This article discusses the concept of "frame", which is used as the study of artificial intelligence. Currently, the term “frame” is widely used in sociology, psychology, linguistics, journalism. Frame has acquired several clarifying definitions in each individual humanitarian science. The article also gives interpretations of the "frame" concept by various researchers, the key characteristics of the frame structure. The classification of frames presented distinguishes the following types: frames-samples; frames-instances; frames-structures; frames-roles; frames-scenarios; frames-situations. The frame structure including constitutive, formal and target sub frames is described. The goal is to study the language of media text viewing the main cognitive knowledge formats and their linguistic objectification implementation. The main directions and ideas of scientific research: the existing typology of concepts is unstable, as evidenced by the identification of subspecies of existing types of mental units by researchers; in media texts, information is recognized in the following frequency cognitive formats: concept, concept, frame, scenario, gestalt. The theoretical relevance is that it makes a certain contribution to a new stage of understanding the problem solving of language correlation and thought structures, language and cognitive processes at different levels of their interaction of the mass media text. The research results increase the ways of presenting new knowledge about the world in the media. A significant research result is the classification of the main language cliche characteristics based on the studies as a focal point for the further concepts typology development. The practical relevance is the opportunity of the obtained results to apply in the following elective cycle disciplines: "Cognitive Linguistics", "Linguoculturology", etc., in the preparation of textbooks for students, postgraduates of philological and journalism faculties. The article consists of the following parts: introduction, statement of goals and objectives, comparative review of the "frame" concept by various linguists, discussion of research methods and conclusions.

Key words: frame, cognitive linguistics, slots, typical slots, frame-scenario, sketch-frame.

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Фрейм как когнитивная структура в новостных текстах

В данной статье рассматривается понятие «фрейм», которое используется все более широко в научных исследованиях, посвященных искусственному интеллекту. В настоящее время концепт «фрейм» применяется в лингвистике, социологии, журналистике, педагогике как средство создания образов, зафиксированных в памяти. Концепт «фрейм» в лингвистике имеет несколько определённых дефиниций. Также в статье даются трактовки понятия «фрейм» различных исследователей, ключевые характеристики структуры фрейма, представлена классификация фреймов, различающая следующие виды: фреймы-экземпляры; фреймы-образцы; фреймы-роли; фреймы-структуры; фреймы-ситуации; фреймы-сценари. Представлена фреймовая структура, включающая конститутивный, формальный и целевой подфреймы. Цель статьи − исследование языка новостного текста (на материале казахского, русского и английского языков) с использованием ключевых познавательных информационных форматов и их лингвистического актуализирования. Основные направления и идеи научного исследования: нынешняя классификация терминов является нестабильной, что подтверждает выявление исследователями подвидов существующих видов ментальных единиц; в новостных текстах информация опознается в нижеперечисленных частотных вербальных форматах: понятие, концепт, сценарий, фрейм, гештальт. К гештальтам могут быть отнесены речевые клише. Теоретическая значимость заключается в том, что изучение фреймов способствует решению задач современного рубежа осознания проблемы соответствия лингвистических и когнитивных структур, лингвистических и когнитивных процессов на разных ступенях их взаимодействия новостного текста на материале казахского, русского и английского языков. Результаты исследования увеличивают понимание о классификации концептов; средствах подачи новых представлений о мире в СМИ. Значительный результат исследования: классификация особенностей речевого клише на основании показателей анкетирования как стarta к дальнейшему формированию классификации концептов. Практическая значимость определена перспективной применении полученных результатов при разработке лекционного материала и подготовке учебных пособий следующих дисциплин элективного цикла: «Лингвокультурология», «Когнитивная лингвистика», «Актуальные проблемы языкознания» и др. для студентов и магистрантов филологических факультетов и факультетов журналистики. Статья состоит из следующих частей: введение, постановка цели и задач, сравнительный анализ сущности понятия «фрейм» в интерпретации различных учебных-лингвистов, обсуждение методов исследования и выводы.

Ключевые слова: фрейм, когнитивная лингвистика, слоты, типичные слоты, фрейм-сценарий, эскиз-фрейм.

Introduction

Justification of the choice of articles. The text is considered as a certain set of knowledge in this study, devoted to the linguocognitive aspects of the media text as an information base laid down by the author and perceived by the reader. The text is interpreted as a combination of the properties of the information source of the surrounding reality reflected in the definite period of time, and its main characteristics are news and information saturation and information content (newsworthy, meaning surprise and/or novelty for the reader). Mentioned characteristics are functionally different and are equated with the context tension concept – not expressed in words degree of its semantic comprehensiveness. The ne-
cessity to reveal the information content category in general and the concepts particularly from the point of cognitive philology, the lack of knowledge of the mass media text of various functional styles determine the relevance of the research topic.

The goal is to study the language of the news text (based on Kazakh, Russian and English) from the perspective of implementing the main cognitive formats of knowledge and their linguistic lenses.

In order to achieve this goal, the following objectives are necessary:
- Define their own theoretical positions on the basis of a critical review of research papers on key cognitive linguistics issues;
- Identify cognitive formats of information generation characteristic of news text;
- Identify ways and means of representing information in the most frequent cognitive formats for encoding information in multilingual news texts.

Scientific research methodology

Research methods. The issues set made it necessary to use the following methods:
- Linguocognitive-in identifying cognitive formats for reading information and interpreting the semantics of the language units that verbalize them;
- A method of content analysis, understood as a study technique for an focused, qualitative and systematic outline of the definite communication substance; a study technique for forming conclusions by systematic and objective identification of specific characteristics of messages (Ticher, 2009) – when collecting and analyzing factual material;
- Descriptive method – when segmenting, identifying and arranging language units, as well as when contacting informants.
- The questionnaire method

Results and discussion

The concept “frame” (from English “frame” – a frame, a framework, structure) was introduced by M. Minsky in his work as “A Framework for Representing Knowledge” (1975) devoted to artificial intelligence for scientific use. The author defined the frame as a structured data system for presenting stereotypical information (Minsky, 1975).

The concept “frame” was introduced directly into linguistics by Ch. J. Fillmore in his work “Frame semantics and the nature of language”(1976). The author defines a frame as a cognitive structure that provides an understanding of concepts represented by words (Fillmore, 1992). Later (in the early 1980s), C.J. Fillmore actively developed the concept of frame semantics, which is an adaptation of the “frame” concept for lexical semantics. According to his theory, words form groups, each of which is better to study as a whole, because each group is a certain unit of knowledge. Such groups of words are held together by the fact that they are motivated, defined and mutually structured by schematizations of experience, for which the general term frame can be used (Fillmor, 1988).

Thus, the concept of “frame”, previously used in the sciences that study artificial intelligence, has expanded the scope of its use. Now a frame is a term widely used in sociology, psychology, linguistics, pedagogy, and denotes a way of organizing representations stored in memory. At the same time, the frame has acquired several clarifying definitions in each individual humanitarian science (Bykadorova, 2014).

Let us review the definitions of foreign scientists characteristic of cognitive linguistics: J. Taylor interprets the frame as “a structure of knowledge that unites numerous areas associated with a given linguistic form” (1995) (Taylor John, 1995.); F. Ungerer and H.-J. Schmid speak of the frame as “a type of cognitive model that represents knowledge and opinions related to specific, frequently repeated situations” (1996) (Ungerer, Schmid, 1996); E.R. Wendland characterizes the frame in the following definition as a psychological construct associated with one dominant point of view.

In Russian cognitive linguistics, a frame in the” Short Dictionary of Cognitive Terms “ (1997), edited by E. S. Kubryakova, is defined as “a set of hypotheses about the structure of a formal language for expressing knowledge as an alternative for semantic networks or for predicate calculus; the organization of representations stored in memory (human and/or computer) plus the organization of processing and logical inference processes operating on this storage. A frame is a data structure for representing stereotypical situations, especially when organizing large amounts of data” (Kubryakova, 1997).

J.V. Nikonova, analyzing previous definitions, comes to the conclusion that “the frame is a unique representation structure of experienced cognitive knowledge of a person that connects the field of cognitive and linguistic” (Nikonova, 2007). N.V. Sterneva, having also analyzed the existing definitions, gives his wording: “the frame can be represented as a way of structured content of the conceptual space of a person presenting knowledge about typed situations” (Sterneva, 2009).
The general humanitarian definition of the frame is found by A.Yu. Bykadorova: “the frame is a structure of knowledge about a subject (concept, phenomenon, event, time gap) in a specific field of science, having those stereotypical features and characteristics that are the object of study for a given science” (Zarudneva, 2007).

So, various researchers interpret the frame as: a data or knowledge structure; a system of concepts; a type of cognitive model; a unit of the cognitive level; a cognitive structure; a multicomponent concept; a knowledge model; an information package; an information judgment; a structured unit of consciousness; semantic education; a structure of knowledge representation; a conceptual structure; a semantic framework of a stereotypical situation, etc.

As can be seen, there is no generally accepted definition of the concept of “frame” in cognitive linguistics.

One of the important issues in cognitive linguistics is the structure of cognitive models, including the frame. Despite the lack of consensus on the definition of the term “frame”, many researchers are unanimous in their views on its composition and structure. The frame structure is more often presented hierarchically: deep from the upper levels to the lower deep levels (Lukashevich, 2002).

In this matter, the fundamental theory is M. Minsky’s, according to which, the frame is represented as a network consisting of units and connections between them. The upper units of the network (the supra-ordinate ones) are formed by concepts that are invariably fair in relation to the implied situation, so they are always clearly defined. The units located at the lower levels (subordinate) have a set of terminal vertices (slots) filled with private data based on a known situation (Minsky, 1975).

The existing characteristics of the frame structure basically repeat the description of M. Minsky, varying only in particular representations. Thus, A. S. Babicheva writes that the frame structure consists of a vertex-a name, a topic of a stereotypical situation, as well as slots and terminals – lower – level slots filled with propositions-variable components. At the same time, the researcher emphasizes that the lower-level slots filled with groups of words reflect the national-specific features of a particular linguistic culture (Babicheva, 2007). Babicheva identifies subslots in the frame structure: “the top-level slots are fixed and correspond to information (declarative or procedural), which is always relevant in relation to this situation. The slots of the lower level are different in volume and structure, they can contain a number of elementary actions-subslots” (Babicheva, 2007). Among the slots, there is a special subspecies-typical slots – those elements of the situation that concretize a certain aspect of the frame. In cognitive linguistics, a slot is understood as a proposition (a unit of information storage in a person’s memory), reflecting the relations that characterize objects and events (Parshin, 1996).

In frames, as in slots, subframes or subframes are distinguished. Subframes are called smaller cognitive formations that form the main frame (Baranov, 2001). The frame structure described by O.V. Sokolova is similar. In her opinion, the frame is a structure of hierarchically interacting elements. The elements of the lower level are in a “waiting” situation: they are filled with signs in the process of adapting the frame to a specific situation. The hierarchically ordered frame structure ensures its integrity (Sokolova, 2007).

The representation of a frame as a hierarchical structure echoes other representations of its structure. For example, E.A. Zarudnev presents the frame system in the form of a tree. At the top – the vertex node of the frame, generic (prototype) information accumulates, at the bottom it is attached specific subframes (nested frames) – terminal nodes, or slots that add specific details, new information about the stereotypical situation (Zarudneva, 2007).

The structuring of the frame by I.A. Lungu is of interest. She believes that the basis of the frame structure is the focus (core), which includes individual features of the frame. A frame as a data structure has slots (graphs) or terminals, which are cognitive components that are part of our ideas about typical phenomena, events and objects of the surrounding world (Lungu, 2015).

Scientists also consider the characteristic features of the frame. Most linguists and cognitive scientists agree that a frame is, first of all, an open structure that can expand due to the receipt of new information, so this cognitive unit cannot have clear boundaries. This, in our opinion, is one of the main indisputable characteristics of the frame-the ability to expand.

N.V. Sterneva, in her work on the frame, gives the following key characteristics of it, identified during the analysis: structurality, typification, situationality, representativeness (Sterneva, 2009).

In cognitive linguistics, there are situations when the usual sequence of actions of a typical frame can be violated. Among the most common transformations of the frame structure, the following are distinguished: replacing the content of a traditional slot with an uncharacteristic one, replacing a frame sub-slot with an uncharacteristic one, eliminating indi-
vidual traditional slots or sub-slots, introducing a new uncharacteristic slot with its own content, folding the frame into one slot, a sub-slot.

An important issue is the classification of frames. At the moment, there are not so many specific varieties of the frame in linguistic science. This question is developed in more detail in the theories of artificial intelligence and programming, but the achievements of these scientific fields cannot be “transferred” to cognitive linguistics due to the difference in scientific approaches.

In cognitive linguistics, the types of frame are insufficiently studied, as evidenced by the presence of a small number of works devoted to this problem. In this regard, the frames highlighted by M. Minsky are relevant, with the help of which a person is aware of visual images – frames of visual images, understands words-semantic frames, reasoning, actions-frames-scenarios, narratives, etc. (Minskij, 1979).

S.A. Zhabotinskaya identifies five types of frames that make up a frame network among themselves. This is a subject frame, a taxonomic frame, a possessive frame, an action frame and a comparative frame (Zhabotinskaya, 1999).

V.E. Karpov distinguishes the following types: frames-samples; frames-instances; frames-structures; frames-roles; frames-scenarios; frames-situations (Karpov, 2015). It also defines an unfilled frame as a protoframe, and a filled one as an exoframe.

L.V. Babina and I.Y. Makarova argue that the frame structure includes constitutive, formal and target subframes. The constitutive subframe contains objectively given and inferentially derived information about the appearance of the object. The target subframe contains information that is related either to the actions of the object itself, or to actions on the object, or to actions performed with the help of the object. The formal subframe includes information about the entry of an object into a more general group of similar objects, which occupies a certain place in the hierarchy of knowledge (Babina, Makarova, 2007).

O. S. Polatovskaya suggests that the frame-script (or its term – a doublet scenario frame) should be attributed to the type of concepts, which, in her opinion, will be of practical importance in the study of the problem of the relationship between language and speech. She writes: “In general, the main difference between a script frame and a frame is the dynamic nature of the first and the static nature of the second... The fundamental difference between a scenario frame and a scenario is its attachment to the context of a specific situation” (Polatovskaya O.S., 2013).

The recognition by scientists of the cognitive interpretation of the frame (passing the stage of the linguocognitive research procedure, where the “translation” of language data into cognitive data is carried out (Popova, Sternin) was the impetus for the development of subspecies of this format. So, the researcher L.V. Babina develops the theory of sketch frames. According to her, “the selection of a sketch frame is provided by such a property of frames as their ability to narrow, focus attention on their individual components. A sketch frame differs from a frame in that it is simple, since it conveys a small part of the frame. It transmits knowledge selectively, so to speak “locally” (Berdnikova, 2014). The researcher also developed the author’s method of analyzing the interpretation of prefixed English verbs using sketch frames.

The term “sketch frame” was created from the English “sketch-frame”. “It represents that part of the structured field of human knowledge, correlated with the generating word (or words), which comes into focus when creating a concept represented by a derived word, and determines to some extent the structure of the latter” (Lopatin, 2011).

In cognitive linguistics, there is no clear methodology for analyzing the frame, there are only designated areas. O.V. Sokolova identifies the following:

1. Analysis of a particular frame formed by lexical units grouped according to a single conceptual basis.
2. Study of the role of the frame in the communication process.
3. The application of the concept of a frame in relation to the translation process, which is expressed in attempts to describe real mental operations occurring in the translator’s brain during the translation process (Sokolova, 2007).

In modern linguistic research, there are the following basic approaches of the frame study: linguocognitive (its representatives: A.P. Babushkin, A.N. Baranov, V.Z. Demyankov, T.A. van Dyck, E.S. Kubryakova, J. Lakoff, M. Minsky, E.V. Rakhлина, Ch. Fillmore, N. Chomsky, etc.), linguoculturaitive (it is followed by: V.I. Karasik, N.A. Krasavsky, V.V. Krasnykh, V.A. Maslova, V.I. Shakhovsky, etc.) and psycholinguistic (R. Abelson, I. Hoffman, R. Schenk, etc.).

It is also necessary to mention the existence of a sociological approach, the founder of which is the American sociologist E. Goffman. He calls the frame – “analytical forests”, owing to that we can realize our own impressions. Frames may be de-
terminated by situations. They are subject to definite principles which represent social occasions and regulate human participation in them (Goffman, 1974).

O.V. Sokolova believes that there are two approaches to a “frame” concept in cognitive philology: a frame as a knowledge framework and a frame as a knowledge representation pattern. Firstly, the frame is viewed as a unit of the human gnostic system. Secondly, the frame is a way, a device for presenting the cognitive system. Trying to distinguish between the two understandings of the frame, it is necessary to realize that when studying the frame as a structure of knowledge, we turn to the language-phenomenon, and when studying the frame as a structure of knowledge representation, the object of attention becomes the language-construct. However, the study of human consciousness is possible for the most part with the help of language alone, so in any case, the researcher is faced with a frame – the structure of the representation of knowledge (Sokolova, 2007).

In strict connection with the approaches to the study of the frame, there are already formed methods of frame analysis in cognitive linguistics.

The frame usage as a scientific method is closely connected with the postulation of a certain dependence of the linguistic meaning on the cognitive experience of a person. Accordingly, this is a method for studying the interaction of the semantic space of language and the knowledge structures of the mental space, i.e., the method of cognitive-semantic modeling of language (Lungu, 2015).

The method of frame semantics is often used in studies that are linguocognitive in nature. Usage of the frame semantics method in examining the meaning of the information selected in its cognitive aspect, it is probable to create the cognitive knowledge background with the help of which the information is equated and modelling the frame value.

When considering a frame as a scheme of some semantic supporting abstracted from the personality actions and implemented in the text, the frame has no complexity limits and can be structured both for a common sentence and for the whole text (Butorin, 2010).

S.A. Zhabotinskaya developed a method of conceptual analysis of diverse language data using basic propositions that have the highest level of generalization and represent the original categories and relations between them. This technique is called network semantics. As already noted, it identifies five basic frames (subject, action, possessive, identification, comparative), according to belonging to one of which the type of propositional scheme is determined. If frames are traditionally understood as models of stereotyped subject situations, then basic frames are operational and include thematically related propositions for the stereotyped subject situations modeling. The author notes that “the number of propositional schemes included in the basic frames is limited, but due to their different combinations, depending on the specifics of the structured conceptual space, it is possible to obtain an unlimited number of different configurations of conceptual networks” (Zhabotinskaya, 2013).

The universality of this approach is that it depends on the research specifics, semantical networks are – dimensional or multidimensional (networks-in-networks), the latter of which, with the help of the conceptual spaces available in them, contribute to a more in-depth study.

To find out for what purpose and how the selected frame is used in news texts, we will conduct an analysis. As the material for the study, we selected news materials posted on the official website of the Khabar TV channel. As you know, Khabar is a national-scale channel and broadcasts simultaneously in two languages: Kazakh and Russian, i.e. it is one of the multilingual mass media of Kazakhstan.

As N.N. Tsitsarkina notes: “Frames may be expressed in the context separately and in general as integrated which consists of two frames – the main and the subordinate one. The included frame is introduced in the main frame pattern” (Tsitsarkina, 2013). Subordinate frames receive a logical continuation in the form of interviews with representatives of the command staff who led the exercises:

Aibek Zhumanov, acting commander of the ship “Kazakhstan”:
- Since eight o’clock in the morning, we have been given training signals. He strengthened the ship for underwater, surface and air defense, and we fought with them. The fight was all verbal. All the assigned targets were destroyed.

Zhandarbek Zhanuzakov, commander-in-chief of the Navy of the Republic of Kazakhstan:
- Our personnel gained a lot of experience from the joint event. The military of our country and Russia have proved that they can make a clear decision in a timely manner and eliminate the threat.

The given example confirms the opinion of E.G. Belyaevskaya that in the redistribution of one frame, it is possible to “approximate” or “distance” any components of the frame.

Here is a similar example from the Kazakh-language material presented in the form of a cognitive format-a frame: “Today, Astana airport is experiencing a stir. Because the passenger plane caught fire,
and the rescue service was on its feet. It was a rescue exercise. According to the scenario, the crew decided to stop at Astana airport in connection with the accident” (Seylkhan, 2018).

The plot of this frame unfolds in the same way as in the previous one: anxious expectation, concern caused by the phrases *experiencing a stir* (I was shocked), *plane caught fire* (a passenger plane shrouded in flames) in the introductory two sentences. Only the following sentence “relieves” this tension by informing about the exercises.

Since one of the main indisputable characteristics of a frame is its ability to expand, there is no doubt that “teachings” are a frame. An unlimited number of slots and terminals can be attached to the vertex node, revealing the essence and content of this frame: “It was a rescue exercise. According to the scenario, the crew decided to stop at Astana airport in connection with the accident. The aircraft landed successfully, but soon there was a fire from the aircraft. People were immediately rescued, and firefighters who arrived in 4 cars managed to extinguish the fire in a timely manner”.

In modern research, the frame is beginning to be considered as a dynamic structure with active zones, in which even stable, conventional features can shift to lower, deeper levels. This shift occurs in the texts of the media.

Here is the type of material of the Russian-language text, the author of which is A. Yalomenko: “Commotion in the subway. Today, rescuers and doctors evacuated people from the Almaty subway. However, everything happened under the gun of photo and TV cameras: it was the rescuers who conducted earthquake preparedness exercises” (Yalomenko, 2013).

Information that the evacuation of people from metro cars is just a staging is extracted only from the last sentence (the previously mentioned method of submitting information). At the same time, the thoughts of the audience are initially arranged according to the “catastrophe” frame, then the flow is quickly (unconsciously, subconsciously) rebuilt according to the “teaching” frame.

A distinctive feature of frames is that they are standard for a definite linguistic group, enacted in a particular professional sphere to express some meaningful pieces of the external world (objects and situations). Mentioning the sphere, we mean a journalistic society, within which there is an unspoken tradition to present material about the exercises in this way.

It is known that frames are culturally natured and that is why they can express and define the most typical or distinctive in a definite society with its sociocultural traits.

**Conclusion**

Several conclusions can be drawn from the literature review. The term “frame” has not yet received an unambiguous interpretation owing to that reason that the concept itself is actively used in several scientific fields. Despite the absence of a generally accepted definition of the term, in cognitive linguistics there is a single view of the structure of the frame (hierarchical). Its components are recognized as nodes, slots and terminals. The main characteristics of the frame include: structurality, typification, situativeness, representativeness and the absence of rigid boundaries.

We may conclude our article in the following way: “a frame is a cognitive structure in the phenomenological field of a personality, basis of which is a randomized knowledge concerning usual expectations and circumstances connecting these properties and meaningful or suppositional objects interactions knowledge.”

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