	hedge	edge	host	oast
harm	arm	heel	eel	how	ow
harmful	armful	Helen	Ellen	howl	owl
harming	arming	helm	elm		

Stimuli for the nonword identification task

Frames		Inserted vowels	
/h/-initial	Vowel-initial		
Pretest/Posttest			
/h_bi:dəʊ/	/_bi:dəʊ/		
/h_dəʊ/	/_dəʊ/		
/h_fɪk/	/_fɪk/		
/h_ft/	/_ft/		
/h_gɪbə/	/_gɪbə/		
/h_lbi/	/_lbi/		
/h_lp/	/_lp/		
/h_mə/	/_mə/		
/h_ŋk/	/_ŋk/		
/h_sp/	/_sp/		
Generalization			
/h_fəka/	/_fəka/		
/h_sk/	/_sk/		
/h_si/	/_si/		

Appendix S2: Results of identification and lexical decision tasks.

Table S1. *Mean percent correct responses and standard errors for /h/-initial and vowel-initial items in the pretest, posttest and generalization test of the identification task.*

	/h/-initial	Vowel-initial
Pretest	71.29 (9.24)	63.35 (9.84)
Posttest	79.38 (8.26)	80.73 (8.05)
Generalization	79.03 (8.32)	80.57 (8.08)

Table S2. *Mean percent correct responses and standard errors for control and test words and nonwords in the pretest and posttest of the lexical decision task.*

	Control		Test	
	Word	Nonword	Word	Nonword
Pretest	92.99 (5.21)	82.47 (7.76)	81.45 (7.94)	32.47 (9.57)
Posttest	92.60 (5.35)	87.92 (6.65)	86.87 (6.90)	60 (9.98)