

PROSODIC PHRASE IN SPOKEN CZECH

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Prosodic Phrase in Spoken Czech

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FOREWORD

The monograph *Prosodic Phrase in Spoken Czech*, which you are beginning to read, has been dreamt of for decades. Thirty years ago, the then Director of the Institute of Phonetics in Prague advertised her personal plans for such a book. She claimed that the topic of prosodic structure was undeniably interesting, attractive even outside phonetics, and, quite importantly, there was absence of anything in this vein for the Czech language. Informal discussions at various academic gatherings have confirmed that a treatise of this sort was needed not only by phoneticians, but also by many other people who were interested in the sound patterns of Czech, whether for technological use in speech synthesis and automatic speech recognition or for didactic, forensic, therapeutic and other purposes. Overwhelmed with other duties, she never wrote the book.

The current authors joined their capacities to materialize the plans, at least partially. Although they definitely aspired to produce a useful treatise, they were not motivated by any specific technological applications. Those have grown dominant across scientific activities far and wide: commercialized societies have become reluctant to see the sheer joy of discovery as a true value. Yet, the desire to discover and the ability to revisit existing knowledge reach above and beyond consumerism. How magnificent it would be to replace the current plundering of the Earth's wealth with admiration for it! The authors of the present book believe that the complexity of every aspect of our lives deserves thorough study, and that the resulting knowledge should be shared.

Naturally, there needs to be demand for knowledge. The trouble is that when it comes to language, everybody 'has an opinion'. All humans typically use language to communicate, and many believe, by extension, that they are experts on language even if they never trained anything but spelling rules. One has to wonder if there is any scientific field more plagued with dilettantism and ignorance than linguistics.

These words sound perhaps a bit too harsh. Not everyone chooses ignorance willingly and deliberately. And it is only very recently that people have started accepting the fact that there is a massive gap between what we are able to capture by our limited conscious circuitry and what our whole brains really do. The way we are currently able to describe language analytically is not the way language really works. Recent research in adaptive, implicit thinking has brought evidence that we do not realize how

we function: how we process what we sense and how we plan our actions. Our consciousness cannot capture what we really feel before it is censored by various mental mechanisms. Yet, all this is extremely relevant to linguistics, and this is also why we currently witness a powerful shift from speculative to empirical methods.

Less self-satisfaction and more patient work are becoming typical for linguists. For instance, old introductory manuals used to amaze students with the claim that a finite number of small elements can be used to create an infinite number of utterances. We can leave the practical impact of this dazzling claim aside, but one thing is clear. It obscures the fact that people do not use infinite numbers of utterances in their everyday lives. This is because what we communicate is strictly grounded in what we live. Huge numbers are not infinity. The infinitely rich inner world of an immortal being is one of the pompous anthropocentric myths.

Therefore, let us focus with modesty on limited samples of true attempts to communicate. The seemingly pleonastic word 'spoken' in the title of this book was used purposefully: we wanted to emphasize that we do not estimate prosodic phrasing from written text as some scholars did in the past. Neither do we use invented contextless sentences where the communicative intent of speakers may be dubious or completely absent. On the other hand, we do not dare to use recordings of spontaneous conversations as yet: those are difficult to obtain legally, and they are difficult to analyze in our current linguistic framework. We opted for spoken texts that are produced with legitimate communicative intents and, yet, provide manageable and dependable data. We hope this approach may help us as authors and you as readers to find a way from biased or circular discussions towards the joy of discovery adequate to the times we live in.

Prague, August 2023

The Authors

1.
SPEECH
PROSODY

1.1 RATIONALE

The value of language communication has been most probably appreciated already in pre-history. Even before people started recording their thoughts, important contracts, laws or observations in writing, they must have realized how important their speech behaviour was. From sheer admiration for the power of speech (often explicated as a magnificent gift from gods) people gradually moved to systematic observations, disciplined descriptions, and rigorous experimenting, i.e., to scientific treatment of speech. This approach embraced writing as well and, inevitably, the system that governs both of these communication means – language.

There is currently little opposition to the claim that language communication should be studied scientifically. Even though language use is omnipresent and quite pervasive in our everyday lives, when considered thoroughly it can hardly be seen as trivial. Unfortunately, there is still the awkward legacy of the past, by which linguistics is sorted into ‘less precise’ or ‘less scientific’ disciplines. However, this primordial figment is nowadays either just a superficial feeling of someone who has no capacity for deeper critical thinking or an unfair excuse in the relentless fight for resources in the current system of science financing. Be that as it may, modern linguistics can offer very interesting insights into the functioning of language. Phonetics, which is ultimately by its goals a linguistic discipline, has been doing so beyond any doubt.

One of the serious problems with the credibility of the past linguistics was the claim that human language is ‘utterly unique’ and, therefore, can be explained only from itself. This type of mysticism, within which scholars *a priori* decide not to see any connections with other communicative systems and not to seek any compatibility with other scientific disciplines, was self-destructive. Fortunately, it was prevalently abandoned before it made linguistics completely socially irrelevant. Most current linguists do not shy away from testing their hypotheses with methods that originated in psychology, neurophysiology, ethology, sociology, etc. In addition, a powerful boost to linguistic theories has been provided by the increased possibilities of cross-linguistic research.

A brief but patent example of the above-described developments can be found in the following quote: “... there are differences in delta responses across languages

due to the different usage of stress. In English and German, for example, phrasal responses are emphasized but in French, syllabicity remains dominant.” (Ghitza, Giraud & Poeppel, 2013). The authors carry out cross-language comparisons and they use neurophysiological correlates of perceptual processes. The underlying message indicates that prosodic structure is of relevance. The phrasal responses mentioned in the quote are especially relevant to the chief topic of the present book. They point to a speech unit that, under various names and with various attributes across languages, seems to be always somehow present in the hierarchical structure: the PROSODIC PHRASE.

Already in 2001, Chafe observed that prosodic phrases in his corpus of conversational speech were “typically one to two seconds long”, which to him was about the span of active consciousness. He also proposed semi-active consciousness for contextual information, but claimed that attention can only be devoted to smaller chunks of information (Chafe, 2001: 675). According to him, this ‘information packaging’ is essential for smooth speech processing by interacting individuals.

Two decades later, LaCroix and her colleagues listed a large number of studies that had resulted in the inference that “typical sentence prosody yields faster and more accurate sentence comprehension performance than atypical prosodic patterns” (La-Croix et al., 2020: 2). Their own experiment with brain-stroke patients and a group of typical language users added valid evidence to the claim.

Nowadays, it is widely accepted that division of larger stretches of speech into prosodic phrases is critical for effortless mental processing and, ultimately, even for correct recovery of intended meanings of spoken texts (be it the representational, conative, or affective components of the communicated messages). Individuals who intend to talk about objects and events of the surrounding world must always select only a limited choice of aspects to talk about at a time, while ignoring or backgrounding others. This is because taking all possible observables into account at once would be beyond human cognitive capacities and, also, beyond the potentials of natural language. Prosodic structure contributes to the process of focusing the addressee’s attention on those aspects of reality that need to be communicated at the given moment, and provides a particular perspective on the state of affairs (in line with the personal intents of the speaker). Prosodic phrases – the central object of study in this monograph – belong among the devices that speakers use to guide listeners through spoken texts to desired conclusions.

From today’s perspective, it would be quite naïve to imagine that listeners analyze linear flows of small units (phonemes, syllables) and glue them in their mind together to compose units that are meaningful. Phonemes and syllables need to be seen as mere features of meaningful items, and their qualities and positions only serve to recognize those meaningful objects as wholes. As long as these wholes fit into the given situation, they do not need to be analyzed into their parts. People do not have to focus on the exact qualities and the precise positions of ‘features’; in fact, if they did, speech communication could not have developed into the fast process that it is. Recent development in this research area suggests quite convincingly that we even do not necessarily assemble our utterances from individual words. There is evidence from various sources

(e.g., young infants, aphasic patients, motoric patterns in typing, eye movement in reading, etc.) pointing to the use of **MULTI-WORD UNITS (MWU)** and the holistic storage of those in our brains (Lin, 2018: 48 and 53; Ellis, 2003: 75). It is hypothesized that speakers provide various cues about the boundaries of such meaningful units as they plan their utterances in them.

Although the above are various general conclusions based on empirical findings, Kohler emphasizes that there are profound differences in speakers' proficiency concerning phrasing (Kohler, 2018: 147). In other words, speakers are more or less adept at grouping words together in a way that is transparent and easy to follow for listeners. Kohler links the dexterity in prosodic phrasing to the more general cognitive skill of argumentation and perhaps even logical thinking. He demonstrates how, first, the placement of a boundary and, second, the relative strength of a boundary (expressed by means of prosodic markers) may influence the perceived information structure in the spoken text. The past decades produced quite a large number of studies that experiment with such semantic ambiguities. For instance, the following string of words forms an ordinary Czech sentence:

Czech:	<i>Dá se</i>	<i>tam</i>	<i>volat</i>	<i>v sobotu</i>	<i>a</i>	<i>v neděli</i>	<i>večer</i>
English:	<i>It's possible</i>	<i>there</i>	<i>to telephone</i>	<i>on Saturday</i>	<i>and</i>	<i>on Sunday</i>	<i>evening</i>

We demonstrate two different prosodic boundary placements that result in two different interpretations of the proper time for making the telephone call. If the phrasal boundary is placed as follows:

Dá se tam volat || v sobotu a v neděli večer,

the intended meaning is that the phone call is possible on both days always in the evening.

On the other hand, if the phrasal break is in the following position:

Dá se tam volat v sobotu || a v neděli večer,

the phone call is possible the whole day on Saturday, but on Sunday only in the evening.

Of course, it would be unwise to restrict linguistics only to such ambiguities. Even if the meaning is clear, but difficult to understand, language communication suffers. Excessive effort on the part of the recipient projects far beyond just a single utterance meaning. Struggling recipients are less likely to cooperate with the speaker, less likely to even trust the speaker, and unlikely to proliferate any positive feelings both within and outside the conversation.

Whether we focus on completely misleading outcomes or just cumbersome speech processing, it is unquestionable that the prosodic phrase is an important element of prosodic structure and of communication in general. As such, it deserves attention of anyone who is interested in human language. This book is our response to the demand.

1.2 DEFINING PROSODY BY FORM AND FUNCTION

Define your terms if you wish to converse with me, an enlightened thinker once allegedly said. Indeed, it is impossible to discuss problems with someone who ascribes unknown meanings to his or her words. Ideas can only be effectively examined if the discussants follow a common path, if one person's reaction to the other person's thought matches as much as possible the intended meaning. In other words, ideas and reactions to them must 'meet in a shared space'. There is a lot to discuss in the field of prosody research. What is prosody of speech, then?

This is a question that researchers in prosody do not particularly like. Not that it is uninteresting. On the contrary, if discussed by experts it often leads to exciting interactions. However, people who ask the question in this simple form usually expect a simple answer. Such an answer, regrettably, does not exist. If we try to provide an uncomplicated answer, substantial parts of the truth may remain unspoken.

Three types of definitions are heard most often: definition by negation, definition by parallel, and definition by listing.

The definition by negation is very common in communities that use alphabetic orthographies. In such communities, young children discover very early in their lives that individual letters of their alphabet refer to specific little sounds. Enormous care devoted to these little sounds at schools (even at pre-school establishments or within families) results in the idea that language consists only of those. They are highly activated in people's minds, while the larger sound phenomena remain produced or perceived with little explicit awareness. Relying on the common knowledge of little sounds represented by letters of the alphabet, speech prosody is then explained as 'everything in speech that is not represented by the letters of the alphabet, e.g., by phones or segmental phonemes'. (It should be added that this 'everything' is meant as communicatively functional sound phenomena.)

The definition by parallel exploits another known concept: that of music. Since music plays a very important role in human communities, it can be put forward as analogous with speech. Prosody is then explained as an aggregate of all the phenomena that speech shares with music: melody, rhythm, tempo, timbre and loudness.

Definition by listing skips the analogy with music and relies on the common knowledge of prosodic phenomena. The list might then be virtually the same as the above, i.e., melody, rhythm, tempo, voice quality patterns and distribution of loudness, or it might list some of the partial phenomena on their own. This is often the case of stress, which can be studied on its own but is an essential part of rhythm.

An interesting approach is taken by Nespor and Vogel (1983), who begin their consideration of what prosody is by listing various prosodic units. Their list comprises: "rhyme, syllable, foot, phonological word, phonological phrase, intonational phrase, and utterance" (Nespor & Vogel, 1983: 123). At this point, we can leave aside the question whether the syllabic rhyme (referred to as RIME here; see Section 2.5) is too artificial and whether prosody forms any structures above the utterance. What needs to be noticed is that by listing these units, Nespor and Vogel do not feel any further need

to define what prosody is. They say that whatever happens within these units and is explained with reference to these units is prosodic. That is a combination of listing and implicit negation, which leads to a conclusion that anything above the segment is prosodic.

There are scholars who may claim that certain prosodic phenomena are only supra-lexical. This claim may simplify certain definitions but ultimately leads to trouble. On the one hand, it can differentiate the prosodic from the suprasegmental, for whatever reason felt as practical. On the other hand, if lexical stress can be materialized through melody (which it obviously can) and melody is ousted into the supralexical domain, we are trapped. However, if we realize that the natural use of language is actually supralexical (and this cannot be contradicted by the existence of one-word utterances), then the whole argument becomes quite unattractive. Indeed, we typically speak and write in utterances (see Section 2.1).

At this point, we could perhaps mention a colourful suggestion by Nick Ellis: “If words are the atoms of language function, then construction grammar provides the molecular level of analysis” (Ellis, 2003: 65). To elaborate on this figure, we could ascribe the phonemic level to atoms (and distinctive features to elementary particles), morphemes would be molecules, words could be cells, and utterances complex organs. Texts would then constitute organisms. Whether this simile is helpful or, on the contrary, confusing, can be decided by each reader individually. In any case, the prosody of speech (which we automatically project into written texts when reading) helps us to make sense of the intricate structures.

The last sentence of the preceding paragraph already invokes functions of prosody. Although it is easier to explain what speech prosody is by its appearance (i.e., form), the definition by function should be attempted as well. In the end, it is the function of things that makes them valuable.

In short, prosody serves to communicate meanings. This statement, however, is too vague and applies to segmental phonemes as well. Yet, even within this short proposition, there is a point to emphasize: linguistic functions should always be related to communication. Thus, if an author claims that the function of prosody is to create prominences and breaks, it is only true in the very general sense assigned to the word function. In the context of linguistics, however, such a statement would be misleading. Prominences and breaks are **PROSODIC EVENTS OR MEANS** to fulfil (communicative) functions.

There have been many disparate attempts at listing the functions of prosody. They always reflect the frameworks within which their authors work and the purpose for which they were made. Ours will be no different in this sense. One of the many sources of our inspiration goes back almost a century to Karl Bühler (1934), who studied speech and language from the psychological point of view. He suggested that although the **REPRESENTATIONAL COMPONENT** of the meaning in language signs is the most obvious one, and hence might be considered primary, the **AFFECTIVE** and **APPLICATIONAL COMPONENTS** are nevertheless always present in utterances and, therefore, must be taken into consideration in any attempt to discuss language in more than

a fragmentary manner. For the sake of presentational clarity, the general cognitive supra-function (to serve the comprehension of the intended meaning) can be organized into various categories. In the following paragraphs, we will present our understanding of the affective function, discourse function, grammatical function, sociophonetic function, aesthetic function and lexical function.

The phylogenetically oldest function is the AFFECTIVE one. Affective processes can be observed also in non-human animals. They are adaptive evaluations that according to their strength, timing, and other parameters can be classified into emotions, moods, interactive stances, attitudes, and affective personal characteristics (Scherer, 2003). The affective component of meaning is present in all utterances with greater or smaller explicitness. Humans always signal their evaluations of the topics they talk about, of the addressees, or of the situations they are in. Even the so-called neutral style (which is extremely rare in real life) displays an implicit affective component: “I don’t want to share my evaluation with you”. If used, it is usually to keep distance between the speaker and the recipient(s). It is sometimes claimed, for instance, that lectures are presented without affective components, but we argue that good lecturers always display their involvement in the presented issues and their feelings about various aspects of their talk. If a lecturer is disinterested or monotonous, he or she displays clear negative inner evaluations. Prosody plays a key role in signalling affective processes, hence the common phrase “It is not what you said, it is how you said it”. The affective function is sometimes labelled as attitudinal and sometimes as paralinguistic. The latter term is quite unfortunate, since it cripples our understanding of what the basis of language fundamentally is. By suggesting that the “how you said it” should be relegated outside of linguistics, one would strip the language of its essential core and make linguistics dangerously detached from reality.

Bühler’s ‘Appell’ (1934) evolved in other traditions into an illocutionary force (Austin, 1962) from which we derive the applicative or conative component of utterance meaning. It refers to what the speaker wants to achieve through speaking. The reason why certain things are uttered is not necessarily obvious, and even the speakers themselves may not know why they are using certain discourse devices. This is because they often plan their speech production implicitly and the true motivations for certain lexical, syntactic and prosodic choices may stay hidden to their conscious mind. However, it is generally presupposed that healthy individuals act purposefully, even if the purpose is not accessible to their conscious observation. What should be achieved by individual utterances is related to the DISCOURSE FUNCTION of prosody.

Since human intentions and motivations are immensely varied, the discourse function is difficult to circumscribe. In the narrow sense, it is defined as managing solely the spoken interaction. By certain prosodic forms, the speaker can express what he or she expects from the recipient. Prosody may signal a wish to receive more information, to elicit the recipient’s opinion, to ask for approval, to give permission to talk, etc. The speaker does not have to use explicit words for that. Consider the following exchange.

A: You may need my ID card, though

B: OK (↗)

The expression *ok* is used for acceptance in this case, but pronouncing it with rising intonation is likely to be interpreted in the sense of *Could you explain why exactly?* Prosodic information itself performs the function of several hypothetical words.

Although this narrow understanding of discourse function seems to be currently quite common, we should still consider some wider interpretations. One of them includes the accentual capacity of prosodic cues. The fact that certain semantic components of an utterance can receive special prominence suggests a different form of discourse management. This time it is not just what to say next, but also how to think about what is being said. Prosodic means provide a functional perspective on the spoken contents (*cf.* Firbas, 1992). By accenting and deaccenting, certain words are put forward to the recipient as referring to the previous co-text or to supposedly known facts, while others are presented as new pieces of information in the given utterance.

The recipient of an utterance is led to specific mental processing of its lexical content. It is as if the speaker, apart from the individual words, said simultaneously over each part of the utterance: “This is something/someone I believe you know/expect” or “This is something/someone I believe you don’t know/expect.” This simultaneous work is achieved by prosody since, clearly, verbal commenting would be highly impractical or cumbersome at the very least.

To make the interpretation of the discourse function even wider would probably be too bold at this point. However, let us consider at least the direction in which it would lead. The scientific disciplines of discourse analysis (DA) and, especially, critical discourse analysis (CDA) are founded on the fact that spoken and written texts which humans produce serve to organize their communities, their institutions, their whole lives. Utterances are spoken to either maintain a certain state of affairs, or to change it. If this fact is included as a defining one into the discourse function of prosody, then it would overlap with the conative component of the communicated meanings. Apart from managing the recipient’s behaviour in the speech interaction and directing his or her thoughts, it would also manage the recipient’s behaviour and feelings after the interaction ends.

The danger of this wider concept lies in its vagueness. To link the prosodic cues with what a person does or thinks after receiving a spoken message would often require too much speculation, which might no longer be compatible with the current requirements on empirical research. Still, it is something that should be not only considered, but also tested. Then, perhaps, the speculative aspect may be reined in, at least to a certain extent.

The GRAMMATICAL FUNCTION of prosody seems to be much less controversial. There is a long tradition of research into correspondences between grammatical categories and prosodic structure. A well-known example is the differentiation between statements and questions, especially in languages where other markers may be missing. Czech is one of such languages: plain statements and polarity questions (also referred to as yes/no questions) may use identical strings of words. In writing, the question mark is used to disambiguate the two meanings, while in speaking there are specific melodic patterns that serve this purpose. However, the issue is far from simple

since there are various types of questions and even in the case of polarity questions the grammatical function regularly combines with the affective and discourse functions; that may result in melodic patterns which deviate from those derived from abstract grammatical categories.

Apart from the grammatical type of an utterance, prosody can and often does signal the syntactic structure of longer constructions. Prosodic phrases coincide with various syntactic constituents (see also Section 2.3 and 4.3). A special case of syntactic delimitation is that of parenthetical units. When speakers want to supplement their main message with a background comment on an item within the message, they may not only separate such a comment in its own prosodic phrase, but they may also produce the phrase with faster tempo, lower loudness, lowered pitch range and possibly some other cues like greater breathiness or nasality.

The grammatical function of prosody may, in a certain sense, be also seen as related to one aspect of various word-level prominences. In many languages, prosodic prominences have been observed to differentiate between word-class groups in the lexicon or, more precisely, between the semantic supra-classes of autosemantic (content) and synsemantic (structural, function) words. This division of lexical items may be reflected by enhanced or reduced prominence, respectively; in other words, content words are often realized as more prominent (for example, louder or higher in pitch) than function words (see Section 2.4 for more detail). Again, the situation in authentic communication is complicated by the frequency of occurrence of individual words, their information status and the affective component of utterance meaning.

The **SOCIOPHONETIC FUNCTION** is sometimes branded as extralinguistic. Let us consider the issue. Certain prosodic markers (for instance, specific melodic patterns or voice quality features) are linked with the speaker's membership of a social group. These groups can be of different sizes and levels of abstractness (and subsequent precision in their delimitation). They may be defined geographically, culturally, economically, biologically, etc. If the speaker is unaware of their group membership while selecting forms for his or her utterance, then, indeed, the sociophonetic markers act extralinguistically. If, however, the speaker wants to suppress or emphasize his belonging to a community, then he or she uses the sociophonetic markers linguistically. This is because language is a system to communicate all sorts of meanings, not to build grammatical items. Extralinguistic or not, the sociophonetic function is definitely relevant in speech communication. Moreover, it is invaluable in terms of current requirements on the applications of linguistics, for instance in the speech synthesis of socially or regionally defined variants or in the field of forensic phonetics.

The sociophonetic function is also labelled as **INDEXICAL**. Prosody provides indices that characterize an individual; in other words, by using specific prosodic patterns we index various aspects of our social identity. Since people are social beings, their membership in various groups provides an essential set of descriptors. The term **indexical**, however, covers one additional aspect: that of idiosyncrasies in speech. There are specific features, or rather combinations of features that are particular only to a given speaker. They can be used to identify just him or her.

Vážení čtenáři, právě jste dočetli ukázkou z knihy ***Prosodic Phrase in Spoken Czech***.
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