

Relevant Dutch Lexical Influence in Contemporary Modern Japanese

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Abstract

During the Edo Period of Japanese history, many loanwords entered the Japanese language through communication with the Dutch. Now, 164 years after the last significant linguistic exchange took place between the Dutch and the Japanese, it is interesting to see what lexical influence still exists in contemporary modern Japanese and which loanwords have fallen out of use. Therefore, the aim of this bachelor's thesis is to determine the relevance of Dutch lexical influence in contemporary modern Japanese. The historical nature of this specific topic makes it possible to compile a base pool of Dutch loanwords in Japanese totalling 500 entries, which is based on the results of previous research. A three-tiered quantitative analysis consisting of a dictionary cross-analysis, corpus analysis and questionnaire was then conducted on this base pool of loanwords, in order to investigate which entries are still used frequently enough to be considered relevant in contemporary modern Japanese. According to the findings of this thesis, 358 words with Dutch lexical influence exist in contemporary modern Japanese. A list of these words is included as two tables at the end of this thesis.

Keywords: Japanese Language, Dutch-Japanese, Dutch Lexical influence, Loanwords, Lexical exchange, Lexical influence

Conventions and Abbreviations

Romanisation

Japanese words are romanised in accordance with the modified Hepburn system. Long vowels will be transcribed with diacritic macrons, with the exception of long 'e' in non-katakana words, which will be written as 'ei'. Words for terms and names of Japanese origin that have become part of the English language will use their established English spelling.

Typographical Conventions

Italics are used for all romanised Japanese words. Dutch words or words of other origin will be marked with apostrophes.

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1. Introduction

This thesis shall attempt to determine the relevance of Dutch lexical influence for the usage of contemporary modern Japanese by means of a three-tiered quantitative analysis. It features an introduction where the historical context in which this subject ought to be understood, the nature in which Dutch-Japanese linguistic exchange took place and the several different types of lexical influence that shall be discussed in this thesis are explained. Afterwards the previous studies on this subject are summarised and discussed, before this thesis' research is described. In it, the relevance of Dutch lexical influence is determined by means of a dictionary cross-analysis, a corpus analysis and a questionnaire. Finally, the conclusion reviews the current study's results and the limitations before listing all Dutch lexical influence that this thesis found to be relevant in contemporary modern Japanese.

1.1. Historical Context

Due to the historic nature of this thesis' topic, a general overview of the historical background is essential. At the onset of the 17th Century, Japan came under the Tokugawa Shogunate's military rule. At this time Portuguese, and to a lesser extent Spanish elements, were already well-established in Japan. However, aside from mercantilism, Portuguese missionaries were actively spreading Christianity by persuading both commoners and the elite to convert. In doing so, they often made use of pre-Tokugawa Japan's splintered domestic landscape. However, after the Tokugawa unification, this missionary work soon became too invasive as it prompted general discontent among the populace, putting a strain on domestic political stability. In order to avoid the country spiralling into chaos once more, the Shogun adapted an isolationist policy called *sakoku*, in the 1630s (Vos, 1963), which led to the expulsion of all Portuguese and Spanish from Japan. The new isolationist *sakoku* policy cut off all contact with Western countries, apart from trading relations with the Dutch. However, despite the fact that the Dutch, unlike the Portuguese counterparts, were not interested in spreading any religious dogma, their presence was limited to a small artificial peninsula turned trading station called Deijima.

The newly formed Dutch Republic sought to extend its colonial influence in South- East Asia by forming the privately owned Dutch East India Company (VOC - 'Vereenigde Oostindische Compagnie') and allowing it to monopolise trade in the area. It was through this

entity that Dutch-Japanese contact was established and upheld until its nationalisation in 1800, after which the company's assets were taken over by the Dutch government. It is to be noted that while the VOC was owned by the Dutch Republic, many foreigners enlisted in or worked for it. To ensure that only Dutchmen entered Japan, the Shogun allowed solely Dutch-speaking people to enter the trading station at Deijima. Nevertheless, some of the earliest visits to Japan by non-Dutch nationals were conducted under the pretext that they were Dutch. Notable foreigners who managed to visit Japan under these circumstances were the German physician and botanist Philipp Franz von Siebold as well as the Swedish naturalist Carl Peter Thunberg.

The first contact between the Dutch and the Japanese took place when a Dutch ship called 'De Liefde' shipwrecked off the coast of Kyushu in the year 1600. However, this event did little to establish formal ties between the two nations, and instead can be seen as an isolated event. Official Dutch-Japanese exchange commenced with the opening of the VOC's trading centre at Hirado in 1609. After the expulsion of the Portuguese, in 1641 the VOC's presence was forcibly moved to the artificial island of Deijima, off the coast of Nagasaki, and initially intended for the Portuguese. From then on, the Dutch, through the VOC, were the only Western Europeans to be able to trade and communicate with the Japanese for around 200 years from the 1630s to 1854 (National Diet Library, 2009; Shively & McCullough, 2008).

1.2. Dutch-Japanese Linguistic Exchange

Officially, Dutch-Japanese relations during these 200 years were strictly economic in nature. VOC staff were not allowed to leave the island and were meticulously monitored (Vos, 1963). Nonetheless, non-commercial exchange unavoidably occurred as well. Imported Western scientific literature soon caught the eyes of the Japanese. Initially, Portuguese served as a bridge language, but it soon became clear to the Japanese that in order to be able to study and understand the Dutch-imported scientific literature, Portuguese constituted a communicative obstacle and should be omitted, and they would have to learn Dutch instead. Already in the 1670s, a loosely organised guild of Dutch-Japanese interpreters arose in Nagasaki that with time and in collaboration with Edo scholars, would establish the new academic subject of 'Dutch studies', or *rangaku*, which entailed the study of Western sciences alongside the Dutch language (Joby, 2021).

As rangaku formalised, so did the ways of learning the Dutch language. Initially, the study of the language was reserved for the elite of society, with feudal lords or other influential men leading the standardisation of Dutch language acquisition. As Japanese-run educational centres offering classes in Dutch-studies became commonplace, so did Japanese-published learning material and dictionaries. One notable institute, which started out as an institute for Dutch Studies, is Keio University. Students would start by learning the language's script and syllables before moving on to understanding dialogues and eventually compose own writings (Joby, 2021). While the Japanese themselves did the greater part of the learning, the Dutch staff at Deijima would sometimes also actively encourage language acquisition by personally organising and giving classes (Joby, 2021). As a result, student numbers rose as time went on.

After the forceful repeal of the *sakoku*-policy by the United States in 1853, which resulted in the end of Tokugawa rule and Japan opening up to the world, Dutch functioned as a crucial bridge language in Western-Japanese negotiations (Vos, 1963). It initially even saw increased use shortly after the opening of the country because of the large number and haste in which these negotiations were conducted (Joby, 2021). However, interest in Dutch was soon surpassed by the study of other European languages such as English and German. The trading station at Deijima shut down in 1854, marking the end of this unique Dutch-Japanese political and linguistic exchange.

1.3. Different Types of Loanwords

In general linguistics, distinctions are made between different types of loanwords. Important for this particular study are pure loanwords and loan translations, which are also known as calques. In the following, these two types of loanwords shall be discussed.

Pure loanwords are words that were directly transferred from one language to another with limited or no phonemic change (Joby, 2021). In the case of Dutch and Japanese, some phonemic change is inevitable, as both languages differ greatly in this regard. Firstly, because Japanese makes use of a syllabary system, it becomes difficult to replicate a word's pronunciation that comes from a language in which consonant clusters are common. Secondly, there is a noticeable limitation of expressible sounds in Japanese compared with languages such

as Dutch. This becomes especially clear when comparing the number of vowels of modern Japanese and Dutch's vowel charts in the standardised IPA representation of speech sounds:

Dutch: $[i, y, e, \emptyset, a, o, u, I, Y, \varepsilon, \alpha, o, \varepsilon i, oey, \alpha u]$ (Taalportaal, 2021)

Japanese: [a, i, u, e, o] (Hasegawa, 2015)

It should be mentioned that during the heyday of Dutch-Japanese linguistic exchange, both languages were by no means identical to their modern-day counterparts. A written and standardised Dutch barely existed and notable dialectal differences were present in both languages (Frellesvig, 2010). This is why many dictionaries list both Dutch and Flemish when referring to any Dutch loanword's donor language.

With this in mind, here are some reoccurring phonemic changes typical for Dutch pure loanwords in (Tokugawa-era) Japanese with examples for clarification (Vos, 1963). The reader's attention is drawn to the underlined sequence with which the typical phonemic changes are clarified:

- 1. Epenthesis in case of consonant clusters: randoseru from 'ransel' (knapsack)
- 2. Alveolar liquids /l/ and /r/ rendered as /r/: ranpu from 'lamp' (lamp)
- 3. Consonant /v/ visualised by /h/, /w/ or /f/: hetto from 'vet' (fat)
- 4. Before /u/, /d/ is rendered as /z/ or /dz/ and /t/ as /tsu/: <u>zukku</u> from 'doek' (canvas)
- 5. Dutch /u/ can be rendered as /o/: *koruku* from 'kurk' (cork)

Many subcategories for pure loanwords that entered the Japanese language through contact with Dutch present themselves. These shall be marked in the final word list of this thesis. The following subcategories exist:

- 1. Pure Dutch loanwords. These are Dutch words that entered the Japanese language as pure loanwords. They are called pure Dutch loanwords due to the fact that they cannot readily be labelled as loanwords within the Dutch language itself. Example: *zukku* from 'doek', meaning canvas.
- Dutch loanwords with foreign backgrounds. These are pure loanwords that themselves
 were loanwords embedded in the Dutch language when they made their way into
 Japanese. Many dictionaries cite these words as loanwords from their original language,

but this thesis argues that apart from being called loanwords of the initial donor languages, they also ought to be called Dutch lexical influence, due to the fact mentioned above. Example: *arraku* from 'arak', meaning arrack, which is a direct loanword in Dutch from Arabic 'araq'.

- 3. Dutch loanwords with semantic shift. Upon becoming embedded into the Japanese language, many Dutch loanwords underwent a shift in meaning. These loanwords may include both pure Dutch loanwords as well as Dutch loanwords with foreign influence. Example: *mesu* from 'mes', which means 'knife' in Dutch, but has come to mean 'scalpel' in Japanese.
- 4. Dutch loanwords used mainly or exclusively dialectically. Research into this subcategory of loanwords is sparse and therefore is it impossible to state whether or not this research included all of them. One example is *dontaku* from 'zondag' used in several dialects on Kyushu to describe Sunday or a holiday in general.

Pure loanwords are usually rendered in the Japanese *katakana* script. However, as is the case with pure loanwords from other languages than Dutch, it is possible for a number of Dutch pure loanwords to be rendered in so-called *ateji*. These are kanji characters that are principally used for their phonetical reading with only little emphasis being put on the actual characters' true meaning. Singular cases of Dutch pure loanwords being rendered in the *hiragana* script also exist. However, there exist select cases where such alternative renderings are preferred over the more established *katakana* renderings. In this thesis' final word list, these cases are rendered in *ateji* or *hiragana*.

The second category of lexical influence is loan translations. Though often overlooked, the concept behind them is rather straightforward. Dutch abstract terms for concepts and objects for which no word in Japanese exists and that cannot easily be adapted as pure loanwords are translated on a morpheme-by-morpheme basis (Joby, 2021). Sino-Japanese terms are most commonly used in the creation of loan translations. For instance, the Dutch word 'zwaartekracht', meaning gravity, could literally be translated as 'heavy power' into English. It was adopted into Japanese as the loan translation $j\bar{u}ryoku$, consisting of the Sino-Japanese morphemes $j\bar{u}$ 'heavy' and ryoku 'power'.

Finally, hybrid loanwords also exist within the Japanese language. These are words in which one morpheme consists of a Dutch loanword. Since Japanese is an agglutinative language, the quantity of hybrid loanwords is endless, in theory. Therefore, they are omitted in this thesis' final word list, with the exception of Dutch lexical influence that appears exclusively as hybrid loanwords.

2. Previous Research

2.1. Previous Compilations of Word Lists

It is difficult to determine when the study of Dutch lexical influence on the Japanese language began. Although several word lists and Dutch-Japanese dictionaries have been created as auxiliary material during the emergence of Dutch Studies as a standardised academic subject, they often make no attempt to describe the number of words of Dutch origin that appear in Japanese (National Diet Library, 2009). If the contemporary dictionaries and word lists from the Edo Period are not to be seen as compilations of Dutch lexical influence, it is in the 20th century that the first word lists begin to appear for the sole purpose of determining Dutch loanwords in Japanese. Many scholars approached this topic with different research questions in mind, using a wide array of different methods. Many of these do not go into much detail and leave out a large amount of proven Dutch lexical influence, most notably loan translations.

For the sake of clarity, only the works of the three most influential scholars within this field of study are discussed in this chapter. Dutch Japanologist Frits Vos compiled the first comprehensive list of Dutch lexical influence in his 'Dutch Influences on the Japanese Language' (Vos, 1963). His approach divides Dutch lexical influence into several subcategories, in which he lists 322 pure loanwords, 20 words of Portuguese and Spanish origin that were reinforced by the Dutch language and 23 dialectal loanwords. Although he touches upon loan translations, he does not go into details and provides an incomplete list, the shortcomings of which he acknowledges himself. Despite the fact that his work is well structured and holds up well to more recent research, it does not include any references, which makes it difficult to retrace his approach and consequently to confirm or reject his findings. However, the fact that this paper was republished in 2014 confirms that his work is still relevant today.

Shortly after the paper of Vos was first published, Shizuka Saitō attempted to compile a full overview of Dutch lexical influence in his 1967 work called '*Nihongo ni oyoboshita Orandago no eikyō*' ('The influence of Dutch on the Japanese language'). Differently from Vos, he lists 740 cases of Dutch lexical influence, focussing mainly on pure loanwords, but including many loan translations. Additionally, he provides primary sources for each entry into the compilation, giving it considerable value for future studies. The main problem with this work is that many of the words included have been used so rarely that it is hard to determine whether

they were ever truly embedded in the language at all. Furthermore, there are cases of double entries and notable exclusions which somewhat diminishes the value of the work. However, Saitō's list of lexical influence remains highly relevant, particularly because of his reference to primary sources, making it a crucial component for any research into the topic at hand.

The most important previous research for this thesis is Christopher Joby's 'The Dutch Language in Japan (1600–1900)', published in 2021. Although the scope of his research extended far beyond the Dutch lexical influence in Japanese, Joby has compiled the most complete list of Dutch loanwords to date. In it, he includes 488 Dutch loanwords and loan translations, which at one point were embedded into the Japanese language. The words he lists form the basis of the research carried out in this thesis. This is discussed further in section 3.2.

2.2. Shortcomings of the Previous Research

Some shortcomings of the works Saitō and Vos were already discussed in the previous chapter. Joby undoubtedly deserves great credit for his work, as it has become the new point of reference for any further research into the topic of Dutch linguistic influence on Japanese. However, two minor but significant remarks need to be made. Firstly, Joby's research only reviews Dutch influence until 1900. While it is true that after this year the status of the Dutch language in Japan has diminished to only a fraction of what it used to be, later developments are paid scant attention. Secondly, despite the fact that Joby adds an asterisk in front of words allegedly still used in contemporary modern Japanese, quick reviews seem to hint at inaccuracies in his method. One example of this is the Japanese word *giyaman*, which means glassware and derives from the Dutch word 'diamant'. Even though it is not marked by an asterisk, it can be found in the online dictionary Jisho and several physical dictionaries, in which it even is listed as a Dutch loanword (Kabushiki Gaisha Shōgakukan, 2001). These shortcomings in previous research contributed to the motivation of the current study.

3. The Current Study

3.1. Research Question, Hypothesis & Goal of this Research Project

As was described in the previous chapter, research into what words can be considered as Dutch lexical influence is manifold and thorough. Consequently, this thesis does not aim to tackle this specific aspect yet again. Instead it will attempt to find an answer to a less frequently asked question, that, despite having been touched upon in previous research, does not seem to have been solved with any certainty. The question referred to above has become the research question of this thesis and reads as follows:

What Dutch lexical influence remains relevant in contemporary modern Japanese?

It is crucial to define what 'relevant' means in this context and for this thesis. For this purpose, a specific definition for relevance of lexical influence was created:

'If any given (loan)word appears frequently enough in dictionaries and corpora, and/or is recognised by native speakers of the language in question, then the (loan)word is relevant'.

The hypothesis that follows from this definition is:

The frequency of words appearing in dictionaries and corpora is linked with whether or not it is generally recognised by native speakers of the language in question, i.e. if it appears often in said sources, it ought to be recognised by native speakers.

The final aim of this research project is the creation a list of still-relevant Dutch lexical influence in Japanese, which is included as two tables at the end of this thesis.

3.2. Methodology

For the purpose of this thesis, a quantitative approach to the methodology was used by subjecting an initial pool of 500 loanword entries to three analyses.

- 1. Firstly, six different dictionaries were consulted to establish whether they contained these 500 loanwords. The choice of dictionaries is discussed in the following chapter.
- 2. Secondly, their appearance in conventional Japanese writing was determined by reviewing the frequency of appearances of each entry in the Balanced Corpus of Contemporary Written Japanese.

3. Based on the results performed in the previous two steps, a list was composed that contains words expected to be recognised and words not expected to be recognised by native Japanese speakers. This list was used for the final step, in which the validity of the hypothesis was tested by distributing a questionnaire with these words to 105 Japanese native speakers, who were asked whether they understood these words.

From the results of this three-tiered analysis, the words included in the final word list were determined.

The starting pool of words consists mainly of Joby's compiled list of Dutch lexical influence (Joby, 2021) with several additions from Vos (1963) and Saitō (1967), as well as individual cases found in the lexicon *Nihon Kokugo Daijiten* (2001). Every word on the list is confirmed as being Dutch in one or more of the above listed references. However, some aspects ought to be noted:

- 1. Numerous cases of historical Dutch lexical influence exist in which the word in question was adapted into Japanese with slight differences in spelling. Three examples of such cases are the Japanese words that came from Dutch words 'inkt', meaning ink (*inku*, *inki* or *inkito*), 'fuchsia' (*hokushia* or *hokusha*) and 'dronken', meaning drunk (*doronken* or *doronko*). In such cases, the alternate forms of the same word were included into one entry in the base pool of words. However, there exist alternate spellings of the same words that never were definitively embedded into the Japanese language. These are marked by Joby (2021), but omitted in this research.
- 2. Influence that appears only as a suffix is omitted unless one specific word in which it is used can be classified as a Dutch loanword or loan translation. One example might be the suffix kei- which derived from the Dutch word 'kei', which associates any given word with solid materials such as rocks or stones. In this research, the Japanese word keiso, meaning silicon, has been included due to the fact that it derived from the Dutch word 'keiaard'. However, other Japanese words using the suffix kei- were not added because they were not created from an existing Dutch word. One such word is keiseki, meaning silica. This is a Japanese native creation, since no Dutch equivalent from which it could have derived exists.

- 3. When the only difference between two words that derive from the same Dutch source is whether or not a certain consonant is voiced, both varieties are included in the base pool of words under one entry. Examples for this are the loanwords of Dutch origin for turpentine (*terebin* or *terepin*), amethyst (*ameshisuto* or *amejisuto*) or octant (*okutanto* or *okudanto*).
- 4. In cases of abbreviations, both the abbreviated and complete form of the loanword in question are added into the base pool of words as a singular entry. Examples for this are the Japanese words of Dutch origin for dollar (*doru* and *doruraru*) and sarsaparilla (*sarusa* and *sarusaparirura*)
- 5. Only Dutch words that were embedded into the Dutch language at the time and that made their way into Japanese through Dutch-Japanese exchange were included. Therefore, Dutch words that themselves can be seen as lexical influence from other languages also have been included into the base pool of words. Common donor languages for these types of words are Latin, French and Arabic. One example for this is the loanword *arakku*, meaning arrack, which originally comes from the Arabic word for distillate 'araq'.
- 6. What Joby (2021) lists as 'Native Creations' were not included in the base pool of words, since the aim of this thesis is to determine specifically loanwords as opposed to words independently created by the Japanese. One example for a native creation in this context might be *shinkei*, meaning 'nerve'. It was created in order to translate the Dutch word for nerve 'zenuw', which was a new concept for the Japanese at the time. However, when translated into English on a morpheme-by-morpheme basis, *shinkei* means 'spiritlink'. Therefore, the word *shinkei* shows no connection to the Dutch language itself and is not considered lexical influence in this thesis. In principle, only words with direct linguistic links to the Dutch language are included in this project.

3.3. Step One: Dictionary Cross-Analysis

The basis for determining whether entries ought to be considered as relevant or not is made up by reviewing each separate word's appearance in six separate dictionaries. Of these dictionaries, three are online and three are physical. In the following, each dictionary will be briefly presented.

The online dictionaries are based on open source material. Of these, Jisho.org is perhaps most popular as it easily lets its users look up separate words or kanji as well as example sentences, making it ideal for day to day use. The second dictionary is part of an app called Kanji Study, which, apart from providing an equally convenient dictionary as Jisho.org does, also includes other built-in features that allow for adaptable memorisation-based self-study. The final online dictionary is the Japanese open source-based *Honyaku to Jisho (Translation and Dictionary)*, which offers a convenient mini Japanese-English open source dictionary and is directly linked with the Japanese version of Wikipedia, which gives valuable insight into the relevance of any given word.

The physical dictionaries consist of the two most authoritative dictionaries of the Japanese language, the *Nihon Kokugo Daijiten* (Shōgakukan, 2001) and *Kōjien* (Shinmura, 2018) as well as the pocket dictionary Kenkyusha's New Little Japanese-English Dictionary (Murakami, Shimizu, Kojima, 1994). *Nihon Kokugo Daijiten* (lit. The Great Dictionary of the Japanese Language) and Kōjien (lit. 'Wide Garden of Words') are the most complete monolingual Japanese dictionaries that exist up to date and therefore offer a valuable insight into the appearance of any Japanese word. In contrast, Kenkyusha's New Little Japanese-English Dictionary is a pocket dictionary and instead aims to provide the most important words only, which adds valuable insight for this research.

The dictionary cross-analysis was carried out in an Excel sheet in which the appearance of each word was marked (Appendix 1). Relevance is divided into three separate preliminary categories based on each word's appearance in said dictionaries.

1) Less than two appearances: Irrelevant

2) Two or three appearances: Undetermined

3) More than three appearances: Relevant

If a word exists in any given dictionary, it is marked with an 'x' for said dictionary. If it does not appear, it is marked with an 'o'. Combinations of these marks also exist. As is noted in section 3.2. under points one, three and four, singular entries were made for cases of slightly differing adaptions of loanwords both with regard to overall spelling and consonant voicing as well as cases of abbreviations that led to two or more similar yet distinct loanwords. Often only one of these alternatives exists in any given dictionary. In such cases, they are marked differently, with 'o/x' or 'x/o' depending on which alternative is listed in said dictionary. If both or neither alternative of such entries exists in any given dictionary, they are marked with a plain 'x' or 'o'. Whenever a word only appears as a compound within a larger word, it is marked with a bracketed 'o', (o).

3.3.1. Dictionary Cross-Analysis Results

To evaluate the initial results, it ought to be noted that entries from the base pool of lexical influence with two similar alternatives of which only one can exists in any given dictionary, i.e. entries marked by 'o/x' or 'x/o', were effectively counted as positive entries. After all, at least one of these alternatives exists and thus can be considered as being relevant according to that dictionary.

Cases where the entry only exists as a compound within a larger word, i.e. when they were marked with '(o)', were effectively counted as negative entries, due to the fact that they do not exist as a standalone dictionary entries.

The dictionary cross-analysis showed that of the 500 entries in the base pool of lexical influence, 335 entries are relevant and 131 entries are irrelevant. There are 34 cases, where the entries' relevance remains undetermined (Figure 1). The

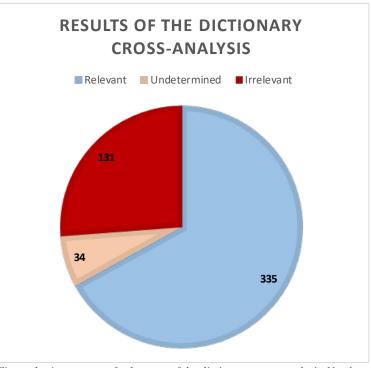


Figure 1 - Assessment of relevance of the dictionary cross-analysis. Numbers represent number of entries. Less than two appearances: Irrelevant: Two or three appearances: Undetermined; More than three appearances: Relevant

appearance of each entry is most easily understood by using the table and bar charts of Figure 2, where the results are presented in more detail.

From the results, the conclusion can be drawn that the number of most dictionaries' positive entries ranges between roughly 318 and 350, with two notable exceptions. *Nihon Kokugo Daijiten* shows a considerably higher number of positive entries and Kenkyusha's New Little Japanese-English Dictionary a significantly lower number (Figure 2). This is by no means surprising since the former is the largest Japanese monolingual dictionary published to date and the latter being a handy pocket dictionary designed to be practical. Thus, it can be considered as an early indicator for the validity of this research project's methodology.

When comparing the different dictionaries' differences and similarities, other observations can be made. The dictionary entries of Jisho.org and Kanji Study are near identical, with an overlap rate of over 90%. The rule is that, if any dictionary entry exists in Jisho.org, it

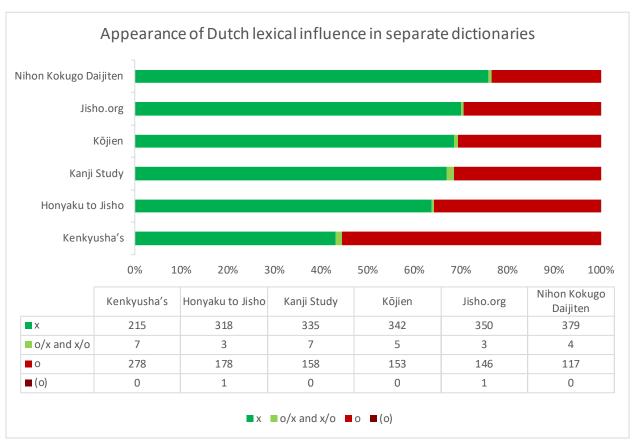
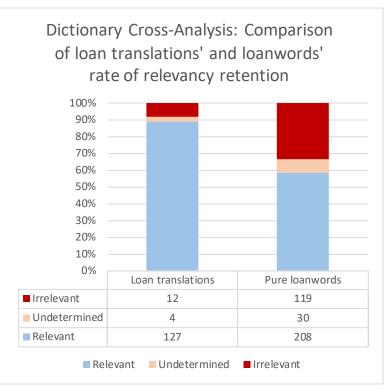


Figure 2 - Detailed overview of the rate of appearance of 500 Dutch loanword entries (x-axis) in the six selected dictionaries (y-axis). Legend: $x = positive \ entry$; $o = negative \ entry$; $o/x \ and \ x/o = only \ singular \ alternative \ of \ entry \ is \ positive$; $(o) = entry \ exists \ only \ as \ compound$.

also can be found in Kanji Study, but not vice versa. Reasons for this may be that they are based on similar open source databases. Nevertheless, they offer a subtle but practical contrast that comes in handy when determining relevance.

Furthermore, every entry marked as positive in Kenkyusha's New Little Japanese-English Dictionary ended up as being relevant. Most words that ended up being relevant also are marked positively in *Nihon Kokugo*



 $Figure \ 3-Dictionary \ Cross-Analysis: Comparison \ of loan \ translations \ and \ loanwords' \ rate \ of \ relevancy \ retention$

Daijiten. The only exceptions for this rule is *aisurandogoke* ('Icelandic moss'), which exists in four other dictionaries.

In addition, the result of dictionary cross-analysis reveals another tendency. Relevance retention amongst loan translations is considerably higher compared to pure loanwords. The initial results show, that out of the 143 entries of loan translations, twelve are irrelevant and the relevance of four is undetermined as of yet. In contrast, out of the 357 entries of pure loanwords, 119 were counted as irrelevant and the status of 30 is undetermined. This means that 89% of loan translations remain relevant as opposed to 58% of the pure loanwords (Figure 3). Note that this is a preliminary observation, upon which the following two steps build. Therefore, it is not representative of this thesis' conclusion.

To conclude, the dictionary cross-analysis has set a criterion to determine the relevance of the Dutch lexical influence. Hitherto, the results show that 335 entries of the base pool of lexical influence seem relevant, 131 irrelevant, whereas 34 cases remain inconclusive and should be investigated further in the next step of the analysis.

3.4. Step Two: Corpus Analysis

After the dictionary cross-analysis, several unresolved issues required further analysis, for which a corpus-based analysis presented itself as most viable. For this purpose, each entry's number of appearances in the Balanced Corpus of Contemporary Written Japanese was determined.

The Balanced Corpus of Contemporary Written Japanese encompasses a large array of different text registers covering more than one hundred million words that can be accessed through the web-based interface called *Chunagon*. The main reason why the Balanced Corpus of Contemporary Written Japanese was chosen for this research, is the corpus' uniqueness in that it covers not only many words, but also the broadest number of topics and text registers of all available corpora concerning contemporary modern Japanese. It covers mainly books, magazines, newspapers and newsletters, governmental texts, an internet bulletin board, a blog, school textbooks, law texts, and poetry verses (Maekawa et al., 2013).

The process of this particular research step is straightforward. After entering each separate entry of the base pool of 500 words as keywords and utilising the search function of the Balanced Corpus of Contemporary Written Japanese without changing any of the default settings, the application displays each separate search result alongside the number of items it found in its database. It is this number of search results that provides the extra dimension of information for this research.

Before showing the results of the Corpus analysis, two complications need to be addressed. Firstly, many cases exist in which the Dutch loanword in question shares identical spelling with different words, especially English loanwords that also have become embedded into the Japanese language. A more detailed review of the search results is usually required to determine the exact number of items found for these specific cases. This phenomenon is usually restricted to Dutch words that already have fallen out of use. Examples for this are the no longer relevant Dutch loanwords *doroppu* and *bakku*, which mean 'liquorice' and 'cistern' respectively, but share their spelling with the still-used English loanwords for 'drop' and 'back' of which the meanings clearly deviate from the Dutch loanwords. Thus, despite the fact that the Balanced Corpus of Contemporary Written Japanese displays 512 and 3546 search results for each respective loanword, none of these results contains the Dutch loanword and therefore, the correct number of search results for this research is zero. A less straightforward example would be the

Dutch loanword *kīru*, meaning 'keel'. It shares its spelling with the Japanese name of the German city Kiel. While the Balanced Corpus of Contemporary Written Japanese displays 96 search results, only 45 of these refer to the Dutch loanword.

The other complication occurs with entries in the base pool of words in which more than one alternative is included. In these cases, the number of search results for each separate alternative of the entry are both included in an Excel function in which they are added up, meaning that only one number is displayed in the final worksheet. For instance, the Japanese word for 'dollar' is usually written in the abbreviated form *doru* and occurs 9260 times in the Balanced Corpus of Contemporary Written Japanese. The unabbreviated *doruraru* is much less common and therefore occurs only twice in the corpus. Thus, the number of search results in the corpus of the entry for *doru(raru)* is the Excel function '=9260+2' which is displayed as 9262.

3.4.1. Corpus Analysis Results

The results of the corpus analysis were divided in six different frequency categories (Figure 4). These categories not only confirm observations made during the dictionary cross-analysis, but also provide additional information on top of it. Overall, 220 (44%) of all the entries of the base

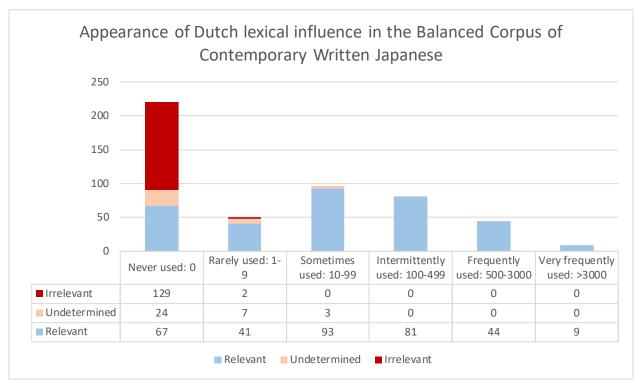


Figure 4 - Chart showing the results of the corpus analysis. The x-axis reflects the number of search results for each entry. Categories on y-axis reflect the preliminary results from and classifications made during the dictionary cross-analysis

pool of 500 entries do not appear in the corpus. Almost 60% of these words were defined as irrelevant. Even more striking is the fact that of the 131 words defined as irrelevant during the dictionary cross-analysis step, 129 do not appear in the Balanced Corpus of Contemporary Written Japanese at all, whereas two show just a single search result each. While the overwhelming majority of words appearing more than ten times in the Balanced Corpus of Contemporary Written Japanese were considered relevant during the dictionary cross-analysis, 67 do not appear even once and 41 only up to nine times. The corpus analysis also sheds light on the 34 entries whose relevance remained undetermined after the dictionary cross-analysis.

Despite the fact that the results from the corpus analysis correspond remarkably well with the findings made during the dictionary-cross analysis, some additional observations should be made and subsequent conclusions drawn.

Firstly, many words that are relevant according to the dictionary cross-analysis appear rarely if at all in the Balanced Corpus of Contemporary Written Japanese. Of these, 67 never appear and 41 only between one and nine times. Even though one might be inclined to disregard these words as irrelevant, several factors need to be taken into consideration before drawing such a conclusion. Of the 108 entries that were marked as relevant during the dictionary cross-analysis but do not appear at all or only rarely in the corpus, 83 can be considered as being specialised terminology within the fields of medicine, chemistry, physics, botany and grammar. Unsurprisingly, such erudite terms do not appear frequently in the previously listed types of text registers offered by the Balanced Corpus of Contemporary Written Japanese. Therefore, the fact that these terms do not appear in the corpus cannot be considered to prove their irrelevance, but should rather be seen as an indication of their very limited conventional use. Furthermore, many of the remaining 25 entries within this grouping are made up of historical, archaic, obscure or dialectal terms or names that remain relevant but largely out of use in conventional writing. A good example for a still-relevant historic term is the word *erekiteru* that derives from an abbreviation of the Dutch word for electricity. It became the name of an 18th century electrical generator that usually is given as 'elekiter' in English. Furthermore, despite the fact that kagaku is the standard term for chemistry in contemporary modern Japanese, the archaic form seimi, deriving from the Dutch word 'chemie', still appears in many dictionaries and is considered an important term for Japanese students of history. Therefore, although the word is archaic, it

should not be considered irrelevant. The archaic term for Japan, $y\bar{a}pan$, falls under the same category.

Secondly, the terms whose relevance remained undetermined after the dictionary cross-analysis should be remarked upon. Eleven of these appear rarely and only occasionally in the Balanced Corpus of Contemporary Written Japanese. These entries are *arakku* ('arrack'), *erikishiru* ('elixir'), *pūdo* ('pud'), *okutanto/okudanto* (octant), *moyorana* ('marjoram'), *karushūmu* ('calcium'), *mīakyatto* ('meerkat'), *arukemī* ('alchemy'), *egeresu* (archaic term for 'England'), *kino* (kino gum) and *yaesu* ('Yaesu', place name in Tokyo). Since they appear in the corpus, they are henceforth to be considered relevant.

Finally, as mentioned above, two entries which during the dictionary cross-analysis were declared irrelevant did indeed appear once each in the Balanced Corpus of Contemporary Written Japanese. These entries were *rimonāde* ('lemonade') and *masuchikku* (mastic gum). The combined reasoning that they both appear in one dictionary and in the corpus, warrants

reconsideration in regards to their relevance. Therefore, while they may only appear rarely, they are now considered as relevant. This means that overall, 348 entries have been declared as relevant up until this point.

Taking these new findings into account, a more detailed tendency can be observed (Figure 5). Out of the 348 entries that have been declared relevant, 221 are pure loanwords and 127 are loan translations. Interestingly, out of those 221 pure loanwords just 25 do not appear in the corpus at all. However, from the 127 loan

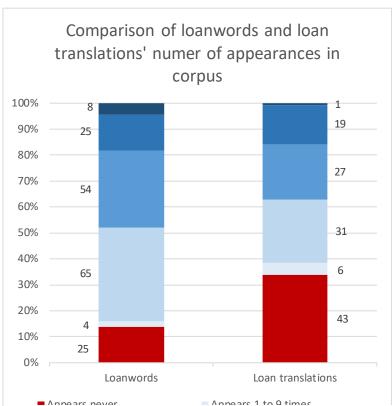


Figure 5 - Comparison of the appearances in Balanced Corpus of Contemporary Written Japanese of loanwords and loan translations that were declared relevant in corpus analysis. Rate of appearance expressed in percentages. In total, there are 221 pure loanwords and 127 loan translations.

translations, just 84 appear in the corpus (Figure 5). This means that 43, roughly one third, of all loan translations appear never or almost never in conventional Japanese writing, which implies that they are predominantly specialised terms used in specific fields of expertise.

After concluding the corpus analysis, 348 relevant and 129 irrelevant entries remain. A further 23 are left undetermined. In the following step, these results will be further analysed and verified.

3.5. Step Three: Questionnaire

Concluding the current study's research is a questionnaire created using Google Forms that inquires about whether or not Japanese native speakers understand a selection of 15 pure Dutch loanwords, the selection of which is described below. In the following, the structure of the questionnaire and the reasoning behind it are discussed. Please view Appendix 2 for the original document.

In the first part, participants were asked to voluntarily give some general information about themselves, including their occupation, gender, age, place of origin and whether or not they know Dutch. Although the questionnaire's focus lies on the general understanding of Dutch loanwords by Japanese native speakers, general information about the participants allows not only the determination of whether or not the questionnaire is completed by a sufficiently diverse group of people, but also allows further analyses of correlations between specific categories of people and their understanding of Dutch loanwords.

In the second part, 15 Dutch pure loanwords are marked within example sentences and the participants are asked to say whether they understand it or if they are unsure about the particular word's meaning. Note that no loan translations were added. The words included in the questionnaire can be divided into three main categories:

1. Words that are expected to be recognised. This group makes out the greater part of words the questionnaire inquires about. It consist of the terms *orugōru* ('music box'), *arukemī* ('alchemy'), *egeresu* ('England' or 'English'), *karan* ('faucet'), *hetto* ('beef tallow'), *mesu* ('scalpel'), *sēpu* ('soap') and *koppu* ('cup'). Of these, *orugōru*, *karan*, *mesu* and *koppu* appear in all dictionaries as well as in the corpus and are thus expected to be

widely understood. *Hetto* appears in only five dictionaries and rarely in the corpus, which is why it may be that it is recognised by fewer people than the others. *Arukemī* and *egeresu* are the two entries that were declared relevant only after the corpus analysis. Finally, $s\bar{e}pu$ appears in only four dictionaries, all of which consider it to be archaic, meaning that it may be less frequently recognised than the other words of this group.

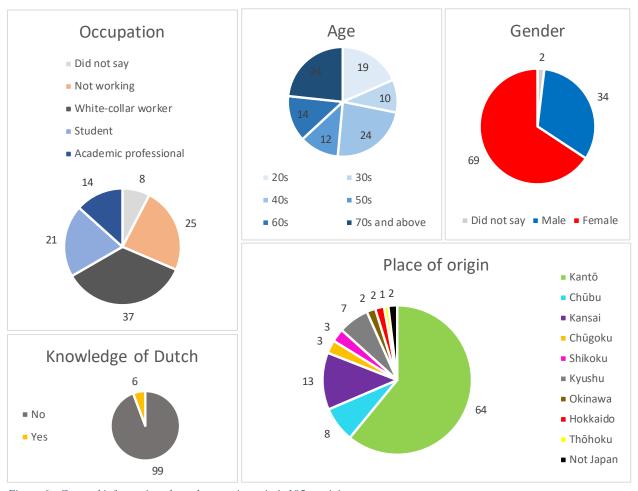
- 2. Words that are expected not to be recognised. These include *keitoru* ('boiler'), *pottorōdo* ('pencil') and *gorōto* ('large'). Only *pottorōdo* and *gorōto* appear in the *Nihon Kokugo Daijiten*. None of them appear in the corpus.
- 3. Words whose relevance remains undetermined. These are *orēfu* ('olive'), *sutorōpuwaffuru* ('syrup waffle'), *furafu* ('flag') and *bōtoru* ('butter'). The entries for these words show unclear results in the dictionary cross-analysis and therefore this questionnaire will attempt to draw conclusions for the results it gets regarding the rate of recognition for these selected words. According to Vos (1963), the word *furafu* remains in use dialectically.

In the last part of the questionnaire, the participants are shown the correct meanings of the words they were asked about. In recognition of the fact that participants may have misjudged their understanding of any given word, they had the option (in the form of an extended response text) to amend any answer they gave in the previous part or the possibility to state that they recognised any word's meaning after having seen the answers.

Before moving on to the results of the questionnaire, some things ought to be taken into account. The reason why no loan translations were added to the questionnaire, is because the data regarding their relevance collected during the past two analyses was sufficiently clear, making further research on them unnecessary. Considering the already limited space of the questionnaire, the choice was made to keep it short and concise, focusing on a single theme, namely pure loanwords. Furthermore, after the test run with the first five participants, it was realised that the questions on $s\bar{e}pu$ and koppu were unintentionally left out. Therefore, five fewer answers are collected on these two entries.

3.5.1. Questionnaire Results

Altogether, 105 Japanese native speakers participated in the questionnaire. The demographics of the participants is well balanced and should provide reliable answers reflective of the overall status of contemporary modern Japanese (Figure 6). However, four observations about the participants' demographics should be noted. Firstly, the majority of the participants are female. Because the rate of recognition is the same for both genders, this does not further affect the quality of the research. Secondly, the greater part of the participants is from the Kantō region, meaning that the possibility of detecting dialect variation is limited. Thirdly, not a single blue-collar worker participated in the survey. In fact, the vast majority of the participants have an academic background, including the 25 participants listed under 'Not working', who are predominantly retirees. Finally, six participants have knowledge of the Dutch language, which



 $Figure\ 6\ -\ General\ information\ about\ the\ question naire's\ 105\ participants$

may influence the results of the questionnaire. Therefore, special attention was paid to the answers of these participants with regard to whether they differ from the rest or not.

With these considerations in mind, it is possible to analyse the results that the questionnaire yielded. First, the separate results for each entry included in the questionnaire were viewed in accordance with the previously determined three categories: expected to be recognised, expected not to be recognized and undetermined. Next, correlations between the demographics and the results were looked for. Finally, the conclusion of the questionnaire results will be made with regard to the relevance of both the included entries as well as the remaining undetermined ones in the base pool of words.

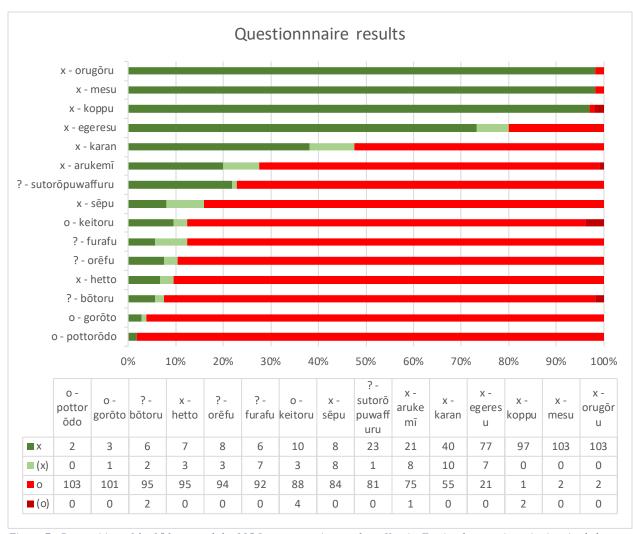


Figure 7 - Recognition of the 15 loanwords by 105 Japanese native speakers. Y-axis: Entries the questionnaire inquired about. The following words categories were included: x - Expected to be recognised; o - Expected not to be recognised; o - Unsure whether this word would be recognised. X-axis: Rate of recognition. x = Understood, (x) = Understood upon seeing the answer, o = Undetermined, (o) = Realised the word was understood incorrectly upon seeing the answer.

Overall, the entries previously considered as relevant and irrelevant were recognised accordingly. The median number of recognised entries for all 15 words is 5.4, with *orugōru*, *mesu, koppu, egeresu, karan* and *arukemī* being the six words recognised most. The largest drop occurs between *egeresu* and *karan*, where the rate of recognition falls from 80% to just short of 50%. The first six entries were words that were expected to be well understood. In this category there are two exceptions. These are *sēpu* and *hetto*. Some entries are understood more often than others after the meanings of the separate words were revealed. These include *egeresu*, *karan*, *arukemī*, *sēpu* and *furafu*. Of the last two, the former was understood equally as often and the

latter more often after the words' meanings were revealed. The three least understood words were bōtoru, gorōto, and pottorōdo, two of which were expected not to be recognised. There is one exception in this group as well, with keitoru being recognised 13 times. Of the entries whose relevance remained undetermined, sutorōpuwaffuru was most frequently understood. This amounted to a rate of recognition of roughly 23%. The rate of recognition for the rest of the entries within this category fluctuates around 10%.

When comparing the questionnaire's results with the participants' demographics, few overlying tendencies can be conserved. No meaningful correlation exists between the median number of recognised entries and the participants' gender or occupation. These two factors were therefore disregarded. No dialectical

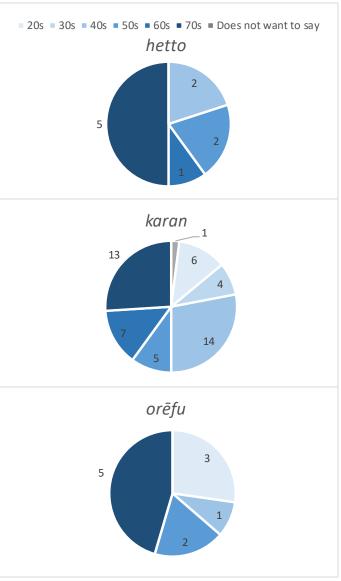


Figure 8 - Rate of recognition for the selected words hetto, karan and orēfu. The numbers represent the number of times the entry was understood by the specific age group.

tendencies revealed themselves. The largest distinction exists between the Japanese native speakers that do and the ones that do not have knowledge of Dutch. The median number of recognised entries for native Japanese speakers with Dutch knowledge is 8.33, whereas the median of recognised entries for speakers without such knowledge lies at only 5.22. In fact, Japanese speakers of Dutch are the only ones to understand *pottorōdo* and *gorōto*.

One interesting theory that the results of this questionnaire seem to hint at is that the rate of recognition of Dutch loanwords is steadily falling in contemporary modern Japanese, because older people averagely understand more words than younger ones. When disregarding the Japanese speakers of Dutch, the median number of recognised entries for people above the age of 70 is 5.65, as opposed to the same number for people in their twenties, which is 5.00. Whether this phenomenon is significantly different can be analysed further case-specifically. In the case of the less-often understood entries *hetto*, *karan* and $or\bar{e}fu$, for instance, it should be noted that the majority of the people understanding these select words belong to the age groups 50 and above. If the Japanese speakers of Dutch were to be disregarded, this majority would increase even further, which seems to support the hypothesis that selected Dutch loanwords may slowly be losing relevance in contemporary Japanese. However, further research is needed to definitively prove this.

The data provided by the questionnaire allow of several conclusions to be drawn concerning each of the previously established categories of relevance. The entries that were supposed to be relevant are confirmed as such in the results of the questionnaire. As expected, the two entries supposedly relevant after the corpus analysis are recognised less often than the others in this category. Nonetheless, it is not unreasonable to conclude that their rate of recognition is sufficiently high to prove their relevance. If anything, the relatively high number of people that understood these two entries after their meaning was revealed seems to indicate that they are part of the more ambiguous passive vocabulary and that existing synonyms are more readily used. The same is true for the entry *karan*. One outlier is the word *hetto*, with an unparalleled low rate of recognition. Reasons for this may be that it is in fact a specialised term or that it is slowly dying out (Figure 8). Another less-recognised word is the archaic *sēpu*, but unlike *hetto*, it seems to be more readily present in peoples' passive vocabulary. The possibility that it was recognised by so many after its meaning was revealed because of the word's

resemblance to its synonym *sōpu* cannot be neglected. Nevertheless, despite the existence of an outlier in this group, the overall tendency confirms previous observations and thus all words within this category shall remain to be categorised as relevant.

As for the entries previously classified as irrelevant, both *pottorōdo* and *gorōto* were recognised so infrequently that their irrelevance was confirmed. Furthermore, in the two cases that they were indeed recognised, it was by Japanese native speakers with knowledge of Dutch. As for *keitoru*, it was recognised 13 times, which is surprisingly high considering that it appears neither in any dictionaries nor in the corpus. It seems however, that it very much resembles the Japanese word for kettle spelled either *ketoru* or *kettoru*, suggesting that there may have been some misinterpretation. While a comparatively high number of people, four, took back their answer and shared their surprise in the optional response text at the end of the questionnaire, it may be the case that others did not do so. Therefore, this outlier should be considered irrelevant. Altogether, this questionnaire proves the previous observations about relevance relatively well.

The most important part of the conclusion concerns the entries whose relevance remains undetermined. Here, every single entry included in the questionnaire is discussed separately. Firstly, *bōtoru* was recognised too rarely to comfortably be called relevant. This is also the case for orēfu and furafu. Their higher rate of recognition may be explained by their similarity to the still-relevant English loanword counterparts of *orību* and *furaggu*. These three loanwords only appear in the Nihon Kokugo Daijiten and Kōjien. Therefore, a general rule could be created that says that whenever any as of yet undetermined entry only appears in these two dictionaries, it is irrelevant. Finally, sutorōpuwaffuru is recognised often enough to declare it relevant. It appears in all three online dictionaries. Therefore, another rule could be created that dictates that every as of yet undetermined entry that appears in every online dictionary should be considered as relevant. If another look is taken at the case of sēpu, which appears in both Jisho.org and Kanji Study, as well as *Nihon Kokugo Daijiten* and *Kōjien*, the following rule for the remaining undetermined entries can be created: If any as of yet undetermined entry appears in any online dictionary as well as in either Nihon Kokugo Daijiten or Kōjien, it ought to be considered as relevant. Despite the fact that these rules were created on the fly, they hold up well when comparing to the results of the corpus analysis. There, the undetermined entries considered relevant *arakku*, *erikishiru* and *mīakyatto* appear in all three online dictionaries and the entries

arukemī and mayorana appear in one of the online dictionaries and either Nihon Kokugo Daijiten or Kōjien.

If these newly created rules are applied, the following entries whose relevance remains undetermined will be considered as relevant: $kagy\bar{u}kaku$ ('cochlea'), erasuchikku ('elastic'), hokushiya/hokusha ('fuchsia'), raigin ('fulminating silver'), hissopu ('hyssop'), marusu ('Mars'), nen'ekishu ('myxoma'), nafuta ('naphtha'), berensu ('Prussian blue'), $sutor\bar{o}puwaffuru$ ('syrup waffle'). The remainder of the undetermined entries shall henceforth be discarded.

3.6. Analyses' Result

Based on this three-tiered analysis, the final goal of this thesis, i.e. the compilation of a list of still-relevant Dutch lexical influence in Japanese, was reached and visualised in Table 1 and Table 2. In order to avoid disrupting the text, these two tables in which all 358 words are included were added in section 4.4.

4. Conclusion

4.1. The Current Study's Results

The completion of the analysis of the questionnaire's results concludes the current research. With 21 of the 34 entries whose relevance remained undetermined having been established as relevant, the results can be presented. Of the 500 entries in the base pool of words, 358 words ought to be considered as relevant (Table 1, Table 2) and the remaining 142 entries as irrelevant, as substantiated in this thesis. This answers the research question. Since there is no standardised form of relevance on which to base this conclusion, the accuracy of the answer remains uncertain. However, it is possible to discuss in greater detail whether the hypothesis stated in this thesis is correct. The frequency of words appearing in dictionaries and corpora correlates with but is not strictly linked to the fact whether or not native speakers of the language in question are able to recognise them. This was observed in the case of the entry *hetto*, which despite appearing in all online dictionaries, *Nihon Kokugo Daijiten*, *Kōjien* and the Balanced Corpus of Contemporary Written Japanese, is recognised by less than 10% of the questionnaire's 105 participants of Japanese native speakers of all walks of life. Therefore, strictly speaking the hypothesis is false.

With only very few exceptions, the bulk of Dutch lexical influence occurred during Japan's era of isolation from the 1630s to 1854. In conclusion, it can be said that a majority of about 72% of the Dutch lexicon that at some point became embedded in the Japanese language remained relevant from its adoption more than 164 years after the main influx of Dutch loanwords.

4.2. Limitations

The results of this study were clear and satisfactory. Nevertheless, some limitations need to be kept in mind when reviewing the outcome. Due to the fact that it was conducted by one person with limited time and resources, the scope of the three steps carried out in this research paper may have been more small-scale than the topic at hand calls for. This is purely a question of quantity. More dictionaries, corpora and questionnaire participants would result in more data to work with and potentially avoid a high number of undetermined entries. To address the issue of undetermined entries, this thesis opted to draw conclusions from the data received from the

questionnaire. Furthermore, all the research of this thesis was conducted manually, and this implies that there might be human error in the data. Having said this, the results were reviewed multiple times and no errors were found. On a final note, a significant number of loanwords appeared exclusively in *Nihon Kokugo Daijiten*, where they were listed as Dutch loanwords. Many of these did not turn out to be considered as relevant according to the definitions formulated in this thesis. However, the fact that these words only appeared in the *Nihon Kokugo Daijiten* and did not appear in any of the other secondary sources, may cast some doubt on their completeness. Due to time limitations, a comprehensive extraction of loanwords uniquely included in the *Nihon Kokugo Daijiten* was not feasible. It is unknown to what extent the results may have differed if it would have been carried out.

4.3. Ideas for future research

As mentioned in the previous chapter, this thesis acknowledges its limitations. Future research on the quantity of Dutch lexical influence may address these shortcomings by taking on the same topic on a larger scale. It might, for instance, incorporate a more varied and larger number of Japanese dictionaries and corpora as well as include a questionnaire including more words with more participants from all across Japan. Furthermore, a thorough re-examination of the primary sources might also lead to the discovery of other ways in which Dutch exerted lexical influence on the Japanese language. For reasons mentioned in the beginning chapters of this paper, this thesis opted for working with exclusively secondary sources, making it dependent on other researchers' findings.

Aside from this, other overlooked facets of this topic also presented themselves during the writing of the thesis. Little study has been done on dialectical Dutch loanwords in Japanese and while some were added to the final word list of this thesis, there is a high probability that there are many more. This thesis also chose to disregard hybrid loanwords entirely due to the fact that their study did not coincide with the research questions posed. However, a quantitative study of the number of regularly used hybrid loanwords that include components of Dutch lexical influence may yield interesting results and show that relevant Dutch lexical influence on Japanese is much more considerable. Another area largely absent of previous research is the influence of the Dutch language on Japanese after the ending of the Dutch trading monopoly in

the year 1854. Finally, this style of research can also be applied for loanwords in Japanese from other languages than Dutch, such as German, Portuguese, Spanish, Russian or French.

4.4. List of Relevant Words of Dutch Origin in Contemporary Modern Japanese

The list is divided in two tables: Pure loanwords (Table 1) and loan translations (Table 2). The loanwords are ordered in accordance with the *Gojūon* kana-ordering system. The Dutch originals with standardised spelling of contemporary modern Dutch as well as the English translations are also included. The loanword subgroups with notes and the relevance of each word are listed in the fourth and fifth column, respectively. The Dutch origin of each of loanword has been confirmed in one of more of the following works: Joby (2021), Saitō (1968), Vos (1963) or *Nihon Kokugo Daijten* (Shōgakukan, 2001).

The different loanword subgroups are abbreviated as follows:

PDL = Pure Dutch loanword

LFB = Dutch loanword with foreign background (i.e. pure loanwords of a different language in Dutch)

SS = Semantic shift

DL = Dialectal loanword

HL = Hybrid loanword

The relevance of the words is based on the research conducted in the thesis. The following five categories exist:

- ■□□□□ = No appearance in corpus, but in more than four dictionaries

 OR Limited appearance in corpus (less than 10 times) and dictionaries (less than two times)
- ■■□□□ = Appearance in corpus (less than 500 times), but in only two to three dictionaries OR Limited appearance in corpus (less than 100 times) and in more than four dictionaries
- $\blacksquare \blacksquare \square \square =$ Appearance in corpus (100 to 500 times) and in more than four dictionaries
- ■■■□ = Frequent appearance in corpus (500 to 2000 times) and in more than four dictionaries
- **THEORY** = Very frequent appearance in corpus (more than 2000 times) and in more than four dictionaries

Table 1: Pure Loanwords

Japanese	Dutch	English	Subgroups and notes	Relevance
アカシア	Acacia	Acacia	LFB (Latin acacia)	
akashia				
アキレス腱	Achillespees	Achilles' tendon	HL	
akiresuken				
アスベスト	Asbest	Asbestos	PDL	
asubesuto				
アナナス	Ananas	Pineapple	LFB (Tupi ananas)	
ananasu				
アニス	Anijs	Anise	PDL	
anisu				
アパルトヘイト	Apartheid	Apartheid	Dutch/Afrikaans	
aparutoheito				
アフリカーンス 語	Afrikaans	Afrikaans	Dutch/Afrikaans	
afurikānsugo				
アメジスト	Amethist	Amethyst	PDL	
or アメシスト				
amejisuto/ameshisuto				
アラック	Arak	Arrack	LFB (Arabic araq)	
arakku				
アラビアゴム	Arabisch gom	Gum Arabic	PDL	
arabiagomu				
アルカリ	Alkali	Alkali	LFB (Arabic al qalīy)	
arukari			LED (A. I.)	
アルケミー	Alchemie	Alchemy	LFB (Arabic <i>al-kīmiyā</i>)	
arukemī				
アルコール	Alcohol	Alcohol	LFB (Arabic al-kuḥl)	
arukōru			LFB (Latin arnica)	
アルにカ	Arnica	Arnica	LFB (Laun arnica)	
arunika	A1. "	A1	LFB (Latin aloe)	
アロエ	Aloë	Aloe	LFD (Laul aloe)	
aroe	Anjolian	Cornetion	PDL	= 0000
アンジャベル	Anjelier	Carnation	IDL	
anjaberu	Antimonie	Antimony	PDL	
アンチモニー	Antimonic	Antimony		
anchimonī	Ammonia	Ammonia	PDL	
アンモニア	Ammonia	Ammonia		
anmonia				

イットリウム	Yttrium	Yttrium	PDL	
ittoriumu				
インク	Inkt	Ink	PDL	
or インキ(ト)				
inku/inki(to)				
エーテル	Ether	Aether	PDL	
- eteru				
エキス (トラクト)	Extract	Extract	PDL	
ekisu(torakuto)				
エゲレス	Engels	United Kingdom	SS ('Engels' means	
egeresu		(arch.)	'English)	
エラスチック	Elastiek	Elastic	PDL	
erasuchikku				
エリキシル	Elixir	Elixir	PDL	
erikishiru				
エル	Ell	Ell	PDL	
eru				
エルビウム	Erbium	Erbium	PDL	
erubiumu				
エレキ	Elektriciteit	Electricity	Abbreviated PDL	
ereki				
エレキテル	Elektriciteit	Elekiter (electric	PDL	
erekiteru		generator)		
オクダント	Octant	Octant	PDL	
or オクタント				
okudanto/okutanto				
オスミウム	Osmium	Osmium	PDL	
osumiumu				
オパール	Opaal	Opal	PDL	
opāru				
オブラート	Oblaat	Paper-thin wafer	PDL	
oburāto				
オルゴール	Orgel	Music box	PDL	
orugōru				
オンス	Ons	Ounce	PDL	
onsu				
お転婆	Ontembaar	Tomboy	SS ('ontembaar' means 'untameable')	
otenba				
カカオ	Cacao	Cocoa	LFB (Spanish cacao)	
kakao				

ガス	Gas	Gas	PDL	
gasu				
カタコンベ	Catacombe	Catacomb	PDL	
katakonbe				
カタル	Catarre	Catarrh	LFB (French catarrh)	
kataru				
カテーテル	Katheter	Catheter	PDL	
katēteru				
カドミウム	Cadmium	Cadmium	PDL	
kadomiumu				
カトリック	Katholiek	Catholic	PDL	
katorikku				
カノン	Kanon	Cannon	PDL	
kanon				
カバン	kabas	bag	Unclear. Possibly originally <i>kabansu</i>	
kaban				
カミツレ	Kamille	Chamomile	PDL	
kamitsure				
カメレオン	Kameleon	Chameleon	PDL	
kamereon				
カユプテ	Kajapoet	Cajeput	LFB (Indonesian <i>kayu putih</i>)	
kayuputo				
ガラス	Glas	Glass	PDL	
garasu				
カラン	Kraan	Faucet	PDL	
karan				
カリ(ウム)	Kalium	Potassium	PDL	
kari(umu)				
ガリウム	Gallium	Gallium	PDL	
gariumu			DDI	
カルキ	Kalk	Chalk	PDL	
karuki			DDI	
カルシューム	Calcium	Calcium	PDL	
karishūmu			DDI	
カルミン	Karmijn	Carmine	PDL	
karumin	T7 1 1		DDI	
カロメル	Kalomel	Calomel	PDL	
karomeru			DDI	
カン	Kan	Can	PDL	
kan				

カンタリス	Cantharis	Cantharidin	LFB (Latin cantharis)	
kantarisu				
カンテラ	Kandelaar	Lantern	Possible Portuguese	
kantera			influence from candeia	
ガンビール	Gambir	Gambier	PDL	
ganbīru				
カンフル	Kamfer	Camphor	PDL	
kanfuru		•		
キール	Kiel	Keel	PDL	
kīru				
キニーネ	Kinine	Quinine	PDL	
kinīne				
キノ	Kino gom	Kino (gum)	LFB (Indian	
kino		,	languages kino)	
ギプス	Gips	Gypsum	PDL	
gipusu	•			
ギヤマン	Diamant	Glassware;	SS	
giyaman		Diamond (arch.)		
グルデン	Gulden	Guilder	PDL	
guruden				
クレオソート	Creosoot	Creosote	PDL	
kureosōto				
グロス	Gros	Gross	PDL	
gurosu				
クロム	Kroom	Chromium	PDL	
kuromu				
ケイ素	Keiaard	Silicon	HL	
keiso				
ケルプ	Kelp	Kelp	PDL	
kerupu	•	•		
ゲレイン	Grein	Grain (unit)	PDL	
gerein				
ゲンチアナ	Gentiana	Gentian	LFB (Latin gentians)	
genchiana				
コエンドロ	Koriander	Coriander	Portuguese koentro	
koendoro			reinforced by Dutch	
コーヒー	Koffie	Coffee	PDL	
kōhī				
コチニール	Cochenille	Cochineal	LFB (French	
kochinīru			cochenille)	
	<u> </u>	1	L	1

コック	Kok	Chef	PDL	
kokku				
コップ	Kop	Cup	PDL	
koppu				
コバルト	Cobalt	Cobalt	PDL	
kobaruto				
ゴム	Gom	Gum	PDL	
gomu				
コルク	Kurk	Cork	PDL	
koruku				
コレラ	Cholera	Cholera	PDL	
or コロリ				
korera/korori				
コロイド	Colloïde	Colloid	PDL	
koroido				
コロジオン	Collodion	Collodion	PDL	
korojion				
コンパス	Kompas	Compass	PDL	
konpasu				
サーベル	Sabel	Sabre	PDL	
sāberu				
サゴ	Sago	Sago	PDL	
sago				
サッサフラス	Sassafras	Sassafras	LFB (Latin sassafras)	■0000
sassafurasu				
サテン	Satijn	Satin	PDL	
saten				
サフラン	Saffraan	Saffron	PDL	
safuran				
サルサ (パリルラ)	Sarsaparilla	Sarsaparilla	LFB (Latin sarsaparilla)	
sarusa(parirura)				
サルビア	Salvia	Salvia	LFB (Latin salvia)	
sarubia			DDI	
シアン	Cyaan	Cyan	PDL	
shian	D: :: 1	D: : 1	LED (L-4): P % P %	
ジギタリス	Digitalis	Digitalis	LFB (Latin digitalis)	
jigitarisu	1.	Direction	HL	
ジャガイモ	aardappel	Potato	I LL	
jagaimo	7.1	T.1	TED (Inda :	
ジャガタラ	Jakarta	Jakarta; Potato	LFB (Indonesian Jakarta)	
jagatara				

繻珍	Satijn	Satin	PDL	
	J			
shuchin シロップ	Siroop	Syrup	PDL	
shiroppu	Биоор	Syrup		
スコップ	Schop	Spade	PDL	
	Бепор	Space		
sukoppu	Doek	Canvas	PDL	
ズック	Dock	Canvas		
zukku ストリキニーネ	Strychnine	Strychnine	PDL	
, , , ,	Strycinine	Strychillic		
sotorikinīne	Stroopwafel	Syrup waffle	PDL	
ストロープワッフル	Shoopwater	Syrup warne	TDE	
sutorōpuwaffuru	Spuit	Curingo	PDL	
スポイト	Spuit	Syringe	I DL	
supoito	Chareir	Charriet	PDL	
セイミ	Chemie	Chemistry (arch.)	PDL	
seimi			DDI	
セープ	Zeep	Soap (arch.)	PDL	
sēpu			777	
セネガ	Senega	Senega	PDL	
senega				
ゼネラル	Generaal	General	PDL	
zeneraru				
セメント	Cement	Cement	PDL	
semento				
センチメートル	Centimeter	Centimetre	Dutch/French	
senchimētoru				
センナ	Senneblad	Senna leaf	PDL	
sen'na				
ソーダ	Soda	Soda	PDL	
soda				
ソップ	Soep	Soup	PDL	
soppu				
ターフル	Tafel	Table	PDL	
tāfuru				
タマリンド	Tamarinde	Tamarind	LFB (Latin	
tamarindo			tamarindus)	
ダライ (盤)	Draaibank	Lathe	PDL	
darai(ban)				
タラップ	Trap	Gangway	SS ('trap' means	
tarappu	•		'stairs')	
ширри			I	L

タルト	Taart	Tart	LFB (French tarte)	
taruto				
ダンス	Dans	Dance	PDL	
dansu				
チフス	Typhus	Typhoid fever	PDL	
chifusu				
チンキ	Tinctuur	Tincture	PDL	
chinki				
デッキ	Dek	Deck	PDL	
dekki				
テレビン	Terpentijn	Turpentine	PDL	
or テレピン				
terebin/terepin				
ドイツ	Duits	Germany	PDL	
doitsu				
ドクトル	Doctor	Doctor	PDL	
dokutoru				
ドック	Dok	Dock	PDL	
dokku				
ドル (ラル)	Dollar	Dollar	PDL	
doru(raru)				
ドロンケン	Dronken	Drunk	PDL & DL	
doronken				
ドンタク	Zondag	Sunday	PDL & DL	
dontaku				
ナトリウム	Natrium	Sodium	PDL	
natoriumu				
ナフタ	Nafta	Naphtha	PDL	
nafuta				
ニッケル	Nikkel	Nickel	PDL	
nikkeru				
ネーデルランド	Nederland	Netherlands	PDL	
nēderurando				
バイト	Beitel	Chisel	PDL	
baito				
パップ	Pap	Cataplasm	PDL	
рарри				
ハトロン紙	Patroon	Kraft paper	HL	
hatoronshi				
パプリカ	Paprika	Bell pepper	PDL	
papurika				

ハム	Ham	Ham	PDL	
hamu				
バルサム	Balsem	Balsam	PDL	
barusamu				
パレット	Palet	Palette	LFB (French palette)	
paretto				
ハロゲン	Halogeen	Halogen	PDL	
harogen				
半ドン	Zondag	Half-holiday	HL & DL	
handon				
ビート	Biet	Beet	PDL	
bīto				
ビール	Bier	Beer	PDL	
bīru				
ビスケット	Beschuit	Rusk	PDL	
bisuketto				
ヒステリー	Hysterie	Hysteria	PDL	
hisuterī				
ピストル	Pistool	Pistol	PDL	
pisutoru				
ヒソップ	Hyssop	Hyssop	LFB (Latin hyssopus)	
hisoppu			DDI	
ヒポコンデリー	Hypochondrie	Hypochondriasis	PDL	
hipokonderī				
ヒヨス	Hyoscyamus	Henbane leaf	LFB (Latin hyoscyamus)	
hiyosu				
ピンセット	Pincet	Tweezers	LFB (French pincette)	
pinsetto			All ' IDDI	
ピント	Brandpunt	Focus (camera)	Abbreviated PDL	
pinto	Dooi	Duran	PDL	
ブイ	Boei	Buoy	TDL	
bui	Foezel	Fusel	PDL	
フーゼル	1 Oczel	Tuser		
fūzeru フード	Hoed	Hood; Hat	PDL	
,	11000	1100u, 11at		
fūdo プード	Pud	Pood	Dutch/Russian	
pūdo フラネル	Flanel	Flannel	PDL	
	1 miles	I MIIIIOI		
or フランネル				
furaneru/furan'neru				

プラチナ	Platina	Platinum	PDL	
purachina				
ブリキ	Blik	Tin plate	PDL	
buriki				
フリントガラス	Flintglas	Flint glass	PDL	■□□□□
furintogarasu				
プロイセン	Pruisen	Prussia	Dutch/German	
puroisen				
ヘクトメートル	Hectometer	Hectometre	LFB (French hectometre)	
hekuto				
ペスト	Pest	Plague	PDL	
pesuto				
ヘット	Vet	Beef tallow	SS ('vet' means 'fat')	
hetto				
ペリカン	Pelikaan	Pelican	PDL	
perikan				
ベルギー	België	Belgium	PDL	
berugī				
ベレンス	Berlijns blauw	Prussian blue	Abbreviated PDL	
berensu				
ベン	Pen	Pen	PDL	
pen				
ベンガラ	Bengaal	Red iron oxide	Imported from Bengal, hence the	
orベニガラ			name	
bengara/benigara		<u> </u>	DDI	
ベンキ	Pek	Paint	PDL	
penki			PDI	
ヘンルーダ	Wijnkruit	Common rue	PDL	
henrūda			DDI	
ホース	Hoos	hose	PDL	
hōsu	-		DDI	
ボート	Boot	Boat	PDL	
bōto (# /	D 1 1	D 31	DDI	
ボール盤	Boor bank	Drill press	PDL	
bōruban	F 1 '	P. L.	LED (Lotin Conti.)	
ホクシヤ	Fuchsia	Fuchsia	LFB (Latin fuchsia)	
or ホクシャ				
hokushiya/hokusha			DDI	
ホック	Hoek	Hook	PDL	
hokku				

# タブ	ホッテントット	Hottentot	Hottentot, Khoi People	PDL	
ポリーブ Poliep Polyp PDL INDED #*** ポリーブ Poliep Polyp PDL INDED #*** ポンズ Pons Punch; Squash PDL INDED #*** ガンス Pons Punch; Squash PDL INDED #*** **** *** *** ** ** ** ** *					
ポリーブ Poliep Polyp PDL ■■□□□ ポルダー Pons Punch; Squash PDL ■■□□□ ポンス Pons Punch; Squash PDL ■■□□□ ポンズ Pons Punch; Squash PDL ■■□□□ #*********************************	ホップ	Нор	Hops	PDL	
# プラック					
ポルダー Polder Polder PDL ●□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□□□ #□□	ポリープ	Poliep	Polyp	PDL	
#ソス Pons Punch; Squash PDL					
ポンス Pons Punch; Squash PDL ***********************************	ポルダー	Polder	Polder	PDL	
ポンド Pond Pound PDL Pump PDL Pump PDL Ponpu ボンボン Bonbon Bonbon LFB (French bonbon) PDL Ponpu ボンボン Bonbon Bonbon PDL PDL Ponpu が ポンプ Pomp PDL PDL PDL Ponpu ボンボン Bonbon PDL	porudā				
ポンド Pond Pound PDL PDL PDL PDDL ポンプ Pomp Pump PDL PDL ポンポン Bonbon Bonbon LFB (French bonbon) PDL アグネンア Manna Manna PDL	ポンス	Pons	Punch; Squash	PDL	
pondo ポンプ ponpu ボンボン Bonbon Bonbon マナ の「マンナ mana/man'na マグネシア Magnesia Magnesia Magnesia Magnesium Magnesium PDL ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	ponsu				
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maguneshia マグネシウム mageneshiumu マスチック masuchikku マスト masuto マドロス madorosu マヨラナ mayorana マラリア or マラリヤ mararia/marariya マルス marusu マンガン mangan マンテル Magnesium Magnesium Magnesium Magnesium PDL ■■□□□ ■■□□□ Mastic gum PDL ■□□□□ ■■□□□ Mastic gum PDL ■□□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□ ■■□□□	mana/man'na				
Magnesium Magnesium PDL IIII Magnesium PDL Magnesium PDL Magnesium PDL Magnesium PDL Mastek Mastic gum PDL Mastek Mastek Mastek PDL Mastek Mastek Mastek PDL Mastek Mastek PDL Mastek Mastek PDL	マグネシア	Magnesia	Magnesia	PDL	
mageneshiumu マスチック masuchikku マスト masuto マドロス madorosu マヨラナ mayorana マラリア or マラリヤ mararia/marariya マルス marusu マンガン mangan マンテル Mastiek Mast gum PDL ■□□□□ ■□□□□ ■□□□□ Mastic gum PDL ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ □□□□ ■□□□□ □□□□ ■□□□□ □□□□ □□□□ □□□□ ■□□□□ ■□□□□ ■□□□□ □□□□ □□□ □□□ ■□□□□ ■□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□ ■□□□□	maguneshia				
Mastick Mastic gum PDL Imasuchikku PDL Imasuchikku PDL Imasuchikku PDL Imasuto PDL Imasuto PDL Imasuto PDL Imasuchikku PDL Imasu	マグネシウム	Magnesium	Magnesium	PDL	
masuchikku マスト masuto Wast Mast PDL Marion PDL Majoraan Majoraan PDL Maron PDL Maron Manganan PDL	mageneshiumu				
Mast Mast PDL Image	マスチック	Mastiek	Mastic gum	PDL	
masuto マドロス Matroos Sailor PDL madorosu マヨラナ Majoraan Marjoram PDL mayorana マラリア Malaria Malaria PDL or マラリヤ mararia/marariya マルス Mars (Planet) Mars PDL marusu マンガン Mangaan Manganese PDL mangan マンテル Mantel Cloak PDL ■■□□□	masuchikku				
PDL PD	マスト	Mast	Mast	PDL	
madorosu マヨラナ mayorana マラリア or マラリヤ mararia/marariya マルス marusu マンガン mangan マンテル Majoraan Marjoram PDL ■■□□□ Malaria PDL ■■□□□ Malaria PDL ■■□□□ Manganese PDL ■■□□□ Manganese PDL ■■□□□ ■■□□□ PDL ■■□□□ Manganese PDL ■■□□□ Manganese	masuto				
PDL PD	マドロス	Matroos	Sailor	PDL	
mayorana マラリア or マラリヤ mararia/marariya マルス marusu マンガン mangan マンテル Malaria Malaria PDL ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	madorosu				
マラリア Malaria Malaria PDL	マヨラナ	Majoraan	Marjoram	PDL	
or マラリヤ mararia/marariya マルス marusu マンガン mangan マンテル Mantel Cloak Mantana PDL ■■□□□ PDL ■■□□□ ■■□□□	mayorana				
mararia/marariya マルス marusu マンガン mangan アンテル Mangaan Manganese PDL ■■□□□ ■■□□□ Manganese PDL ■■□□□ ■■□□□	マラリア	Malaria	Malaria	PDL	
mararia/marariya マルス marusu マンガン mangan アンテル Mangaan Manganese PDL ■■□□□ Tolak PDL ■■□□□ Manganese PDL ■■□□□ Tolak PDL ■■□□□ Tolak PDL ■■□□□	orマラリヤ				
マルス marusu マンガン mangan マンテル Mars (Planet) Mars PDL PDL PDL PDL PDL PDL PDL PD					
marusu マンガン Mangaan Manganese PDL ■■□□ mangan マンテル Mantel Cloak PDL ■■□□□	·	Mars	(Planet) Mars	PDL	
マンガン Mangaan Manganese PDL mangan マンテル Mantel Cloak PDL mondan	marusu				
マンテル Mantel Cloak PDL ■■□□□	マンガン	Mangaan	Manganese	PDL	
マンテル Mantel Cloak PDL ■■□□□	mangan				
manteru		Mantel	Cloak	PDL	
	manteru				

ミーアキャット	Meerkat	Meerkat	English/Dutch	
mīakyatto				
ムスク	Muskus	Musk	musuku derived from	
musuku			old Dutch 'musc'	
メード	Meid	Maid	SS ('meid' usually	
mēdo			means 'girl')	
メートル	Meter	Metre	LFB (French mètre)	
mētoru				
メス	Mes	Scalpel	SS ('mes' means	
mesu			'knife')	
メランコリア	Melancholie	Melancholy	PDL	
merankoria				
メリッサ	Melisse	Melissa	LFB (Latin melissa)	
merissa				
モートル	Motor	Motor	PDL	
mōtoru				
モリブデン	Molybdeen	Molybdenum	PDL	
moribuden				
モルヒネ	Morfine	Morphine	PDL	
moruhine				
モルモット	Marmot	Guinea pig	PDL	
morumotto				
ヤーパン	Japan	Japan (arch.)	PDL	
yāpan				
ヤール (ド)	Yard	Yard	PDL	
yāru(do)				
汽重溯	Jan Joosten van	Yaesu (District	Japanification of 'Jan Joosten', who lived in	
yaesu	Lodensteyn	in Tokyo)	Tokyo in the 17 th	
3. ~ 0	Jalappe	Jalap	century PDL	
ヤラッパ	запарре	запар		
yarappa ヨーロッパ	Europa	Europe	Dutch/Portuguese	
, and the second	Бигори	Durope		
yōroppa	Jodium	Iodine	PDL	
ヨジウム	Journal	Todnic		
yojiumu ライデン 瓶	Leidse fles	Leyden jar	HL	
	Lordo Hoo	20 y don jui		
raidenbin	Racket	Racket	PDL	
ラケット	Racket	Racket		
raketto	Latijn	Latin	Dutch/Portuguese	
ラテン	- Lucijii	Dutin		
raten				

ランセット	Lancet	Lancet	PDL	
ransetto				
ランドセル	Ransel	Randoseru (type	SS (Dutch 'ran(d)sel'	
randoseru		of children's backpack)	originally was a type of military knapsack)	
ランプ	Lamp	Lamp	PDL	
ranpu				
リチウム	Lithium	Lithium	PDL	
richiumu				
リモナーデ	Limonade	Lemonade	PDL	
rimonāde				
リンパ	Lympha	Lymph	PDL	
rinpa				
ルーデサック	Roedezak	Condom (arch.)	PDL	
rūdesakku				
レッテル	Letter	Label	PDL	
retteru				
レトルト	Retort	Retort	PDL	
retoruto				
レンズ	Lens	Lens	PDL	
renzu				
ロストル	Rooster	Fire grade	PDL	
rosutoru				

Table 2: Loan translations

For the loan translations, a literal morpheme-by-morpheme translation into English of both the Japanese and the Dutch words have been added under the Japanese and Dutch entries respectively in order to clarify the way in which each Dutch term was adapted into Japanese. Because all words in the list are loan translations, the assignment of loanwords subgroups was omitted, which resulted in the fourth column only containing notes.

Japanese	Dutch	English	Notes	Relevancy
(Literal translation)	(Literal translation)			
アイスランド 蓍	IJslandse mos	Icelandic moss		
	('Icelandic mos')			
aisurandogoke				
('Iceland mos')				
· 查验 · · · · · · · · · · · · · · · · · ·	Zinkbloem	Zinc powder		
型	('zinc flower')	•		
aenka				

('zinc flower')			
胃液	Maagsap	Gastric juice	
ieki	('stomach juice')		
('stomach juice')	7 11.1	0.11. 1	
硫黄華	Zwavelbloem ('sulphur flower')	Sublimed sulphur	
<i>iōka</i> ('sulphur flower')			
菱黄病	Bleekzucht	Greensickness	
iōbyō	('pale sickness')		
('withered yellow sickness')	Maaalaaaaa	Castualais	
胃痛	Maagkramp ('stomach cramp')	Gastralgia	
itsū ('stomach pain')			
)	Negatieve pool	Cathode	
inkyoku ('negative pole')	('negative pole')		
消力	Aantrekkingskracht ('drawing force')	Attraction; Pull	
inryoku ('attraction force')			
塩酸	Zoutzuur ('salt acid')	Hydrochloric acid	
ensan ('salt acid')			
えい	Middelpuntvliedende	Centrifugal force	
enshinryoku ('distant centre force')	kracht ('centre-fleeing force')		
wyber of the 壊血病	Scheurbuik	Scurvy	
kaiketsubyō	('break stomach')		
('break blood sickness')	Zeemacht	Novy	
海軍	('sea power')	Navy	••••
kaigun ('sea armed force')			
海葱	Zeeajuin	Sea onion; White	
kaisō	('sea onion')	squill	
('sea onion')	Slakkenhuis	Cochlea	
** [*]	('snail house')		
kagyūkaku ('snail shell')			
角膜	Hoornvlies ('horn membrane')	Cornea	
kakumaku	(nom memorano)		
('horn membrane') 加速	Versnelling	Acceleration	
加速 kasoku	('making quicker')		
('addition speed')			

* 音	Zoete kwik	Calomel	■0000
kankō	('s weet mercury')		
('sweet mercury') がなし 対	Lidwoord	Article	
心 詞 <i>kanshi</i>	('joint word')		
('crown word')			
環指	Ringvinger ('ring finger')	Ring finger	
kanshi ('ring finger')			
red this linger)	Traagheid	Inertia	
kansei	('slowness')		
('accustom nature')	Oplosbaar	Soluble	
可溶	('dissolve-able')	Soluble	
kayō ('can-dissolve')			
機械学	Werktuigkunde ('instrument study')	Mechanics	
kikaigaku	(instrument study)		
('instrument study') 養酸	Mierenzuur	Formic acid	
gisan	('ant acid')		
('ant acid')	0.1" "		
為膜	Schijnvlies ('apparent membrane')	Pseudo membrane	
gimaku ('false membrane')			
en j L kethi 嗅神経	Reukzenuw	Olfactory nerve	■□□□□
kyūshinkei	('smell nerve')		
('smell nerve') まなうしんりょく 求心力	Middelpuntzoekende	Centripetal force	
	kracht	Contriporar force	
kyūshinryoku ('seek centre force')	('centre-seeking force')		
************************************	Watervrees ('water fear')	Hydrophobia	
kyōsuibyō	(water rour)		
('fear water illness') 強旗	Hardevlies	Sclera	
大 kyōmaku	('hard membrane')		
('hard membrane')	Donotrille -	Dlaural acrite:	
胸膜	Borstvlies ('breast membrane')	Pleural cavity	
kyōmaku ('breast membrane')			
形容詞	Bijvoeglijk naamwoord	Adjective	
keiyōshi	('added name word)		
('form appearance word') 「「「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「「」 「 「	Bloedbolletje	Blood cell	
	('blood ball')		
kekkyū ('blood ball')			

結膜	Bindvlies	Conjunctival	
ketsumaku	('bind membrane')		
('bind membrane')		~	
大歯	Hondstand ('dog tooth')	Canine tooth	
kenshi	(dog tooth)		
('dog tooth') ぜんま 元素	Grondstof	Chemical	
	('fundament matter')	element	
genso ('origin element')			
顕微鏡	Mikroskoop ('micro scope')	Microscope	
kenbikyō	(micro scope)		
('appear minuteness glass')	Regenboogvlies	Iris	
虹彩	('rainbow membrane')	IIIS	
kōsai ('rainbow membrane')			
tamoow memorane) 恒星日	Sterredag	Sidereal day	■□□□□
kōseijitsu	('star day')		
('fixed starday')	Charte also of 1	I amount	
喉顫	Strottenhoofd ('throat head')	Larynx	
kōtō ('throat head')			
後脳	Achterhersenen	Hindbrain	
kōnō ('behind brain')	('behind brain')		
呼吸器	Ademhalingswerktuigen	Respatory	
kokyūki	('breathing tools')	organs	
('breathing tool')	Trommelzucht	Flatulence; Bloat	
鼓脹	('drum swelling')	riatulence, bloat	
kochō ('drum swell')			
鼓膜	Trommelvlies ('drum membrane')	Eardrum	
komaku	(drum memorane)		
('drum membrane') 重作重要	Azijnzuur	Acetic acid	
肾下肾炎 sakusan	('vinegar acid')		
('vinegar acid')			
鎖骨	Sleutelbeen ('key bone')	Clavicle	
sakotsu	(Acj cone)		
('key bone')	Zetpil	Suppository	
<u>***</u> 座薬	('place pill')	Suppository	
zayaku ('seat medicine')			
酸素	Zuurstof ('sour matter')	Oxygen	
sanso			
('sour element')			

兰华規管	Driehalfrondebuizen ('three semi-circular tubes')	Semi-circular		
sanhankikan ('three half standard tube')	(three senii-circular tubes)	canals		
耳介	Oorschulp ('ear shell')	Auricle		
jikai ('ear shell')	(car shell)			
· dan shen / · · · · · · · · · · · · · · · · · ·	Gezichtshoek ('vision angle')	Visual angle		
shikaku ('vision angle')	(vision angle)			
視覚	Gezicht ('vision')	Sense of sight		
shikaku ('see remember')	(VISIOII)			
色素	Kleurstof ('colour matter')	Pigment		
shikiso ('colour element')	(colour matter)			
節骨	Zeefbeen ('sieve bone')	Ethmoid bone		
shikotsu ('sieve bone')	(seve bone)			
· 示指	Wijsvinger ('point out finger')	Index finger		
jishi ('point out finger')	(point out imger)			
視神経	Gezichtszenuw ('vision nerve')	Optic nerve		
shishinkei ('vision nerve')	(vision herve)			
実働	Ware beweging ('real movement')	Actual work	SS (has come to mean actual work,	
jitsudō ('real movement')	(tour november)		i.e. working hours)	
自動詞	(Zelf-)bedrijvend werkwoord	Intransitive verb		■□□□□
jidōshi ('self-move word')	('self-moving work-word')			
党會"	Elleboogsbeen ('elbow bone')	Ulna		
shakkotsu ('Japanese foot bone')	(chow bone)			
複數	Zuringzuur ('oxalic acid')	Oxalic acid		
shūsan ('Oxalate acid')				
歌帶	Dierenriem ('animal belt')	Zodiac		
jūtai ('animal belt')				
重土	Zwaaraarde ('heavy earth')	Barium oxide		
judo ('heavy earth')				
十二指腸	Twaalfvingerige darm ('twelve-fingered gut')	Duodenum		
jūnichichō ('twelve finger gut')	(mene imgeled gat)			

(distillation water)	ことうりゅうすい 蒸留水	Overgehaald water	Distilled water	
全事子 Awartekracht (heavy force*)		('distilled water')		
furyoku (heavy force) Caadbeentjes (fittle seed bone') Sasamoid bone	('distillation water')			
Disposit	重力		Gravity	
経子音		(neavy force)		
(Sittle seed bone') 語名		Zaadheenties	Sasamoid hone	
Seed child bone'			Susumora bone	
Bid Wijnsteen (was stone') Cream of tartar Shuseki (vake stone') Wijnsteenzuur (wine stone acid') Tartaric acid Image: Shusekisan (vake stone acid') Wijnsteenzuur (mitrate acid') Witric acid Image: Shusekisan (vake stone acid') Witric acid Image: Shusekisan (vake shusekisasa (vake shuseki				
Shuseki (sake stone*)			Cream of tartar	
Minke Magden vies Magde		('wme stone')		
Salpeterzuur ('nitrate acid') Salpeterzuur ('glass body') Salpeterzuur ('	('sake stone')	777** ·	m · · · · · · ·	
Salpeterzuur ('nitrate acid') Salpeterzuur ('glass body') Salpeterzuu	酒石酸		Tartaric acid	
解析 Salpeterzuur (intrate acid) shōsan (intrate acid) 精子体 Glaslichaam (glass body') 小脳 (glass body') 小脳 (small brain') 校 Volksplanting (people-planting') (phant people') 助詞 (help work-word') が友質 (virgin membrane') 林経節 Zenuwknoop (inerve knot') 水素 Waterstof (water element') 水素 Waterstof (water element') 水素 (water lement') 水素 (water lement') 水溶液 (water lement') 秋apple (water like fluid') 数詞 Telwoord (count word') Numeral				
### Shōsan ('nitrate acid') high	('Sake stone acid')	Salpeterzuur	Nitric acid	
Chitrate acid')				
Shōshitai (glass body')				
Shōshitai (glass body')	硝子体		Vitreous humour	
Kleine hersenen ('small brains')		('glass body')		
Shōnō ('small brain') 植食 Volksplanting ('people-planting') Shokumin ('plant people') Hulpwerkwoord ('help work-word') Dipin joshi ('help word') Maagdenvlies ('virgin membrane') Maagdenvlies ('virgin membrane') Aparticle Telwoord ('water element') Waterachtig vocht ('water-like fluid') Telwoord ('count word') Numeral	('glass body')	771	G 1 11	
Shōnō (Small Brain')	小腦		Cerebellum	
Volksplanting		(onan orang)		
('people-planting') shokumin ('plant people') Hulpwerkwoord ('help work-word') Particle Maagdenvlies ('virgin membrane') Wipin membrane') Water Stof ('water element') Water-like fluid') Waterstof ('water-like fluid') Numeral Telwoord ('count word')		Volksplanting	Colonisation	
Cyplant people')				
Hulpwerkword ('help work-word')				
Joshi (help word)	助請			
Maagdenvlies		('help work-word')	Particle	
Shojomaku ('virgin membrane')	('help word')	36 1 1		
Shojomaku ('virgin membrane')	処女膜		Hymen	
Zenuwknoop ('nerve knot')				
Shinkeisetsu ('nerve knot') 水素 Suiso ('water element') Waterachtig vocht ('water-like fluid') Waterachtig vocht ('water-like fluid') Telwoord ('count word') Numeral	(Virgin memorane)	Zenuwknoop	Nerve ganglion	
('nerve knot') ***********************************				
suiso ('water element') **N答液 **Naise **Na	('nerve knot')			
suiso ('water element') **N答液 **Naise **Na	水素		Hydrogen	
('water element') ** ** ** ** ** ** ** ** ** ** ** ** *		('water matter')		
Suiyōeki ('water-like fluid') Telwoord ('count word') Suishi	('water element')	XX7.41	A	
suiyōeki ('water-like fluid') 数詞 Telwoord sūshi Numeral	水溶液			
数詞 Telwoord ('count word') Numeral				
sūshi (count word)		Telwoord	Numeral	

成分	Bestanddeel	Component	
seibun	('compromise part')		
('become part')	Tongbeen	Hyoid bone	
岩骨	('tongue bone')	Tryold bolle	
zekkotsu ('tongue bone')			
接続詞	Voegwoord ('link word')	Conjunction	
setsuzokushi ('link word')	(mix word)		
前置 詞	Voorzetsel ('before placement')	Preposition	
zenchishi ('before placement word')	(before placement)		
蠕動	Wormgewijze beweging ('worm-like movement')	Vermiculation	
zendō ('worm-crawling movement')			
前脳	Voorhersenen ('before brain')	Forebrain	
zen'nō ('before brain')			
想像力	Verbeeldingskracht ('imagination power')	Imagination	
sōzōryoku ('imagination power')			
大気圧	Luchtdruk ('air pressure')	Atmospheric pressure	
taikiatsu ('air pressure')	(, , , , , ,	pressure	
代名詞	Voornaamwoord ('before name word')	Pronoun	
daimeishi ('substitute noun')			
炭酸	Koolzuur ('coal acid')	Carbonic acid	
tansan ('coal acid')	(com acid)		
炭素	Koolstof ('coal matter')	Carbon	
tanso ('coal element')	(
"弹力"	Uitzettingsvermogen	Elasticity	
danryoku ('stretch power')	('expansion power')		
乾骨	Schaamtebeen ('shame bone')	Pubis bone	
chikotsu ('shame bone')	(shane bone)		
\$20 *	Stikstof ('choke element')	Nitrogen	
chisso ('obstruct element')	(chore ciciiciit)		
聴神経	Gehoorzenuw ('hearing nerve')	Auditory nerve	
chōshinkei ('hear nerve')	(nearing nerve)		

張力	Veerkracht	Tensile Force	
chōryoku	('spring power')		
('snap power')	Hamer	Malleus	
tsuchikotsu	('hammer')		
('hammer bone')	Zetmeel	Starch	
澱粉	('set flour')	Starch	
denpun ('sediment flour')			
橈骨	Speekbeen ('oar bone')	Radius bone	
tōkotsu ('oar bone')			
動詞	Werkwoord ('work word')	Verb	
dōshi	(work word)		
('movement word') 動脈	Slagader	Artery	
dōmyaku	('beat vein')		
('move vein')	Braakwortel	Ipecac	
	('vomit root')	ipecac	
tokon ('vomit root')			
軟骨	Kraakbeen ('crack bone')	Cartilage	
nankotsu ('flexible bone')			
二頭筋	Tweehoofdige spier ('two-headed muscle')	Biceps	
nitōkin	(two-neaded muscle)		
('two head muscle') 乳剤	Melkdrank	Emulsion	
nyūzai	('milk drink')		
('milk medicine')	Melkzuur	Lactic acid	
Emplish 乳酸	('milk acid')	Euclie deld	
nyūsan ('milk acid')	26.11		
乳糖	Melksuiker ('milk sugar')	Lactose	
nyūtō ('milk sugar')			
尿酸	Piszuur ('urine acid')	Uric acid	
nyōsan ('urine acid')	(unite ucid)		
粘液腫	Slijmgezwel	Myxoma	
nen'ekishu	('slime swelling')		
('sticky fluid swelling') 粘膜	Slijmvlies	Mucous	
和 <i>nenmaku</i>	('s lime membrane')	membrane	
('sticky membrane')			

2.3.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Hersenvlies	Meninges		
nōmaku ('brain membrane')	('brain membrane')			
ばりき 馬力	Paardenkracht	Horsepower		
bariki	('horse power')			
('horse power')	Neusvleugel	Nostril		
⁵⁵ 鼻翼	('nose wing')	NOSUII		
biyoku ('nose wing')				
副詞	Bijwoord	Adverb		
fukushi	('with-word')			
('aiding word')	Kookpunt	Boiling point		
沸点	('boil point')	Bonnig point		
futten ('boil point')				
分子	Molecuul ('small mass')	Molecule	LFB (French molécule)	
bunshi ('part child')	(SHAII HASS)		,	
冷桃腺	Amandelen	Tonsils		
hentōsen	('almonds')			
('almond gland')				
硼素	Boraxstof ('borax matter')	Boron		
hōso ('borax element')				
与 选	Moedervlek ('mother spot')	Birthmark		
bohan ('mother spot')	(mother spot)			
名詞	Naamwoord	Noun		
meishi	('name word')			
('name word')	Blindedarm	Appendix;		
百勝 <i>mōchō</i>	('blind intestine')	Caecum		
('blind intestine')				
網膜	Netvlies ('net membrane')	Retina		
mōmaku ('net membrane')				
的 的 的 就	Poortader	Portal vein		
monmyaku ('gate vein')	('gate vein')			
椰子油	Palmolie	Coconut oil	SS	
yashiyu	('palm oil')			
('palm oil') 養養養	Nachtblind	Nyctalopia		
投目症 <i>yamōshō</i>	('night blind')			
('night blind sickness')				

誘因	Aanleidende oorzaak ('entice cause')	Incentive	
yūin ('entice cause')			
溶解	Oplossen ('dissolve'/'make loose')	Dissolution	
yōkai ('dissolve untie')	(dissolve / make loose)		
湯極	Positieve pool ('positive pole')	Anode	
yōkyoku ('positive pole')	(Faster Fast)		
電銀	Donderzilver ('thunder silver')	Fulminating silver	
raigin ('thunder silver')		Silver	
硫酸	Zwavelzuur ('sulphur acid')	Sulphuric acid	
ryūsan ('sulphur acid')			
流動体	Vloeistof ('flow matter')	Liquid	
ryūdōtai ('flow move body')			
烽 酸	Fosforzuur ('phosphoracid')	Phosphoric acid	
rinsan ('phosphoracid')	(phosphoraela)		
涙管	Traanbuis	Lachrymal duct	
ruikan ('tear tube')	(332 400)		
減 腺	Traanklier ('tear gland')	Lachrymal gland	
ruisen ('tear gland')	, b/		
· · · · · · · · · · · · · · · · · · ·	Ribbevlies ('rib membrane')	Pleura	
rokumaku ('rib membrane')	(no nemorano)		

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Appendices

Appendix 1 - Raw Data of the Dictionary Cross-Analysis and Corpus Analysis

The raw data for both the dictionary cross-analysis and the corpus analysis are combined in one Excel file. The way in which it was conducted as well as the meanings of the symbols used in it have been elaborated in section 3.3.

The Japanese words have been colour graded in accordance with the dictionary cross-analysis' findings on relevance. The corpus analysis' results also have been colour graded. Entries whose Dutch origin the *Nihon Kokugo Daijiten* or *Kōjien* confirms have been marked as green in the dictionaries' respective rows.

https://ldrv.ms/x/s!Al6pEyoMjzKjgmX2ETBov3_nJBRJ?e=tvSNg5

Appendix 2 - Questionnaire

As was described in chapter 3.5., the questionnaire was conducted in Google Forms. Using the application's 'Print'-function, the following PDF file was created. Please note that the questions' order was randomised when the participants answered them. The English parts were added by the 'Print'-function.

私はルンド大学で日本学を勉強しているWillem Koen(ウィレム・クーン)と申します。 今、学士論文を書いています。日本語におけるオランダ語からの借用語彙の影響について 調べるためにアンケートを作成しました。

このアンケートでは、これまでの私の研究の結果と比較するために作られました。次の文はオランダ語から日本語になった外来語が含まれています。文にある星印が付いている語彙の意味が分かるかどうかを尋ねています。

このアンケートで得られたデータは匿名で記録され、学内と学士論文にのみ使用されます。個人が特定されたり、他の目的で使用されたりすることはありません。

アンケートにかかる時間は2分ぐらいです。 ご協力、よろしくお願いします。

ご協力、よろしくお願いします。

	* Re	equired	
ľ		基本の情報	以下の情報を書き込んでください
	1.	職業(大学生、会社員など)	
	2.	性別*	
		Mark only one oval.	
		女性	
		言いたくない	

3.	年龄*
	Mark only one oval.
	十代二十代三十代回十代五十代六十代七十代以上言いたくない
4.	出身*
	Mark only one oval.
	沖縄
	九州
	四国
	中国
	製西
	中部
	関東
	東北
	北海道
	日本ではない
	言いたくない
5.	オランダ語の知識がありますか*
	Mark only one oval.
	(はい
	いいえ

https://docs.google.com/forms/d/1 is xDNvTt3PO0ztZRQbmaem6k5QhtWmk10 lpJh9FjaDw/editalines for the property of the property

質問

次の文を読んで、星印が付いている(*このように*)言葉が分かるかどうか答えて下さい。終わったら、次のページで全部の言葉の意味を見ましょう。

歴史的な*アルケミー*の意識に興味がある。*
Mark only one oval.
分かる自信がない
二十世紀の始めに日本から*エゲレス*まで旅行するのは一ヶ月以上かかった。*Mark only one oval.分かる自信がない
子供が*オレーフ*が嫌いな傾向があるらしい。 * Mark only one oval. 分かる 自信がない
*ストロープワッフル*をオランダ以外でも買える? * <i>Mark only one oval.</i>

10.	通りは*フラフ*で飾られていた。*
	Mark only one oval.
	分かる自信がない
11.	この*ボートル*はすっぱい味がする。*
	Mark only one oval.
	○ 分かる
	自信がない
12.	彼は骨董品屋でこの古い*オルゴール*を買った。*
	Mark only one oval.
	分かる自信がない
	His Mac Vi
13.	故障しているので、*カラン*を使えなかった。 *
	Mark only one oval.
	○分かる
	自信がない
14.	*ヘット*を減らすほうがいい? *
	Mark only one oval.
	○ 分かる
	自信がない

https://docs.google.com/forms/d/1 is xDNvTt3PO0ztZRQbmaem6k5QhtWmk10 lpJh9FjaDw/editalines for the property of the property

15.	医者は*メス*を持っています。*			
	Mark only one oval.			
	分かる自信がない			
16.	*ケイトル*は爆発する可能性があると聞いた。*			
Mark only one oval.				
	○分かる			
	自信がない			
17.	小学校の時からいつも*ポットロード*で書いていた。*			
	Mark only one oval.			
	○分かる			
	自信がない			
18.	これはすごく*ゴロート*な建物だね! *			
	Mark only one oval.			
	○分かる			
	自信がない			
19.	*セープ*が目にしみました <i>*</i>			
	Mark only one oval.			
	○分かる			
	自信がない			

https://docs.google.com/forms/d/1 is xDNvTt3PO0ztZRQbmaem6k5QhtWmk10 lpJh9FjaDw/editalines for the property of the property

20.	彼女は*コップ*にミルクを注いだ*			
	Mark only one oval. 分かる			
	自信がない			
	解答	セープ フラトル オルゴール カラップト ススイトトロト ダイッロード ゴロ 何か常 すべて まを発見があ すべると	ましょう。 - 錬金術(金属を人工的手段による貴金属に転換する術のこと) - 英国 - オリーブ - シロップが挟まれたワッフル - 石鹸 - 旗 - バター - 自鳴琴(機械仕掛けにより自動的に楽曲を演奏する楽器) - 蛇口 - カップ - 牛脂 - 外科手術に用いられる刃物 - ボイラー - 鉛筆 - 大きい りましたか。私の他の研究によると、現代の日本人はこれらの語彙をは難しいという結果があります。	
21.	21. 答えを見て、解答中には「分かる」を選びましたが、誤解していたものがあれば教えてください。また、逆に、「自信がない」と答えたが、答えを見たら分かるものがあれば教えてください。			
		ロ、ありがと ぎいました。	これでアンケートは終わりです。 ご協力、ありがとうございました。 アンケートに関する質問がありましたら、 Willemkoen@protonmail.com までお問い合わせください。	

Appendix 3 - Raw Data of the Questionnaire Results

The raw data of the questionnaire results were compiled in a similar way to Appendix 1, i.e. in an Excel file. They way in which it was conducted as well as the meanings of the symbols used in it have been elaborated in chapter 3.5. Please note that several categories have been colour graded.

 $\underline{https://1drv.ms/x/s!Al6pEyoMjzKjgmb6-GuTu0dke_El?e=zhEgNf}$