# Multi－Word Sequences in Legal Discourse 

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Key words： n 重字，連語，コロケーション，定型語句論，司法英語
n－gram，multi－word sequences，collocation，phraseology，legal discourse


#### Abstract

The objectives of this article are to select a sample entry word for the project of compiling a corpus－based production－oriented legal English dictionary for the Japanese students of law．The article first discusses collocation，the way words are actually used with other words in our communication．Next，the theory of n－grams is introduced to find frequent multi－word sequences used in the BNC and in the legal corpora which the author＇s project team compiled．Then，the characteristics of multi－word sequences are analyzed and compared between the general discourse and the legal discourse．It is found that in general discourse a wider variety of multi－word sequences are used at comparatively low frequencies while in legal discourse relatively limited types of multi－ word sequences，and proper names of laws and legal institutes are used at high frequencies．Finally，a sample head word application is selected and illustrated with typical collocates in order to help Japanese students of law be able to use them in more productive ways．


## 1. Collocation and collocates

It is often said that a word is not used alone. It is commonly used with other words in our communication. For example, a word dog is used 11,795 times in the British National Corpus (hereafter BNC for short), but based on the analysis with a computer software, Sketchengine, dog is used 3,378 times with pre-modifiers which describe dog (e.g. guide dog, stray dog, guard dog, pet dog, etc.) and used 1,532 times with other nouns which dog pre-modifies (e.g. dog owner, dog handler, dog warden, dog food, etc.). dog is used 2,930 times as the subject of many types of verbs (e.g. dog bark, dog eat, dog chase, dog run, etc.) and 3,454 times as the object of various types of verbs (e.g. walk dog, train dog, bark dog, keep dog, etc.). This linguistic phenomenon that a word is used closely connected with other words is traditionally called collocation. The Oxford English Dictionary (1989) defines collocation as follows:
c. Linguistics. Habitual juxtaposition or association, in the sentences of a language, of a particular word with other particular words; a group of words so associated.

Introduced by J. R. Firth as a technical term in modern Linguistics,...

John Rupert Firth (1957), the founder of the London school, explained the nature of a word in terms of the relationship with other words.

With the advent of computer technology, the study of collocation became more active and widespread. This is mainly due to the fact that the computer can examine massive linguistic data and find frequent sequences of words almost instantaneously. John Sinclair, who started the COBUILD project, defined collocation as follows:

Collocation is the occurrence of two or more words within a short space of each other in a text. (1991: 170)

Sinclair's definition of collocation is purely from the viewpoint of corpus linguistics which focuses on forms and sequences of words computers can recognize. Teubert (2004) emphasizes the importance of collocations and claims as follows:

Not single words but collocations constitute the true vocabulary of a language.

His claim sounds rather too extreme as Leech (2011) criticizes by pointing out that Teubert does not consider the idiom principle claimed by Sinclair (1991). However, we can tell that collocations are the key to understanding how the words are actually used in real communication.

Yet, one may ask that if only some words co-occur side by side frequently, is it all right to call them collocations? If we look at natural language use, we can find hundreds of examples where some high frequency words co-occur with others extremely often. For example, the and of are ranked as the two most frequent words in the BNC; the occurring $5,415,707$ times and of 3,027,441 times, and the combination of of and the occurs 753,195 times, the most frequent two-word combination in the BNC. But no one thinks of this combination as a collocation because the population of these two words is so large that it is quite natural that the chances of these two words co-occurring are also high.

Consequently, how can we distinguish real collocations from others? Corpus linguistics often tried to find the answer to this kind of question in statistics. Nowadays statistical formulae are built into most computer software. Scketchengine, for instance, has seven built-in statistical formulae, namely T-score, MI, MI3, log likelihood, min. sensitivity, logDice, MI.log_f, to help us find useful collocations.

The linguistic phenomena of collocation have received considerable attention from the dictionary writers and editors. Many English dictionaries published these days, i.e. Longman Dictionary of Contemporary English (2014) (hereafter LDOCE for short), Collins COBUILD Advanced Learner's Dictionary (2014) (hereafter COBUILD for short), The Wisdom English-Japanese Dictionary (2013), and Genius English-Japanese Dictionary (2014), and Oxford Advanced Learner's Dictionary (2015) have useful information on collocations, and many outstanding English collocation dictionaries and thesauruses are also published based on the achievements of corpus linguistics, i.e. Oxford Collocations Dictionary for Students of English (2009) and Longman Collocations Dictionary and Thesaurus (2013).

## 2. Multi-word sequences based on n-gram analysis

With the help of computer software, we can make an exhaustive collocation list of a particular word instantaneously if we specify the node word we want to survey. In this case, how can we find the word we think useful to survey its collocates in the discourse? One of the most effective ways is to make use of the n-gram model. The idea of n-grams was originally advocated by Claude Elwood Shannon (1964). He explains the n-gram model as follows:

The zero-order approximation is obtained by choosing all letters with the same
probability and independently. The first-order approximation is obtained by choosing successive letters independently... In the second-order approximation, diagram structure is introduced. After a letter is chosen, the next one is chosen in according with the frequencies with which the various letters follow the first one... In the third-order approximation, trigram structure is introduced. Each letter is chosen with probabilities which depend on the preceding two leters. (pp. 42-3)

Shannon (1964: 43) named second-order approximation digram structure, third-order approximation trigram structure, and tetragram structure a n-gram. An n-gram in linguistics is a sequence of a given number of particular linguistic elements, typically words or letters. The occurrence count of $n$-grams shows how frequently these $n$-grams appear in a particular piece of discourse. The idea of $n$-grams can be explained as follows. Suppose there is a piece of discourse as follows:

The boys played baseball in the park but the girls played baseball in the field.

When the value of $n$ is 1 , we divide the discourse by one word as follows:

The/boys/played/baseball/in/the/park/but/the/girls/played/baseball/in/the/field.

The consequences are: we have 15 subdivisions which are grouped by a word form; the (4), baseball (2), in (2), played (2), boys (1), but (1), field (1), girls (1), park (1). The word the is used four times; baseball, in and played are used twice.

When the value of n is 2 , we divide the discourse by two word forms as follows:

The boys/played baseball/in the/park but/the girls/played baseball/in the/field.
The/boys played/baseball in/the park/but the/girls played/baseball in/the field.

Notice that there are two patterns of cutting the discourse: the one starts cutting after the second word boys, the other starts cutting the discourse after the first word The. The results are: we have 16 subdivisions, 14 of them are made up of two words and two of them with one word. The details are as follows: played baseball (2), in the (2), baseball in (2), the boys (1), park but (1), the girls (1), boys played (1), baseball in (2), the park (1), but the (1), girls played (1), the field (1), field (1), the (1).

When the value of n is 3 , we divide the discourse by three words as follows:

The boys played/baseball in the/park but the/girls played baseball/in the field. The boys/played baseball in/the park but/the girls played/baseball in the/field. The/boys played baseball/in the park/but the girls/played baseball in/the field.

The results are: we have 13 three-word subdivisions, two two-word subdivisions and two one-word subdivisions. We have 11 different types of thee-word slots: the boys played (1), baseball in the (2), park but the (1), girls played baseball (1), in the field (1), played baseball in (2), the park but (1), the girls played (1), boys played baseball (1), in the park (1), but the girls (1), two different types of two-word subdivisions: the boys (1), the field (1), and two different types of one-word subdivisions: field (1), the (1).

The analysis of n -grams indicates the probability that a certain word is more likely to co-occur with particular words than others. For example, from the analysis of the above small experimental sample discourse, we found that baseball is more likely to occur after play, and so does the after in and in after baseball.

I did the same experimental analysis on the BNC using the n-gram formula built in Sketchengine. The findings are shown in Table 1 below:

Table 1. N-grams in the BNC

| 1-gram |  | 2-grams |  | 3-grams |  | 4-grams |  | 5-grams |  | 6-grams |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| the | 54157.07 | of the | 7531.95 | I do n't | 371.47 | I do n't know | 119.04 | at the end of the | 37.9 | on the other side of the | 6.21 |
| of | 30274.41 | in the | 4801.92 | one of the | 297.8 | the end of the | 103.74 | I do n't know what | 18.01 | at the end of the day | 6.03 |
| to | 25669.78 | to the | 2869.59 | the end of | 207.19 | at the end of | 78.44 | I do n't want to | 17.97 | ask the Secretary of State for | 6.01 |
| and | 25121.71 | on the | 2075.57 | as well as | 168.46 | I do n't think | 69.85 | in the middle of the | 14.14 | To ask the Secretary of State | 5.95 |
| a | 20418.49 | and the | 1882.28 | part of the | 166.99 | at the same time | 48.12 | as a result of the | 13.72 | mm mm mm mm mm | 4.39 |
| in | 17877.23 | to be | 1878.62 | do n't know | 154.06 | the rest of the | 47.12 | by the end of the | 13.28 | from the point of view of | 4.03 |
| that | 10623.85 | for the | 1595.8 | out of the | 152.38 | for the first time | 47.12 | the other side of the | 12.08 | by the end of the year | 3.97 |
| is | 9729.21 | at the | 1380.48 | a number of | 137.9 | per cent of the | 45.22 | the Secretary of State for | 12.08 | my hon. Friend the Member for | 3.63 |
| was | 8778.6 | that the | 1271.84 | a lot of | 136.64 | as a result of | 44.68 | at the time of the | 10.23 | in such a way as to | 3.46 |
| I | 8618.25 | by the | 1253.65 | end of the | 133.97 | one of the most | 32.86 | I do n't think I | 9.96 | in the middle of the night | 2.64 |
| for | 8318.05 | with the | 1241.54 | be able to | 133.82 | is one of the | 32.67 | the end of the year | 9.35 | the Department of Trade and Industry | 2.57 |
| it | 8197.97 | of a | 1240.2 | some of the | 128.85 | do n't want to | 32.66 | at the top of the | 9.35 | in the second half of the | 2.47 |
| on | 6950.02 | from the | 1203.7 | to be a | 116.97 | in the case of | 32.45 | for the first time in | 8.66 | at the other end of the | 2.41 |
| be | 6485.75 | in a | 1064.86 | the fact that | 113.74 | I do n't want | 32.39 | I do n't know how | 8.48 | Secretary of State for the Environment | 2.37 |
| with | 6404.2 | it is | 909.29 | per cent of | 113.35 | to be able to | 31.67 | the end of the day | 8.45 | I do n't know what you | 2.35 |
| The | 6195.11 | it was | 864.02 | there is a | 104.77 | the Secretary of State | 30.59 | I do n't think it | 8.18 | I do n't want to be | 2.19 |
| as | 6035.79 | as a | 817.58 | I did n't | 103.53 | On the other hand | 28.36 | on the part of the | 8.14 | The hundred shares index closed down | 2.18 |
| you | 5747.82 | do n't | 815.16 | in order to | 102.22 | in the form of | 27.57 | at the beginning of the | 7.89 | the Secretary of State for the | 2.17 |
| at | 4872.49 | is a | 777.14 | I ca n't | 99.86 | on the basis of | 27.43 | At the end of the | 7.62 | if he will make a statement | 2.13 |
| by | 4867.25 | with a | 757.64 | in terms of | 93.56 | the top of the | 26.73 | on the other side of | 7.46 | The hundred shares index closed up | 2.11 |

As you see, 1-grams are the same as the occurrence counts of individual words in the $B N C$. The results of 2-grams are more like the combinations of the frequent 1-grams. All of these top 20 two-word sequences are the combinations of frequent grammatical words. In
the 3-gram list some lexical words such as end, part, know, number, able, fact, and terms appear. Some of these three-word sequences are traditionally recognized as set phrases or phrasal expressions. All the 4 -gram examples are cohesive sequences of four words we often recognized as a semantic unit in our daily communication. 5 -grams and 6 -grams are more like adding one or two more words to the 4-gram set phrase sequences.

These frequent multi-word sequences have received a lot of attention from many linguists. Sinclair (1991) argued the nature of these groups of words under the name of "idiom principle". Huston and Francis (1996) wrote "Pattern Grammar" based on these frequent word sequences. Biber (2006) named them "lexical bundles" and examined the use of these frequent multi-word sequences in the academic context. Yamada (2007) applied the n -gram theory to the analysis of Chinese classics. Stubbs (2007) argued phraseology from the viewpoint of n-grams. Koyama (2008, 2009) applied multi-word expressions to the ESP in science and technology. Simpson-Vlach and Ellis (2010) compared the academic speech and writing corpora of 2.1 million words each with the Switchboard corpus of 2.9 million words, the FLOB and Frown corpora. They extracted 607 written and spoken academic word sequences and categorized them under the functional categories. Martinez and Schmitt (2012) made the Phrasal Expressions List of 505 frequent non-transparent academic multi-word sequences. They name multi-word sequences formulaic language, and claim as follows:
in essence, most definitions indicate that individual formulaic sequences behave much the same as individual words, matching a single meaning or function to a form, although that form consists of multiple orthographic or phonological words. (P.299)

## 3. Objectives, Data, and Methodology

The objectives of this paper are to explore the frequent multi-word sequences in legal discourse and try to apply the research findings to the project of compiling a corpus-based production-oriented legal English dictionary.

The data I am going to use in this article are the ones Professor Tamaruya, the College of Law and Politics, Rikkyo University, Associate Professor Takahashi, Miyagi University of Education, and I collected for the above project. This project is supported by the Japanese government funding for scientific research (\# 16H03458). The legal corpora I am going to use are as follows:

Law Journals issued in the United Kingdom in 2015 (hereafter abbreviated as UK LJ): 5,911,156 words. The articles are downloaded from the following law journals:

> Cambridge Law Journal, Dublin University Law Journal, Edinburgh Law Review, European Law Review, International \& Comparative Law Quarterly, Journal of Business Law, Law Quarterly Review, Legal Studies, Modern Law Review, Oxford Journal of Legal Studies, Public Law, Edinburgh Law Review, UCL Journal of Law and Jurisprudence

Law Journals issued in the United States in 2015 (hereafter abbreviated as US LJ): 5,952,782 words. The articles are downloaded from the law journals of the following universities:

Yale University, Harvard University, Stanford University, Columbia University, University of Chicago, New York University, University of Pennsylvania, University of California - Berkeley, University of Michigan - Ann Arbor, University of Virginia

I am going to use the corpus software, Sketch Engine, and the built-in statistical formulae it contains.

## 4. Quantitative analysis of legal discourse based on $\mathbf{n}$-grams

I analyzed how words are quantitatively used in legal discourse by using an n-gram research function. Appendix 1 shows how frequently the top 40 n -grams appear in legal discourse. I included in the appendix the top 40 n -grams of the BNC in order to compare legal discourse with general discourse. All the frequent counts are normalized per million words (hereafter abbreviated as cpm).

## 4. 1. Frequent 1-gram words

It is interesting that the top eight 1-gram words in the BNC, UK LJ and US LJ consist of exactly the same grammatical words, namely the, of, to, and, are, in, that and is, and the rest of the top 401 -gram words are very alike. As many as 27 words are common in the top 401 -gram lists of three corpora. They are:
a, an, and, are, as, at, be, but, by, for, from, has, have, in, is, it, not, of, on, or, that, the, this, to, was, which, with

Although these words are common, their ranking orders are different depending on the corpus. For example, it is ranked 12th in the BNC, but is ranked 15th in the UK LJ and 18th in the US LJ. At is 19th in the BNC, 30th in the UK LJ and 34th in the US LJ. However,
all these findings seem to indicate that even though the type of discourse is different, the fundamental grammatical structures constructed by these grammatical words are quantitatively similar. This becomes salient when we examine longer multi-word sequences later.

However, there are some significant differences between the general discourse and legal discourse. For example, personal pronouns are frequent in the BNC: I (ranked 10th), you (ranked 18th), he (ranked 21st), his (ranked 27th), her (ranked 36th), we (ranked 37th), one (ranked 39th), but they do not appear in the two legal corpora. Frequent use of personal pronouns often happens in our daily conversation as Biber (1988) claims that the frequent use of the first and the second pronouns are typical characteristics of "Involved Production" (p. 107), which Biber explains as follows:
associated in one way or another with an involved, non-informational focus, due to a primarily interactive or affective purpose and/or to highly constrained production circumstances. (p. 105)

Telephone conversations and face-to-face conversations are, according to Biber, typical registers of the involved production where you and $I$ are frequently used.

Another interesting linguistic phenomenon is the limited use of the past tense forms of the be verb in legal discourse compared with that in general discourse. As Table 2 shows, was is used 8,779 times (ranked 9th) and is is used 9,729 times (ranked 8th) in the BNC. We understand that was and is are used almost at the same frequencies in the BNC. On the other hand, the past tense be verbs are used much less frequently in legal discourse. Was is used 5,222 times (ranked 21th) in the UK LJ and is used 2,764 times (ranked 31st) in the US LJ. Was occurs about one third or one fourth as frequently as is in frequencies in legal discourse. The same phenomenon can be observed in the use of were and are in the BNC and in the legal corpora. The frequencies of was and were are only one third or one fourth of the frequencies of is and are in the legal corpora. This infrequent use of past tense in legal discourse is one of the salient characteristics of official documents (Biber 1988).

Table 2. Frequencies of was, is, were and are.

|  | was |  | is |  | were |  | are |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | cpm | rank | cpm | rank | cpm | rank | cpm | rank |
| BNC | 8,779 | 9 | 9,729 | 8 | 3,120 | 35 | 4,551 | 22 |
| UK LJ | 5,222 | 20 | 14,870 | 8 | 1,641 | 54 | 4,776 | 24 |
| US LJ | 2,764 | 31 | 11,551 | 8 | 1,654 | 53 | 5,563 | 15 |

## 4. 2. 2-gram word sequences

Most of the top 40 2-gram word sequences in each corpus are basically the combinations of their top 401 -grams. The preposition-definite article combination is outnumbered. In the BNC 11 out of 40 2-grams are this type of combinations which sum up to 25,046 counts per million words, accounting for $62 \%$ of the total number of the top 402 -grams of $40,214 \mathrm{cpm}$. If we include the total number of preposition-indefinite article combinations, they will account for $75 \%$ of the top 40 2-grams in the BNC. This high percentage of preposition-article combinations is basically the same in the legal corpora. The total number of preposition-definite article combinations is $33,941 \mathrm{cpm}$, accounting for $63 \%$ of the top 402 -grams in the UK LJ, and $22,937 \mathrm{cpm}$, accounting for $46 \%$ of the top 402 -grams in the US LJ. If we include preposition-indefinite article combinations these numbers will increase to $39,493 \mathrm{cpm}$ and $73 \%$ in the UK LJ, and $27,649 \mathrm{cpm}$ and $56 \%$ in the US LJ. (See Table 3 and Figure 1)

Table 3. Frequencies of combinations of a preposition/that/and and the article

|  | BNC | UK LJ | US LJ |
| :--- | ---: | ---: | ---: |
| prep + def. art | 25,046 | 33,941 | 24,204 |
| prep + indef. art | 5,152 | 5,552 | 4,711 |
| that + def. art | 1,272 | 3,696 | 2,821 |
| and + def. art | 1,882 | 2,245 | 1,774 |
| others | 6,861 | 8,785 | 15,974 |

Figure 1. Frequencies of preposition/that/and - article combinations


This high probability of the article occurring right after a preposition seems to be attributable to the structure of the prepositional phrase. It usually consists of a preposition and a noun phrase, and the noun phrase is more likely to start with the definite article than anything else. This very fundamental structure of the English prepositional phrase inevitably contributes to increasing the number of prepositiondefinite article combinations.

Other noteworthy examples are don't in the BNC and the Court in legal corpora. Biber (1988) pointed out that contractions are the third most salient characteristics of involved production. This explains why two more contractions, namely didn't (49th) and can't (96th), are found in the BNC while no contracted forms are found at all within the top 100 2-gram word sequences in the legal corpora. We can easily understand why a highly professional 2-gram like the Court is ranked high in legal discourse. Technical terms peculiar to legal English will become more common when the multi-word sequences become longer.

## 4. 3. 3-gram word sequences

The feature of 3-gram word sequences is completely different from that of 2-gram word sequences. Many of the 3-grams are often recognized as a set phrase or a multiple word expression. Unlike the 2 -grams, the meanings of these 3 -gram sequences are clear and understandable. This is mainly because most of these 3-gram word sequences contain a lexical word within them. The most common pattern of the three-word sequences is "a grammatical word + a lexical word + a grammatical word" (hereafter GLG for short). The following are all the 12 GLG structures found in the top 403 -grams in the BNC (the 4-grams expanded from the equivalent are listed on the right side for further reference with a newly added word being underlined):

```
the end of (207 cpm; 3rd)
as well as (168 cpm; 4th)
a number of ( 138 cpm ; 8th)
a lot of (137 cpm; 9th)
be able to (134 cpm; 11th)
the fact that (114 cpm; 14th)
per cent of (113 cpm; 15th)
in order to (102 cpm; 18th)
in terms of (94 cpm; 20th)
the number of ( \(86 \mathrm{cpm} ; 23 \mathrm{rd}\) )
the rest of ( \(80 \mathrm{cpm} ; 26 \mathrm{th}\) ) the rest of the, as a result of
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the use of ( $80 \mathrm{cpm} ; 28 \mathrm{th}$ )

In the BNC the total occurrence counts of the 12 GLG structures are 1,453 that account for $32 \%$ of the total occurrence of the top 403 -grams. Seven of these GLGs expand to 10 different types of 4-grams by adding either a new preposition to the head of the GLG or the definite article to the end of the GLG.

The following are the 20 GLG structures found in the UK LJ:

| the Court of ( $333 \mathrm{cpm} ; 1 \mathrm{st})$ | the Court of Appeal, the Court of Justice, |
| :--- | :--- |
|  | $\underline{\text { of the Court of }}$ |

in order to ( $328 \mathrm{cpm} ; 2 \mathrm{nd}$ )
the fact that ( $314 \mathrm{cpm} ; 3 \mathrm{rd}$ )
in relation to ( $298 \mathrm{cpm} ; 4 \mathrm{th}$ )
the right to ( $280 \mathrm{cpm} ; 5$ th)
as well as ( 272 cpm ; 6th)
the context of ( 237 cpm ; 11th)
the basis of ( $221 \mathrm{cpm} ; 12 \mathrm{th}$ )
a number of ( $211 \mathrm{cpm} ; 16 \mathrm{th}$ )
the scope of ( $210 \mathrm{cpm} ; 17 \mathrm{th}$ )
the law of ( $209 \mathrm{cpm} ; 18 \mathrm{th}$ )
the use of ( $202 \mathrm{cpm} ; 20 \mathrm{th}$ )
the application of ( $199 \mathrm{cpm} ; 22 \mathrm{nd}$ ) the application of the
in terms of ( $177 \mathrm{cpm} ; 28 \mathrm{th}$ )
in respect of ( $169 \mathrm{cpm} ; 30 \mathrm{th}$ )
the nature of ( $162 \mathrm{cpm} ; 33 \mathrm{rd}$ ) the nature of the
the absence of ( $161 \mathrm{cpm} ; 34 \mathrm{th}$ )
in case of (160 cpm; 35th)
the principle of ( $148 \mathrm{cpm} ; 38 \mathrm{th}$ )
a matter of (144 cpm; 40th)
in the absence of
in the case of
as a matter of
the Court of Appeal, the Court of Justice, of the Court of
the fact that the
in relation to the
of the right to
as well as the
in the context of, the context of the
on the basis of, the basis of the
the scope of the

In the UK LJ the total occurrence counts of the 20 GLG structures are 4,445, accounting for $53 \%$ of the total occurrence of the top 403 -grams. Seven of these GLGs expand to the 4 -grams by adding a new preposition to either end of their 3-grams. Eight of them become the 4 -grams by adding the definite article to the end of the GLGs, and one of them become two different types of 4-grams by adding a new technical proper noun.

The following are the 17 GLG structures in the US LJ:
as well as (237 cpm; 3rd)
in order to (183 cpm; 5th)
the use of (181 cpm; 6th)
the fact that ( $168 \mathrm{cpm} ; 9 \mathrm{th}$ )
with respect to (166cpm; 10th)
the context of (149 cpm; 12th)
the value of ( $137 \mathrm{cpm} ; 17 \mathrm{th}$ )
more likely to (132 cpm; 18th)
a number of ( $130 \mathrm{cpm} ; 20 \mathrm{th}$ )
the scope of (129 cpm; 21st)
in favor of (125 cpm; 22nd)
the number of (122 cpm; 26th)
the absence of ( $119 \mathrm{cpm} ; 27 \mathrm{th}$ ) in the absence of
be able to (117 cpm; 30th)
a matter of ( $112 \mathrm{cpm} ; 32 \mathrm{nd}$ ) as a matter of
the Court has (106 cpm; 34th)
in terms of (105 cpm; 36th)

In the US LJ the total occurrence counts of the 17 GLG structures are 2,418 accounting for $41 \%$ of the total occurrence of the top 403 -grams. Five of these GLGs expand to five different types of 4-grams by adding the definite article, and three of these GLGs expand to three different types of 4 -grams by adding a new preposition to the head of their 3-grams.

The unique feature of 3 -grams found in the legal corpora is the frequent use of technical proper nouns. The following are the examples from the UK LJ:
the Court of (333 cpm; 1st),
Court of Appeal (266 cpm; 7th),
the Supreme Court (214 cpm; 15th)
House of Lords (144 cpm; 39th)

The same type of examples from the US LJ are:
the United States (442 cpm; 1st),
the Supreme Court (352 cpm; 2nd),
the federal government (180 cpm; 7th),
in the United (170 cpm; 8th)
the Court has (106 cpm; 34th)

N -grams with legal proper names appear more in the lists of 5-grams and 6-grams.

## 4. 4. 4-gram word sequences

The 4-gram word sequences are characterized by the expansion of some frequent 3-gram word sequences which we have seen. Typical examples of these 3-grams that are expanded to the 4 -grams in the BNC are I don't ( 371 cpm ; ranked 1st), one of the ( 298 cpm; ranked 2 nd ) and the end of ( 207 cpm ; ranked 3rd). All these 3 -grams are expanded to 4 -grams by adding a frequent word as follows:

| I don't (371 cpm; 1st) | $\rightarrow$ I don't know $(119 \mathrm{cpm} ; 1 \mathrm{st})$ |
| ---: | :--- |
|  | $\rightarrow$ I don't think $(70 \mathrm{cpm} ; 4 \mathrm{th})$ |
|  | $\rightarrow$ I don't want $(32 \mathrm{cpm} ; 14 \mathrm{th})$ |
| cf. don't know $(154 \mathrm{cpm} ; 6 \mathrm{th})$ | $\rightarrow$ I don't know $(119 \mathrm{cpm} ; 1 \mathrm{st})$ |
|  | $\rightarrow$ don't know what $(25 \mathrm{cpm} ; 22 \mathrm{nd})$ |
| one of the ( $298 \mathrm{cpm} ; 2 \mathrm{nd})$ | $\rightarrow$ one of the most $(33 \mathrm{cpm} ; 10 \mathrm{th})$ |
|  | $\rightarrow$ is one of the $(33 \mathrm{cpm} ; 11 \mathrm{th})$ |
| the end of $(207 \mathrm{cpm} ; 3 \mathrm{rd}) \quad$ | $\rightarrow \underline{\text { was }}$ one of the $(23 \mathrm{cpm} ; 28 \mathrm{th})$ |
|  | $\rightarrow$ at the end of $(78 \mathrm{cpm} ; 3 \mathrm{rd})$ |
|  | $\rightarrow \underline{\text { by }}$ the end of $(25 \mathrm{cpm} ; 23 \mathrm{rd})$ |

The way the frequent 4 -grams are created from the 3 -grams are similar in legal discourse. The following are some examples of them in the UK LJ:

$$
\begin{array}{ll}
\text { the Court of }(333 \mathrm{cpm} ; 1 \mathrm{st}) & \rightarrow \text { the Court of Appeal }(180 \mathrm{cpm} ; 2 \mathrm{nd}) \\
\text { the fact that }(314 \mathrm{cpm} ; 3 \mathrm{rd}) & \rightarrow \text { the fact that the }(104 \mathrm{cpm} ; 6 \mathrm{th}) \\
\text { in relation to }(298 \mathrm{cpm} ; 4 \mathrm{th}) & \rightarrow \text { in relation to the }(89 \mathrm{cpm} ; 11 \mathrm{th}) \\
\text { the context of }(237 \mathrm{cpm} ; 11 \mathrm{th}) & \rightarrow \text { in the context of }(186 \mathrm{cpm} ; 1 \mathrm{st}) \\
\text { on the basis }(221 \mathrm{cpm} ; 12 \mathrm{th}) & \rightarrow \text { on the basis of }(172 \mathrm{cpm} ; 3 \mathrm{rd}) \\
\text { the case of }(160 \mathrm{cpm} ; 35 \mathrm{th}) & \rightarrow \text { in the case of }(104 \mathrm{cpm} ; 5 \mathrm{th})
\end{array}
$$

The followings are the examples from the US LJ:
the United States (442 cpm; 1st) $\quad \rightarrow$ in the United States (159 cpm; 1st)
$\rightarrow$ of the United States ( 75 cpm ; 3rd)

```
the Supreme Court (352 cpm; 2nd) -> the Supreme Court has (60 cpm; 19th)
as well as (237 cpm; 3rd) }\quad->\mathrm{ as well as the (51 cpm; 23rd)
the same time (103 cpm; 37th) }->\mathrm{ At the same time (68 cpm; 14th)
a matter of (112 cpm; 32nd) }->\mathrm{ as a matter of (66 cpm; 15th)
the absence of (119 cpm; 27th) }->\mathrm{ in the absence of (63 cpm; 17th)
```

There is an interesting difference in the way 3 -grams are expanded to 4 -grams in the BNC and in legal discourse. In the BNC some frequent 3-grams such as I don't function as the common core part of some 4-grams, and become the basis of such frequent 4-grams as I don't know, I don't think and I don't want. Some 3-grams in the BNC are even interrelated. Very frequent 3-grams of I don't and don't know are combined and used as the most frequent 4-gram in the BNC, I don't know. In legal discourse, however, some 3-grams expand to 4 -grams to become the complete name of a particular legal institute.

## 4. 5. 5-gram and 6 -gram word sequences

5-grams and 6-grams are more like the consequences of the expansion of the related lesser $n$-grams. The same types of $n$-gram expansion I mentioned in 4.4 continue in 5-grams and 6-grams.

In the BNC the sentence initial type of 4-grams, I don't know, I don't think, I don't want expand rightward into 5 -gram and 6-gram sentence initials by adding the first word of the following embedded clause.

```
I don't know (119 cpm; 1st) \(\rightarrow\) I don't know what (18 cpm; 2nd)
    \(\rightarrow\) I don't know what you (2 cpm; )
    \(\rightarrow\) I don't know how ( 8 cpm ; 14th )
    \(\rightarrow\) I don't know whether ( \(7 \mathrm{cpm} ; 21 \mathrm{st}\) )
    \(\rightarrow\) I don't know if ( \(7 \mathrm{cpm} ; 22 \mathrm{nd}\) )
    \(\rightarrow\) I don't know why (7cpm; 24th)
I don't think (70 cpm; 4th) \(\rightarrow\) I don't think I (10 cpm; 10th)
    \(\rightarrow\) I don't think it ( 8 cpm ; 16th)
    \(\rightarrow\) I don't think so ( \(6 \mathrm{cpm} ; 29 \mathrm{th}\) )
I don't want ( \(32 \mathrm{cpm} ; 14 \mathrm{th}\) ) \(\rightarrow\) I don't want to ( \(18 \mathrm{cpm} ; 3 \mathrm{rd}\) )
    \(\rightarrow\) I don't want to be ( \(2 \mathrm{cpm} ; 16 \mathrm{th}\) )
    \(\rightarrow\) I don't want to go (2 cpm; 30th)
```

Another type of expansion in the BNC is to add a new word, usually the article or a preposition at either end of the 4 -gram sequences. The following group of examples
shows how the 3-gram word sequence, the end of, develops into three 4-grams, five 5-grams and four 6-grams.

```
the end of (207 cpm; 3rd)
    \(\rightarrow\) the end of the ( \(104 \mathrm{cpm} ; 2 \mathrm{nd}\) )
    \(\rightarrow\) by the end of the ( \(13 \mathrm{cpm} ; 6 \mathrm{th}\) )
    \(\rightarrow\) by the end of the century ( \(2 \mathrm{cpm} ; 33 \mathrm{rd}\) )
    \(\rightarrow\) by the end of the year ( \(4 \mathrm{cpm} ; 7 \mathrm{th}\) )
    \(\rightarrow\) the end of the year ( \(9 \mathrm{cpm} ; 11 \mathrm{th}\) )
    \(\rightarrow\) the end of the day ( \(8 \mathrm{cpm} ; 15 \mathrm{th}\) )
    \(\rightarrow\) at the end of the day ( \(6 \mathrm{cpm} ; 2 \mathrm{nd}\) )
    \(\rightarrow\) At the end of the ( \(8 \mathrm{cpm} ; 19 \mathrm{th}\) )
    \(\rightarrow\) at the end of \((78 \mathrm{cpm} ; 3 \mathrm{rd})\)
    \(\rightarrow\) at the end of the ( \(38 \mathrm{cpm} ; 1 \mathrm{st}\) )
    \(\rightarrow\) at the end of the year ( \(2 \mathrm{cpm} ; 23 \mathrm{rd}\) )
\(\rightarrow\) by the end of ( \(25 \mathrm{cpm} ; 23 \mathrm{rd}\) )
```

Meanwhile, in the legal corpora more and more proper nouns come into the lists of the top 405 -grams and 6 -grams. In the UK LJ 18 out of 40 are proper nouns in the 5 -gram list, but they increase to 24 in the 6 -gram list. In the US LJ there are six 5 -gram proper nouns but they increase to 10 in the 6 -gram list. The following group of words show how three different types of 4-gram proper nouns expand to the 6-grams. The way they expand is not in single linear order. It is interesting that one 5-gram and two 6-gram sequences newly get a preposition before the full proper name of the European Court of Human Rights is completed.
the European Court of ( $53 \mathrm{cpm} ; 29 \mathrm{th}$ )
European Court of Human ( $47 \mathrm{cpm} ; 36 \mathrm{th}$ )
Court of Human Rights ( $47 \mathrm{cpm} ; 38 \mathrm{th}$ )
$\rightarrow$ European Court of Human Rights ( $44 \mathrm{cpm} ; 2$ nd)
$\rightarrow$ the European Court of Human ( $43 \mathrm{cpm} ; 3 \mathrm{rd}$ )
$\rightarrow$ of the European Court of (cpm 14; 35th)
$\rightarrow$ the European Court of Human Rights ( 40 cpm ; 1st)
$\rightarrow$ of the European Court of Human ( $12 \mathrm{cpm} ; 11$ th)
$\rightarrow$ by the European Court of Human ( $6 \mathrm{cpm} ; 36 \mathrm{th}$ )

Another example shows how a multi-word phrase develops in legal discourse and
disappears from the list. One of the most typical examples is the context of. It appears first in the top 40 3-gram list of the UK LJ. Then, it is ranked first both in the top 404 -gram list and the top 405 -gram lists, but it disappears from the top 406 -gram list. The details are as follows:

```
the context of ( 237 cpm ; 11th)
    \(\rightarrow\) in the context of ( 186 cpm ; 1st)
    \(\rightarrow\) in the context of the ( 52 cpm ; 1st)
    \(\rightarrow\) (disappear)
```

Many of the multi-word phrases like the context of make their first appearance in the 3-gram lists. But they either disappear from the 6-gram list or drastically decrease their occurrence counts. This is because the nouns to be used after the last the are so diverse in kind that the frequency of each noun becomes too low to appear in the list.

## 4. 6. Overall observation on the extension of $n$-grams in general discourse and legal discourse.

Table 4 shows how the total cpm number of the top 40 n -grams in each corpus changes. The percentages indicate the ratio of the n-grams compared with the number of the n-grams in the left column. As you see, the total cpm numbers of 1 -grams of the BNC and the US LJ are about the same, around 340 thousand, and the UK LJ around 390 thousand. As the value of n-grams increases from 1 to 6 , the difference between the BNC and the US LJ becomes wider, and the total cpm numbers of 6 -grams between these two corpora are about 1 to 7 . The total cpm numbers of top 40 n -grams of the UK LJ follow basically the same progress. While the total number of 6 -grams in the UK LJ reduces by half, the US LJ decreases only by $30 \%$. This is because the frequencies of capitalized legal crèches remain about the same in the 6-gram list of the US LJ.

Table 4. Total number of the top 40 n-grams in the BNC, the UK LJ and the US LJ

|  | 1-gram | 2-grams | 3-grams | 4-grams | 5-grams | 6-grams |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| BNC | 345,481 | $40,214(11.6 \%)$ | $4,587(11.4 \%)$ | $1,388(30.2 \%)$ | $368(26.5 \%)$ | $106(28.8 \%)$ |
| UK LJ | 390,407 | $54,219(13.8 \%)$ | $8,437(15.5 \%)$ | $3,092(36.6 \%)$ | $997(32.2 \%)$ | $425(42.6 \%)$ |
| US LJ | 347,268 | $49,484(14.2 \%)$ | $5,951(12.0 \%)$ | $2,381(40.0 \%)$ | $979(41.1 \%)$ | $704(71.9 \%)$ |

The above table suggests that the number of $n$-grams decreases more rapidly in general discourse than in legal discourse. The reason for that can be that the general discourse like the BNC is so diverse in register and genre that it contains so many different kinds of
multi-word sequences that fit in different registers and genres. That is why the frequencies of the individual n-gram sequences disperse and become low in the BNC. Meanwhile, in the legal discourse which only consists of the same single register, the variety of multiword sequences is more limited and particular ones peculiar to legal discourse are concentratedly used. This difference becomes salient when linguistic variety becomes particularly apparent in the 3-grams where lexical nouns start to appear. The following three statistical accounts strongly confirm the above postulation.
A. The total number of the top 403 -grams in the BNC is 4587 , while 8437 in the UK LJ and 5951 in the US LJ.
B. The 3 -gram structure occurring 100 cpm i.e. I can't is ranked 19th in the BNC, while the 3 -gram structure occurring 101 cpm i.e. the risk of is ranked 84 th and the 3 -gram structure occurring 99 cpm i.e. to do so is ranked 39 th in the UK LJ.
C. The 3 -gram structure ranked 100th in the BNC i.e. you can't occurs 47 cpm , while the 100th in the UK LJ i.e. interpretation of the occurs 90 cpm and the US LJ i.e. to engage in occurs 71 cpm .

All these facts indicate the general tendency that limited types of 3-grams are used more intensively in legal discourse than in general discourse.

## 5. How can we use $\mathbf{n}$-grams to compile our legal English dictionary?

## 5. 1. Criteria to select sample n -grams from the legal discourse

There are some noteworthy arguments concerning how to select useful n-grams for pedagogical purposes. Biber (2006) chose n-gram sequences based solely on the frequency. His criterion is simple and straightforward but, as Simpson-Vlach \& Ellis (2010) criticized, the problem is there are so many $n$-grams combining grammatical words such as to do with the. Martinez and Schmitt (2012) claim that frequency is not the only criterion, and introduce a new criterion, compositionality, which focuses on how much individual words in the sequence contribute to decoding the entire meaning of the multiword sequences. They explain that at all times is more compositional than at all because we can guess the whole meaning of at all times more easily from the component words than at all. They claim:

We therefore ended up with selection criteria that revolved around high
frequency, meaningfulness, and relative non-compositionality. (p. 304)

Simpson-Vlach and Ellis (2010) compared the top 10 3-grams and the bottom 10 3-grams chosen by high frequency n -gram metric and high MI n-gram metric. They say:

Ideally, though, we wanted to combine the information provided by both metrics to better approximate our intuitions and those of instructors, and thus to rank the academic formulas for use in pedagogical applications. (p495)

Frequency is definitely one significant factor, but there are some other factors such as usefulness and unitiveness. In the next section I will choose sample multi-word sequences for our project based on frequency, meaningfulness, and my own ESP instructor's intuition and experience.

## 5. 2. How to select the sample n-grams for our project

In order to select sample n-grams for our project, we first need to separate multi-word sequences for legal use from others. I grouped the top 40 3-grams listed in the UK LJ into four categories as shown below:
A. Proper noun 3-grams
the Court of, Court of Appeal, the Supreme Court, House of Lords
B. Legal use 3-grams
in relation to, the right to, the context of, the scope of, the law of, of the law, the application of, the common law, in the context, in respect of, the absence of, the principle of, a matter of

## C. General use 3-grams

in order to, the fact that, as well as, part of the, on the basis, the basis of, a number of, the use of, in terms of, nature of the, the nature of, in case of, in the case
D. Grammatical use 3-grams
can not be, there is a, that it is, one of the, there is no, in which the, it is not, such as the, is that the, that there is

Proper noun 3-grams and grammatical use 3-grams are easy to identify. On the other hand, the distinction between legal use and general use 3 -grams is somewhat problematic. I mechanically put in the group of general use 3-grams 1 ) the UK LJ 3-grams
which are also found in the BNC 3-gram list, and 2) the UK LJ 3-grams which are expanded and used as the 4 -grams in the BNC.

More problematic is the 3 -grams in the legal use. Are they solely and exclusively used in legal discourse and not in other discourse? The frequent 3-grams of in relation to (298 cpm; ranked 4th), the right to ( 280 cpm ; ranked 5th), (in) the context (of) ( $237+188 \mathrm{cpm}$; ranked 11th \& 26th), the scope of ( 210 cpm ; ranked 17th), and the absence of ( 161 cpm ; ranked 34th) look typical of legal use. The following are the examples of in relation to from the legal corpus:

Parliament had enacted legislation in relation to a banking activity,(UK LJ)
The same problem was also addressed in relation to other estates in land before 1925, (UK LJ)

Although the occurrence count is low, this 3-gram sequence is used 45 cpm and ranked 110th in the BNC. The following are the examples:

These are all examined in relation to the six elaborate mosaics listed above. (BNC)
Couple of points that were made in relation to this particular report was the backing by the employee side, (BNC)

LDOCE and COBUILD define in relation to with an example use as follows:
relation S2 W1
2 in relation to sth formal
b) formal concerning: latest developments in relation to the disease

## relation

7 PHRASE
If something is said or done in relation to a subject, it is said or done in connection with that subject. ...a question which has been asked many times in relation to Irish affairs.

Another example of is (in) the context (of). This $n$-gram sequence is quite popular in the top 403 -gram, 4 -gram and 5-gram lists of the legal corpora as we have examined. However, no general and legal dictionaries I have consulted so far label (in) the context (of) as legal use or technical use. The example use of (in) the context (of) listed in the
dictionaries all look formal but this does not mean these $n$-grams are exclusively for legal use. The following four example uses are from the legal corpus, the BNC and general English dictionaries, but they all look alike in terms of formality, style, lexical level and structural complexity, and give us an impression that they all belong to the same register or genre.

Defining objectiveness in the context of the duty to act in good faith in the interests of the company is more complex (UK LJ)

When considered in the context of levels of affinity obtaining between other mosaics in Britain, (BNC)

These incidents are best understood in the broader context of developments in rural society. (LDOCE)

We are doing this work in the context of reforms in the economic, social and cultural spheres. (COBUILD)

The following examples contain seemingly very legal terms, law and right. Thus, we may think they are typical of legal use.

The focal point of this book is on the law of commercial contracts as constructed by the American and UK legal systems.(UK LJ)
the bank had the right to have the account falsified, (UK LJ)

However, when we consult general English dictionaries, we find these two words are commonly used in our daily lives. LDOCE labels both law and right S1 and W1, and COBUILD gives three diamonds $(\longleftrightarrow)$ indicating they are most frequent words.

All those discussed so far seem to reveal the interesting nature of legal discourse. As the word "legalese" indicates, we often have an impression that legal discourse is full of jargon incomprehensive to lay persons. However, the above discussion strongly implies that legal discourse is not necessarily full of jargon. It is the level of formality, the conventional writing style and the preference to formal words and expressions that make the legal discourse look unfamiliar and unfriendly to us. In the next section, as the conclusion of the article, I will focus on one verb and its nominalized form and show how they are used as multi-word expressions in a conventional manner in legal discourse.

## 6. Conclusion-sample entry words: apply and application

The following passage is quoted from the UK LJ, typical legal discourse in our legal corpus. The thick underlined sequences are proper names of the law and the double underlined sequences are legal technical terms. The thin underlined parts are the $n$-grams of general or grammatical sequences. I shaded the proper name $n$-grams and the legal use n -grams.

In applying the law, special law has priority over more general law. Thus, the order of application of the law to a marine insurance contract is, first, the provisions of the Commercial Code on marine insurance, secondly, the Insurance Act 2008, and last, the general contract law contained in the Civil Code.

Even if we do not have a specialized legal knowledge we can understand the outline of the above passage. This is because although the formality is high and the style is professional the passage itself is written in the same ordinary English we encounter in our life.

In the passage below I erased all the general and grammatical $n$-grams. Those that remain are the technical terms and the names of the law which legal dictionaries such as Tanaka et al. (1991) and Garner et al. (1999) define and explain. If you are a legal professional, these are the terms your eyes immediately focus on when you read the passage. You can understand the main idea of what the passage is talking about only by picking up these terms.


The passage below shows the general and grammatical n-grams only. Unlike the above passage, the exact topic is not clear. However, you may be able to tell how the point of the argument is introduced and developed, and how the topic-related key words are presented in an orderly way in the paragraph. These n-grams organize the structure of the paragraph, on which the topic is discussed.



When Japanese students of law produce legal discourse, the difficulties they have are not necessarily the proper names such as the Commercial Code, the Insurance Act 2008, or the Civil Code, or specialized legal terms such as special law, general law, a marine insurance contract, marine insurance or the general contract law. Much more problematic to them is how to construct their legal argument by using these proper names and legal terms. In other words, their realistic problem is that they do not know enough appropriate expressions conventionally used to introduce the legal proper names and technical terms in legal discourse. The purpose of our project is to provide the Japanese students of law with conventionally appropriate and frequently-used general and grammatical n-gram type sequences to help them express their thoughts and ideas in legal English.

In the above sample quotation, the topic is introduced into the paragraph by using the 2 -gram sequence consisting of a preposition and the non-finite verb form, i.e. in applying (the law), then the verb apply is nominalized in the second sentence and used in the 2-gram word sequence, i.e. application of (the law). This sequential order of a verb $\rightarrow$ its nominalization is one of the common ways to introduce and develop the topic in the formal discourse (Biber, 2006).

I will use apply and application and illustrate how these words should be explained for the Japanese students of law in our dictionary. (All the numbers hereafter are crude occurrence counts per 6 million.)

APPLY ( 6099 times; ranked 96th in the UK LJ)
subjects of APPLY
court (151), rule (77), law (70), principle (48), provision (27), act (19), judge (18), test (18), convention (16), consideration (15), charter (14)

First, the court applied its reasoning in BMO to the argument that provincial legislation did not apply.
The grandchildren therefore, in such a situation, have an insurable interest in their grandparents. The rule applies vice versa. This interest can be extended to other members of the family such as siblings.

The court held that Japanese law applies to the matters relating to the validity of the contract and legality of the voyage,
objects of APPLY
law (229), test (151), rule (146), principle (131), standard (62), provision (48), approach (36), doctrine (31), criterion (24), statute (21), convention (21), reasoning (19),

On this last issue, Lord Clarke applied English law to the deceit claim
The Adjudicator applied a similar balancing test to that in Best,
The simplest way to do this would be to apply the Chapter 58A rules to all applications for PEOs.
The Court straightforwardly applied ordinary accounting principles to require Hall to pay $37,054.69$ to the plaintiff.
prepositions taken by APPLY
apply to (1,099), apply in (417), apply for (118), apply by (69), apply with (24), apply at (17), apply as (11)

The Insurance Act applies to all kinds of insurance contracts, whether the contract is called insurance, a co-operative agreement known as Kyosai, or others.

Admittedly, this would only apply in highly exceptional cases
the respondent might also be able to apply for an order restricting its liability

APPLICATION (3730 times; ranked 87th in the UK LJ)
propositions taken after application
application of (1,572), application for (125), application to (68), application in (33),
application under (11)

APPLICATION of
law (256), rule (159), principle (152), art (56), test (54), article (45), provision (44), standard (35), doctrine (37), convention (34)

Professor Andrea Lista examines the application of EU competition law in the financial services industry,
A possible model paradigm for the application of competition law to the banking sector
The non-market aims include the application of the patent rules to safeguard human dignity and integrity

APPLICATION for
the Court upheld applications for judicial review brought by asylum seekers he therefore dismissed the application for permission to appeal.
verbs with APPLICATION as the object 729
make（60），reject（30），consider（28），limit（25），bring（23）［application brought by］，ensure （21），refuse（21），justify（16），dismiss（14），preclude（12），lodge（13），examine（11），trigger （11），permit（11），
fourteen mayors made an application to the European Court of Human Rights．
Despite this，an application was made to the Land Registry to close the leasehold titles on the basis of a letter from the bailiffs as to the date of re－ entry．
A State may make an application for necessary measures to be taken in respect of the protection of its servants or agents

The Court rejected the applications for an anti－suit injunction and damages，on the basis that，
Bell considers the application of the principle to the situation of an unexpectedly re－appearing child：
It found that by limiting the application of the Article 4（1）（b）exception to situations

So held the CJEU in an application brought by various Dutch nationals concerning the refusal to issue them with a passport

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| 1-gram |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| word | BNC | word | UK LJ | word | US LJ |
| the | 54157.07 | the | 73908.83 | the | 61726.33 |
| of | 30274.41 | of | 45660.00 | of | 36665.67 |
| to | 25669.78 | to | 31504.33 | to | 29894.83 |
| and | 25121.71 | in | 21430.50 | and | 21316.50 |
| a | 20418.49 | and | 21400.67 | a | 19753.83 |
| in | 17877.23 | a | 20682.17 | in | 18155.67 |
| that | 10623.85 | that | 17150.67 | that | 17567.83 |
| is | 9729.21 | is | 14869.50 | is | 11550.83 |
| was | 8778.60 | be | 9220.33 | for | 8521.17 |
| I | 8618.25 | as | 8458.67 | as | 7360.00 |
| for | 8318.05 | for | 8192.50 | not | 6965.83 |
| it | 8197.97 | not | 7635.00 | be | 6697.50 |
| on | 6950.02 | by | 6878.33 | on | 6159.50 |
| be | 6485.75 | on | 6806.33 | or | 6071.50 |
| with | 6404.20 | it | 6715.83 | are | 5563.17 |
| The | 6195.11 | The | 6425.00 | The | 5505.67 |
| as | 6035.79 | or | 5552.00 | by | 5381.83 |
| you | 5747.82 | law | 5388.00 | it | 5267.83 |
| at | 4872.49 | with | 5232.33 | with | 5010.00 |
| by | 4867.25 | was | 5221.67 | have | 4337.67 |
| he | 4625.23 | an | 5048.17 | an | 4199.67 |
| are | 4550.86 | this | 4937.17 | from | 3809.83 |
| have | 4533.05 | which | 4892.17 | this | 3707.00 |
| not | 4325.22 | are | 4775.50 | law | 3612.33 |
| had | 4185.94 | have | 3876.33 | would | 3326.33 |
| from | 4102.06 | from | 3445.17 | their | 3067.17 |
| his | 3821.26 | has | 3275.17 | more | 2930.33 |
| which | 3612.03 | would | 2906.17 | which | 2884.17 |
| or | 3604.70 | In | 2819.67 | can | 2834.17 |
| this | 3435.63 | at | 2770.50 | In | 2834.17 |
| they | 3365.49 | its | 2635.67 | was | 2763.50 |
| but | 3215.13 | can | 2559.67 | has | 2757.00 |
| an | 3200.93 | been | 2425.17 | they | 2726.50 |
| n't | 3164.73 | such | 2390.83 | at | 2635.167 |
| were | 3120.34 | their | 2364.67 | may | 2560.50 |
| her | 2895.03 | legal | 2342.67 | its | 2302.33 |
| we | 2651.80 | but | 2285.17 | than | 2236.83 |
| been | 2599.46 | may | 2151.00 | other | 2223.00 |
| one | 2585.03 | This | 2125.17 | but | 2220.00 |
| has | 2543.60 | will | 2047.83 | will | 2164.50 |
|  | 345480.57 |  | 390406.50 |  | 347267.67 |


| 2-grams |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| word | BNC | word | UK LJ | word | US LJ |
| of the | 7531.95 | of the | 12561.17 | of the | 7719.50 |
| in the | 4801.92 | in the | 5361.67 | in the | 4394.67 |
| to the | 2869.59 | to the | 4810.00 | to the | 3441.17 |
| on the | 2075.57 | that the | 3695.67 | that the | 2821.17 |
| and the | 1882.28 | on the | 2666.17 | on the | 1928.17 |
| to be | 1878.62 | to be | 2347.00 | and the | 1773.67 |
| for the | 1595.80 | by the | 2254.83 | of a | 1573.00 |
| at the | 1380.48 | and the | 2245.17 | for the | 1325.00 |
| that the | 1271.84 | of a | 2054.50 | to be | 1308.00 |
| by the | 1253.65 | for the | 1887.67 | as a | 1283.00 |
| with the | 1241.54 | it is | 1756.33 | by the | 1195.33 |
| of a | 1240.20 | with the | 1643.00 | with the | 1185.50 |
| from the | 1203.70 | as a | 1476.50 | it is | 1152.67 |
| in a | 1064.86 | is not | 1165.33 | in a | 1078.83 |
| it is | 909.29 | from the | 1137.83 | from the | 1006.33 |
| it was | 864.02 | in a | 1086.33 | is not | 931.17 |
| as a | 817.58 | is a | 1055.50 | the Court | 894.00 |
| do n't | 815.16 | to a | 934.33 | is a | 797.83 |
| is a | 777.14 | the Court | 928.67 | to a | 776.50 |
| with a | 757.64 | as the | 890.83 | as the | 742.17 |
| have been | 701.37 | does not | 875.67 | does not | 732.00 |
| will be | 696.05 | can be | 834.83 | the same | 728.17 |
| for a | 688.58 | the law | 823.50 | in which | 709.67 |
| was a | 649.63 | It is | 797.00 | would be | 705.50 |
| had been | 641.76 | has been | 796.67 | may be | 689.67 |
| is the | 610.00 | there is | 775.83 | at the | 684.00 |
| to a | 584.05 | that it | 775.83 | such as | 648.83 |
| has been | 575.56 | is the | 774.50 | can be | 630.17 |
| as the | 563.94 | have been | 758.33 | Supreme Court | 625.33 |
| the same | 558.64 | would be | 753.67 | do not | 616.17 |
| and a | 551.88 | not be | 752.50 | is the | 598.17 |
| one of | 551.51 | should be | 748.83 | about the | 581.67 |
| would be | 546.49 | at the | 727.67 | is that | 564.17 |
| can be | 540.93 | such as | 726.17 | there is | 549.50 |
| he was | 533.11 | may be | 712.17 | United States | 544.00 |
| into the | 528.12 | the same | 657.67 | should be | 519.67 |
| It is | 517.01 | the case | 639.00 | the law | 518.17 |
| the first | 502.91 | in which | 634.00 | rather than | 505.17 |
| It was | 494.35 | of this | 628.83 | the United | 504.33 |
| I do | 476.94 | is that | 628.50 | not be | 501.50 |
|  | 40213.71 |  | 54218.50 |  | 49483.50 |


| 3-grams |  |  |  |
| :--- | ---: | :--- | :--- |
| word | $B N C$ | word | UK LJ |
| I do n't | 371.47 | the Court of | 333.00 |
| one of the | 297.80 | in order to | 327.67 |
| the end of | 207.19 | the fact that | 313.67 |
| as well as | 168.46 | in relation to | 297.50 |
| part of the | 166.99 | the right to | 280.33 |
| do n't know | 154.06 | as well as | 272.17 |
| out of the | 152.38 | Court of Appeal | 265.50 |
| a number of | 137.90 | part of the | 263.83 |
| a lot of | 136.64 | on the basis | 262.50 |
| end of the | 133.97 | can not be | 243.33 |
| be able to | 133.82 | the context of | 237.33 |
| some of the | 128.85 | the basis of | 221.00 |
| to be a | 116.97 | there is a | 215.17 |
| the fact that | 113.74 | that it is | 215.17 |
| per cent of | 113.35 | the Supreme Court | 214.33 |
| there is a | 104.77 | a number of | 211.33 |
| I did n't | 103.53 | the scope of | 210.33 |
| in order to | 102.22 | the law of | 209.00 |
| I ca n't | 99.86 | there is no | 206.00 |
| in terms of | 93.56 | the use of | 202.33 |
| at the end | 89.64 | of the law | 200.67 |
| there was a | 86.87 | the application of | 198.67 |
| the number of | 85.91 | the common law | 197.83 |
| you do n't | 82.22 | in which the | 194.67 |
| that it is | 81.44 | one of the | 193.17 |
| the rest of | 80.29 | in the context | 187.83 |
| it would be | 80.29 | it is not | 177.67 |
| the use of | 79.79 | in terms of | 177.00 |
| do n't think | 78.65 | nature of the | 173.50 |
| that it was | 77.48 | in respect of | 169.17 |
| there is no | 77.23 | such as the | 168.83 |
| have to be | 75.86 | is that the | 165.67 |
| the same time | 75.64 | the nature of | 161.50 |
| the first time | 74.19 | the absence of | 160.83 |
| members of the | 73.98 | the case of | 160.17 |
| can not be | 72.09 | in the case | 159.00 |
| at the time | 70.38 | that there is | 154.50 |
| would have been | 69.74 | the principle of | 147.83 |
| to be the | 68.99 | House of Lords | 143 |
| it was a |  |  |  |


| word | US LJ |
| :---: | :---: |
| the United States | 442.33 |
| the Supreme Court | 352.33 |
| as well as | 236.83 |
| in which the | 187.00 |
| in order to | 183.17 |
| the use of | 180.50 |
| the federal government | 179.67 |
| in the United | 170.00 |
| the fact that | 168.00 |
| with respect to | 165.67 |
| one of the | 157.83 |
| the context of | 149.17 |
| there is no | 144.17 |
| part of the | 144.17 |
| can not be | 142.33 |
| it is not | 140.83 |
| the value of | 137.17 |
| more likely to | 132.00 |
| is that the | 131.00 |
| a number of | 130.17 |
| the scope of | 129.33 |
| in favor of | 125.00 |
| some of the | 124.83 |
| there is a | 124.00 |
| As a result | 122.83 |
| the number of | 122.17 |
| the absence of | 118.50 |
| such as the | 118.17 |
| that it is | 117.33 |
| be able to | 117.33 |
| likely to be | 116.83 |
| a matter of | 111.50 |
| in the context | 109.83 |
| the Court has | 106.17 |
| the common law | 105.50 |
| in terms of | 104.83 |
| the same time | 102.83 |
| of the law | 102.17 |
| to do so | 99.00 |
| the other hand | 98.67 |
|  | 5951.17 |


| 4-grams |  |  |  |
| :---: | :---: | :---: | :---: |
| word | BNC | word | UK LJ |
| I do n't know | 119.04 | in the context of | 185.83 |
| the end of the | 103.74 | the Court of Appeal | 180.33 |
| at the end of | 78.44 | on the basis of | 171.67 |
| I do n't think | 69.85 | the House of Lords | 111.50 |
| at the same time | 48.12 | in the case of | 104.33 |
| the rest of the | 47.12 | the fact that the | 103.50 |
| for the first time | 47.12 | as a result of | 102.50 |
| per cent of the | 45.22 | the rule of law | 93.33 |
| as a result of | 44.68 | the Court of Justice | 92.67 |
| one of the most | 32.86 | the nature of the | 92.33 |
| is one of the | 32.67 | in relation to the | 88.50 |
| do n't want to | 32.66 | on the basis that | 87.67 |
| in the case of | 32.45 | the scope of the | 86.67 |
| I do n't want | 32.39 | the extent to which | 77.67 |
| to be able to | 31.67 | as a matter of | 76.50 |
| the Secretary of State | 30.59 | the application of the | 75.17 |
| On the other hand | 28.36 | in the absence of | 74.50 |
| in the form of | 27.57 | On the other hand | 73.17 |
| on the basis of | 27.43 | for the purposes of | 72.83 |
| the top of the | 26.73 | the context of the | 70.67 |
| in the middle of | 26.41 | as well as the | 70.17 |
| do n't know what | 25.42 | at the time of | 70.00 |
| by the end of | 25.12 | in the light of | 64.50 |
| as well as the | 25.08 | on the part of | 64.00 |
| on the other hand | 24.60 | the basis of the | 58.50 |
| the way in which | 24.26 | of the Court of | 55.00 |
| a member of the | 24.15 | the way in which | 53.50 |
| was one of the | 23.29 | of the right to | 52.83 |
| at the time of | 22.88 | the European Court of | 52.67 |
| the middle of the | 22.19 | the interests of the | 52.33 |
| a great deal of | 22.05 | for the purpose of | 51.83 |
| will be able to | 21.81 | that there is a | 49.33 |
| a wide range of | 21.72 | in accordance with the | 48.83 |
| the fact that the | 21.48 | in the form of | 48.17 |
| At the same time | 21.08 | the role of the | 47.67 |
| the back of the | 20.73 | European Court of Human | 47.00 |
| the nature of the | 20.35 | on the other hand | 46.83 |
| Secretary of State for | 19.00 | Court of Human Rights | 46.50 |
| in terms of the | 18.84 | in light of the | 45.50 |
| at the beginning of | 18.39 | of the common law | 45.33 |
|  | 1387.56 |  | 3091.83 |


| word | US LJ |
| :---: | :---: |
| in the United States | 158.50 |
| in the context of | 107.83 |
| of the United States | 74.83 |
| THIS POINT IS NOT | 74.17 |
| TABULAR OR GRAPHIC MATERIAL | 74.17 |
| SET FORTH AT THIS | 74.17 |
| POINT IS NOT DISPLAYABLE | 74.17 |
| OR GRAPHIC MATERIAL SET | 74.17 |
| MATERIAL SET FORTH AT | 74.17 |
| GRAPHIC MATERIAL SET FORTH | 74.17 |
| FORTH AT THIS POINT | 74.17 |
| AT THIS POINT IS | 74.17 |
| on the basis of | 68.50 |
| At the same time | 68.33 |
| as a matter of | 66.17 |
| On the other hand | 64.17 |
| in the absence of | 62.50 |
| in a way that | 60.00 |
| the Supreme Court has | 59.67 |
| in the form of | 55.83 |
| the extent to which | 55.50 |
| as a result of | 54.33 |
| as well as the | 50.67 |
| in the first place | 49.67 |
| in the case of | 48.00 |
| are more likely to | 46.67 |
| at the time of | 46.50 |
| the nature of the | 45.00 |
| To the extent that | 44.67 |
| the value of the | 44.17 |
| in the face of | 44.17 |
| to the extent that | 42.83 |
| the fact that the | 42.33 |
| in light of the | 40.83 |
| with respect to the | 37.67 |
| the scope of the | 37.50 |
| the criminal justice system | 36.17 |
| at the expense of | 34.50 |
| on the other hand | 34.33 |
| more likely to be | 31.17 |
|  | 2380.5 |


| 5-grams |  |  |  |
| :---: | :---: | :---: | :---: |
| word | BNC | word | UK LJ |
| at the end of the | 37.90 | in the context of the | 51.50 |
| I do n't know what | 18.01 | European Court of Human Rights | 43.67 |
| I do n't want to | 17.97 | the European Court of Human | 42.50 |
| in the middle of the | 14.14 | on the part of the | 41.67 |
| as a result of the | 13.72 | on the basis of the | 38.17 |
| by the end of the | 13.28 | as a result of the | 37.00 |
| the other side of the | 12.08 | in the light of the | 34.00 |
| the Secretary of State for | 12.08 | $v$ Secretary of State for | 33.17 |
| at the time of the | 10.23 | at the time of the | 32.50 |
| I do n't think I | 9.96 | European Convention on Human Rights | 32.50 |
| the end of the year | 9.35 | the Court of Appeal in | 31.17 |
| at the top of the | 9.35 | the European Convention on Human | 29.67 |
| for the first time in | 8.66 | of the rule of law | 27.17 |
| I do n't know how | 8.48 | on the basis that the | 26.50 |
| the end of the day | 8.45 | of the House of Lords | 26.50 |
| I do n't think it | 8.18 | the House of Lords in | 24.67 |
| on the part of the | 8.14 | to negotiate in good faith | 24.50 |
| at the beginning of the | 7.89 | the extent to which the | 24.50 |
| At the end of the | 7.62 | of the Court of Appeal | 23.50 |
| on the other side of | 7.46 | by the Court of Appeal | 23.17 |
| I do n't know whether | 7.39 | of the Court of Justice | 21.50 |
| I do n't know if | 7.27 | Secretary of State for the | 21.33 |
| is one of the most | 6.66 | the best interests of the | 20.67 |
| I do n't know why | 6.55 | in the interests of the | 20.33 |
| in the same way as | 6.49 | within the scope of the | 20.00 |
| in the form of a | 6.48 | the interests of the company | 20.00 |
| at the bottom of the | 6.44 | of State for the Home | 19.50 |
| the way in which the | 6.37 | Court of Justice of the | 19.33 |
| I do n't think so | 6.35 | on the basis of a | 18.17 |
| hon. Friend the Member for | 6.22 | for the purposes of the | 17.67 |
| on the edge of the | 6.11 | the Court of Justice of | 17.17 |
| ask the Secretary of State | 6.09 | the way in which the | 17.00 |
| for the rest of the | 6.08 | State for the Home Department | 17.00 |
| at the back of the | 6.03 | for the benefit of the | 15.50 |
| in the case of the | 5.99 | of the European Court of | 14.17 |
| you do n't have to | 5.96 | in the same way as | 14.00 |
| To ask the Secretary of | 5.95 | in the case of a | 14.00 |
| in the light of the | 5.64 | in the Court of Appeal | 14.00 |
| the other end of the | 5.49 | in the context of a | 13.83 |
| at the same time as | 5.38 | in the case of the | 13.67 |
|  | 367.89 |  | 996.83 |


| word | US LJ |
| :---: | :---: |
| THIS POINT IS NOT DISPLAYABLE | 74.17 |
| TABULAR OR GRAPHIC MATERIAL SET | 74.17 |
| SET FORTH AT THIS POINT | 74.17 |
| OR GRAPHIC MATERIAL SET FORTH | 74.17 |
| MATERIAL SET FORTH AT THIS | 74.17 |
| GRAPHIC MATERIAL SET FORTH AT | 74.17 |
| FORTH AT THIS POINT IS | 74.17 |
| AT THIS POINT IS NOT | 74.17 |
| at the time of the | 18.50 |
| is not to say that | 18.00 |
| the Necessary and Proper Clause | 16.00 |
| This is not to say | 15.83 |
| separation of funds and managers | 15.17 |
| the Bressman and Gluck study | 14.83 |
| as a result of the | 14.83 |
| the costs and benefits of | 13.67 |
| there is no reason to | 13.50 |
| the extent to which the | 13.17 |
| the separation of funds and | 12.67 |
| on the part of the | 12.50 |
| are more likely to be | 12.00 |
| in the absence of a | 11.67 |
| Court of Appeals for the | 11.50 |
| in the form of a | 11.33 |
| even in the absence of | 11.33 |
| in the context of the | 11.17 |
| To the extent that the | 11.17 |
| in the wake of the | 11.00 |
| of the law of nations | 10.33 |
| the scope of this Article | 10.17 |
| at the end of the | 10.00 |
| to the extent that the | 9.83 |
| at the expense of the | 9.83 |
| in the Bressman and Gluck | 9.67 |
| beyond the scope of this | 9.67 |
| it is not clear that | 9.50 |
| in the United States and | 9.50 |
| in a way that is | 9.50 |
| in the context of a | 9.33 |
| on the ground that the | 8.83 |
|  | 979.33 |


| 6-grams |  |  |  |
| :---: | :---: | :---: | :---: |
| word | BNC | word | UK LJ |
| on the other side of the | 6.21 | the European Court of Human Rights | 40.00 |
| at the end of the day | 6.03 | the European Convention on Human Rights | 28.83 |
| ask the Secretary of State for | 6.01 | Secretary of State for the Home | 19.50 |
| To ask the Secretary of State | 5.95 | $v$ Secretary of State for the | 19.00 |
| mm mm mm mm mm mm | 4.39 | of State for the Home Department | 17.00 |
| from the point of view of | 4.03 | the Court of Justice of the | 16.83 |
| by the end of the year | 3.97 | in the interests of the company | 13.50 |
| my hon. Friend the Member for | 3.63 | of the European Convention on Human | 13.33 |
| in such a way as to | 3.46 | Court of Justice of the European | 12.83 |
| in the middle of the night | 2.64 | of Justice of the European Union | 12.00 |
| the Department of Trade and Industry | 2.57 | of the European Court of Human | 11.67 |
| in the second half of the | 2.47 | of the House of Lords in | 10.67 |
| at the other end of the | 2.41 | the entry into force of the | 10.33 |
| Secretary of State for the Environment | 2.37 | the best interests of the child | 10.33 |
| I do n't know what you | 2.35 | the right to a fair trial | 9.50 |
| I do n't want to be | 2.19 | the object and purpose of the | 9.33 |
| The hundred shares index closed down | 2.18 | in such a way as to | 9.17 |
| the Secretary of State for the | 2.17 | the Court of Appeal held that | 8.83 |
| if he will make a statement | 2.13 | decision of the Court of Appeal | 8.83 |
| The hundred shares index closed up | 2.11 | by the Court of Appeal in | 8.83 |
| The pound is up at one | 2.06 | of the Court of Appeal in | 8.50 |
| pound is up at one dollar | 2.05 | in the best interests of the | 8.33 |
| at the end of the year | 2.05 | from the point of view of | 8.00 |
| This is not to say that | 1.98 | decision of the House of Lords | 7.67 |
| in the first half of the | 1.92 | it is difficult to see how | 6.83 |
| pound is down at one dollar | 1.91 | Vienna Convention on the Law of | 6.83 |
| The pound is down at one | 1.91 | to act in good faith in | 6.67 |
| ask the Prime Minister if he | 1.80 | in good faith in the interests | 6.67 |
| the point of view of the | 1.79 | good faith in the interests of | 6.67 |
| the Prime Minister if he will | 1.79 | faith in the interests of the | 6.67 |
| To ask the Prime Minister if | 1.79 | act in good faith in the | 6.50 |
| Still to come on Central News | 1.77 | Court of Justice of the EU | 6.50 |
| by the end of the century | 1.76 | Convention on the Law of Treaties | 6.50 |
| if he will list his official | 1.75 | the EU Charter of Fundamental Rights | 6.33 |
| Prime Minister if he will list | 1.75 | on the Rights of the Child | 6.33 |
| Minister if he will list his | 1.75 | by the European Court of Human | 6.00 |
| will list his official engagements for | 1.74 | is beyond the scope of this | 5.83 |
| he will list his official engagements | 1.74 | duty to act in good faith | 5.83 |
| at the turn of the century | 1.73 | Court of Appeal held that the | 5.83 |
| I do n't want to go | 1.71 | the decision of the Court of | 5.67 |
|  | 106.02 |  | 424.50 |


| word | US LJ |
| :---: | :---: |
| TABULAR OR GRAPHIC MATERIAL SET FORTH | 74.17 |
| SET FORTH AT THIS POINT IS | 74.17 |
| OR GRAPHIC MATERIAL SET FORTH AT | 74.17 |
| MATERIAL SET FORTH AT THIS POINT | 74.17 |
| GRAPHIC MATERIAL SET FORTH AT THIS | 74.17 |
| FORTH AT THIS POINT IS NOT | 74.17 |
| AT THIS POINT IS NOT DISPLAYABLE | 74.17 |
| This is not to say that | 12.83 |
| the separation of funds and managers | 12.67 |
| in the Bressman and Gluck study | 9.67 |
| beyond the scope of this Article | 8.17 |
| U.S. Court of Appeals for the | 7.83 |
| the U.S. Court of Appeals for | 7.17 |
| is beyond the scope of this | 6.67 |
| the Federal Rules of Civil Procedure | 6.50 |
| shared presuppositions of speakers and listeners | 6.50 |
| THIS POINT IS NOT DISPLAYABLE The | 6.50 |
| the shared presuppositions of speakers and | 6.17 |
| by the shared presuppositions of speakers | 6.00 |
| framed by the shared presuppositions of | 5.83 |
| as framed by the shared presuppositions | 5.83 |
| meaning as framed by the shared | 5.50 |
| THIS POINT IS NOT DISPLAYABLE Figure | 5.33 |
| contextual meaning as framed by the | 5.17 |
| referents for claims of legal meaning | 5.00 |
| on the basis of sexual orientation | 5.00 |
| is no reason to believe that | 4.33 |
| THIS POINT IS NOT DISPLAYABLE Source | 4.00 |
| the congressional respondents in the Bressman | 3.67 |
| states and the District of Columbia | 3.67 |
| respondents in the Bressman and Gluck | 3.67 |
| of the Civil Rights Act of | 3.67 |
| congressional respondents in the Bressman and | 3.67 |
| of the Federal Rules of Civil | 3.50 |
| is not to say that the | 3.50 |
| among applications or classes of applications | 3.50 |
| violation of the law of nations | 3.33 |
| there is no reason to believe | 3.33 |
| the provision of Quality of Service | 3.33 |
| the causes of action available in | 3.33 |
|  | 704.00 |

