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The phonology and morphology of the core of the English lexicon

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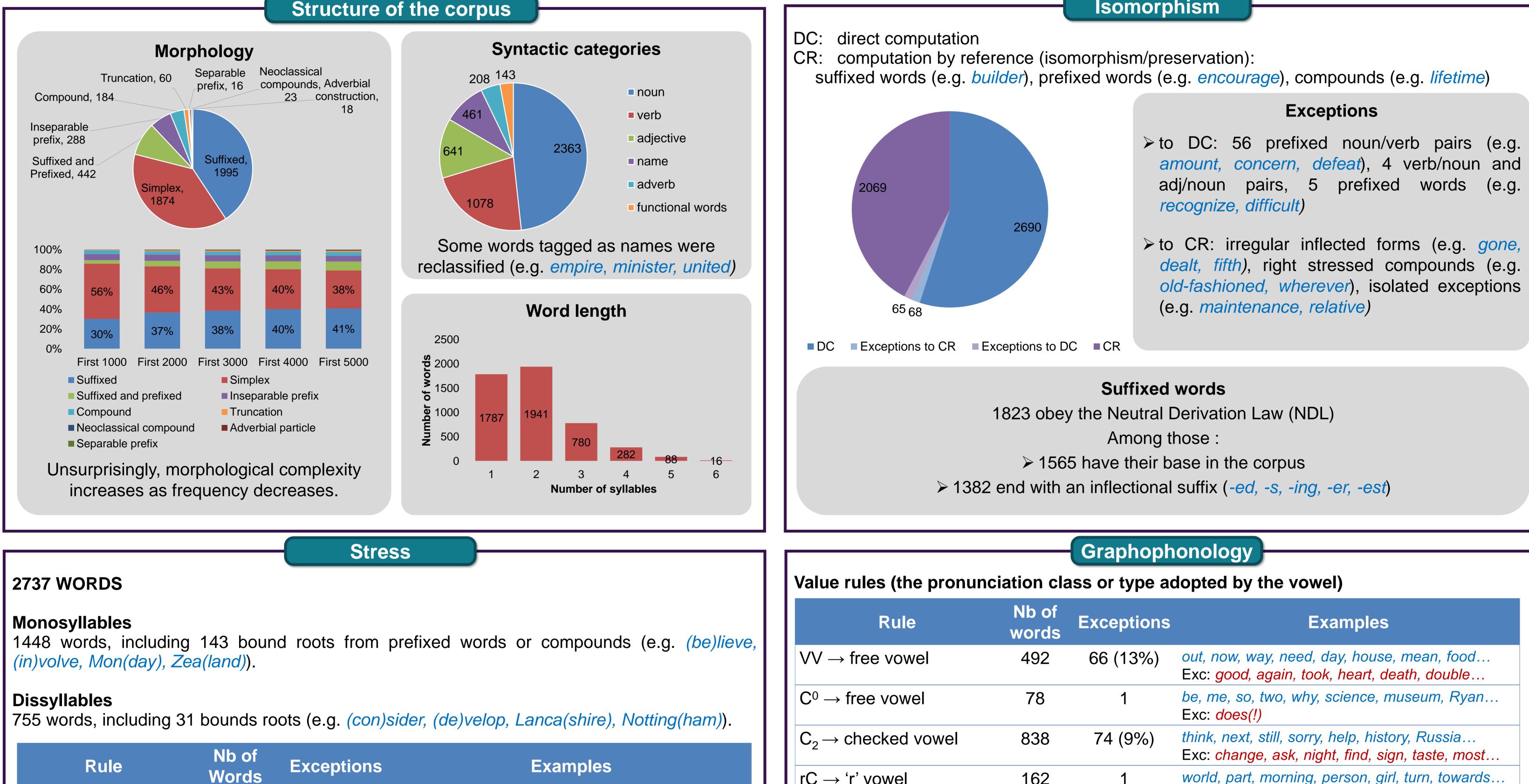
Goals

Focus on the morphological, phonological and graphophonological properties of what Schmitt & Schmitt (2014) calls "highfrequency vocabulary". The efficiency of Fournier's (2007, 2010) stress rules and graphophonological rules are evaluated.

Extraction of the 5000 most frequent entries in SUBTLEX-UK (Van Heuven 2014). For words, the frequency is that of word-forms, not lemmas. Coding of morphological structure, stress (taken from Wells (2008)) and stress and graphophonological rules. SUBTLEX-UK contains: syntactic categories and frequencies.

Methodology

Exclusion of 108 entries: 56 "non-lexical" entries: s, ya, f, oh, ha, ah, wow..., 22 "syntactical constructions": n't, m, gonna, wanna, gotta, innit..., 24 acronyms : UK, BBC, TV, NHS, UN, NATO... and 6 entries absent from Wells (2008): cha, lau, nok, tok + de-, pre-



Isomorphism



		711	31 (4%)	<i>baby, market, minute, seven, kitchen, early</i> Exc: police, example, campaign, event, machine, degree, regime		
		20	3	3 yourself, create, career, unique, technique, parade Exc: coffee, decade, charlotte		
Strong er	Strong endings /10/ 24			music, public, mental, active, sensible, rental		
Vords of 34 words	-	les or more				
Pattern		Rule	Nb of Words	Excentions	Examples	
/(-)100/	Strong endi	ngs /(-)100/	310	8 (3%)	 <i>million, special, political,</i> <i>experience, community,</i> <i>evidence, particular</i> Exc: <i>European, television, ideal,</i> <i>museum, passionate, Maria,</i> <i>opponent</i> 	
	Normal Stre	ess Rule /(-)100)/ 137	22 (16%)	every, family, library, discipline, America, Cameron, diamond, positive Exc: idea, secretary, parliament, Obama, necessary, Pakistan	
/-10/	Strong endi	ngs /-10/	39	2	fantastic, economic, expensive, independent, enormous, effective, internal Exc: politics, catholic	
	Prefinal C ₂	/-10/	32	14	<i>important, referendum,</i> <i>advantage, disaster, September,</i> <i>adventure</i> Exc: <i>minister, industry, character,</i> <i>penalty, internet, chancellor</i>	
	"Italian" wor	ds /-10/	7	0	potato, anita, piano, tomato, banana, Fiona, Argentina	
/-1/	Strong endi	ngs /-1/	9	2	referee, Japanese, auctioneer, Aberdeen, cigarette	

$r C \rightarrow r$ vowel	162	1	Exc: <i>Worcester(!)</i>		
alC/olC → [ɔː]/[əʊ]	30	1	all, old, half, walk, folk, calm, poll Exc: shall		
$C\# \rightarrow checked vowel$	252	10 (4%)	<i>lot, man, job, stop, until, Japan, canal…</i> Exc: bath, path, high, both, truth, Iraq, Iran…		
$r\# \rightarrow r' vowel$	17	0	far, prefer, guitar, Norman, stir, for		
$u \rightarrow free vowel$	56	3	use, Julia, during, human, musical, Judith, Exc: sugar, cushion, study		
-V# \rightarrow free vowel	322	40 (12%)	<i>here, take, quite, nice, place, name, improve…</i> Exc: <i>have, one, very, money, city, live, semi…</i>		
-ic(s)# \rightarrow checked vowel	17	1	<i>magic, specific, historic, economic…</i> Exc: <i>basic</i>		
$-{i,e}V(C_0(e)) \rightarrow free$ vowel	86	7	<i>media, Victoria, period, negotiate, comedian…</i> Exc: Daniel, Italian, fashion, onion, special…		
Luick \rightarrow checked vowel	176	4 (2%)	every, family, evidence, America, policy, delicate Exc: evening, favourite, colonel(!), library		
Prefinal \rightarrow free vowel	4	1	October, medieval, opponent Exc: imagine		
No known rule	207		mother, never, water, local, labour, dozen		
	ons amo lited inve	entories displ	est inventories: VV, C ₂ and V# play a high rate of efficiency ven orthography)		
The exception	ns	r v	vowel checked Monographs free r coloured Digraphs		
Exception rate: 153/2737 (6%)			[aː][æ] <a>[eɪ][eə]<ai, ay="" ei,="" ey="">[ɜː][e]<e>[iː][ɪə]<ea, ee="" ie**=""></ea,></e></ai,>		
- 86 well-known highly	/ excep	ntional I I	[3ː] [I] <i> [aɪ] [aɪə] <ie*, ye=""> [ɔː] [D] <o> [əʊ] [ɔː] <oa**, oe*=""></oa**,></o></ie*,></i>		

9% exceptions in total, 1/3 of which are exceptions to prefinal C_2

82% of words stressed /(-)100/

digraphs: <ea>, <ou/ow>, <oo> (e.g. dead, journey, slow, foot

- 44 <o> pronounced like <u> (e.g. love, come, front, wonder).
- 23 others (e.g. *busy, Gary, pretty*)

	₹u≠		[(])00]		i
		[ɔː]	[ɔː]	<au, aw=""></au,>	
		[uː]	[ɔː]	<00>	
		[JI]		<oi, oy=""></oi,>	
		[aʊ]	[ວː (aʊə)]	<0U, 0W>	
		L			1
				* : final ** : non-final	

Conclusions and perspectives

The exception rates are surprisingly low, as one would expect high-frequency vocabulary to be more prone to contain exceptions.

All aspects tested are highly regular: isomorphic principles, stress, value and quality rules.

This part of the vocabulary contains a strikingly high proportion of words whose pronunciation depends on that of another word (isomorphic principles).

Perspective: Crossing frequency with the different rules tested, the length of words and exceptions.

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