A NOVEL APPROACH TO CATEGORISING EXTRINSIC LEXICAL UNITS IN A CORPUS OF WELSH-LANGUAGE TWEETS

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1. What is an Extrinsic Lexical Unit? 2. Extrinsic Lexical Units in Welsh **5.** Pragmatic Markers 4. Methodology and Data Analysis 5. Summation

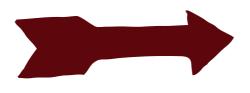


WHAT IS AN EXTRINSIC LEXICAL UNIT? (and why am 1 calling them that?)





TERMINOLOGY Poplack (2018): "donor language"



Grosjean (2008): "base language" or "host language"

"native language" or "recipient language"

"guest language"



NATIVE LANGUACE

FOREIGN LANGUACE



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E E C I P I E N T I A N E D A E E E



HOST LANCUACE

E A NE COLLA COL



Latin intrinsecus "internally, from within".

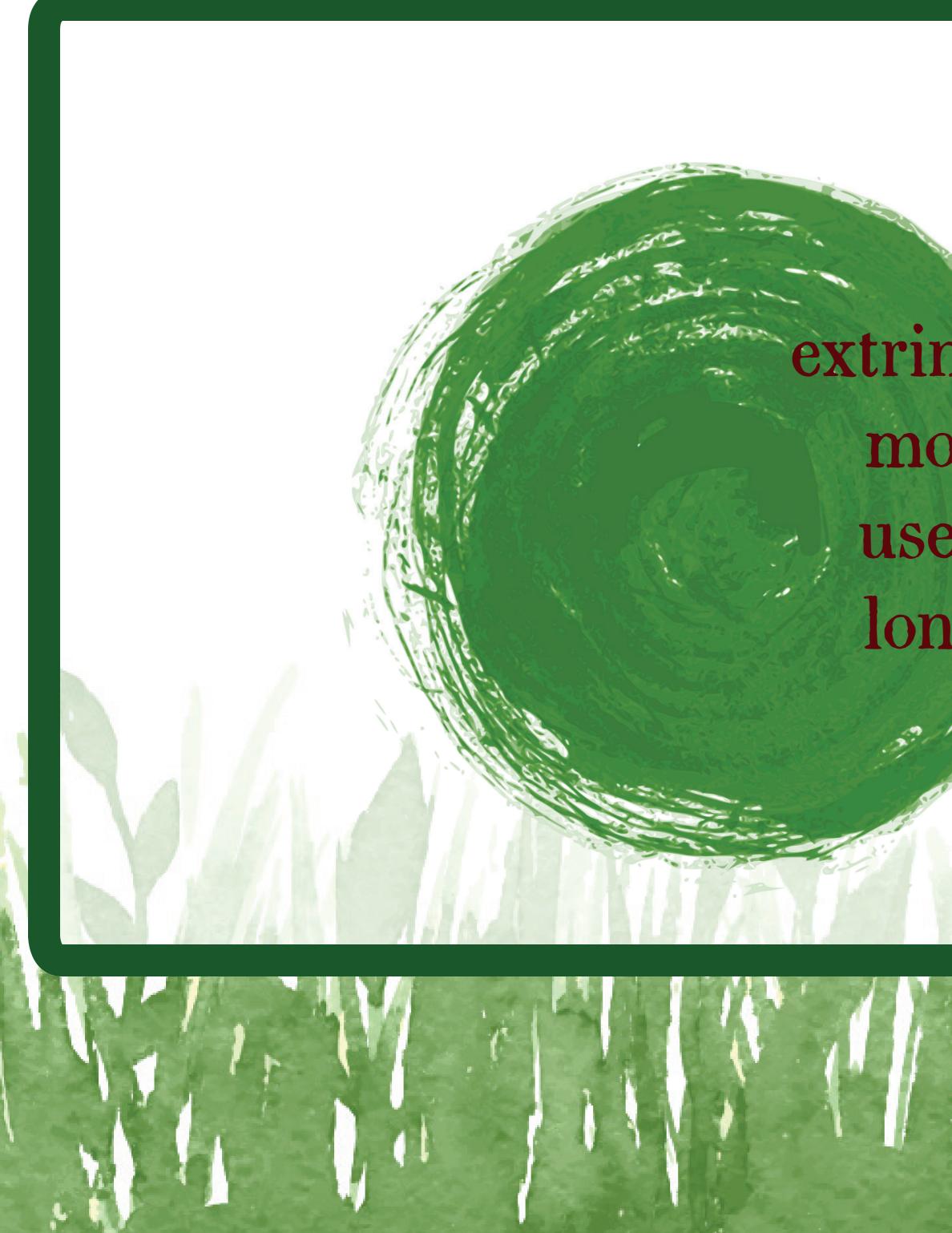
EXTRINSIC Latin intrinsecus "externally, from outside".



whole items formed from language-intrinsic morphemes

whole items formed languageextrinsically





extrinsic-language morpheme(s) used to form longer words



Whole **ELUs** aquarium eau-de-vie whisky feng shui axolotl

EL morphemes aqualung waterable aquaphobia vodkas whiskyish



- extrinsic root + intrinsic root
- intrinsic root + extrinsic derivational
 - extrinsic root + extrinsic root
- extrinsic root + intrinsic derivational
- extrinsic root + intrinsic inflectional

sic root vational sic root vational ectional aqua lung water able aqua phobia whisky ish vodka s



extrinsic root + intrinsic root

- intrinsic root + extrinsic derivational
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sic root vational sic root vational ectional aqua lung water able aqua phobia whisky ish vodka s



INTRINSIC LEXICAL UNIT * developed directly from intrinsic lexical resources

or

* developed from extrinsic unit(s), using intrinsic derivational/compounding processes, to create a unit that does not exist in the extrinsic language itself





EXTRINSIC LEXICAL UNIT

* has a (near-)identical counterpart in another language with which there is a history of contact (allowing for differences of spelling and inflection) * has a meaning similar to, or derived from,

the meaning of that counterpart





EXTRINSIC LEXICAL UNITS IN WELSH (borrowings, loanwords, or something else?)



HISTORY OF LANGUAGE CONTACT Brythonic: Other Celtic languages; Vulgar Latin Old Welsh: Other Celtic languages; Old English Middle Welsh: Middle English; Flemish; Irish; French Modern Welsh: Modern English; BSL; a growing range of other languages





The thing with the Welsh language, is that half of it is English because there's no Welsh word for most things 😂 pointless language

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↑]



Tenby in Welsh is Dynbych Y Pysgod 😂 how do you turn a 5 letter word into a sentence like







I've learnt a lot of Welsh from road signs. This week I've upgraded to hospital signage. But disappointed in the number of English words just phonetically transcribed into Welsh but I guess ffisiotherapi and endosgopi weren't part of the ancient tradition 🏙







Mae llawer o ddramâu bendigedig ar @S4C yn ddiweddar ond maen nhw'n cael ei andwyo gyda gormod o fratiaith fel 'Wenglish'. Mae'n drueni iawn

"There are lots of fantastic dramas on S4C recently, but they're all ruined with too much slang like 'Wenglish'. It's a real shame."







BORROWINGS FROM FIGLISH(?) Salm ("grease") from M.E. "seim" or Old French "saim" babi ("baby") from M.E. "baby" - or the other way around? (Durkin, 2014) tacsi ("taxi") from Mod.E. "taxi" - or is it just an internationalism?



WHY DOES IT MATTER?

- The vocabulary we choose to accept as "Welsh" can influence
- * outcomes for children in Welsh-medium education
- * interactional competence in Welsh learners
- * confidence/willingness to speak Welsh



BORROWINGS OR CODESWITCHES?

Poplack and others: ***** B and CS are separate categories

* Bs are morphosyntactically and phonologically integrated * CSs retain extrinsic-langage morphosyntax and phonology (phonological criteria have been modified over time by Poplack)

items

- Myers-Scotton and others: * B and CS form a
- continuum
- * Bs are frequently-used
- * Both Bs and CSs will be morphosyntactically integrated to some extent * phonological integration may depend on the social status
- on the extrinsic language

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BORROWINGS OR CODESWITCHES?

- Deuchar, Webb-Davies and Donnelly (2018):
- "Listedness" is the extrinsic lexical unit in a "community dictionary"?
- "Listed" verbs: rate of soft mutation similar to that of intrinsic verbs.
- "Unlisted" verbs: lower mutation, less frequent.
- . Borrowings are items with high or low frequency and high integration Code-switches are items with low frequency and low integration



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PRAGMATIC MARKERS (and why they're a pain in the behind-head)





WHAT ARE PRAGMATIC MARKERS?

- Characteristics of PMs:
- * units of one or more words which carry metalinguistic information
- * any propositional meaning relates to text/context construction
- * occur at clausal/phonological/discourse boundaries
- can be removed from a sentence without grammatical violation





WHAT ARE PRAGMATIC MARKERS?

Cytuno! Dim ond y creme de la creme sy'n deall wedyn! Bach o ffrangeg fyna hefyd #deallYCwbwl haha

"Agreed! Only the creme de la creme understand then! A bit of French there too! #understandItAll haha"





Stammers (2010)

Tests for morphological integration of English verbs into Welsh:

* Do they show soft mutation in the appropriate contexts? wnes i ddjio ar gyfer priodas ffrindiau do-PST-IS I DJ-VBZ for wedding friend-PL "I DJed for [my] friends' wedding"



Stammers (2010)

Tests for morphological integration of English verbs into Welsh:

* Do they show soft mutation in the appropriate contexts? * Do they appear only in periphrastic constructions, or also with synthetic morphology?

nid fi dwîtiodd hwn not me tweet-PST this-MASC-SG "I didn't tweet this"





The formation of adverbs in Welsh: * Usually accomplished with an adverbializer particle, "yn", + adjective

* This "yn" triggers soft mutation on the relevant consonants *mae pob llyfr ar gael yn ddigidol* be-3SG-PRS every book for getting PTCL-ADVZ digital "every book is available digitally"



BUT English PMs in adverbial form are often borrowed whole:

absoliwtly bril "absolutely bril[liant]"



Tests for phonological integration of English words into Welsh:
* Almost all Welsh speakers are Welsh-English bilinguals
* Their Welsh-English tends to be pronounced with Welsh phonology
* Extrinsic English-origin items in Welsh largely show no difference from the same items as used in the same speakers' English



A POTENTIAL ALTERNATIVE? * Welsh and English orthographic systems are quite different: *cuddle* /'kıðlε/ (CY) /'kʌdl/ (EN) dial /'diːæl/ (CY) /'daıəl/ (EN) /mais/ mice (EN) maes (CY)



A POTENTIAL ALTERNATIVE?

* Welsh and English orthographic systems are quite different * Long-established loanwords are usually orthographically adapted:

sialens "challenge" (1547)

dawns "dance" C_{14} (from M.E. "daunce")

coffi "coffee" C16



A POTENTIAL ALTERNATIVE?

- * Welsh and English orthographic systems are quite different * Long-established loanwords are usually orthographically
- adapted
- * Orthographic adaptation should affect PMs as much as other words



METHODOLOGY AND DATA ANALYSIS (and maybe a few conclusions)





THE CORPUS

- * Roughly 1m words
- * Tweets written from 2007-2018 with Welsh as the main language
- * All data anonymized before analysis
- * Chosen to reflect spontaneous, spoken Welsh as closely as possible



THE INITIAL ANALYSIS - DERWEN



Dichell Esboniadol Ramadegol y Wenglish (Wenglish Grammatical-Explanatory Device)



THE INITIAL ANALYSIS - DERWEN

- * Part-of-speech tagger for code-mixed Welsh-English bilingual data, including non-standard orthography and dialectal forms
- * Uses phonological translation of orthographic forms to find English words in Welsh orthography * Based on initial work by the CorCenCC team * Coming to GitHub soon...





- * 60 initial candidate PMs (e.g. awesome, hooray, no way) * 35 of these were sufficiently prevalent to make it into the final analysis
- * Coded for orthography (Welsh, English, Mixed) * Coded for presence in two major Welsh dictionaries Coded for frequency in a reference corpus of English tweets

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Welsh = orthography entirely adapted to Welsh: eniwê siriysli ôsym





Welsh = orthography entirely adapted to Welsh English = orthography entirely unadapted to Welsh: *literally definately awsum*



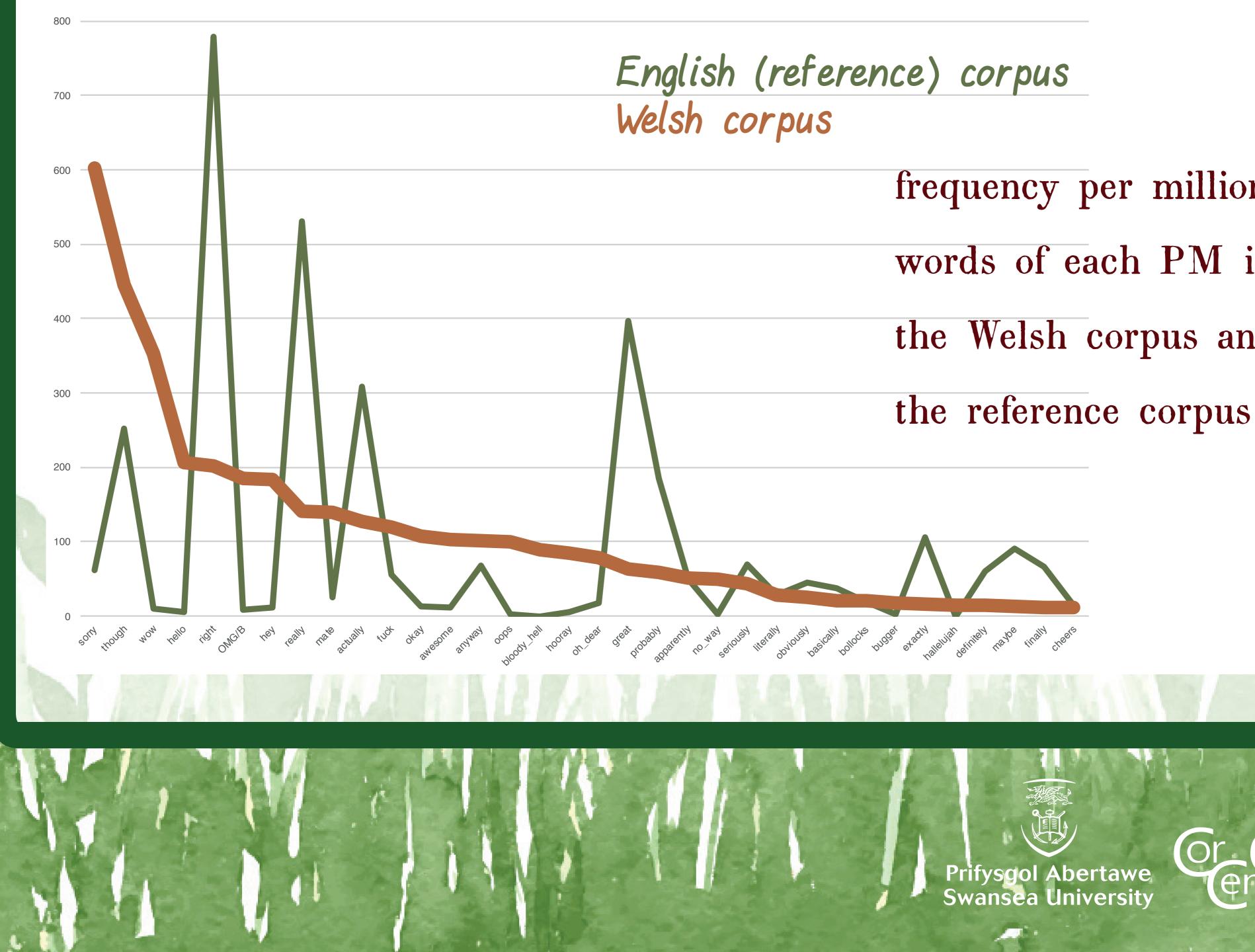
Welsh = orthography entirely adapted to Welsh
English = orthography entirely unadapted to Welsh
Mixed = features of both orthographies:
tho oh diar finali



Lemma	Welsh	English	Mixed	Grand Total	
actually	14			127	
anyway	53	42	6	101	
apparently	5	44	2	51	
awesome	25	78	0	103	
basically	0	21	0	21	
bloody_hell	52	10	27	89	
bugger	7	8	3	18	
cheers	1	10	0	11	
definitely	3	11	0	14	
exactly	0	16	0	16	
finally	0	11	1	12	
literally	2	27	0	29	
maybe	0	13	0	13	
no_way	18	31	0	49	
obviously	1	24	0	25	
okay	93	14	1	108	
probably	6	53	0	59	
really	101	39	1	141	
seriously	12	31	0	43	
though	194	114	137	445	
wow	228	124	0	352	
Grand Total	815	833	179	1827	







frequency per million words of each PM in the Welsh corpus and

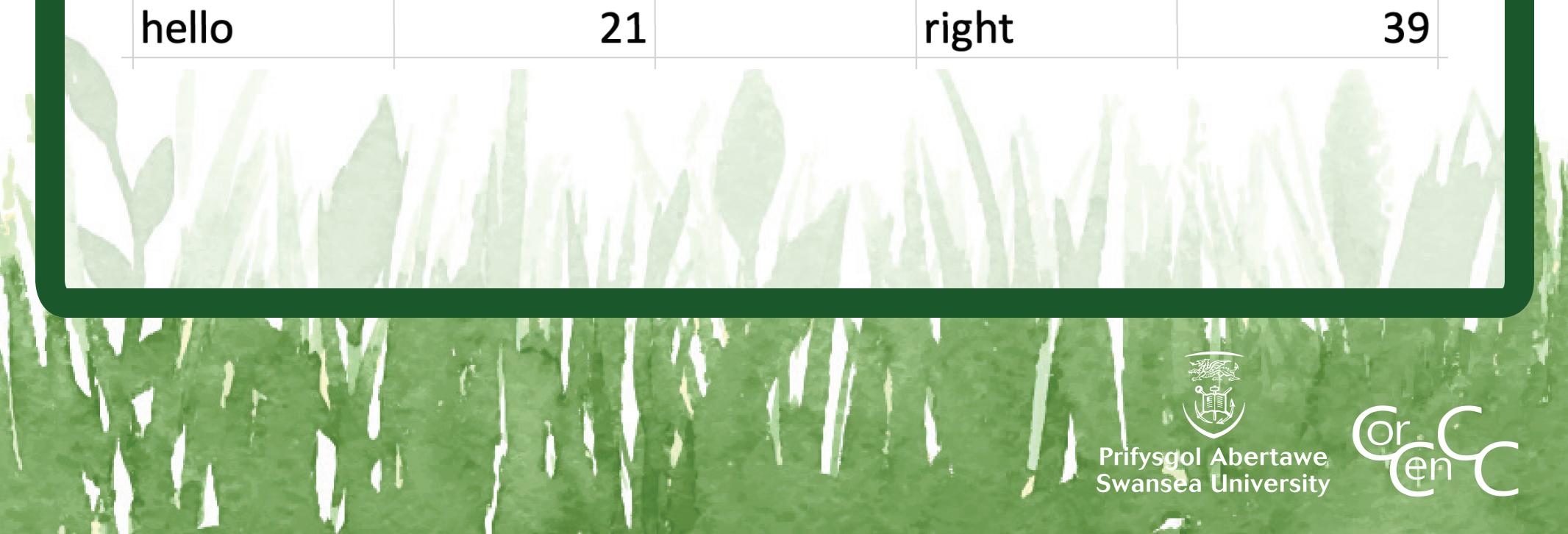


buggar bygger	1	aniwai aniwe	1
 byggyr	1	anywe	3
 bygar bygyr	1 6	eniway eniwe	1 46
 bugger	8	eniwê eniwei	2
		anyway	42
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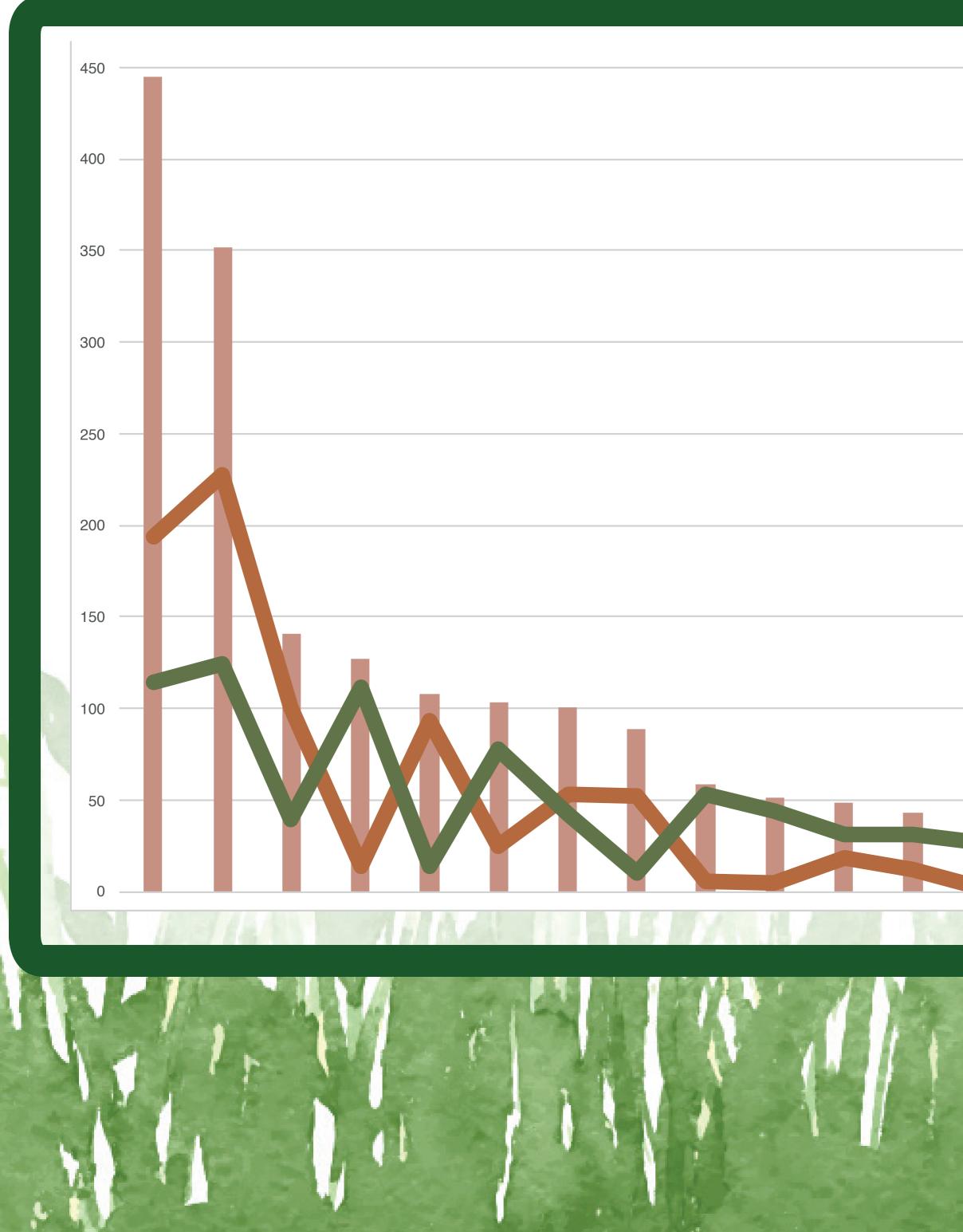


gret	36	aleliwia	2
grêt	24	haleliwi	a 12
great	4		
helo	185	reit	163
hello	21	right	39









English orthography Welsh orthography Total

Welsh-corpus

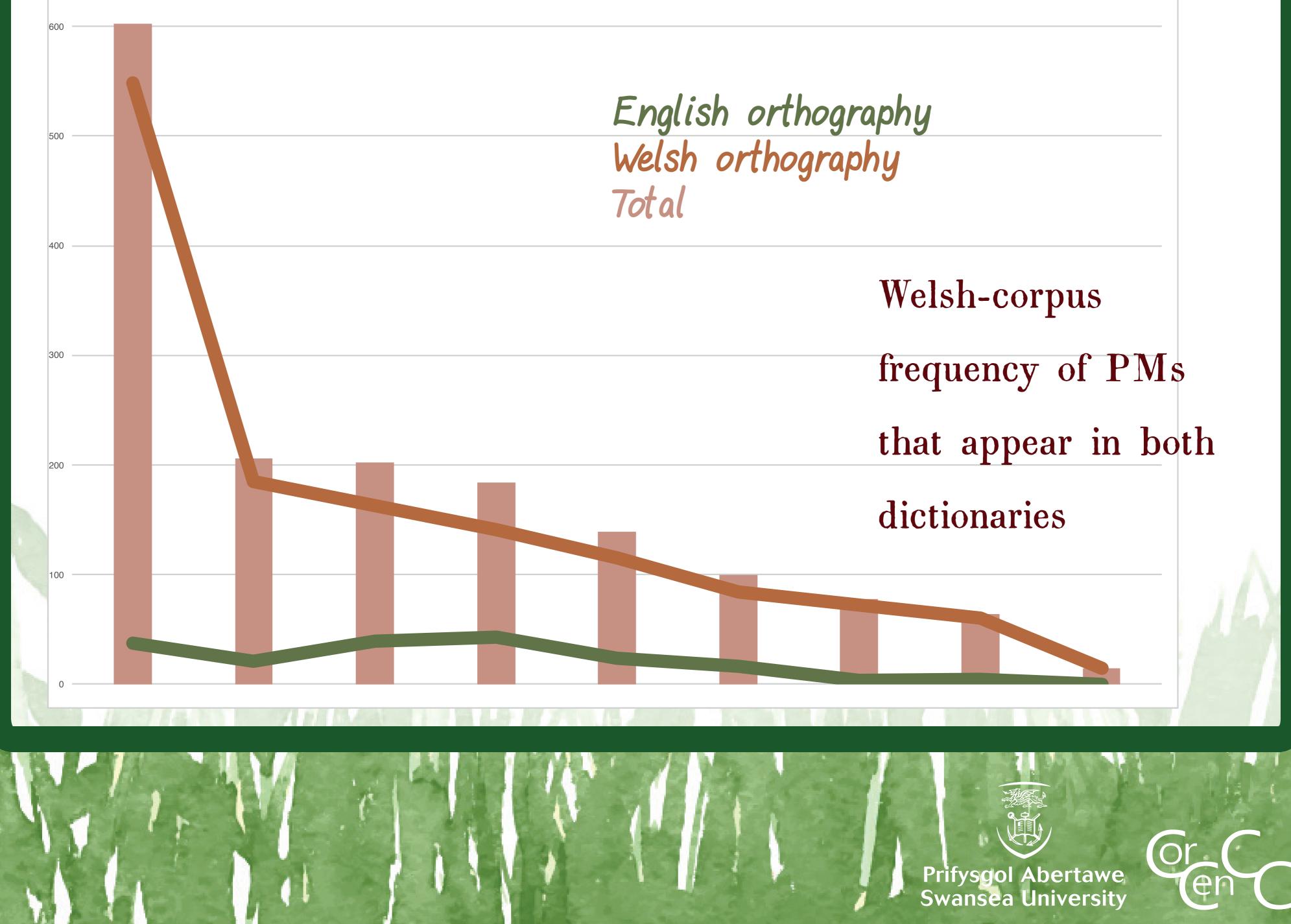
frequency of PMs that

do not appear in the

dictionaries

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SUMMATION (and what's next)







DIOLCH! TIGE TANK!





