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Jarosław Wiliński Uniwersytet w Siedlcach ORCID: https://orcid.org/0000-0002-3136-6529 e-mail: jaroslaw.wilinski@uph.edu.pl

# Speaking-AC vs. AC-speaking in Polish: A distinctive collexeme analysis

## Konstrukcje z quasi-imiesłowem *mówiąc* w języku polskim: Analiza dystynktywnych koleksemów

#### Abstract

Utilizing the concept of construction and the corpus-based technique known as Distinctive-Collexeme Analysis, this research aims to identify adverbial complements (ACs) that exhibit a distinct inclination toward the  $m\acute{o}wiqc$ -AC-construction as opposed to the AC- $m\acute{o}wiqc$ -construction. Drawing upon data extracted from NKJP, this study reveals that these constructions convey nuanced functional distinctions and consistently co-occur with specific ACs.

**Keywords:** quasi-participle *mówiąc*, NKJP, construction grammar, distinctive collexeme analysis, Fisher's exact test

#### **Abstrakt**

Niniejsze badanie wykorzystuje pojęcie konstrukcji oraz metodę korpusową, znaną jako Analiza Dystynktywnych Kolleksemów, aby zidentyfikować uzupełnienia okolicznikowe (ACs), które wykazują wyraźną tendencję do występowania w konstrukcji mówiąc-AC w przeciwieństwie do konstrukcji AC-mówiąc. Na podstawie danych pozyskanych z NKJP badanie to ukazuje, że obie konstrukcje charakteryzują się subtelnymi różnicami funkcjonalnymi, a także konsekwentnie współwystępują z określonymi przysłówkami i wyrażeniami przysłówkowymi.

**Słowa kluczowe**: quasi-imiesłów *mówiąc*, NKJP, gramatyka konstrukcyjna, analiza dystynktywnych koleksemów, test Fishera

### 1. Introduction

The availability of computerized corpora and the increased interest in functional vocabulary have brought attention back to the phenomenon of Polish metatextual expressions. These expressions take the form of the quasi-participle *mówiąc* 'speaking' preceded or followed by adverbs, nouns, or adverbial phrases. This linguistic phenomenon has been observed by various researchers (e.g., Ożóg 1991; Stępień 2014; Birzer 2017; Kubicka 2017; Żabowska 2020). Some researchers have traced the origins of these constructions (Birzer 2017) and addressed questions about their lexical status (Weiss 2005; Kisiel and Żabowska 2011; Stępień 2014). They have also distinguished between [Adv] speaking and speaking [Adv] (Żabowska 2020). Other scholars have briefly discussed the nature of specific expressions (Wróbel 1970; Weiss 2005; Grochowski 2002; Żabowska 2009; Bojałkowska 2010; Kisiel and Żabowska 2011), explained their functions and prosodic characteristics (Stępień 2014), and examined various formal and functional properties of adverbs (Kubicka 2017; Moroz 2007 for their formal characteristics). Additionally, hypotheses have been formulated regarding the circumstances under which adverbs can operate independently (see Kleszczowa 2015; Kubicka 2017).

To date, there has been limited research comparing and contrasting the usage of adverbs, nouns, and adverbial phrases in both the mówiąc-AC construction and the AC-mówiac construction, not to mention their functional classification and detailed quantification and evaluation in terms of statistical significance. Previous research (Zabowska 2020) has focused exclusively on making observations regarding the status of both constructions and identifying several collocates within these structures: i.e., words that occur frequently and repeatedly with these specific constructions. Zabowska noted that these constructions serve distinct functions, with these differences corresponding to variations in word order and prosodic features. Furthermore, they exhibit variances in the lexical and formal attributes of their adverbial components, which subsequently impact the possibility of negation and the conditions for the independent use of adverbs. The [ADV] mówiąc pattern functions as a metatextual linguistic unit. In contrast, the *mówiąc* [ADV] pattern serves as a spoken commentary (Zabowska 2020: 33). It emerges as a result of an operation on the action verb  $m \delta w i \hat{c}$  and represents the outcome of the quasi-participial transformation (Bogusławski and Danielewicz 2005: 347).

While Zabowska's study has contributed to our understanding of both constructions' status, it falls short in explaining the nuanced differences in their function and specific collocational preferences. Consequently, there is still a need to investigate the distribution of ACs and their frequency of occurrence in these patterns, as variations in distribution may exist. This paper, therefore, seeks to discern subtle but consequential distinctions between the two patterns. It aims to support the hypothesis that, despite

their apparent synonymy at first glance, these constructions exhibit nuanced differences in usage and demonstrate distinct preferences for specific categories of adverbs, nouns, and adverbial expressions.

The rest of this paper is structured into three sections. Section 2 discusses the theoretical and methodological foundations that form the basis of the quantitative examination. Section 3 combines the results of the quantitative analysis with a functional portrayal of ACs, shedding light on subtle differences in distribution between the two constructions. In Section 4, we undertake an assessment of the findings.

## 2. Theoretical and methodological frameworks

The study is based on the notion of *construction* (Goldberg 2006). This concept assumes that grammar consists of pairings of linguistic form and meaning across varying degrees of specificity and schematicity, ranging from morphemes and individual words to syntactic patterns. They are accompanied by associated rules governing their pragmatic and discourse-functional elucidation. For example, *mówiąc*-AC is recognized as a construction because it has a particular form—a quasi-participle combined with a specific AC—and a meaning/function. Specifically, it expresses the idea of a speaker communicating a message to a recipient in a particular manner. Notably, all linguistic units may be represented as constructions, provided they manifest with the requisite frequency<sup>1</sup>. This frequency, in turn, governs their level of entrenchment within a speaker's or hearer's grammatical system (Croft and Cruse 2004: 292–293).

The *Distinctive-Collexeme Analysis* method (Gries and Stefanowitsch 2004) was employed to identify ACs that exhibit distinctive associations with either the *mówiąc-*AC-construction or the AC-*mówiąc-*construction: i.e., those words that best distinguish between both constructions. This method involved a series of four steps, which can be exemplified using the adverb *wprost* 'bluntly'. Table 1 presents the distribution of this adverb in both patterns, along with the other frequencies necessary for conducting a distinctive-collexeme analysis.

<sup>&</sup>lt;sup>1</sup> In this study, a specific threshold value for "requisite frequency" is set based on the p-value derived from the Fisher's exact test, which indicates the likelihood of the observed data occurring under the null hypothesis (i.e., no association between the words and constructions). A typical threshold for significance is a p-value of 0.05. If the p-value is below this threshold, you reject the null hypothesis and conclude that the words and constructions are significantly associated.

Constructions	ACs (wprost)	All other ACs	Total
mówiąc-AC	Frequency of AC (wprost) in the mówiąc-AC-construction $A = 324 (93.99)$	Frequency of all other ACs in the $m\acute{o}wiqc$ -AC-construction b = 4110	Total frequency of the $m\acute{o}wiqc$ -AC- construction x = 4434
AC-mówiąc	Frequency of AC (wprost) in the AC- mówiąc-construction $c = 3 (233.01)$	Frequency of all other ACs in the AC-mówiąc- construction d = 10989	Total frequency of the AC- $m\acute{o}wiqc$ - construction y = 10992
Total	Total frequency of AC $(wprost)$ $e = 327$	Total frequency of all other ACs $f = 15099$	Total frequency of both constructions $z = 15426$

Table 1. Contingency table cross-tabulating frequency scores of the constructions under study

The first step involved searching for these patterns in the balanced version of the National Corpus of Polish (NKJP), extracting their occurrences in concordance lines, and calculating the observed frequencies. This version of the corpus encompasses over 250 million textual words, comprising samples from a variety of written and spoken sources in Polish, including classic literature, daily newspapers, specialist periodicals, and several others (see Przepiórkowski et al. 2012). The PELCRA corpus search engine (Pęzik 2012) was employed to search for all instances of the participle m'owiqc within a context of 5 words and a sample size of 10,000 words<sup>2</sup>. Manual inspection of concordance lines allowed for identifying potential collocates of the two patterns, such as  $wprost\ m\'owiqc\ and\ m\'owiqc\ wprost$ . These combinations were then entered into the search engine once again, and their total frequencies were automatically extracted from the corpus within a maximum span of five words to the left and right of the participle.

Initially, the corpus search uncovered 17 potential combinations of wprost mówiąc and 346 combinations of mówiąc wprost. Subsequently, these instances of both constructions were manually examined to identify genuine combinations, resulting in 3 occurrences of wprost mówiąc and 324 occurrences of mówiąc wprost. Any occurrences that did not conform to the pattern or indicated co-reference between the subject of the participle and the first argument of the matrix verb were discarded from further

<sup>&</sup>lt;sup>2</sup> The module of automatic extraction of collocations implemented in the search engine PELCRA, called *Kolokator* 'Collocator', was not used in this study due to its technical limitations. First, Kolokator only allows for extracting collocates within a maximum distance of two words to the left and right of the node. Secondly, the module only searches for words that co-occur at least five times in the balanced version of the corpus.

analysis<sup>3</sup>. This procedure was repeated for each combination, thereby allowing for calculating the observed frequencies of the patterns and the remaining instances of ACs. The figures (a, x, c, y) in Table 1 were obtained directly from the corpus, while the remaining values were derived through addition and subtraction.

Next, the observed frequencies were employed to ascertain the expected frequencies of the AC (wprost) in both constructions. This calculation was executed in Microsoft Excel by means of the following formula: (e  $\times$  x)/ z. For the sake of clarity, the expected frequencies for the adverb wprost in each construction are enclosed in parentheses (see Table 1). Should the observed frequency of the AC (wprost) in the mówiąc-AC-construction significantly deviate from the expected value, it signifies a strong association between the AC wprost and this construction, characterized by either attraction or repulsion. In essence, the AC wprost is consequently classified as a collexeme significantly drawn towards or repelled from the mówiąc-AC-construction, respectively. Similarly, if the observed frequency of the AC (wprost) in the AC-mówiąc-construction significantly diverges from the expected frequency, then the adverb wprost is deemed a significantly attracted or repelled collexeme of this construction.

In the third step, the strength of association between the AC (wprost) and the constructions under examination was estimated. This was achieved by utilizing the figures (a, b, c, d) from Table 1, which were then input into a 2-by-2 table and subjected to the Fisher exact test. The p-value obtained from this test served as the metric for evaluating the collostruction strength of each adverbial complement. In essence, it quantified the extent to which the AC (e.g., wprost) exhibited an affinity for the mówiąc-AC-construction as opposed to the AC-mówiąc-construction. A smaller p-value indicated a higher probability that the observed distribution was not a result of chance, thereby signifying a stronger association between an AC and one of the constructions in question. The computation of statistical significance was executed using an online calculator designed for the Fisher's exact test applicable to two-by-two contingency tables.

Following this, each p-value (e.g., 1.40e-173 for *wprost*) was logarithmically transformed to base 10 (e.g., 172.85). This transformation provided a more readable score compared to the often-cumbersome p-values expressed

<sup>&</sup>lt;sup>3</sup> For example, the occurrence of *wprost* and *mówiąc* in *Gage odpowiada brutalnie, choć nie całkiem wprost, mówiąc, że Hamlet* [...] (Gage responds brutally, though not entirely directly, speaking of how Hamlet [...]) was considered to be a standard use of the participle *mówiąc*. Thus, this instance was omitted from the statistical calculations to preserve the accuracy of the data set.

in powers of ten. Collostruction strength values exceeding 1.301 indicated a robust association between the AC and the construction, while values below this threshold indicated a significant deviation from the construction. The number 1.301 is approximately equal to  $-\log 10$  (0.05), which is the negative logarithmic transformation of the commonly used significance threshold p=0.05.

This means that any value above 1.301 on the log scale corresponds to p-values less than 0.05, indicating statistical significance. Importantly, this analysis identified the adverb *wprost* as a lexeme of substantial significance within one of the two constructions, albeit without specifying which one. To ascertain this distinction, the observed frequencies of *wprost* were compared to the expected frequencies. This comparison revealed that *wprost* occurred more frequently than expected in the *mówiąc*-AC-construction and less frequently than expected in the AC-*mówiąc*-construction. Thus, it is a lexeme more strongly associated with the former than with the latter.

Finally, the outcomes of the quantitative research were arranged in accordance with the strength of attraction and subsequently subjected to qualitative assessment. Specifically, the quantitative findings were integrated with a functional classification of ACs. The classification was guided by the observed functions and patterns of usage of the ACs within both constructions as they appear in the corpus data. These functions were identified based on empirical evidence.

### 3. Results and discussion

A thorough examination of concordance lines has revealed that the *mówiąc*-AC-construction and the AC-*mówiąc*-construction occur 4,434 and 10,992 times, respectively, within the corpus. In simpler terms, the latter construction appears to be more than twice as prevalent as the former, approximately 2.48 times more frequent, with each of the first five lexemes occurring over one thousand times in that construction (see Table 4 below). The *mówiąc*-AC-construction shows associations with 208 different types of ACs, with 78 of them occurring only once in this specific construction. Conversely, the AC-*mówiąc*-construction is associated with 139 different ACs, 49 of which are exclusively used in this construction when compared to the AC-*mówiąc*-construction.

These results suggest that many ACs appear in both constructions, though with varying frequencies. For example, words such as *najprościej* 'the simplest way', *oględnie* 'cautiously', *nieładnie* 'improperly', *konkretnie* 'specifically',

krótko 'briefly', szczerze 'sincerely', inaczej 'differently', and others occur in both contexts but are more strongly associated with one of the constructions when we consider their expected frequencies and low p-values. Additionally, words such as językiem 'in language', wprost 'directly', serio 'seriously', słowami 'in the words of', bez ogródek 'bluntly', żargonem 'in jargon', w przenośni 'figuratively', and banalnie 'trivially' are more unique to the mówiąc-AC (left) context, while prawdę 'truth', nawiasem 'incidentally', właściwie 'actually', and lekko 'lightly' are uniquely associated with the AC-mówiąc (right) context. Their frequencies differ significantly: for instance, językiem is much more frequent in the mówiąc-AC-construction (350 occurrences) compared to the AC-mówiąc-construction (4 occurrences). Conversely, prawdę shows the opposite pattern, with 24 occurrences in mówiąc-AC and 1789 occurrences in AC-mówiąc.

### 3.1. Findings for the mówiac-AC-construction

Tables 2 and 3 below show the sixty most distinctive collexemes associated with the *mówiąc*-AC-construction, including the observed frequencies of ACs used to determine the expected frequencies, the direction of association (attraction or repulsion), and the strength of association (distinctiveness). Additionally, the tables present the results of the distinctive-collexeme analysis, including p-values and collostructional strength based on the Fisher exact test. The application of this test can be easily justified statistically. In statistics, it is particularly used when at least one expected value within the table falls below the threshold of 5 or when data distribution is characterized by unevenness and infrequency (Gries and Stefanowitsch 2004: 10)

The findings suggest that five particular ACs, namely językiem, wprost, obrazowo, w skrócie, and prościej, exhibit significant distinctiveness. The log transformations, which serve as indicators of their distinct character, are remarkably high: 185.66, 172.85, 48.24, 46.83, and 41.25, respectively. These values represent the strength of association between particular ACs and the mówiąc-AC-construction, where a higher value (above 1.301) indicates a stronger, more statistically significant association. A comparison between the observed and expected frequencies of each of these ACs in relation to the two constructions reveals that these ACs occur more frequently than expected in the mówiąc-AC-construction and less frequently than expected in the AC-mówiąc-construction. In essence, they demonstrate a very strong degree of distinctiveness when comparing the former to the latter. Noteworthily, językiem emerges as the most robust collexeme for the

Table 2. The thirty most distinctive collexemes of the mouniqc-AC-construction

coll. strength	185.66	172.85		48.24	48.24	48.24 46.83 41.25	48.24 46.83 41.25	48.24 46.83 41.25 40.28 35.82	48.24 46.83 41.25 40.28 35.82	48.24 46.83 41.25 40.28 35.82 33.16 22.98	48.24 46.83 41.25 40.28 35.82 33.16 22.98	48.24 46.83 41.25 40.28 35.82 33.16 22.98 22.49	48.24 46.83 41.25 40.28 35.82 33.16 22.98 22.49 21.99	48.24 46.83 41.25 40.28 35.82 33.16 22.98 22.98 18.35	48.24 46.83 41.25 40.28 35.82 33.16 22.49 21.99 18.35 14.22
p-values	5 2.18e-186	1 1.40e-173	L	$1 \mid 5.78e-49$											
(c)	252.25	233.01	114.01	000	103.32	103.32 82.66	82.66 122.56	103.32 82.66 122.56 54.87	103.32 82.66 122.56 54.87 43.47	103.32 82.66 122.56 54.87 43.47 66.98	103.32 82.66 122.56 54.87 43.47 66.98	82.66 82.66 122.56 54.87 43.47 66.98 42.75	82.66 82.66 122.56 54.87 43.47 66.98 42.04 54.87	82.66 82.66 122.56 54.87 43.47 66.98 42.75 42.04 42.04 42.04	82.66 82.66 1122.56 54.87 43.47 66.98 66.98 42.75 42.04 54.87 42.04
(a)	101.75	93.99	45.99	41.68		33.34	33.34	33.34 49.44 22.13	33.34 49.44 22.13 17.53	33.34 49.44 22.13 17.53 27.02	33.34 49.44 22.13 17.53 27.02 17.25	33.34 49.44 22.13 17.53 27.02 17.25 16.96	33.34 49.44 22.13 17.53 27.02 17.25 16.96 22.13	33.34 49.44 22.13 17.53 27.02 17.25 16.96 22.13 16.96	33.34 49.44 22.13 17.53 27.02 17.25 16.96 22.13 16.96 7.19
р	10988	10989	10967	10972		10979	10979 10954	10979 10954 10989	10979       10954       10989       10992	10979       10954       10989       10992       10972	10979       10954       10989       10992       10972       10986	10979       10984       10989       10972       10986       10986	10979 10989 10992 10972 10986 10986 10986	10954 10954 10989 10992 10972 10986 10986 10975	10979 10989 10992 10992 10986 10986 10975 10975
q	4084	4110	4299	4309		4331	4331	4331 4300 4360	4331       4300       4360       4373	4331       4300       4360       4373       4360	4331       4300       4360       4373       4360       4380	4331       4300       4360       4373       4360       4380       4381	4331 4360 4360 4360 4380 4381 4381	4331       4300       4350       4373       4380       4381       4384       4388	4331 4360 4360 4360 4380 4381 4374 4388 4409
Z	15426	15426	15426	15426		15426	15426 15426	15426 15426 15426	15426 15426 15426 15426	15426 15426 15426 15426 15426	15426 15426 15426 15426 15426 15426	15426 15426 15426 15426 15426 15426 15426	15426 15426 15426 15426 15426 15426 15426 15426	15426 15426 15426 15426 15426 15426 15426 15426 15426	15426 15426 15426 15426 15426 15426 15426 15426 15426 15426
y	10992	10992	10992	10992	10009	10001	10992	10992 10992	10992 10992 10992	10992 10992 10992 10992	10992 10992 10992 10992 10992	10992 10992 10992 10992 10992 10992	10992 10992 10992 10992 10992 10992	10992 10992 10992 10992 10992 10992 10992	10992 10992 10992 10992 10992 10992 10992 10992
Х	4434	4434	4434	4434	4434		4434	4434	4434 4434 4434	4434 4434 4434 4434	4434 4434 4434 4434 4434	4434 4434 4434 4434 4434 4434	4434 4434 4434 4434 4434 4434 4434	4434 4434 4434 4434 4434 4434 4434 443	4434 4434 4434 4434 4434 4434 4434 443
J	15072	15099	15266	15281	15310		15254	15254 15349	15254 15349 15365	15254 15349 15365 15332	15254 15349 15365 15362 15366	15254       15349       15365       15382       15366       15367	15254 15349 15365 15366 15367 15367 15349	15254 15349 15365 15366 15367 15349 15349	15254 15349 15365 15332 15366 15367 15349 15349
е	354	327	160	145	116		172	172	172 77 61	172 77 61 94	172 77 61 94 60	172 77 61 94 60 59	172 77 61 94 60 59 77	172 77 61 60 60 59 77 77	172 77 61 60 60 59 77 77 75 25
0	4	3	25	20	13		38	38	38	38 3 0 0 20 20	38 38 0 0 0 0 6 6	38 3 0 0 20 6 6	38 3 0 0 20 6 6 6	38 3 0 0 20 20 6 6 6 6 17	38 3 0 0 0 20 6 6 6 6 6 0 17 17
В	350	324	135	125	103		134	134	134 74 61	134 74 61 74	134 74 61 74 74 54	134 74 61 74 74 54	134 74 61 74 54 53 60	134 74 61 74 74 54 53 60 60	134 74 61 61 74 74 54 53 60 60 46
AC	językiem	wprost	obrazowo	w skrócie	prościej		poważnie	poważnie serio	poważnie serio słowami	poważnie serio słowami kolokwialnie	poważnie serio słowami kolokwialnie w uproszczeniu	poważnie serio słowami kolokwialnie w uproszczeniu po prostu	poważnie serio słowami kolokwialnie w uproszczeniu po prostu potocznie	poważnie serio słowami kolokwialnie w uproszczeniu po prostu potocznie brutalnie	poważnie serio słowami kolokwialnie w uproszczeniu po prostu potocznie brutalnie
rank		6.1	ж.	4.	5.		9								

12.53	9.52	9.21	8.67	8.64	7.84	7.58	7.09	6.50	6.36	5.96	5.78	5.78	5.53	5.08
2.94e-13	2.99e-10	6.13e-10	2.13e-09	2.31e-09	1.45e-08	2.64e-08	8.07e-08	3.15e-07	4.37e-07	1.10e-06	1.67e-06	1.67e-06	2.94e-06	8.25e-06
37.77	114.01	27.79	11.40	20.66	17.81	12.11	24.23	8.55	17.10	7.84	11.40	11.40	14.25	13.54
15.23	45.99	11.21	4.60	8.34	7.19	4.89	9.77	3.45	6.90	3.16	4.60	4.60	5.75	5.46
10980	10916	10983	10992	10987	10988	10991	10983	10992	10987	10992	10990	10990	10988	10988
4393	4350	4404	4418	4410	4413	4418	4409	4422	4415	4423	4420	4420	4418	4419
15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426
10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992
4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434
15373	15266	15387	15410	15397	15401	15409	15392	15414	15402	15415	15410	15410	15406	15407
53	160	39	16	59	25	17	34	12	24	11	16	16	20	19
12	92	6	0	5	4	-	6	0	70	0	2	2	4	4
41	84	30	16	24	21	16	25	12	19	11	14	14	16	15
po ludzku	oględnie	precyzyjnie	żargonem	prosto	skrótowo	fachowo	żartobliwie	w przenośni	otwarcie	banalnie	dosadnie	żartem	ogólniej	patetycznie
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.

struction;  $\mathbf{e} = \text{Total frequency of AC (e.g. wprost)}$ ;  $\mathbf{f} = \text{Total frequency of all other ACs}$ ;  $\mathbf{x} = \text{Total frequency of the } mówiąc\text{-} Construction$ ;  $\mathbf{y} = \text{Total frequency of both construction}$ ;  $\mathbf{z} = \text{Total frequency of both construction}$ ; (a) = Expected frequency of AC (e.g. wprost) in Explanations:  $\mathbf{a} = \text{Observed frequency of AC (e.g. } wprost)$  in the  $m \phi w i q c$ -AC-construction;  $\mathbf{b} = \text{Frequency of all other ACs}$  in the  $m \phi w i q c$ -AC-construction;  $\mathbf{c} = \text{Observed frequency of ACs (e.g. } \textit{uprost)}$  in the AC-m'owiqc-construction;  $\mathbf{d} = \text{Frequency of all other ACs}$  in the AC-m'owiqc-construction; the m'euiqc-AC-construction; (c) = Expected frequency of AC (e.g. uprost) in the AC-m'euiqc-construction; **p-values** and **collostructional strength** = indexes of statistical significance

*mówiąc*-AC-construction, with an exceptionally high collostructional strength (185.66). Furthermore, the expected frequency of *językiem* is lower than the observed frequency within the pattern under examination.

The ACs in both tables can be categorized into various functional groups. At the top position is *językiem* 'in language', while at rank 19 is *żargonem* 'in jargon,' both of which are associated with domain-specific communication. More specifically, phrases such as *mówiąc językiem Kanta* 'speaking in the language of Kant' or *mówiąc żargonem piłkarskim* 'speaking in the language of football' are used by speakers to suggest a shift towards specialized or technical discourse related to specific fields (philosophy or football), which may not necessarily involve simplification but rather precision and accuracy within those specialized domains.

Another prominent category involves words that serve the purpose of enhancing clarity and simplification in discourse. They are used to state that the following information will be presented in a concise, simple, and easily digestible manner, effectively removing unnecessary complexity. The ACs within this category include wprost 'bluntly', w skrócie, 'in short' prościej 'more simply', w uproszczeniu 'in simplified terms', po prostu 'simply', najprościej 'most simply', precyzyjnie 'precisely', prosto 'plainly/simply', skrótowo 'concisely', jaśniej 'more clearly', trywialnie 'trivially', lapidarnie 'succinctly', konkretnie 'more concretely', precyzyjniej 'more precisely', and czytelniej 'more legibly'. These ACs, ranked at positions 2, 4, 5, 10, 11, 15, 18, 20, 21, 35, 37, 40, 43, 45, and 58 respectively, serve multiple functions in discourse when used alongside the participle mówiąc. For example, they introduce statements that enhance clarity (jaśniej or czytelniej), simplify complex ideas (prościej, najprościej, and w uproszczeniu), provide conciseness (w skrócie or skrótowo), ensure directness (wprost and po prostu), or improve accessibility of information (skrótowo, jaśniej, or precyzyjniej).

The third category is associated with figurative language or style. This category encompasses a wide array of linguistic expressions, figures of speech, rhetorical devices, stylistic elements, and expressive choices that extend beyond straightforward, literal communication, thus enhancing the depth, nuance, and vividness of the discourse. In the hierarchy of the ACs belonging to this category, obrazowo 'figuratively' occupies the third rank and stands as the foremost representative in this category. It is accompanied by fachowo 'professionally', żartobliwie 'jokingly', w przenośni 'metaphorically', banalnie 'banally', żartem 'as a joke', patetycznie 'grandiosely', metaforycznie 'metaphorically', górnolotnie 'loftily', pół żartem pół serio 'half-jokingly, half-seriously', w (jakiś) sposób (np. obrazowy) 'in a (certain) manner (e.g., figurative)', eufemistycznie 'euphemistically', elegancko 'elegantly',

przenośnie 'figuratively', uczenie 'eruditely', cynicznie 'cynically', symbolicznie 'symbolically', oficjalnie 'oficially', and naukowo 'scientifically'. These expressions are distributed across ranks 22 to 57.

These figurative and stylistic expressions serve a range of essential functions in discourse: they are used to signal the speaker's intent to engage audiences by vividly painting mental images and evoking emotions (obrazowo, górnolotnie, or żartobliwie), simplify and clarify complex ideas (w przenośni), introduce humor or wit (żartobliwie or żartem), and establish various tones and styles (oficjalnie, elegancko, or patetycznie). Additionally, they comment on and modify the following text by fostering creativity and artistic expression (obrazowo, przenośnie, or symbolicznie) and by encouraging active interpretation, inviting readers or listeners to think critically and draw connections (obrazowo or metaforycznie). Finally, they can play a pivotal role in effective communication, introducing nuanced meanings (obrazowo or symbolicznie) and establishing the speaker's authority and expertise in a subject (uczenie or naukowo).

In the following category, a variety of ACs are employed to emphasize seriousness, directness, or candor in communication, ensuring that the speaker's upcoming message is conveyed clearly and with a sense of gravity. The term *poważnie*, which means 'seriously' and ranks 6th in significance, stands out as the most prominent lexeme within this group. Additionally, we find *serio* 'seriously', *brutalnie* 'brutally', *bez ogródek* 'without beating around the bush', *otwarcie* 'openly', *dosadnie* 'bluntly', *dosadniej* 'more bluntly', and *bez ostonek* 'without covering up' ranked at positions 7, 13, 14, 25, 27, 42 and 54, respectively. While all of these phrases can convey a sense of seriousness and directness to some extent, they may vary in the degree to which they emphasize one function over the others.

The next group of the most significant lexemes comprises a variety of ACs used for introducing statements that provide additional explanations, clarifications, or summaries. *Stowami* 'in the words of', ranked 7th, occupies the top position among the most distinctive ACs in this category<sup>4</sup>. The phrase is employed to summarize or clarify points by referencing the ideas or terminology of scholars or philosophers like Einstein or Kant, thus rendering complex concepts more accessible and enriching the discussion with additional context. Other words falling into this category include *ogólniej* 

<sup>&</sup>lt;sup>4</sup> Note that expressions such as m'owiqc jezykiem, slowami, or 'argonem ('speaking in language, words, or jargon') do not constitute complete structures. The necessity to complete them determines the placement of the phrase that complements m'owiqc and affects the proximity or lack thereof in the analyzed combinations.

Table 3. Other distinctive collexemes of the  $m\'{o}wiqc$ -AC-construction

rank         AC         a         f         x         y         z         d         d         p-values         coll. strength           3.1.         metaforyzanie         15         4         19         15407         4434         10992         15426         4419         10988         5.46         13.54         8.25e-06         5.08           32.         górnolotnie         15         4         19         15407         4434         10992         15426         4419         10988         5.46         13.54         8.25e-06         5.08           33.         szerzej         20         10         30         15396         4434         10992         15426         4416         10982         5.76         410         10982         15426         4426         10992         15426         4426         10992         2.30         5.70         4.64e-05         5.08           34.         pól zázerem pól serio         8         8         15418         4434         10992         15426         4426         10992         2.30         5.70         4.64e-05         5.08           35.         rtywialnie         11         2         13         1434         10992         1															
AC         a         c         f         x         y         z         b         d         (a)         (b)           metaforycznie         15         4         19         15407         4434         10992         15426         4419         10988         5.46         13.54           górnolotnie         15         4         19         15407         4434         10992         15426         4419         10988         5.46         13.54           szerzej         20         10         30         15396         4434         10992         15426         4416         10982         5.46         13.54           jaśniej         8         0         8         15418         4434         10992         15426         4426         10992         2.30         5.70           w cudzysłowie         11         2         13         15418         4434         10992         15426         4426         10992         2.30         5.70           w cudzysłowie         12         3         15418         4434         10992         15426         4425         10992         2.30         5.70           zwyczajnie         9         1         10         15	coll. strength	5.08	5.08	4.74	4.33	4.33	4.33	4.24	4.01	4.01	3.86	3.82	3.35	3.34	3.19
AC         a         c         f         x         y         z         b         d         (a)           metaforycznie         15         4         19         15407         4434         10992         15426         4419         10988         5.46           górnolotnie         15         4         19         15407         4434         10992         15426         4419         10988         5.46           szerzej         20         10         30         15396         4434         10992         15426         4426         10992         8.62           pół żartem pół serio         8         0         8         15418         4434         10992         15426         4426         10992         2.30           w cudzysłowie         11         2         13         15418         4434         10992         15426         4426         10992         2.30           w cudzysłowie         12         3         15         15411         4434         10992         15426         4425         10990         3.74           po naszemu         9         1         10         15416         4434         10992         15426         4424         10990	p-values	8.25e-06	8.25e-06	1.81e-05	4.64e-05	4.64e-05	4.65e-05	5.70e-05	9.88e-05	9.88e-05	1.38e-04	1.50e-04	4.44e-04	4.59e-04	6.46e-04
AC         a         f         x         y         z         b         d           metaforycznie         15         4         19         15407         4434         10992         15426         4419         10988           górnolotnie         15         4         19         15407         4434         10992         15426         4419         10988           szerzej         20         10         30         15396         4434         10992         15426         4414         10982           jaśniej         8         0         8         15418         4434         10992         15426         4426         10992           w cudzysłowie         11         2         13         15413         4434         10992         15426         4426         10992           trywialnie         9         1         10         15416         4434         10992         15426         4426         10992           po naszemu         9         1         10         15416         4434         10992         15426         4424         10991           dosadnie         9         1         10         15416         4434         10992         15426 </td <td>(C)</td> <td>13.54</td> <td>13.54</td> <td>21.38</td> <td>5.70</td> <td>5.70</td> <td>9.26</td> <td>10.69</td> <td>7.13</td> <td>7.13</td> <td>8.55</td> <td>26.36</td> <td>10.69</td> <td>2.93</td> <td>18.53</td>	(C)	13.54	13.54	21.38	5.70	5.70	9.26	10.69	7.13	7.13	8.55	26.36	10.69	2.93	18.53
AC         a         f         x         y         z         b           metaforycznie         15         4         19         15407         4434         10992         15426         4419           górnolotnie         15         4         19         15407         4434         10992         15426         4419           szerzej         20         10         30         15396         4434         10992         15426         4416           pół żartem pół serio         8         0         8         15418         4434         10992         15426         4426           w cudzysłowie         11         2         13         15413         4434         10992         15426         4426           rywialnie         9         1         10         15416         4434         10992         15426         4425           po naszemu         9         1         10         15416         4434         10992         15426         4424           dosadniej         10         2         12         15414         4434         10992         15426         4424           dosadniej         11         4         15         15414	(a)	5.46	5.46	8.62	2.30	2.30	3.74	4.31	2.87	2.87	3.45	10.64	4.31	12.07	7.47
AC         a         c         f         x         y         z           metaforycznie         15         4         19         15407         4434         10992         15426           górnolotnie         15         4         19         15407         4434         10992         15426           szerzej         20         10         30         15396         4434         10992         15426           pół żartem pół serio         8         0         8         15418         4434         10992         15426           w cudzysłowie         11         2         13         15418         4434         10992         15426           trywialnie         12         3         15         15411         4434         10992         15426           po naszemu         9         1         10         15416         4434         10992         15426           dosadnie         9         1         10         15416         4434         10992         15426           dosadnie         9         1         10         15416         4434         10992         15426           dosadnie         11         4         15         1541 </td <td>p</td> <td>10988</td> <td>10988</td> <td>10982</td> <td>10992</td> <td>10992</td> <td>10990</td> <td>10989</td> <td>10991</td> <td>10991</td> <td>10990</td> <td>10977</td> <td>10988</td> <td>10973</td> <td>10982</td>	p	10988	10988	10982	10992	10992	10990	10989	10991	10991	10990	10977	10988	10973	10982
AC         a         c         f         x         y           metaforycznie         15         4         19         15407         4434         10992           górnolotnie         15         4         19         15407         4434         10992           szerzej         20         10         30         15396         4434         10992           pół żartem pół serio         8         0         8         15418         4434         10992           w cudzysłowie         11         2         13         15413         4434         10992           trywialnie         9         1         10         15416         4434         10992           po naszemu         9         1         10         15416         4434         10992           dosadnie         2         15         37         15389         4434         10992           dosadnie         11         4         15         15414         4434         10992           dosadnie         2         15         37         15389         4434         10992           konkretnie         23         19         42         15384         4434         10992	q	4419	4419	4414	4426	4426	4423	4422	4425	4425	4424	4412	4423	4411	4418
AC         a         c         f         x         y           metaforycznie         15         4         19         15407         4434         10992           górnolotnie         15         4         19         15407         4434         10992           szerzej         20         10         30         15396         4434         10992           pół żartem pół serio         8         0         8         15418         4434         10992           w cudzysłowie         11         2         13         15413         4434         10992           trywialnie         9         1         10         15416         4434         10992           po naszemu         9         1         10         15416         4434         10992           dosadnie         2         15         37         15389         4434         10992           dosadnie         11         4         15         15414         4434         10992           dosadnie         2         15         37         15389         4434         10992           konkretnie         23         19         42         15384         4434         10992	Z	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426	15426
AC         a         c         e         f           metaforycznie         15         4         19         15407           górnolotnie         15         4         19         15407           szerzej         20         10         30         15396           pół żartem pół serio         8         0         8         15418           jaśniej         8         0         8         15418           trywialnie         11         2         13         15413           trywialnie         9         1         10         15416           po naszemu         9         1         10         15416           nieładnie         22         15         15414           nieładnie         22         15         37         15389           dosadniej         11         4         15         15411           konkretnie         23         19         42         15384           po polsku         16         10         26         15400	y	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992	10992
AC         a         c         e           metaforycznie         15         4         19           górnolotnie         15         4         19           szerzej         20         10         30           pół żartem pół serio         8         0         8           jaśniej         8         0         8           w cudzysłowie         11         2         13           trywialnie         12         3         15           zwyczajnie         9         1         10           po naszemu         9         1         10           apidarnie         22         15         37           dosadniej         11         4         15           konkretnie         23         19         42           kon polsku         16         10         26	×	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434	4434
AC         a         c           metaforycznie         15         4           górnolotnie         15         4           szerzej         20         10           pół żartem pół serio         8         0           jaśniej         8         0           w cudzysłowie         11         2           trywialnie         12         3           zwyczajnie         9         1           po naszemu         9         1           donaszemuie         22         15           dosadnie         22         15           dosadnie         23         19           kon polsku         16         10	f	15407	15407	15396	15418	15418	15413	15411	15416	15416	15414	15389	15411	15384	15400
AC         a           metaforycznie         15           górnolotnie         15           szerzej         20           pół żartem pół serio         8           jaśniej         8           w cudzysłowie         11           trywialnie         12           zwyczajnie         9           po naszemu         9           lapidarnie         22           dosadniej         11           konkretnie         23           po polsku         16	е	19	19	30	∞	∞	13	15	10	10	12	37	15	42	26
AC metaforycznie górnolotnie szerzej pół żartem pół serio jaśniej w cudzysłowie trywialnie zwyczajnie po naszemu lapidarnie nieładnie dosadniej konkretnie	၁	4	4	10	0	0	2	3	1	1	2	15	4	19	10
	В	15	15	20	∞	$\infty$	11	12	6	6	10	22	11	23	16
	AC	metaforycznie	górnolotnie	szerzej	pół żartem pół serio	jaśniej	w cudzysłowie	trywialnie	zwyczajnie	po naszemu	lapidarnie	nieładnie	dosadniej	konkretnie	po polsku
	rank	31.				_					40.			43.	44.

45.	precyzyjniej	18	14	32	15394	4434	10992	15426	4416	10978	9.20	22.80	1.28e-03	2.89
46.	w sposób	20	0	70	15421	4434	10992	15426	4429	10992	1.44	3.56	1.96e-03	2.71
47.	szczegółowo	70	0	20	15421	4434	10992	15426	4429	10992	1.44	3.56	1.96e-03	2.71
48.	eufemistycznie	16	12	28	15398	4434	10992	15426	4418	10980	8.05	19.95	2.46e-03	2.61
49.	elegancko	6	4	13	15413	4434	10992	15426	4425	10988	3.74	9.26	2.90e-03	2.54
50.	przenośnie	9	1	7	15419	4434	10992	15426	4428	10991	2.01	4.99	2.97e-03	2.53
51.	uczenie	9	1	7	15419	4434	10992	15426	4428	10991	2.01	4.99	2.97e-03	2.53
52.	cynicznie	$\infty$	3	11	15415	4434	10992	15426	4426	10989	3.16	7.84	3.18e-03	2.50
53.	symbolicznie	7	2	6	15417	4434	10992	15426	4427	10990	2.59	6.41	3.27e-03	2.49
54.	bez osłonek	4	0	4	15422	4434	10992	15426	4430	10992	1.15	2.85	6.82e-03	2.17
55.	oficjalnie	4	0	4	15422	4434	10992	15426	4430	10992	1.15	2.85	6.82e-03	2.17
56.	nieelegancko	4	0	4	15422	4434	10992	15426	4430	10992	1.15	2.85	6.82e-03	2.17
57.	naukowo	4	0	4	15422	4434	10992	15426	4430	10992	1.15	2.85	6.82e-03	2.17
58.	czytelniej	4	0	4	15422	4434	10992	15426	4430	10992	1.15	2.85	6.82e-03	2.17
59.	ostrożnie	70	1	9	15420	4434	10992	15426	4429	10991	1.72	4.28	8.94e-03	2.05
.09	innymi słowy	11	-x	19	15407	4434	10992   15426	15426	4423	10984	5.46	13.54	9.00e-03	2.04

Explanations: see tab. 2.

'more broadly', szerzej 'more broadly', w cudzysłowie 'in quotation marks', szczegółowo 'in detail', and innymi słowy 'in other words'. Depending on the context of their usage and the specific communicative goal, these words and phrases can serve dual functions. Słowami, innymi słowy, or w cudzysłowie tend to introduce varying degrees of clarity or precision in the upcoming message, while ogólniej and szerzej often impose a broader or summarized perspective on the following information.

The ranking list also includes ACs such as *kolokwialnie* 'colloquially', *potocznie* 'informally', *po ludzku* 'in a human manner', *zwyczajnie* 'commonly', *po naszemu* 'in our way', *nieładnie* 'rudely', *po polsku* 'in Polish', and *nieelegancko* 'inelegantly'. The primary function of these words and phrases is to signal that the upcoming message will be delivered in a relaxed, approachable, or colloquial atmosphere, thereby creating a sense of closeness and approachability between the speaker and the audience.

Finally, among the distinctive collexemes of this construction, there are *oględnie* 'cautiously' and *ostrożnie* 'cautiously' at ranks 17 and 59. These words are used when the speaker wishes to address sensitive topics with care, aiming to avoid explicitness, directness, or confrontation. They play a crucial role in maintaining a polite and considerate tone during communication, thereby minimizing the risk of causing offense or misunderstanding.

## 3.2. Findings for the AC-mówiąc-construction

Table 4 displays the results of the distinctive collexeme analysis for the most strongly attracted collexemes of the AC- $m\acute{o}wiqc$ -construction, compared directly with the  $m\acute{o}wiqc$ -AC-construction. Surprisingly, these are the only distinctive collexemes for this construction, as all other ACs occur more frequently than expected in the  $m\acute{o}wiqc$ -AC-construction. Notably, prawde 'truth' emerges as the most distinctive collexeme for the AC- $m\acute{o}wiqc$ -construction. This is supported by the exceptionally high log transformation of the p-value (2.59e-241), resulting from the Fisher exact test for this noun, which stands at 240.59. Furthermore, upon comparing the observed values with the expected ones, it becomes evident that prawde occurs more frequently than expected by chance in the AC- $m\acute{o}wiqc$ -construction compared to the  $m\acute{o}wiqc$ -AC-construction<sup>5</sup>.

 $<sup>^5</sup>$  Note that the p-values for *generalnie*, *ściśle*, and *najłagodniej* are greater than 0.05, and their collostruction strength is below 1.301, meaning they are not statistically significant under the typical threshold of p < 0.05, where values above 1.301 indicate statistical significance. However, they remain distinctive in the AC-*mówiąc* construction

 Table 4. The twelve most distinctive collexemes of the AC-mówiąc-construction

pre	710	ä	С	е	f	X	y	Z	þ	q	(a)	(c)	p-values	coll. strength
	prawdę	24	1789	1813	13613	4434	10992	15426	4410	9203	521.12	1291.88	2.59e-241	240.59
na	nawiasem	49	1525	1574	13852	4434	10992	15426	4385	9467	452.43	1121.57	3.16e-170	169.50
krć	krótko	344	1826	2170	13256	4434	10992	15426	4090	9166	623.74	1546.26	5.78e-51	50.24
SZC	szczerze	384	1786	2170	13256	4434	10992	15426	4050	9206	623.74	1546.26	3.49e-37	36.46
ina	inaczej	301	1251	1552	13874	4434	10992	15426	4133	9741	446.10	446.10 1 105.90	8.78e-19	18.06
włę	właściwie	1	129	130	15296	4434	10992	15426	4433	10863	37.37	92.63	7.01e-18	17.15
ści	ściślej	72	320	392	15034	4434	10992	15426	4362	10672	112.68	279.32	1.88e-06	5.73
del	delikatnie	160	588	748	14678	4434	10992	15426	4274	10404	10404 215.00	533.00	3.34e-06	5.48
lek	lekko	0	11	11	15415	4434	10992	15426	4434	10981	3.16	7.84	4.10e-02	1.39
ger	generalnie	7	32	68	15387	4434	10992	15426	4427	10960	11.21	27.79	1.58e-01	0.80
ści	ściśle	28	93	121	15305	4434	10992	15426	4406	10899	34.78	86.22	1.90e-01	0.72
naj	najłagodniej	4	11	15	15411	4434	10992	15426	4430	10981	4.31	10.69	6.65e-01	0.18

Explanations: see tab. 2.

Prawdę mówiąc 'to tell the truth' and szczerze mówiąc 'honestly speaking', ranked 1 and 4, are employed to introduce statements characterized by veracity and integrity, emphasizing the speaker's commitment to truthfulness and sincerity in their forthcoming discourse. Nawiasem mówiąc 'incidentally', ranked 2, in turn introduces a parenthetical remark somewhat related to the main topic 'Krótko mówiąc 'to put it briefly', ranked third, is used to indicate the speaker's intention to summarize or provide a concise version of a longer explanation. The next lexeme is inaczej 'diferently' at rank 5. When employing this phrase, a speaker signals the intent to provide an alternative explanation, primarily with the aim of fostering a clearer understanding of the subject matter.

The ranking list of distinctive collexemes for the construction in question includes three ACs that denote different degrees of precision in communication. Ranked 6th is *właściwie* 'actually', followed by *ściśle* 'strictly' at 7th and *ściślej* 'more strictly' at 11th. These lexemes, combined with the participle *mówiąc*, are used to introduce more precise statements, stressing the importance of accuracy and strict interpretation. There is also one lexeme, *generalnie* 'generally' at rank 10, which can be used to make broad or sweeping statements that apply to a wide range of situations or instances.

Lastly, the lower portion of Table 3 encompasses ACs that are typically employed when the speaker wishes to temper their language, mitigate potentially harsh or critical statements, or delicately approach a topic. *Delikatnie* 'delicately', ranked 8th, holds the highest position among the lexemes within this functional category, followed by *lekko* 'lightly' at rank 9 and *najłagodniej* 'most gently' at rank 12.

## 4. Concluding remarks

This study unveils substantial dissimilarities in the functional and structural constraints imposed on the ACs permissible within each construction. The *mówiąc*-AC-construction does not collocate with *lekko* 

when compared to the *mówiąc*-AC construction. Therefore, they are presented in Table 4 to highlight the differences between the two constructions.

<sup>&</sup>lt;sup>6</sup> In this study, constructs such as *nawiasem mówiąc* or *krótko mówiąc* can generally be treated as parentheticals, as they introduce supplementary comments that are related to, but not essential for, the main sentence. These parenthetical remarks can be marked by punctuation or shifts in tone and serve to provide additional context or side information. However, defining parenthesis is complex, as many expressions can function in similar ways, making it important to distinguish them from other structures like parataxis or embedded clauses.

and is relatively rarely used with prawdę, nawiasem, and właściwie. On the other hand, the construction does manifest a strong tendency to occur with językiem, żargonem, wprost, obrazowo, w skrócie, prościej, poważnie, serio, słowami, kolokwialnie, w uproszczeniu, po prostu, bez ogródek, ostrożnie, and many others. Thus, its primary function in discourse is to emphasize the use of domain-specific jargon or terminology, clarify and simplify complex ideas, and enrich and embellish the discourse by adding figurative language, rhetorical devices, and stylistic elements. Additionally, it is used to emphasize seriousness, directness, or candor in communication, provide additional explanations, clarifications, or summaries, establish a relaxed, approachable, or colloquial tone, or address delicate or sensitive topics with care and caution.

In contrast, the AC-mówiac-construction is employed to emphasize truthfulness, introduce parenthetical remarks, summarize points, provide alternatives, enhance precision, make broad statements, or temper language. This construction is notably selective in its choice of ACs. It does not occur with terms such as słowami, bez ogródek, żargonem, w przenośni, banalnie, pół zartem pół serio, jaśniej, and several others. Furthermore, it is infrequently used with expressions like językiem, wprost, serio, w uproszczeniu, po prostu, precyzyjnie, prosto, skrótowo, fachowo, dosadnie, żartem, and several others. However, the construction does exhibit a strong preference for specific ACs, including prawdę, nawiasem, krótko, szczerze, inaczej, właściwie, ściślej, delikatnie, lekko, generalnie, ściśle, and najłagodniej. Notably, the first five lexemes (prawdę, nawiasem, krótko, szczerze, and inaczej) account for the bulk of ACs in the AC-mówiqc-construction, making up a total of 8,177 occurrences within this specific construction. Consequently, this underscores the rationale for considering these expressions not merely as constructs, instances of the construction in question, but as distinct constructions in their own right. Their exceptional frequency and highly conventionalized usage have established them as the customary choice for a specific communicative context through repeated usage, thereby confirming their status as established linguistic units.

Both constructions can be seen as specific subtypes of the *mówiąc* construction, which in turn instantiates a metatextual construction, a construction that comments on or modifies the text itself, giving the speaker a way to signal how the message should be interpreted. The two distinct meanings of these constructions can be inferred from their typical uses. AC-*mówiąc* typically introduces a statement that reflects the attitude or perspective the speaker adopts in delivering the message; hence, it often signals the speaker's intent to be honest, concise, or candid in their communication. In contrast, *mówiąc*-AC specifies how the speech is delivered,

often emphasizing the style, mode, or manner of speaking. Thus, it relates to the form, clarity, or rhetorical style of the communication. These specialized meanings are grounded in the general concept of metatextual commentary, where the speaker's language itself is being used to guide how the listener should interpret the following discourse.

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