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A Comparison of 'little' and 'small' in English and Thai: A Corpus-Based Study

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Received	ABSTRACT
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11/10/2022 Received in revised form 21/11/2022 Accepted 28/11/2022	This paper studies the two English synonymous words <i>little</i> and <i>small</i> , and their Thai equivalents no:j4 and lek4. In addition to monolingual and bilingual dictionaries, British National Corpus, Thai National Corpus and an English-Thai parallel corpus were used in this study. It is found that <i>little</i> and <i>small</i> and their Thai equivalents are not precisely identical in meaning. In addition, there are some meanings that can apply to all these four English-Thai synonymous words. Therefore, a Thai learner of English may not be able to simply equate the use of <i>little</i> and <i>small</i> with no:j4 and lek4, and vice versa. Moreover, it is also found that <i>little</i> and <i>small</i> can be translated into Thai with some other words rather than no:j4 and lek4. This indicates the complexity of meaning in which <i>little</i> and <i>small</i> can connect to other related meanings and be translated
	into Thai with other words. This study suggests that
	information provided in dictionaries alone is not sufficient.
	Learners should learn how to use corpora as a resource to

enhance their lexical knowledge in both languages.

Keywords: corpus-based study, little and small, English-Thai translation

Introduction

Learning the similarities and differences of near synonymous words is a crucial and challenging task for language learners. This can be achieved by consulting a dictionary in which different usages of those words are described or by comparing different usages found in a corpus. Though the latter may seem a complicated method, it can successfully yield more informative results. Many studies have been conducted to demonstrate the usefulness of corpora in this field of study. For example, Oh (2000) showed the differences of uses between actually and in fact. V. Aroonmanakun (2015) compared the differences between quick and fast. Phoocharoensil (2021) examined the synonyms persist and persevere by looking through different distribution across genres, collocations and semantic prosody. Lin and Chung (2021) showed the differences between *propose* and *suggest* in academic writing. Lau and Lee (2016) studied two manner adverbs viran and duanran 'resolutely' in a Chinese corpus and found the differences in terms of the event structures constructed by the collocated verbs, conjunctions and nouns. Most of the previous studies have focused on analyzing native corpora to identify similarities and differences for foreign language learners because information provided in the dictionaries is not sufficient to understand the differences between near synonymous words. A few studies have compared the use of near synonymous words in both native and learner corpora. For example, Pérez-Paredes and Bueno-Alastuey (2019) used both native and learner spoken English corpora to study three adverbs, obviously, really and actually. Chinese, German and Spanish learners of spoken English corpora are used to revealing different usages from these learners. Hong (2014) used both Chinese corpus and Chinese learner corpus to study the differences between two sets of synonyms, bian4li4/fang1bian4 'convenient' and ren4shi4/zhi1dao4 'know'. This type of study will add to the differences between learner and native usages of those synonymous words. In this study, in addition to analyzing near synonymous words in English, near synonymous words in the native language of Thai learners were also analyzed. The objective is to reveal similarities and differences not only in the target language but also those in the native language and across languages as well. An English-Thai parallel corpus was also used to verify equivalents of these words in the two languages. This should provide a more ample view for Thai learners to understand synonymous words in English.

Scope and Methodology

This study focuses on two synonymous adjectives, *little* and *small*, and their equivalent translations in Thai, no; and lek4. Three corpora were used as a reference for this study, namely BNC (British National Corpus), TNC (Thai National Corpus), and an English-Thai parallel corpus. BNC and TNC were used to identify the meanings of each word through its concordances and collocates. This should provide a clear picture of how many meanings there are for each word and the similarities or differences of their collocates. BNC online (*Corpora: BNC*) and TNC online (Aroonmanakun et al., 2009) were used in this study. The analysis of *little* and *small* is presented in Section 3, while the analysis of no; 4 and lek4 is presented in Section 4. Section 5 presents the results of the translation of *little* and *small* into Thai. These results will show whether no; 4 and lek4 are equivalent terms to *little* and *small*.

Analysis of little and small

To explore the differences between *little* and *small*, the Longman Dictionary of Contemporary English Online (Pearson Education Limited, n.d.) was first consulted. The use as a compound or a fixed phrase, e.g., a *little bit, no small degree, small world, small change, small arm*, etc., is more frequent in *small* than in *little*. In this study, however, only the use as a single adjective is considered, and Table 1 contains a comprehensive list. Based on the information from the dictionary, these two adjectives convey eleven different meanings, of which three overlap, i.e. (1) 'small in size', (5) 'young' and (7) 'unimportant'. The rest seem to be specific to either word. In cases where both *little* and *small* can be used, it is not evident whether they are completely interchangeable.

Table 1Meanings and Examples of little and small from the Longman Dictionary of Contemporary English

Sense	<i>little</i> (adj)	<i>small</i> (adj)	Meaning
small in size not large in size or	a little house	a small car, a small	1 'small in size'
amount		town, a small amount of money	2 'small in quantity'
something you like or dislike	a useful little gadget, silly little jokes		3 'added attitude'

			manan (===), pp. => = =1
short in time or distance	a little sleep, a		4 'short in
	little way		time/distance'
	www way		time, distance
young	a little boy	a small boy	5 'young'
unimportant	She gets very		6 'unimportant'
•	angry over little		•
	things		
not important		a small problem, a	
р		few small changes	
alialet	a little smile	Jour small visunges	7 famall in dagges?
slight	a titile smile		7 'small in degree'
not involving a large		small business	8 'small in group' (not
amount of money or			involving many people)
people			
letter		small letters	9 'small (letter)'
voice		a small voice	10 'small (voice)'
look/feel small		make me look	11 'feel small'
		small	

Frequency of little and small

According to the dictionary, both words are ranked in the top 1,000 words in both written and spoken data. However, it is not reported which one is more frequent. To obtain the actual frequency, the BNC was used as a reference corpus. In the BNC, *little* is found 61,932 times compared to *small's* 42,730 times, which means that *little* is used around 1.4 times more frequently. However, when it comes to use as an adjective merely, *little* appears to have a lower frequency, compared to *small*. *Little* (adj.) is found 30,818 times, while *small* (adj.) is found 41,837 times. The distribution of both words across different genres is shown in Table 2.

Table 2

Distribution of the Adjectives little and small in BNC

	All	Spoken	Fict	Mag	News	non- Acad	Acad	Misc
little	30818	6298	11479	1995	1855	2703	1716	4772
small	41837	2211	8781	3864	2616	7498	6609	10258

Table 2 shows that *small* is more common in formal genres like magazines, newspapers and academic texts, while *little* is preferred in less formal ones like spoken and fiction. This is in accord with what Biber et al. (1996), reported in their work. They found *little* a lot more in conversation than in academic prose, while *small* is found more in academic prose. They explained that this difference is reflected in the preferred collocates of both

words. Little tends to co-occur with concrete nouns describing animate beings, commonly found in conversational genre as physical entities that are often mentioned in conversation. Small, on the other hand, tends to co-occur with nouns indicating quantity, e.g., amount, number, etc., since measuring quantities and amounts is often found in academic prose.

To verify the meanings concluded from the dictionary, 100 concordances of each word were randomly sampled and analyzed in this study. The result confirms the meanings found in Table 1, with some additional meanings for both *little* and *small*. *Little* is found with the meaning of 'short in length' (4), e.g., *little poem, little hand-sawing*. This meaning is similar to 'short in distance' (4) because it is related to a space domain. In addition to the 'unimportant' meaning (6), *little* is used to describe the quality of 'being not complicated' (12), e.g., *little analysis, little job, little work*. Other additional meanings are 'small in group' (8), e.g., *little troupe*; 'small (voice)' (10), e.g., *little voice*; 'low in status' (13), e.g., *little parson, little muttering peasant*.

With respect to *small*, the additional meanings are as follows: 'small in quantity' (2) e.g., a small number of ..., a small proportion of ..., a small selection; 'short in time/distance/length' (4), e.g., a few small hours, small time, a small jump; and 'small in degree' (7), e.g., a small difference, small experience. In the case of the overlapped meanings with little, the collocates of both words found in these samples are not similar. For example, when used to denote 'small in quantity' (2), little collocates with chance, agreement, money, progress, value, while small collocates with amount, number, proportion, selection. It seems that small can be used for 'small in quantity' only when quantified nouns are added. Even when little and small can be used to indicate 'small in size' (1), they do not share the noun collocates in these samples. Only room and town are found to co-occur with both words. Anyway, since this analysis is based only on 100 samples for each word, a definite conclusion still cannot be drawn from these findings. To explore the similarities or differences of the collocates, all noun collocates are analyzed in the next section.

Table 3

The Number of Meanings Analyzed from 100 Samples

	Meaning	little	small
1	'small in size'	30	49
2	'small in quantity'	25	17
3	'added attitude'	6	-
4	'short in time/distance/length'	7	4
5	'young'	11	2
6	'unimportant'	1	-
7	'small in degree'	8	6

8	'small in group'	1	19
9	'small (letter)'	-	2
10	'small (voice)'	2	_
11	'feel small'	-	-
12	'not complicate'	3	-
13	'low in status'	2	-

Collocates of little and small

To confirm whether the uses of *little* and *small* are as described in the dictionary and in Biber et al. (1996), top noun collocates of the two words were extracted from the BNC. First, we extracted the top collocates based on statistical values, which is mutual information (MI). This method will show the collocates that are statistically significant with *little* or *small*. However, their collocates tend to be among the low frequency words that occur exclusively with either *little* or *small*. The collocates found by this method then are not ordinary words. For example, the top collocates of *little* are *schoolbook*, *piggies*, *weirwold*, *dorrit*, *blighters*, *emme*, *etc.*, and the top collocates of *small* are *intestine*, *mammal*, *cetaceans*, *mercies*, *resection*, *wader*, *etc.* With this method, only 3 collocates, *clique*, *cubicle* and *shiver*, co-occur with both words. This result suggests that using MI does not yield collocates that are commonly used.

Since no other statistical method was provided for using the BNC online, the top 100 noun collocates were extracted based on their frequency. By this method, 33 collocates are found to co-occur with the two words. These are boat, box, boy, boys, car, child, children, cottage, fish, garden, girl, group, hole, house, island, man, office, ones, party, piece, pieces, place, room, shop, smile, table, thing, things, town, village, voice, way, and world. In other words, about one-third of the collocates are shared by the two words. This is because these collocates are high frequency words. The chances that they would co-occur with both little and small will, accordingly, be high. However, the differences in uses of the above-mentioned shared collocates are still in question.

Differences between little and small

To explore the differences in uses of the shared collocates, up to 100 sample concordances of five collocates, namely *boat, fish, boy, town* and *group*, were extracted and analyzed. These five words were selected to represent different collocate types respectively, i.e., a concrete noun (nouns referring to inanimate physical objects), an animate noun (nouns referring to animate beings, except humans), a human (nouns referring to human beings), a place (nouns referring to places or locations) and a quantitative noun (nouns referring to collectives). The distribution of these collocates across genres is shown in Table 4. Up to one hundred samples of each collocate were

extracted and analyzed. Only three collocates, *little boat*, *little fish* and *little boy* were found fewer than 100. The number in parenthesis is the total occurrence of *little/small* and their collocates. The color is used to highlight items that seem to be different.

Table 4

Distribution of Collocates of Little and Small Across Genres

		All	Spoken	Fict	Mag	News	non-	Acad	Misc
							Acad		
boat	little	(46)46	15%	70%	2%	2%	0%	0%	11%
	small	(102)100	11%	38%	8%	4%	16%	0%	23%
fish	little	(39)39	8%	31%	26%	25%	13%	3%	15%
	small	(146)100	0%	10%	34%	7%	13%	4%	32%
boy	little	(98)98	23%	1%	0%	31%	0%	10%	35%
-	small	(226)100	7%	1%	0%	24%	7%	4%	57%
town	little	(150)100	9%	21%	0%	11%	20%	0%	39%
	small	(406)100	5%	1%	0%	18%	0%	7%	69%
group	little	(101)100	14%	52%	3%	2%	12%	3%	14%
	small	(761)100	7%	0%	0%	1%	0%	81%	11%

From Table 4, it is still unclear how differentiate between the uses of *little* and *small*. Considering the overall uses, though, *small* is preferred in formal genres while *little* is more common in informal genres (see Table 2). However, this finding is not repeated in all the five collocates here. For *boat* and *fish*, *little* is found to co-occur with less frequency than *small* in most genres due to its fewer occurrences in total use. For *town*, *little* seems to be preferred in both fiction and non-academic texts but not in academic texts. For *group*, *little* occurs more in fiction while *small* is preferred in academic texts. But for *boy*, *little* seems to be preferred in spoken texts, though its total use is less than that of *small*. It is possible that *little boy* is used with a sense of added attitude towards the subject in spoken texts. Nevertheless, these differences are minor and do not clearly indicate the differences between the two words.

Since *little* has one meaning that is related to the feelings of like and dislike, it is likely that *little* in a good sense would appear in a positive context. With this assumption, a sentiment analysis program, in which a positive or negative sentiment is determined from words in the context, was applied. The concordances of *little/small* and the five collocates were analyzed for their sentiment degree. A Python library (Hutto & Gilbert, 2014) was used to analyze each concordance line. The sentiment score ranging from -1 to 1 is calculated from the context of each concordance line. In this study, a positive sentiment is marked when the score is greater than 0.3; a negative is marked when the score is less than -0.3; otherwise, a neutral sentiment is marked. (See

the Python program for sentiment analysis in Appendix A). Some examples of sentiment analysis results are shown below:

Table 5

Examples of Sentiment Analysis

Context	Senti ment
thought about it day and night. My master liked to go fishing in a little boat , and he always took me with him. A man called Moely,	pos
as she was a bit claustrophobic, stepping over the side into that ridiculous little rubber boat was terrifying. A fair swell was running and the boat bobbed	neg
again. Down, and up again. And it was coming nearer! A little boat with	
two people in it. He held the rock and stared at it	neu
going on what (unclear) a great big boat and it was in fact only a small water boat . And we were all enjoying it and looking forward to going too	pos
in Hungary outside Budapest. Two leading liberals had drowned. There were rumours the small boat had been hit by a much larger vessel. The second picture showed what	neg
and pull it into the small boat? (SP:PS22D) Pull it into the small boat, lay it	
on a box and then we'd pull the chain in	пеи
our big winner at the Games but the biggest winner of all was his little boy , Edward. He is a champion on his super bike. A world	pos
Cameron plays with the big boys but underneath his brash exterior there lurks a little boy , haunted by an event in his childhood. Between the sheets with his	neg
the children are squawking, # chasing each other, picking fruit; # the little	
boy brings me a flower and a carrot. # We're drinking must	neu
eye in the # HEART-THROB Patrick Swayze gets one in the eye from a small boy in the forthcoming heat-and-dust saga City Of Joy. As a doctor who founds	pos
child called Kathy listened as her mother screamed at her husband who had killed a small boy in one such accident. Again this was shown after 9pm. Last year	neg
speed. It began to rain. In the porch of a wooden shack a small boy	
dangled a land crab on the end of a makeshift fishing rod; it	neu

Table 6
Sentiment Analysis of Little and Small

		All		Negative	Neutral	Positive
boat	little		46	24%	41%	35%
	small		100	20%	47%	33%

fish	little	39	8%	31%	62%
	small	100	16%	46%	38%
boy	little	98	26%	38%	37%
	small	100	19%	40%	41%
town	little	100	14%	45%	41%
	small	100	13%	51%	36%
group	little	100	13%	54%	33%
	small	100	11%	45%	44%

In Table 6, the distinction between positive and negative uses of the two words is not clearly noticeable. Positive and negative sentiments can be found in both *little* and *small*, though negative senses seem to be less used. It can be concluded that for the noun collocates that can be used with either *little* or *small*, there are no rigid rules governing their use. Some of them are interchangeable in the same context. However, this does not indicate that there is no preference for use in all collocates. There are several collocates that prefer *little* over *small* and vice versa. When using the function "compare" between *little* and *small* and assigning NOUN as a collocate, the ratio of collocates between these two words is used to calculate collocational scores and the top collocates of each word are listed.

Table 7

Noun Collocates that Prefer Little Over Small

Word	little	small	little/small	Score
while	433	0	866	597.5
evidence	398	1	398	274.6
impact	158	0	316	218
sense	112	0	224	154.5
progress	105	0	210	144.9
knowledge	90	0	180	124.2
thought	84	0	168	115.9
reason	80	0	160	110.4
attention	288	2	144	99.4
sympathy	68	0	136	93.8
relevance	60	0	120	82.8
bastard	57	0	114	78.7
icing	55	0	110	75.9
bitch	53	0	106	73.1
bit	1725	17	101.5	70
faith	49	0	98	67.6

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attempt	43	0	86	59.3
contact	43	0	86	59.3
incentive	43	0	86	59.3
sleep	43	0	86	59.3

Table 8

Noun Collocates that Prefer Small Over Little

Word	small	little	small/little	Score
proportion	324	0	648	939.2
minority	204	0	408	591.3
bowel	195	0	390	565.3
intestine	160	0	320	463.8
hours	147	0	294	426.1
quantities	136	0	272	394.2
scale	258	1	258	373.9
percentage	115	0	230	333.4
mammal	105	0	210	304.4
mammals	101	0	202	292.8
schools	69	0	138	200
investors	64	0	128	185.5
amounts	244	2	122	176.8
businesses	482	4	120.5	174.7
farmers	119	1	119	172.5
claims	57	0	114	165.2
quantity	57	0	114	165.2
firms	414	4	103.5	150
businessmen	50	0	100	144.9
sector	47	0	94	136.2

It is clearly evident from Tables 6 and 7 that several noun-collocates tend to co-occur with either *little* or *small* only. These collocates need to be emphasized when teaching the distinction between these two adjectives. They need to be emphasized for learners for a clear understanding of the distinction between these two adjectives.

Analysis of no:j4 and lek4

For Thai learners, there are two Thai synonymous words, no:j4 and lek4, which are identical in meaning to *little* and *small*. Unlike English dictionaries, most Thai dictionaries describe different senses of each entry briefly. For example, the Thai Royal Institute dictionary (2011) describes the meanings of lek4 as, first, (one thing) being smaller compared to another one;

then not being of a large/big size and, finally, being unimportant. As for no:j4, two entries are listed. The first entry has two senses which are the opposite of ma:k3 'many' and the opposite of jaj2 'big'. The first sense is about the amount of something while the second is about the status since the example of a lower ranking officer is given. The second entry has two senses. The first sense describes the lower status of a person, while the second sense denotes an attitude towards something as adorable. In addition, lek4 and no:j4 can be combined as a compound lek4 no:j4, which means 'a little', and 'not important'. Based on these definitions, no:j4 and lek4 seem to be distinct from each other, while no:j4 and lek4no:j4 have one overlapping meaning, i.e., 'unimportant'. These descriptions are summarized in Table 9, in which the corresponding meanings of little/small in Table 3 are marked in the right-hand column.

Table 9

Meanings of lek4, no:j4 and lek4no:j4 from a Thai Dictionary

Sense	lek4	nO:j4	lek4nɔːj4	Meaning
smaller in size	X lek4kwa:2 Y			1 'small in size'
	'X is smaller than Y'			
not big	ba:n3laŋ5ni:4			1 'small in size'
	lek4			
	'this house is small'			
unimportant	rw:aŋ3lek4		rw:aŋ3	6
	'small matter'		lek4nɔ:j4	'unimportant'
			'little matter'	
not many		fon5n0:j4		2 'small in
		'little rain',		quantity'
		mi:1ŋ४n1		
		no:j4		
		'have little money'		
low in rank		kʰaːɜ.raːtɜ.kaːn1cʰ		13 'low in
		an4pʰuː3nɔːj4		status'
		'low rank officer'		
less important	_	p ^h u:3nɔ:j4		13 'low in
		'inferior'		status'
feeling like		dek2n0:j4		3 'added
		'little boy'		attitude'

Frequency of no:j4 and lek4

For a better understanding of the two Thai synonymous words no :j4 and lek4, the Thai National Corpus (TNC) is used as a reference corpus. The Thai National Corpus web¹ and COPweb at Lancaster² are used to guery the corpus. Of the total findings, lek4 has 18,993 occurrences, while no:j4 has 29,422 occurrences, and lek4 no : i4 has 3,997 occurrences. To investigate the actual use of these words, 100 samples of concordances for each word, lek4, no: j4 and lek4 no: j4, were randomly extracted and analyzed. Eight additional meanings are found in these samples. They are highlighted in Table 10. The number at the head of each row corresponds to the meaning number of little/small in Table 3. The word lek4 can refer to 'small in group' (8), (e.g., chum1 chon1-lek4 'community-small') 'young' (5) and 'small (voice)' (10) in a similar way to small. But for the meaning 'not complicated' (12), lek4 corresponds to little, not small. In Thai, a research project is considered 'not complicated' by using the word kha2 na:t2-lek4 'size-small'. The words no:i4 and lek4no:j4 can refer to 'small in degree' (7), e.g., ?o:1ka:t2-no:j4 'chancelittle', lot4 lon1 -lek4 no :j4 'decrease-little_bit', and 'short in time' (4), e.g., we:1la:1-no:j4 'time-little', du:1-nan3-du:1-ni:3-lek4no:j4 'look-those-lookthese-little bit', which is similar to the use of *little*. As for lek4n2:j4, its usages seem to correspond to no:j4 rather than lek4. It can be used for 'small in quantity' (2), 'short in time' (4), 'small in degree' (7) like those in no :j4. lek4 no :j4 is a type of compound in Thai, called 'semantic doublet' (Vongvipanond, 1985). Besides semantic doublets, reduplication is another type of compound often used in Thai to intensify the meaning. Therefore, it is not surprising to find reduplications of the three words, lek4lek4 'small-these samples. Moreover, another type of compound, appositive compound (Booij, 2007:98), e.g., ma:k3n2:j4 'many-little' is also found to denote the meaning of 'more or less' and another semantic doublet _lek4_no :j4 is also found in the samples.

Table 10

Meaning Analysis of lek4, no:j4, lek4no:j4

		lek4	nO:j4	lek4 nɔːj4	lek4 lek4	nɔːj4 nɔːj4	lek4 lek4 nɔːj4	_ lek4 _nɔːj4
	Meaning						nD:j4	
1	'small in size'	34			13		-	
2	'small in quantity'		45	27				
3	'added attitude'		7			1		
4	'short in time/ distance/							
	length'		2	23				
5	'young'	15			5			
6	'unimportant'	2		12	1		8	3
7	'small in degree'		6	38				
8	'small in group'	13			1			
10	'small (voice)'	1						
12	'not complicated'	1			1			

Though the meaning 'low in status' (13) is found in the samples, it is analyzed as a compound, e.g., mi:a1 no:j4 'concubine', chon1 klum2 no:j4 'minority group'. Thus, it is not presented in the above table. In fact, the examples presented in the Thai dictionary, khru:1no:j4 'lower rank teacher', phu:3 no:j4 'lower rank person', can also be analyzed as a compound. Therefore, this meaning is omitted in Table 10. The total meanings found for lek4 and no:j4, then, are ten meanings.

Collocates of lek4, no:j4 and lek4no:j4

The analysis in the previous section suggests that lek4 and no:j4 are used in different contexts. lek4no:j4 can be used in the same meanings, mostly as no:j4 because it is a semantic doublet, which is an intensifier of no:j4. However, analyzing their collocates will be required to verify this conclusion.

Since TNC does not have POS tags and the collocates of these words can appear in many positions on the left side of the words, CQPweb was applied to limit the search for only the top collocates that are 1-5 words on the left side of lek4, no:j4, and lek4no:j4 and to rank the results by Log Ratio values (Hardie, 2014). The result should yield many candidates but not all of them are true collocates. To confirm that the words on the collocation lists are the true collocates, the researchers need to manually look through the concordance lines of each result.

To manually analyze the three lists of collocates, the top 100 collocates extracted from each list were reviewed and marked for the one that is a true collocate. The number of collocates found for lek4, no:j4 and lek4no:j4 are 21, 28, and 28 respectively. Collocates shared by two words are shown in Table 11.

Table 11

Top Shared Collocates of lek4, no:j4, and lek4no:j4

collocate	lek4	nɔːj4	lek4nɔːj4	notes
dek2	'young'	'added attitude'		
'child'				
?oŋ1	'young'	'added attitude'		
'person'				
lem3	'small in size'	'added attitude'		
CLSS				
kuŋ3	'small in size'	'added attitude'		
'shrimp'				
sat2	'small in size'	doublet		sat2lek4sat2n0:j4,
'animal'				sat2n0:j4jaj2
tum2	'small in size'	doublet		tum2lek4tum2n3:j4
'pimple'	doublet			,
ra:n4	'small in size'	doublet		ra:n4lek4ra:n4nɔ:j4,
'store'	doublet			ra:n4lek4lek4
hɔ:ŋ3	'small in size'	doublet		ho:ŋɜlek4ho:ŋɜnɔ:j4
'room'	doublet			3 3 ,
jaj2	compound	compound		jaj2lek4, jaj2n0:j4
'large'	•	•		, , , , ,
rw:aŋ3	'unimportant'		'unimportant'	
'matter'	-		-	
pu:aj2		'unimportant'	'unimportant'	
'sick'		-	-	
jim4		'small in degree'	'small in degree'	im4nɔːj4 nɔːj4
'smile'		_	_	, , ,

sa2.wa:ŋ2	'small in degree'	'small in degree'
'bright'		
k ^h o:ŋ4	'small in degree'	'small in degree'
'curve'		
k ^h εŋ5	'small in degree'	'small in degree'
'hard'		
phv:m3	'small in	'small in
'increase'	quantity'	quantity'

Both lek4 and no:j4 are found to denote the meanings of 'small in size' and 'young'. Only no:j4, however, can be used with an added attitude, i.e., the implied feeling of like or love towards an object referred to by the noun collocates. To intensify the meaning of 'small in size', a reduplication lek4lek4 is used. Another kind of semantic doublet, _lek4_no:j4, is used to indicate plurality. This kind of semantic doublet is productive and found in the samples, e.g., tum2lek4tum2no:j4, ra:n4lek4ra:n4no:j4, ho:ŋ3lek4ho:ŋ3no:j4, etc.

Besides semantic doublets, another type of compound, appositive compounds, jaj2lek4, jaj2n3:j4, n3:j4jaj2, lek4jaj2, ma:k3n3:j4, are also found. These are compounds formed by either of the two words, lek4 or n3:j4, being combined with its oppositions, jaj2 or ma:k3. To signify the meaning 'big or small' or 'more or less'. The opposition word can be placed before or after the word. Only one combination, n3:j4ma:k3, is not possible because it means 'very little' due to the word order and the meaning of ma:k3 'many'. (ch3:p3-ma:k3 'like-more' would mean 'like (something) very much'.)

One remarkable use of no:j4 is that it is often found collocated with a negation in Thai for the meaning of 'many'. That is, maj3no:j4 is found 4,460 times (128.2/million), compared to maj3lek4, which is found only 465 times (13.4/million).

In addition to the shared collocates above, lek4 and no:j4 seem to have different sets of preferred collocates as well. These collocates are listed in Table 12. Most of the collocates of lek4 are nouns and the meaning 'small in size' is applied. As for no:j4, most of the collocates are predicates. Though the preference lists of no:j4 and lek4no:j4 in Table 12 are distinct from each other, collocates that are a predicate can co-occur with either no:j4 or lek4no:j4. This is because lek4no:j4 is usually an intensifier of no:j4.

Table 12

Preferred collocates of lek4, no:j4, and lek4no:j4

Word	Collocates
lek4	ra:ŋ3 klum2 nɔ:ŋ4 hɔ:ŋ3 ra:n4 met4 sat2 tum2 kɛ:w3 cʰɔ:ŋ3 run3 hun2
	khem5 pa:j3 cho:3 krig2 phum3
nɔ:j4	pen1 hens num2 khaiŋ3 caij2 saiŋ3 phain2 thuk4 chui:a3 chaiŋ4 nuŋ3
	t ^h uŋ3 sɔ:m4 t ^h a:j2
lek4nɔ:j4	ta:ŋ2 kep2 chu:aj3 ri:2 pli:an2 rew1 jui:aŋ4 klin2 bi:aŋ2 khem1 da:ŋ2
	khem3 da:j3 kɔ:n2 γɔ:n2 pri:aw3 bui:a2 bεŋ2 ʔun2 thiŋ4 li:aw4

The analysis of collocation confirms the ten meanings found for the word lek4, no:j4, and lek4no:j4. Lek4 is used for the meaning of 'small in size' while no:j4 is used for that of small amount or degree of something. When no:j4 is used to signify 'small in size', it is often used with added attitude toward the object.

Comparison of English and Thai near synonyms

The analyses in Sections 3 and 4 seem to suggest that *little/small* and nɔ:j4/lek4 do have similar meanings. Oxford-River Books Concise English-Thai Dictionary (Mallikamas et al., 2010) gives equivalent translations for *little* (adj.) as (a) lek4 'small'; (b) jaw1waj1 'young'; (c) ti:a3 'short (person)' or san3 'short (time or distance)'; (d) lek4nɔ:j4 'not much'; (e) lek4, lek4nɔ:j4, nɔ:j4 'trivial'. As for small (adj.), this dictionary gives equivalent translations as (a) lek4 'small in size', khap4khɛ:p3 'small (area)', khɔ:j3 'not loud'; (b) kha2na:t2lek4 'small in scale (business)'; (c) jaw1 'young'; (d) kha2na:t2lek4 'small letter'; (e) nɔ:j4 'not much'; (f) mi:1 kha:3nɔ:j4 'trifling'; (g) rɔ:n1 'minor'; (h) khɛ:p3 'petty'; (i) la4?i:at2 'fine'. It can be seen from this bilingual dictionary that there are other Thai translation terms for *little/small* apart from nɔ:j4 and lek4.

Translation of little and small into Thai

To find out more about Thai equivalent terms for translating *little/small*, an English-Thai parallel corpus was used. Five hundred samples of translation containing the word *little/small* were randomly extracted from the English-Thai parallel concordance³. Its equivalent term in Thai was identified from each translation and summarized in Table 13. Analysis of

meanings here is based on Thai translation words not *little* or *small* in English. Although each sense of *little* or *small* in the source text can be identified with the meanings listed in Table 3, the analysis of Thai translated words should provide the actual meanings of no:j4 or lek4 and other related words.

Table 13

Translations of little and small

Word	Translation	Meaning	
little	lek4nɔ:j4 30, nɔ:j2 28, nit4nɔ:j2 22, nit4nɯŋ1 10,	(7) 'small in degree'	
	nit4nung2 4, nit4nit4 4, nit4 3, no:j4ma:k3 2, no:j2no:j2 2,		
	mɛ:4pʰi:aŋ1nɔ:j4nit4 1, tʰi:1.la4nɔ:j4nɔ:j4 1, nɔ:j4 1,		
	nit4di:aw1 1, no:j2nunj1 1		
	lek4 37, lek4lek4 35, lek4nit4di:aw1 2, nit4di:aw1 1,	(1) 'small in size'	
	nɔːj2nɯŋ1 1, lek4lek4baːŋ1baːŋ1 1, tuːa1lek4tuːa1nɔːj4 1		
	nit4nɔ:j2 14, nɔ:j2 14, nit4nuŋ1 8, nit4di:aw1 6, nɔ:j4 3,	(2) 'small in	
	nɔ:j4nɔ:j2 3, lek4lek4nɔ:j4nɔ:j4 2, lek4nɔ:j4 2, sak2nɔ:j2	quantity'	
	2, sak2nit4 1, ?i:k2nɔ:j2 1		
	nɔ:j2 23, nit4nɔ:j2 8, nit4nuŋ1 3, nɔ:j4 2, ʔi:k2nɔ:j2 2,	(4) 'short in time/	
	sakeneje 1, sakenita 1, peipa 1, peipanun 1, ?i:kepeipa	distance/length'	
	1, san3san3 1		
	nit4nɔ:j2 8, lek4lek4nɔ:j4 nɔ:j4 3, lek4 lek4 2, lek4nɔ:j4 1,	(6) 'unimportant'	
	nit4nit4nɔ:j2nɔ:j2 1		
	no:j4 9, no:j4no:j4 4	(3) 'added attitude'	
	lek4 4, khon1lek4 1	(5) 'young'	
	lek4lek4 1	(8) 'small in group'	
	baw1baw1 4	(10) 'small (voice)'	
	tam2tɔ:j3 1	(13) 'low in status'	
	maj3khɔ:j3 4, maj3thaw3raj2 1, maj3da:j3ma:k3 1,	negation	
	maj3da:j3ma:k3nak41, maj3ñ 1, maj3na:n11, maj3ma:k3		
	1, maj3ma:k3nak4 1		
	li4txn3 12 (<i>little</i>)	transliteration	
	kho:n3kha:n3 5, ba:n3 3, phi:an1 2, paj1 2, paj1no:j2 2,	others	
	kv:n1paj1 1, kv:n1paj1n0:j2 1, phi:ag1kh ϵ :3 1, kh ϵ :3 1,		
	kʰraːw3 kʰraːw3 1, ŋuː1 ŋuː1 plaː1 plaː1 1		
small	lek4 319, lek4lek4 51, lek4cɔ:j3 2, lek4sut2 2, lek4nit4nɔ:j2	(1) 'small in size'	
	1, lek4nɔ:j2 1, si:aw3 1, nit4di:aw1 1, bɔ:p2ba:ŋ1 1,		
	t ^h a:t2lek4 1		

	(/, 11
lek4lek4 8, nit4nɔ:j2 4, lek4 lek4nɔ:j4 nɔ:j4 4, lek4nɔ:j4 2,	(6) 'unimportant'
nit4nun 2, lek4 2	
lek4nɔ:j4 6, nit4nɔ:j2 4, nɔ:j4 2, nit4nɯŋı 2, nit4di:awı 1,	(2) 'small in
nɔ:j4nɔ:j4 1	quantity'
nit4nɔ:j2 2, lek4lek4 1, lek4nɔ:j4 1, ca:ŋıca:ŋı 1	(7) 'small in degree'
lek4lek4 4	(8) 'small in group'
lek4 1, bawibawi 1, bawi 1	(10) 'small (voice)'
lek4 1	(5) 'young'
nit4nɔ:j2 1, ti:a3ti:a3 1	(4) 'short in time/
	distance/length'
lek4 1	(9) 'small (letter)'
raj4 kʰaː3 2, raj4 kʰwaːmɪmaːj5 1	(12) 'low in status'
sa2mɔ:nı 2 (<i>small</i>)	transliteration
maj3jaj2ma:k3 2, maj3ki:2khon1 1, maj3rap4ru:41	negation
*lek4 1, jaj2nɔ:j4 1, *kʰa2na:tzlek4 1, tʰi:ɜri:apɜŋa:j3 1,	others
ba:ŋ1(we:1.la:1) 1, la4?i:at2 1	

It can be seen that little/small are not always translated into no:j4, lek4, or lek4no: j4. Variant forms of these words are found in translation such as, lek4nit4di:aw1, lek4nɔ:j2, nɔ:j4nɔ:j2, etc. Small seems to be translated mostly into lek4 (including its variants), while little seems to be translated into various forms. They can be omitted in the translation in some cases. Twenty six percent of *little* (130/500) is omitted in the translating process, while only ten percent of small (50/500) is omitted. There are words other than no:j4/lek4 being used in the translation. Many of them have similar meanings to nɔ:j4/lek4/lek4nɔ:j4. For example, nit4nɔ:j2, nit4di:aw1, nit4nun1, etc., mean 'small in degree' or 'small in quantity'; pε:p4, pε:p4nun1 mean 'short in time'; tam2t3:j3 means 'low in status'; kh3:j3, baw1 mean 'small (voice)'; ti:a3ti:a3 means 'short (height)' or san3 san3 means 'short (distance)'. In many cases, since the translation does not need to be done word for word, little/small are often omitted or translated using other words to keep the overall meaning of the text. We found other words in the translation of little/small, such as k^h D:n3 k^h a:n3, k^h E:3, p^h i:an1, kY:n1paj1, ba:n3, k^h ra:w3 k^h ra:w3, etc.

Comparing little/small and no:j4/lek4/lek4no:j4

According to the above analysis, *little/small* can be translated into no:j4, lek4, lek4no:j4 including their variant forms and other related words. Some of the variant forms are more favored than these target words in certain

meanings. For example, all variant forms of no:j2 and nit4 are more used in the senses of 'small in degree' and 'small in quantity' than those of no:j4/lek4no:j4. Some senses of small, such as 'small (voice)', 'short in distance' are translated into other Thai words 'baw1' and 'ti:a3'. In addition, little/small can have their meanings extended into other related senses through being translated into other words. These words usually have other English equivalent terms apart from little/small. This explains why the bilingual English-Thai dictionary gives more meanings than those defined in English dictionaries, i.e., khap4khe:p3 'small (area)', la4?i:at2 'fine'. In a Thai-English translation text, it might be possible to find lek4 and no:j4 being translated into words other than little or small as well. In fact, a list of words sharing similar meanings to little/small can be obtained from a thesaurus, e.g., low, slight, minor, compact, tiny, minute, short, etc. Therefore, this study will focus on a comparison between little/small and lek4/no:j4/lek4no:j4 to explore whether they are equivalent terms or not.

Table 14

Mapping between little/small and no:j4/lek4

		little	nO:j4	lek4nɔːj4	small	lek4
1	'small in size'	X			X	ТС
2	'small in quantity'	X	ТС	ТС	X	
3	'added attitude'	X	ТС		-	
4	'short in time/		ТС	С		
	distance/length'	X			X	
5	'young'	X			X	ТC
6	'unimportant'	X		ТС	-	ТC
7	'small in degree'	X	С	ТС	X	T
8	'small in group'	X			X	ТС
9	'small (letter)'	-			X	ТС
10	'small (voice)'	X			-	ТС
11	'feel small'	-			-	
12	'not complicated'	X			-	С
13	'low in status'	X		•	-	

Table 14 shows the meanings of *little/small* from Table 3 and those of no:j4/lek4/lek4no:j4 found from the analysis of TNC (marked by C) and Thai translation (marked by T). It can be seen that no:j4/lek4/lek4no:j4 are not exactly equivalent in meaning to *little/small*. While *little* and *small* can be used for 'small in size', 'young' or 'small in group' only lek4 can be used in these

senses. Little seems to be used in more varied senses than others. Some senses, such as 'short in length', 'low in status' are translated into other Thai words, not lek4/nɔ:j4/lek4nɔ:j4. In Thai, only lek4 can be used for 'small in size', while rom: i.c. lek4n2; seem to be used for 'small in quantity'. This is different from little/small because little/small can be used in both senses. Given that lek4n0:j4 is an intensifier of no:j4, those senses covered by both no:j4 and lek4no;j4 will be close to little than small. no:j4/lek4no:j4 can be used like little for the meanings of 'small in quantity', 'added attitude', 'short in time/distance/ length', 'unimportant' and 'small in degree', while lek4 can be used like small for the meanings of 'small in size', 'young', 'unimportant', 'small in degree', 'small in group' and 'small (letter)'. However, some senses of little, i.e., 'small in group', 'small (voice)' and 'not complicated' can equate with that of lek4 but not no: j4. Moreover, some senses of little are mapped to other Thai words, such as 'low in status' - tam2to:j3, 'small (voice)' - baw1baw1. This result indicates that the two synonymous words little/small and no:j4/lek4 are not exactly equal, which, consequently, can confuse language learners.

Discussion

In practice, learners can use their native language knowledge to equate the target word in the other language. Thai learners might try to equate no: j4 with little and lek4 with small, but the analysis here shows that they are not truly equivalent in all contexts. Learners should be aware of this fact. They need to understand the senses and usages of the target word by first consulting a learner dictionary. All senses and patterns of use of the target word, usually compiled from a corpus, are listed in the dictionary. But if information provided in the learner dictionary is not sufficient, learners can use a large corpus to search for the actual uses themselves. In cases where a comprehensive dictionary does not yet exist in the target language, corpora are greatly needed to derive different senses and usages of the target word. In addition, when using a large corpus, collocates that are preferred for each synonymous word can be easily drawn. Learners can use this finding to confirm their word choice but when the same collocates are found for both synonymous words, whether or not they are truly interchangeable needs to be examined.

Learners can learn more about synonymous words by using a bilingual dictionary to look for equivalent words in the target language. They will usually get a list of possible translated words but this information alone does

not help them in selecting the right target word. They still need to consult a learner dictionary or a corpus to understand the correct uses. Using a parallel corpus can confirm that it is possible to use other target words. In this study, a sentence containing *little/small* may not have no:j4/lek4 in the translation. Other words related to some senses of *little/small* can be seen in the parallel corpus. Learners, then, should be aware of other word choices. They should learn how to use words not limited solely to *little/small*.

In sum, Little/small are frequently used words describing the small size and quantity of objects. Since these are common concepts shared among languages, it is easy to find 'equivalent' words in other languages. However, this study shows that not all the senses used in one form can be mapped on to the 'equivalent' word in another language. Language learners must learn which senses can equate with that 'equivalent' word and which senses cannot. In addition, these words, when translated into other languages, can have their meanings extended into related senses through other word forms. This indicates the complexity of meanings which can be expressed by a variety of related words. When learning a foreign language, learners, therefore, must be aware of the complexity of meanings across languages. Equivalent terms in bilingual dictionaries and learner dictionaries alone can provide only basic usages of the words. Learning to use and acquire more information from native and parallel corpora is useful for language learners truly to understand the language.

Moreover, in cases of words that are culturally bound, whose meanings do not precisely equate with words in another language, this may result in even more difficulties for language learners, as the information provided in bilingual dictionaries cannot be exactly mapped. For example, cooking terms like *grill, roast* and *toast*, are translated into Thai as *grill* – (1) piŋ3 or ja:ŋ3, *roast* – (1) piŋ3 or ja:ŋ3; (2) ?op2, *toast* – (1) piŋ3 (Oxford-River Books English-Thai Dictionary). This might cause some difficulties for learners since the translations in the target language overlap one another and do not truly show the exact meanings of these three words, *grill/roast/toast*. Though learner dictionaries may provide some explanation of these three terms, the meanings of cooking terms in Thai may not exactly match. Thai learners of English must learn not only the meanings in English but also the meaning in Thai as well. Therefore, it is advisable that they learn how to use corpora as a resource to enhance their learning of all foreign languages.

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² https://cqpweb.lancs.ac.uk/

³ https://www.arts.chula.ac.th/~ling/ParaConc/

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Appendix A

Python Coded for Sentiment Analysis

```
#!/usr/bin/env python
# -*- coding: utf 8 -*-
## test sentiment of data
import nltk
from nltk.sentiment import SentimentIntensityAnalyzer
nltk.download('vader_lexicon')
import pandas as pd
df = pd.read_csv('input.csv')
df["Score"] = pd.NaT
df["VADER"] = pd.NaT
sia = SentimentIntensityAnalyzer()
for index, row in df.iterrows():
  print(index,'=',row['Word'],row['Context'])
  df.at[index,'Score'] = sia.polarity_scores(row['Context'])["compound"]
  print(df.at[index,'Score'])
  if df.at[index,'Score'] > 0.3:
     df.at[index,'VADER'] = 'POS'
  elif df.at[index,'Score'] < -0.3:
     df.at[index,'VADER'] = 'NEG'
  else:
     df.at[index,'VADER'] = 'NEU'
df.to_csv('out.csv')
```