



**Figure 2.** Result – "Incorrect text input!"

**Results of the research.** We have analyzed the quality of the software application, the text processing and highlighted the prospects for its development.

An algorithm must be developed to create a list of tokens missing from the database. The developer will be able to analyze it and find the words that can expand the base among the wrong word forms. This way the program will work more precisely with a focus on active vocabulary.

**Conclusion.** Further research may be related to creating an application which will replace the wrong wordform with the correct one. To do this, we need to add to the database all forms of available tokens, forming a complete paradigm for each word.

Another option for writing syntax is machine learning. Machine learning algorithms require samples of a huge amount of *User Stories*, so that we should create a system that can collect these syntax constructions. As a result, one can expect a new, improved training data base to be developed.

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## SYMBOLISM OF NUMBERS IN UKRAINIAN CULTURE

**Introduction.** Numbers have always been widely used in Ukrainian culture. The number has a unique symbolic character, it has its sacred, mythological and cultural meanings which can give us an insight into the culture of our ancestors, to restore a holistic view of the world, to determine the values which characterize Ukrainian people ethnicity.

**Review of recent publications.** Many linguists have researched the symbolism of numbers, for example V. Voitovich, T. Lukinova, O. Potapenko and many others.

**Objective of the paper** is to explore and analyze the symbolism of numbers in Ukrainian culture.

**Results of the research.** Deep symbolism in Ukrainian culture has always had the numbers from 0 to 13, and 40.

**Zero** means a space or infinity. It symbolizes the indivisible world as a kind of Space Egg, combining two basic elements: male and female, fire and water. Due to their combination there is a connection between the worlds.

**One** means a core from which “left and right”, “top and bottom” are to some extent opposed. The center of the Universe is the Sun, which is a unique star. One stands for the words like *original, supreme, divine, royal, princely*. A special place in the life of the Ukrainians has always belonged to the ordinal number *the first*. Undoubtedly, its symbolism originates from the sacred number *one*. Special attention has always been paid, for example, to the *first* sheaf harvested on the field, the *first* fruit from the tree, and of course to the *first* child in the family. This “*first*” has been endowed with magic power ... Thus, in some regions of Ukraine the mother is not the first to feed her baby, but another woman who has already fed her baby ... There is also a custom to haircut girls on their first anniversary [1: 23-24].

**Two** means a couple, duality, contrasting to one odd, increasing, fragmentation, dependence, visibility; it is considered as dangerous, a devilish figure, and is associated with death. Double or dual items could, according to some beliefs, bring misery and death. Correspondingly, if number *one* symbolizes the center, *two* signifies oblong form.

*Two* is the first number after *one*, and therefore also symbolizes sin, bewitchment, and feminine. It is also the symbol of the earth. A pair of animals, for example, two lions or a lion and a bull (both are sunny) means doubled power. In Ukrainian fairytales, two pigeons are an eternal symbol of purity, faithfulness, God’s spirit, which unites the souls of the boy and girl to purify themselves for their life in the world. The concept of twins is also correlated with something extraordinary, and is considered as a predictive sign, often threatening. Hence, there is an archaic custom to expel, kill, or sacrifice one or both twins. The demonic nature of dualism is manifested in the beliefs that the devil and other evil spirits can be defeated only with one blow: if hit for the second time, it will again be alive and even doubled [2: 373].

**Three** means the “whole world” towards the sky; the set of the upper, the

middle and the lower kingdoms; sky-earth-water; morning-day-night; father-child-mother, childhood, youth-maturity, old age. Number *three* includes understanding of the unity and struggle of opposites. An old proverb says: “One son is not a son; two sons make only half of a son, and three sons make a real son”. Two sons represent only a natural reproduction of their father and mother, and only the third one becomes a new branch for family tree, a spiritual fruit will grow, and the path to the third dimension will be opened. The magic of number *three* has its own laws. When a person dies, the God takes their soul to Heaven on the third day. In magic spells one of three plants, creatures, or substances is often the major magic thing, and the other two only accompany.

**Four** means earth, integrity, completeness, justice. There are also four sides of the world; four states of life: morning, day, evening, night; spring, summer, autumn, winter; childhood, youth, maturity, old age; four phases of the Moon, four walls, four corners; four ends in the cross. A magnificent rhombus crossed into four sections on the background of miniature female figures of the times of Trypillian culture is a symbol of fertility.

**Five** means the human microcosm, the integrity of human existence. The symbol of the sacred matrimony of the Earth and the Sky, since it includes the sum of female (paired) number two and male (odd) number three. It symbolizes self-knowledge, peace, meditation, versatility. A five-pointed star means a spiritual balance, and when it is turned upside down it is a symbol of magic and black magic. Researchers believe that number *five* is associated with the god Veles, because predictions of his priest-wizards come true in “the *fifth* summer” [3: 584].

**Six** means balance and harmony. Ancient wise men considered it the perfect number, because  $1 \times 2 \times 3$  and  $1 + 2 + 3$  equally give 6. It is the most prolific of all numbers. These are two intertwined triangles. One of them, when turned upwards, symbolizes the masculine, fire and heavens, and when turned down stands for feminine, water and earth. *Six* means love, health, beauty, and good luck.

**Seven** is the divine number of the Universe. It includes number *three* as the symbol of heavens and soul, and number *four* as the symbol of the earth and body. It symbolizes the image of Perun (the god of lightning and thunder). A child up to seven years old is an innocent soul, as old people say, angels surround the child, and therefore, one should not remember the devil in the company of such children. According to the ancient tradition, the name given to the child was kept in secret until seven years old, so that an evil person would not harm the child. And at seven years old the child had the ceremonial haircut, and a real name was divulged [3: 585].

**Eight** in the spiritual sense is the path, passed through seven steps of heaven to the intended purpose. It is believed that perfection can thus be achieved. Eight is a double cross, the “throne of the Lord”. On the eighth day spiritual self-perfecting comes after seven days of fasting and repentance. The eighth day gives birth to a new person.

**Nine** includes number three three times, which means authority, higher spiritual power. This is the number of heavens and angels. For nine months mothers bear their child, and the god Perun especially cares for the family with nine children. Nine days

and nights are needed to comprehend human wisdom. According to the Scythians beliefs, the place of the souls' underground residence is fenced with nine gates.

**Ten** is the sacred number of the Universe, because it includes all above-mentioned numbers. It is a perfect number, because it means returning to integrity. It symbolizes the Tree of Life, and the Sun dances in around it.

**Eleven** means sin and danger. Since number *ten* is sacred, then the following number symbolizes the violation of its perfection.

**Twelve** means the universal and at the same time the spiritual structure. This is the number of Zodiac signs and months of the year (six male and six female). In the cult of Mokosh-Pyatnitsa there is a belief in 12 Fridays in the year and in a special Friday calendar. 12 dishes were also cooked for this holiday. In the New Year's ritual number 12 often can be met: 12 "elders" who run the ritual, 12 sheaves which may predict a future harvest; water from 12 wells for fortune telling, a sacred fire which is kept for 12 days (six days at the end of the previous year and six days at the beginning of the new one).

**Thirteen** is the number of bad luck that violates the completeness and perfection of twelve numerical series. It symbolizes the gloom and is used for divination and fortune-telling ("baker's dozen"). According to the belief, one must not sit at the table served for 13 persons, and even pass the salt to each other.

**Forty.** On the fortieth day after the Easter the Ascension Day is celebrated. Sanctifying Orthodox fast lasts for 40 days. According to the belief, 40 sins can be forgiven to those who will kill the viper. Three great sins can also be loosed to those who will pay last respects to 40 people.

**Conclusion.** So, the numbers as one of the oldest concepts that have been reflected in culture, represent the earliest layer of collective consciousness and verbal and cogitative activity. Numbers are widely used in Ukrainian culture. In particular, the most frequently used numbers range from 0 to 13 and include 40. At present stage of human culture development numbers acquire a special symbolic significance. This period can be characterized as a return to "sacred knowledge".

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## **FEATURES OF DIFFERENTIATION OF THE VALUE OF INTONATION PHRASEOLOGISMS (ACCORDING TO EXPERIMENTAL DATA)**

**Introduction.** The proposed research is devoted to the analysis of intonational phraseologisms of the Ukrainian language. Intonational phraseologism (IPh) is special phraseological units, communicative values, which are determined by the intonational feature. Phraseologisms like *What a girl! That's what I did!* can pronounce with different intonation and convey different content, different estimates of the speaker or situation in the context [1: 4]. The concept of intonational phraseology is substantiated in the works of N. D. Svetozarova, M.V. Arkhipetskaya et al. On the material of the Ukrainian language put in the study of intonationally marked phraseologised sentences H.V. Sytar [2]

**Review of recent publications.** Thoughts about the role of intonation in the process of phraseologization were expressed in the middle of the twentieth century L. I. Roisenzon, I. A. Fedosov, M. Kopylenko, Z. D. Popova and other linguists. In particular, L.I. Roisenzon, in terms of the role of intonation within phraseological units, distinguished between two groups: intonationally marked and intonationally unmarked phraseological units.

**Objectives of the paper.** Analysis of the influence of the context on the content of intonational phraseology. To achieve the goal, an experiment was conducted. Initially, from the list of IPh, given in the work of H. V. Sytar [2]. The next 9 IPh were chosen as they have different lexical-grammatical structure and are characterized by the highest frequency of use: *What is the meeting; Do the exercise; He came; Where to him; Well, how are you? Wait, I will show you; You will play; What are you talking about?; When he worked?.* Then, it was compiled the dialogues in which one and the same intonational phraseologism realized different meanings. The completed dialogues (24 in total) were filled out as a questionnaire, according to which 150 students of the Vasyl' Stus Donetsk National University were interviewed. All informants are native speakers, including 75 philologists and 75 students of other faculties, age of informants – from 17 to 23 years, 100 girls and 50 boys. The students' task was as follows: "Read the dialogues. What can bolded sentences mean? What relationship do they communicate (feelings, emotions) of the speaker?" As an example, several dialogues were read out before the questionnaire was filled out and an own answer was proposed.