Overview

Exemplar	theo	ry is
the speed	ch prod	cessing
theory w	which	posits
that lis	teners	match
speech	input	with
'clouds'	of	fully
(socio-)	phonet	cically
detailed	memor	ies of
words -	<pre>fexempl</pre>	.ars' –
rather th	nan fil	ltering
out all d	letail.	

Hybrid models of exemplar theory posit that speech processing involves both exemplars and abstractions formed on the basis of those exemplars.

Why find out?

Sociolinguistic processing research has been increasingly interested in **exemplar theory** to explain how socio-phonetic information is processed:

Walker & Hay (2011) find that old sounding voices speed up lexical access to words used by older people. This suggests that sociolinguistic information (i.e. an old voice) is stored at the level of the word-based exemplar.

However, modern iterations of exemplar theory are all hybrid, incorporating both specific detailed exemplars and abstractions. Research question Does it matter for accent recognition whether people hear an accent feature in:

- 1. A high-frequency word?
 - Exemplars are available and easily accessible.
- 2. A low-frequency word?
 - Exemplars might not be available or very accessible.
- 3.A non-word?
- Exemplars definitely not available.



Potential outcomes

1. If accent recognition is better in high-frequency words than in low-frequency words and non-words, this mean that exemplars must play an important role in accent recognition.

2. If accent recognition is equally good in all conditions, abstractions play the most important role.

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But which of these dominate accent recognition?

How abstract are the linguistic units we use to recognise accents?

Are they word-specific memories? Or abstract allophones?

			Hvbrid exemplar model mock-up		Hvbrid exemplar model mock-up
	Pure exemplar model mock-up		exemplars dominant		abstractions dominant
1.00-		1.00-		1.00-	
61 0.75-		0.75-		81 0.75-	• • • • •



Conditions

The comparison of accent recognition in different frequency conditions will be conducted across 5 different accents and two recognisable features per accent.

Versions

If in one version one speaker's high-frequency stimuli is presented, the other two listener versions presented their low-frequency and non-word counterparts.

Accent	Geordie							Yorkshire					General American					SSBE						
Recognisable feature	FACE vowel syllable final /l/				F <i>A</i>	FACE vowel			GOAT vowel		LOT vowel		KIT vowel		BATH vowel		el	I GOAT vowel		vel				
		1	non-		1	non-		1	non-		1	non-		1	non-		1	non-		1	non-		1	non-
Frequency	nrgu	TOM	word	nrgu	TOM	word	Intgu	TOM	word	nrgu	TOM	word	nrgu		word	Intgu	MOT	word	Iutgu	TOM	word	Intgu	TOM	word
Stimuli	day	clay	chay	well	dwell	chell	came	cane	stame	no	quo	zo	job	sob	wob	is	fizz	chiz	ask	flask	vask	home	cone	shome
	may	fray	zay	tell	swell	kell	name	саре	ane	so	fro	spo	dog	hog	chog	did	hid	zid	Laugh	Lance	gance	go	foe	spo

Speakers

To ensure that no listeners hear one speaker more than once, 100 different speakers were recruited (20 per accent).

Listeners

The experiment is geared towards British speakers of English. The gamified and online nature of the experiment will (hopefully) allow for a high number of participants.

