

## Abstracts from the Globalex Workshop on Lexicography and Neologism 2019

The Globalex Workshop on Lexicography and Neologism (GWLN 2019) was held in conjunction with DSNA22, the 22nd biennial meeting of the Dictionary Society of North America, at Bloomington, Indiana, on May 8, 2019. It brought together 13 papers on 12 languages from Africa, Asia, Europe and North America (two on English), highlighting issues related to the detection of neologisms – including new words, new meanings of existing words, and new multiword units – and their representation in lexicography and dictionaries, such as:

- How to find neologisms (corpus analysis and editorial means of identification; evaluation of data, e.g. blogs and chats)
- How to interoperate lexicographic datasets with online resources and incorporate neologisms into the digital dictionary (the media, formatting, labeling, etc.)
- How to deal with grammatical/orthographic/pronunciation variation (description vs. prescription)
- How to explain meaning with/without encyclopedic information, and how to use illustrations and audio-visual media
- How differently, if at all, should neologisms be treated in different dictionary types (e.g. in historical comprehensive ones as opposed to those focusing on current usage; in monolingual vs. bilingual dictionaries; in special domain dictionaries)
- How to deal with neologisms that are no longer *new* and those no longer used
- How can dictionary users help with finding and informing about neologisms

The proceedings of GWLN 2019 are undergoing peer-review for publication in 2020 as a special issue of *Dictionaries: Journal of the Dictionary Society of North America*, guest edited by the workshop organizers Annette Klosa-Kückelhaus and Ilan Kernerman. The presentation slides are available from the GWLN 2019 website.

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### Linguistics terminology and neologisms in Swahili: Rules vs. practice

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In this paper we discuss the use of Swahili terminology in the field of linguistics. In particular, we are interested in finding out whether the rules laid out by scholars in the scientific literature for the creation of terminological neologisms in Swahili correspond with actual practice. In order to do this, three steps are taken. In Step 1 we undertake the semi-automatic extraction of linguistics terminology, by comparing occurrence frequencies in a special-purpose corpus consisting of ten Swahili language/linguistics textbooks, with their corresponding frequencies in a 22-million-token general-language reference corpus. In Step 2 we study the source languages and actual word formation processes of the terms and neologisms with the highest keyness values obtained during the previous step. This discussion is divided into several sections, one section per source language. In Step 3, the terms and neologisms that have been found are compared with their treatment (or absence thereof) in two existing reference works, a general dictionary and a linguistics terminology list. These three steps are preceded by brief introductions to (i) the Swahili language; (ii) its dictionaries and terminology lists; (iii) its metalexicographical, terminological and neologism studies; and (iv) our use of the term 'neologism'. The three steps are followed by a discussion of our findings and a conclusion.

**Keywords:** Bantu, Swahili, corpora, semi-automatic term extraction, linguistics terminology, terminological neologisms, terminology, lexicography, digital dictionaries

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## Beyond frequency: On the dictionaryisation of new words in Spanish

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The most recent literature on neology has discussed the criteria that must be taken into account in order to include new words in dictionaries (Metcalf 2002, Barnhart 1985, Cook 2010, Ishikawa 2006, O'Donovan and O'Neill 2008, Freixa 2016, Sanmartín 2016, among many others). Although there are other factors that must be considered, such as morphologic features or semantic transparency (Adelstein and Freixa 2013, Bernal et al. 2018), authors broadly agree that frequency plays a central role, given that high frequency in a corpus may be taken as evidence of the institutionalization of a lexical unit. However, it has also been pointed out that frequency is a complex criterion in itself, and, therefore, aspects such as stabilization in use (Cook 2010) or a possible longitudinal change in frequency (Metcalf 2002, Ishikawa 2006) must also be taken into account when measuring frequency in corpora.

In this presentation, we approach lexical frequency as a criterion to evaluate whether neologisms must be included in Spanish dictionaries from a new point of view. Specifically, we compare data concerning change in frequency of neologisms through time with the speakers' perception about their newness, known as 'neological feeling' in the specialized literature (Gardin et al. 1974, Salayrolles 2003). Data about speakers' perception are obtained from online questionnaires carried out within the framework of the Neómetro project<sup>1</sup> (Bernal et al.

1 'NEÓMETRO: La medición de la neologidad y la diccionariabilidad de los neologismos del español' project - supported by the Ministerio de Economía y Competitividad (ref. FFI2016- 79129-P), and

in press). A set of questionnaires was launched in which 100 subjects evaluated their perception of about 130 neologisms in Spanish according to four different criteria (correct formation, frequency, novelty and necessity of inclusion in dictionaries). On the other hand, frequency data are taken from an extensive corpus of texts from the press, FACTIVA, which provides histograms of frequency through time.

For this study, we analyze 40 neologisms that were perceived as the most and the least frequent in the questionnaires. We analyze their frequency curve through time in FACTIVA to find correlations between stabilization in time and speakers' perception about their institutionalization. The data allow us to improve the predictive capacity of frequency as a measure to decide which neologisms must be included in dictionaries, as it introduces factors (formal, semantic, or of use) that favor or hinder institutionalization in the equation.

**Keywords:** Spanish, neologism, frequency, histogram, institutionalization

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## New words for the Duden

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Every three or four years there is a new printed edition of the *Rechtschreibduden* [Duden's Orthographic Dictionary], the most well-known dictionary of the German language. The past five or six editions boasted approximately 5,000 newly added lemmata each (currently available: the 27<sup>th</sup> edition with 145,000 lemmata), and since 1996, the year of the "Rechtschreibreform" [national reform of orthography], public response to each new edition has focused primarily on these new additions. When a word is included in the *Duden* it is considered to have become officialized. There are people who wonder whether words not included in the *Rechtschreibduden* exist, although even its online version offers an additional 100,000 lemmata.

So, what are the criteria applied by the *Duden*'s editorial staff when deciding which new words to include? Which sources are used? What is the editors' position in the ongoing discussion about the – arguably excessive – use of Anglicisms in the German language and the addition of terms and grammatical adaptations related to or dictated by political correctness? How about the ratio of new entries in the printed edition of *Rechtschreibduden* as opposed to its online version, and what are the procedures for inclusion? On what grounds, finally, are words deleted from the dictionary?

In this paper I refer to these issues and, with regard to future editions of *Rechtschreibduden*, I also talk about which new sources the *Duden* will have to consider and

founded by the Agencia Estatal de Investigación (AEI) and the Fondo Europeo de Desarrollo Regional (FEDER) - is led by Judit Freixa and Sergi Torner.

work with to remain the predominant dictionary of the German (standard) language.

**Keywords:** German, orthographic dictionary, Anglicisms, print vs. online dictionary

### New Estonian words and senses: Detection and description

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The web era has brought about the urgent need for the automatic monitoring of language, including the extraction of new words and senses. In order to monitor language, especially lexical changes, the Institute of the Estonian Language, in cooperation with Lexical Computing Ltd., crawls the web every two years. Corpora are used through the corpus query system Sketch Engine (Kilgarriff et al. 2004)<sup>2</sup> and CQS KORP<sup>3</sup>. The most recent corpus is the Estonian Reference Corpus 2017 (1.1 billion words); the next corpus will be crawled in 2019. We also implement crowdsourcing techniques for neologism registration by offering our users the opportunity to propose new words or senses. They can do this by using the feedback forms on our dictionary portals Sõnaveeb ('Wordweb')<sup>4</sup> and e-keelenõu ('e-Language advice')<sup>5</sup>.

2 <https://sketchengine.eu/> (accessed March 30, 2019)

3 <https://korp.keeleressursid.ee/> (accessed March 30, 2019)

4 <https://sonaveeb.ee> (accessed March 30, 2019)

5 <http://keeleabi.eki.ee/> (accessed March 30, 2019)

In this paper, we present the results of an experimental study on neologism detection on the basis of text collection, which was compiled at the Institute from 2016 to 2018. We describe the method for neologism detection and evaluate the results. This is the first study for Estonian aimed at the development of a tool to supply lexicographers with neologism candidates for inclusion in a dictionary.

In addition, we discuss the practice of providing both prescriptive and descriptive information about new words.

The prescriptive data concern mostly orthography and inflection and should point out what belongs to standard Estonian and what does not. However, it is not a trivial task dealing with neologisms. Within the unified single database Ekilex<sup>6</sup>, we will present both descriptive and prescriptive data.

**Keywords:** neologisms, corpus lexicography, dictionary portal, Estonian

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### A system for evaluating multiple data inputs to prioritize neologisms for inclusion in dictionaries

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With today's massive web-based corpus resources, the key challenge facing lexicographers of new words in languages with a major digital presence is no longer *identification* of neologisms, but rather *prioritization* for inclusion in the dictionary. There are many possible data points that can be leveraged to prioritize the most editorially significant from among tens of thousands of candidates, including frequency in corpora, evidence of reader interest via web searches, prior registers of the word's existence, and salience of the item in particular regions, registers, or domains of editorial interest. The most effective way to use these data inputs is to take a holistic approach, considering multiple factors simultaneously. This paper will discuss the use of a

6 <https://ekilex.eki.ee> (accessed March 30, 2019)

new system, Oxford's New Words Prioritization Engine (NWPE), developed by Oxford Dictionaries to facilitate prioritization of large sets of candidate words by combining multiple sources of data in a single interface for analysis and by capturing human judgments about particular words so that they can be leveraged to improve future results.

**Keywords:** corpora, neologisms, prioritization

### Using the Hypothes.is web annotation tool for neologism collection

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Dictionary citation collection programs (sometimes called 'reading programs') involving both dedicated amateurs and paid professionals are not new, but have often required either cumbersome marking of print materials or creation of paper slips or access to private computer systems specific to individual projects. However, given the development and adoption of open standards for web annotation, citation collection by readers in and outside of dictionary programs can now be done easily without expensive proprietary tools or resorting to paper slips.

In this paper, we give an overview of Wordnik's reading program (currently in beta), which uses the free and open-source Hypothes.is web annotation tool to select, tag, and share citations from the open web directly for use on Wordnik.com. Using the Hypothes.is API, it is possible to import user-generated citations and their accompanying metadata directly into editorial workflows, including importing into KWIC corpora or other databases.

Since Wordnik is a radically inclusive dictionary (all words are eligible for inclusion), we discuss how this approach influences readers' marking of terms, and whether terms selected by readers are more likely to be typical neologisms (newly-coined words) or words overlooked by traditional dictionaries (e.g. jargon, slang, nonce, or other low-frequency words).

**Keywords:** dictionary users, web annotation, neologisms, hypothes.is, free-range definition

### The Korean Neologism Investigation Project: Current status and key issues

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This paper reports on the Korean Neologism Investigation Project and discusses a number of unresolved issues related to neologism research. Since 1994, when the Korean government initiated the project, the use of the Internet and mobile phones has increased exponentially and the methods and scope of the investigation into Korean neologisms have been modified accordingly. The two major tasks carried out within the scheme of the project consist of (1) collecting all the neologisms that appear each year in news articles on the Naver portal, and (2) investigating the usage development of neologisms within the past decade in order to determine whether those collected

ten years ago are still in use. These tasks are carried out using a web-based neologism extractor and a web crawler respectively. The extraction of new words is performed semi-automatically, since the automatic web-based neologism extractor is combined to manual identification. Since 2012, all the neologisms collected for task 1 have been added to the database of the online dictionary *Urimalsaem*, which became accessible to the public in 2016. *Urimalsaem* and the *Standard Korean Language Dictionary* (SKLD) are the main dictionaries of the Korean language. Both are state-run dictionaries, but have nonetheless distinct identities. *Urimalsaem* is a partly crowdsourced dictionary that enables contribution of dictionary users, while SKLD is a prescriptive dictionary for the use of standard language and grammar. As a result of task 2, the neologisms that are still in continuous use after ten years can be considered as headword candidates for SKLD.

At the outset in 1994, the methodology adopted for the project consisted of reading texts and searching for new words with the naked eye. Crucial methodological changes have been introduced since then, including the construction of a large-scale corpus (2005) and the use of the web crawler and web-based neologism extractor (2012). In 2015, a ten-year usage investigation for the neologisms extracted in 2005 and 2006 began. The following year, a pattern-based methodology of neologism extraction was introduced, and the minimum threshold of frequency occurrence for neologism candidates was increased to three. Despite these adjustments, the precision and recall levels of automatic neologism detection are still not satisfactory. Moreover, there are a number of other issues for improvement that are addressed in this paper, such as the difficulty of conducting a consistent frequency survey due to the dynamic nature of the web as corpus, the identification of semantic neologisms that are not morphological neologisms, and the dependency on manual processes. Some of these issues can be approached in terms of Korean natural language processing or from a typological perspective of Korean as an agglutinative language. In their ten-year cycle investigation of neologism usage, Nam et al. (2016) have found that only 75% of the neologisms survived after ten years. Whether this result constitutes a suitable criterion for lexicographic inclusion is also re-examined in the current study.

**Keywords:** Korean neologisms, neologism extraction, neologism usage investigation, headword candidates, *Urimalsem*, *Standard Korean Language Dictionary*

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### New words in Japanese and the design of *UniDic* electronic dictionary

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The National Institute for Japanese Language and Linguistics (NINJAL) is involved in developing Japanese language corpora, including the Balanced Corpus of Contemporary Written Japanese, Corpus of Spontaneous Japanese, Corpus of Historical Japanese, and NINJAL Web Japanese Corpus. In the development processes we often encounter new words that are formed by using different character types (e.g., Hiragana, Katakana, Kanji) and their heterographs, with their combinations, even for writing a single word (e.g., *big*: おおきい, 大きい, オオキイ, おおきい, 大キイ), which could be ‘literal’ (e.g., *as it was expected*: 矢張り), ‘somewhat colloquial’ (やっぱり), ‘colloquial’ (やっぱし), ‘abbreviated’ (やば), and so on. Thus, new words can appear as orthographic variants (おおきい vs. 大キイ), form variants (矢張り vs. やば) and new lemmas (such as エモい *emotional*), and be classified at these three levels (orthographic, form, lemma).

We apply a design policy called “hierarchical definition of word indexes” to register new words in *UniDic*, our electronic Japanese word dictionary, for annotating plain texts with morphological information. Using the hierarchical definition of word indexes, a single lemma (e.g., 矢張り) has its various word forms written in Katakana characters (e.g., 矢張り ← ヤハリ, ヤツパリ, ヤツパシ, ヤバ) as its children, with each form having its orthographic variants as its children (e.g., ヤハリ ← 矢張り, やはり, ヤハリ). *UniDic* contains about 200 thousand lemmas and one million of their form and orthographic variants with rich morphological information (e.g., part of speech, lemmatized form, pronunciation, accent). To annotate morphological information in plain unsegmented texts, we select optimal records for character strings in the texts from UniDicDB, a word database system. The records and their morphological information are manually registered to UniDicDB when new words are detected during the annotation phase. We also employ UniDicExplorer, an annotator-friendly user interface capable of searching and registering words. Another feature is UniDicMA, a dictionary software for the morphological analyzer,

which is derived from UniDicDB and can attach the hierarchical structure of *UniDic* to each word in an input plain unsegmented text automatically (<https://unidic.ninjal.ac.jp/>). Only UniDicMA is open to the public, whereas all other UniDics are not accessible outside NINJAL.

In this paper, we discuss what is a ‘new word’ in Japanese, our hierarchical definition of word indexes, and how to register new words in UniDicDB using UniDicExplorer.

**Keywords:** electronic dictionary, Japanese, corpus, annotation, database system, morphological analyzer, neologisms

### Adding neologisms to the Hebrew online dictionary *Rav-Milim*

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This paper describes the process of finding Hebrew neologisms and adding them to the online dictionary *Rav-Milim*. The editorial board of the dictionary uses different methods to find such neologisms, including crowdsourcing (suggestions from users), and tracking new terms in the media and in official announcements by the Academy of the Hebrew Language. We discuss the criteria and methodology for adding new words to the dictionary, with emphasis on the decision-making process of labelling foreign words (mainly from English) as neologisms in Hebrew. Various kinds of neologisms have been added to the dictionary in recent years: new technological terms, including terms for new tools and appliances (רַחֲפָן, *rachfan*, ‘drone’); internet and social media slang; terms that have emerged in recent years in media coverage of news events; terms that have arisen in recent general discourse regarding new concepts (מֵזוֹן-עַל, *mezon-al*, ‘superfood’); new military terms; neologisms added by the Academy of the Hebrew Language, some of which are the equivalents of existing loanwords. Most of these types of neologisms include loanwords, that are mainly borrowed from English.

Our dictionary is a practical, descriptive tool rather than an etymological documentation project. Therefore, new words in the dictionary are, in general, not indicated as such, though we do note whether a neologism has been formally suggested by the Academy of the Hebrew

**GWLN 2019. Globalex Workshop on Lexicography and Neologism** <https://globalex.link/events/workshops/gwln2019/>

**DSNA. Dictionary Society of North America** <https://dictionaryofsociety.com/>

**DSNA 22. 22nd biennial meeting of the Dictionary Society of North America** <https://indiana.edu/~iucweb/dsna/>

**DICTIONARIES. Journal of the Dictionary Society of North America** <https://dictionaryofsociety.com/journal/>

**GLOBALEX. Global Association for Lexicography** <http://globalex.link/>

Language. These neologisms are linked to earlier loanwords with the same meaning.

*Rav-Milim* has also added new meanings to existing entries. New technological meanings have emerged in words like אָנָן (*anan*, ‘cloud’). In other cases, existing terms have been replaced with new ones due to considerations of political correctness in contexts such as gender and disability.

**Keywords:** neologisms, Hebrew, foreign words, internet slang

### The formation of neologisms in a lesser used language: The case of Frisian

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Frisian is the language spoken in the Dutch Province of Friesland. Its approximately 440,000 speakers use it mainly for informal and oral communication. Dutch is the official language in the Netherlands, also in Friesland. With approximately 24 million speakers worldwide, Dutch is used in almost all areas of society. It is a widely supported standard language with a large written production.

Frisian has a limited tradition as a written language and consequently has a large number of lexical gaps. For many Dutch or international concepts, there are simply no Frisian equivalents. When it comes to new words, Frisian does not keep pace with Dutch either. Because of the limited use of Frisian and the omnipresence of Dutch, there are almost no spontaneously formed Frisian neologisms. Dutch neologisms often have a Frisian equivalent that is based on Dutch or no equivalent at all. Sometimes Dutch words are adopted literally, sometimes they are adapted in the pronunciation or replaced by a loan translation. Because Frisians live in a dominant Dutch context and have an excellent command of this language (as opposed to [written] Frisian), they easily adopt Dutch neologisms.

However, there is an unmistakable, partly ideologically-driven, effort towards a certain standardization in written language, which creates a need for Frisian variants of neologisms. This endeavour to purify Frisian has an impact on the treatment of neologisms in dictionaries. The a-symmetrical bilingual situation outlined above also has its impact on the spontaneous creation of Frisian neologisms and their subsequent incorporation in dictionaries of Frisian.

De Fryske Akademy is working on an extensive bilingual online Dutch-Frisian production dictionary (ONFW). That dictionary has a large, standardized, autonomous language, as its source language, whereas the target language is small, dependent, and far less standardized. The macrostructure of the contemporary *Algemeen Nederlands Woordenboek* (ANW) is the basis for that of ONFW, which means that the ONFW mainly incorporates neologisms identified by ANW. The Fryske Akademy also has at its disposal a corpus of bilingual news items (Dutch and Frisian). This is an interesting source, because the news editors constantly have to think of Frisian equivalents for neologisms from mostly Dutch-language news.

In this paper we discuss the possibilities there are for forming Frisian neologisms, as well as the ideological responsibility of the lexicographer to form neologisms that have the greatest potential to be accepted by the language user, as only widely accepted neologisms contribute to the vitality of Frisian.

**Keywords:** Frisian, Dutch, lesser used language, dominant language, language ideology, purification, standardization, bilingual dictionary

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### Anglicisms and language-internal neologisms: Dealing with new words and expressions in *The Danish Dictionary*

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The corpus-based online *The Danish Dictionary* contains just over 100,000 entries. The dictionary is updated on a regular basis, with batches published two or three times a year. Whenever a new batch is released, it almost certainly becomes the object of public attention. The media love new words and usually assume that a new word in the dictionary is also a new word in the language – a neologism. Of course, popular belief is far from the truth: many newly published words have been in the language for a long time, but were perhaps too infrequent to be included previously.

Given their popularity, neologisms are obviously interesting for the dictionary staff, and in this paper I analyse the ones that have been included recently, and consider whether special selection criteria should apply. The editors do not use a specific method to detect neologisms in particular, but we have, on the one hand, various tools to assist us in finding lemma candidates in general, and on the other, we can analyse the batches that have already been published in recent years. I pursue both these approaches, addressing questions such as the following:

- What broad types of neologisms exist and what are their characteristics?
- How does the pressure from English affect the vocabulary of the dictionary?
- Are Anglicisms dominant or used increasingly over time as compared with language-internal neologisms? Does globalisation promote the import of words from other languages, too?
- Do dictionary users suggest and look up neologisms, and in particular Anglicisms, more often than other words?

Although the notion of 'neologism' pertains to a range of linguistic phenomena, in this context I confine myself to words and multiword expressions as (potential) entries.

**Keywords:** corpus-based lexicography, lemma selection criteria, Anglicisms, dictionary use, neologisms



## Exploring criteria for the inclusion of trademarks in general language dictionaries of Modern Greek

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This paper explores the inclusion of genericized trademarks in Greek dictionaries. Genericized trademarks constitute a special type of neologism, balancing between the non-lexical and the lexical, ‘proper’ and ‘common’. Although the goal of creating a brand name is to make a specific product easily distinguishable from the rest of its kind, the trademark might become so well-known and widely used that it starts denoting all similar products, becomes part of the general vocabulary and gains lemma status in dictionaries. Given the fact that very little, if any, documentation exists on the subject, be it publicized lexicographic policies or style guides, dictionary notes, or any other reference in the relevant literature, the main aim of the article is to explore some of the criteria by which such proprietary eponyms make their way into dictionaries of Modern Greek. First, a historical account of genericized brand names in dictionaries is given, demonstrating how this type of neologism has been gaining ground in recent years. Then, a list of genericized trademarks found in current dictionaries is compared to similar lemmas in contemporary English dictionaries to investigate which of them also constitute imported neologisms. In this respect, the paper investigates how many genericized trademarks are borrowed by other languages compared to Greek, which languages these are, and which fields constitute neologism pools for eponyms in Greek. Finally, the list of the proprietary eponyms that are included in dictionaries of Modern Greek is crosschecked against the Hellenic National Corpus to compare the frequency of lexical use to that of their non-lexical use. Traditionally, the main criteria used to differentiate the two forms of use include the existence of capitalization, the inclusion of the article, and the formation of words belonging to different parts of speech. The paper attempts to test whether these measures can help to determine the source and status of such neologisms in Modern Greek or whether other/more criteria are necessary.

**Keywords:** Modern Greek lexicography, genericized trademarks, lemma selection, neologisms

## Neologisms in a Dutch online portal

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Every year, thousands of neologisms, or new words, are coined. Most neologisms are compounds or derivations. Already existing words used in a new meaning (for example, Dutch *slim* ‘smart’, often used attributively before a machine or device), new multiword units (*urban gym*) and new loanwords (*frosecco*, *thighbrow*, et cetera) are treated as neologisms as well.

Not every neologism is widely used and the majority of new words will disappear. The more widely adopted or firmly rooted neologisms are often described in dictionaries, for example in the *Algemeen Nederlands Woordenboek* (ANW), an online dictionary of present-day Dutch. Why are some new words adopted, while others are ignored? Is it necessary to register and describe neologisms that are likely to disappear, for example in a dictionary of neologisms? And what should such a dictionary of neologisms look like?

In this paper I present a pilot version of a new dictionary of Dutch neologisms. Firstly, I will explain how Dutch neologisms are created. Secondly, I demonstrate why it is necessary to register and describe neologisms (also those that are not adopted in present-day Dutch) in an online dictionary portal. Then I show how potential neologisms in Dutch can be detected with the aid of the computer tool Neoloog and through corpus analysis. Finally, I will go into the lemma structure of this special-domain dictionary of neologisms and discuss how it differs from the ANW in the way it describes neologisms.

**Keywords:** neologisms, new words, dictionary, online dictionaries, lemma structure, Dutch

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