Schema, Culture, and Language: A Cognitive Linguistic Study

Assist.prof. Saleema Abdulzahra Almehamdawi
Al-Qadisiyah University/ College of Education/ English Department

تاریخ الطلب: ۹/۱۲/۱۸ م۲۰۱۳ تاریخ القبول: ۲۰۱۸

Saleemaab@yahoo,com : الأميل

Abstract

The current work a comparative qualitative study between Iraqi and American participants. It aims at examining from the cognitive linguistic point of view the different types frames of highlighted by the participants when deciphering a short story sentence. A short story sentence (flash fiction) is a genre usually with an ambiguous end even after reading its brief words. Thus, the readers intend to comprehend the text by filling in the gaps which are open to interpretations multiple depending on their schema including knowledge, personal

experiences and perceptions. Some studies have investigated schema and its relationship to culture, yet no study using schema theory has examined how two groups from different cultures, the United States and Iraq, interpret the same text. The study adopts Fillmore's model (1982) Frame semantics analyzing the reflectors' interpretations collected by a reflection test. Results have that the cognitive shown contexts, represented by the interpretations, are different although the given text is the same due to being produced by people with different schema in different cultures.

Key words: cognitive linguistics, schema, short story sentence, Frame semantics

فحص من وجهة النظراللغوية الادراكية انواع مختلفة من الاطارات الفكرية التي ابرزها المشاركون عند فك شفرة الومضة. الومضة هي المخطط والثقافة واللغة: دراسة لغوية ادراكية الخلاصة الخلاصة انها دراسة نوعية مقارنة بين المشاركين العراسة الى العراقيين والامريكيين. تهدف الدراسة الى

مختلفة للنص نفسه باستخدام نظرية المخطط .اعتمدت الدراسة في تحليل تفسيرات المشاركون على نموذج الدلالة لفلمور (١٩٨٢).اظهرت النتائج ان السياقات الادراكية متمثلة بالتفسيرات مختلفة على الرغم من ان النص المعطى هو نفسة وذلك لاختلاف خبرات وثقافات المشاركون.

1. Introduction

The relation among cognition, culture and language is often a dialectical Linguists such one. Benjamin Whorf and Edward Sapir in their linguistic relativity hypothesis assure that language determines or influences the modes of thought and behavior according to the culture where that language Many cognitive spoken. linguists such as Fillmore (1982) and Rumelhart (1997) confirm that linguistic information is processed by a number of cognitive systems such as attention, perception, Cognitive and memory. linguistics is the school of linguistics that studies the relationship between human language, mind and social physical experience language reflects thought and

نوع ادبي عادة مايكون لها نهاية غامضة بعد قراءة كلماتها القصيرة وبالتالي يعتزم القراء فهم النص عن طريق مليء الثغرات المفتوحة مما يسبب تفسيرات متعددة اعتمادا على المعرفة والخبرات الشخصية. تناولت بعض الدراسات نظرية المخطط والثقافة ولكن لم تبحث اي دراسة في كيفية تفسير مجموعتان من ثقافات

the features of human mind (Croft and Cruse, 2004). It believes that even simplest sentence can be recognized cognitive by means. Lakoff and Johnson (1980) concluded that even the abstract concepts which are organized in human mind are based on concrete ones. them. According to the fundamental basis in cognitive linguistics is the meaning of the language that dynamic, visionary, is encyclopaedic and application oriented.

Ungerer and Schmid (1996) distinguish three different viewpoints in cognitive linguistics: Experiential view focuses on what is in the minds of speakers when producing and understanding words and sentences. According to this experience, view, and knowledge are transferred to abstract concepts. Among the pioneers were Lakoff and Johnson (1980,1999). The second view is the prominence represented view by Langacker's (1987, 1991a). It explains why one can figures an object out as a prominent figure background. from the Attentional view of language proposes that what one actually expresses reflects details of an event attracted his/her attention. The main concept this in approach is Fillmore's (1975) notion of "frame", which refers assemblage of knowledge one has about a certain situation.

It is clear that the majority of cognitive linguists agrees that linguistic knowledge is one's important of part cognition and thinking. They language believe that is grounded and motivated experience, in bodily, physical, social, and cultural experiences because after all, "we are beings of the flesh" (Johnson 1992: 347).

2. The Role of Schema Theory in Cognitive Linguistics

Schema theory confirms that human knowledge is arranged into units; including stored information. According to this theory. schemata represent knowledge about concepts: the relationships that objects have with other situations, objects, events, actions, sequence events, and sequence of actions. Thus, everyone has schemata knowledge) (units of everything she/he experiences; these schemata become theories about reality and affect the way information is deciphered. As stated by Rumelhart (1980:41),

> Schemata can represent knowledge at all levels-from ideologies and cultural truths to knowledge about the meaning of a particular word, to knowledge about what patterns of excitations associated with are what letters of the alphabet. We schemata to represent all levels of our experience, at all levels of abstraction. Finally, our schemata our knowledge. generic All of our knowledge is embedded in schemata.

British Gestalt psychologist, Sir Frederic Bartlett is considered the first person who used the term "schema". He defines "schema" as an active organization of past reactions, experiences, which must always be supposed to operating in any well-adopted response organic (Bartlett, 1932:201). Rumelhalt (1980). (1981)Carrell and Hudson (1982)clarify that schema theory explains how readers use knowledge prior their comprehend a text. Anderson and Pearson (1984:42) explain it as "an abstract knowledge structure used understanding".

One of the most important models in cognitive linguistics Rumelhart's (1994)is Interactive Model: it implies that if information of a source as word recognition is deficient, the reader would depend on another source of information, for instance. previous experience or contextual clues. Stanovich (1980) terms this kind of processing Interactive-Compensatory because the compensates reader deficiencies. The sources which are concerned with concepts and their semantic relationships are called higher level stimuli: whereas sources dealing with

the printing word itself, its phonics, and sight words are called lower level stimuli.

Schema theory assumes that the meaning of a text is not carried by itself. Rather, it directs readers to how they should regain or build meaning from their own previously acquired knowledge which is called schema (Barrlett, 1932; Rumelhart, 1980).

Many linguists as Goodman (1994) assure that meaning is represented by a writer in a text and constructed from a text by a reader. All of the writer, text, reader influence resultant meaning. Similarly, Rosenblatt (1994: 1078) states that "the same text takes on meanings different different transactions with readers or even with the same reader in different contexts or times". Thus, the context of the text is obviously important in creating different meanings.

Anderson (1977:369)points "every out. act of comprehension involves one's knowledge of the world well". There are two kinds of processing bottom-up which is activated by data from the text and top-down which starts with general to ensure these predictions (Carreli and

Eiserhold, 1983). This idea is in accordance with Fillmore's notions of evocation and invocation that will be explained later.

Linguists classify schemas differently; for instance, Biocca (1991) has classified schemata into: social schema which is of knowledge the world concerning events, places and people, knowledge of the medium (textual schemas). narrative and genre schemas organize knowledge which about kinds of texts. ideological schemas which mediate between 'real-world' (social) and 'textual' schemas.

Urquhart and Weir (1998:71) confirm that schema can be classified into: Formal schema and the other is content schema largely which is culturespecific. Culture is the total set beliefs. social attitudes, behavior, and customs of the members of a particular society". Rivers and Temperly describe (1978:202)cultural knowledge or schema as "sociocultural meaning which springs from shared experiences, values and attitudes". Any kind of writing is a product of culture and must be interpreted under a Finally, cultural context.

linguistic schema which is the knowledge about grammar and vocabulary: plays it important role in the understanding of a text. Eskey (1988:94) confirms that "good readers are both decoders and interpreters of texts. decoding skills becoming more automatic but no less important as their reading skill develops".

Thus, one can conclude that the basic function of schema is providing the base or background for the construction of an interpretation of an object, event, or situation. Therefore, what may often happen that readers contribute more information than what is printed on the page.

Readers understand a text when they are capable of finding a configuration of schema which offers a coherent account for the text. If a reader fails, the text will appear incomprehensible and disjointed. As the sentences are read, schemata are activated. and refined or discarded.

The process of comprehending a text is like the process of constructing a theory; the more data becomes available, the more specified the theory will be. Bransford and Johnson

(1973)suggest that a comprehender may face the same problems that a detective faces in solving a crime. In both, there is a mystery. The listener's (or reader's) job is to find a suitable interpretation. In doing so, the listener uses his /her own prior knowledge and experience to create a plausible possibility.

Brown and Yule (1983:191) use "cohesion" and "coherence" and consider them as distinctive linguistic terms. As a matter of fact, in literature, even if there are instances of incoherence, readers try to fill in the gaps either through their own schema or through seeking information elsewhere. Cook (1994:10)points out that "schemata are essential to text processing, but can be both a potential barrier to understanding or enable greater understanding of a text". Similarly, Culpeper et al (1998) confirm that for the sake of interpretation, human mind different types of constructs representations cognitive (meanings, codes, or features) interpret that the given linguistic input.

Thus, it can be said that what is comprehended is related to what is known and what had in one's minds. Finding some familiar element helps activate the story, for example, that is recognized by that familiar element.

3. Cognition and Culture

The process act or obtaining knowledge, including perceiving, reasoning, recognizing, and judging thought of as cognition (Gander & Gardiner, 1981). It involves knowing, thinking, categorizing, remembering, problem and solving. Language is a system of symbols that is used to communicate knowledge information. Schema is knowledge that exists within an individual's social and cultural communities: thus. any discussion of schema theory discussion may lead to cultural knowledge. In fact, little work has been undertaken bridge the gap between schema and the sociocultural perspectives.

Many linguists have tackled the transactional relationship between individual knowledge and cultural practice. Bartlett (1932) conducted experiments to explore schemas as cultural constructs in memory, and it is widely cited by schema theorists in the cognitive field (Saito, 1996). Bartlett's research points to schemas as more than

in-the-head phenomena and considers them as patterns extended to the cultural and social world. Bartlett explained the constitutive role of cultural experience in making sense for the individual (Saito, 1996: 2000).

Anderson et al (1977) claimed different interests. that experiences, and gender form the mental schemas in the being's human mind though s/he is from the same culture. Thus, culture is more individualized than it solidified object as traditionally being conceived.

Vygotsky (1978) claimed that influence. cultural mental processes, and language dynamic processes that occur simultaneously. Similarly, Fiske and Linville (1980) claimed that schema theory is relevant to the representation ofsocial phenomena in a particular time and place and this is why it is more related to the dynamic view toward culture of a society and how meanings could be changed through history. Studies by Johnson (1981) and Carrell (1983) have shown that the text based on one's culture is understand easier to or comprehend than syntactically and rhetorically equivalent text based on a less familiar culture.

Sperber and Wilson (1986) in their Relevance Theory point out that the cognitive context for a human being is a set of assumptions stored in his/her brain. It varies among different individuals, since they live in cultures and have different different experiences. Accordingly, cognitive context refers to the knowledge and representations mental individual's brain; therefore, it may be used alternatively in this study.

Campbell (1989:90) has explained that schemas may be reflected in many practices done by the individual within a culture. Many sociologists such as Gramsci (1990) believe that culture, embedded in everyday practices, and language limit people's ability to imagine options to existing arrangement.

Johnson (as cited in Varela, Thompson, & Rosch, 1991) explains:

Meaning includes patterns of embodied experience and preconceptual structures of our sensibility (i.e., our mode of perception, and of interacting with other objects, events,

or persons). These embodied patterns remain do not private or peculiar to who the person experiences them. Our community helps us interpret and codify many of felt patterns. our They become shared modes cultural experience and help determine the of nature our meaningful, coherent understanding of our "world." (p. 150)

Consequently, schema can be treated as a basic unit analysis for any cultural study, as clarified by Carley (1991). Individuals experience culture as disparate bits of information and as schematic structures that organize information that (Rogoff & Chavajay 1995). The custom and culture are reflected in the language of a nation. Saussure makes it clear that the culture aspects the people live in are stamped on one's mind forever as cultural schemata. Culture, mentioned as previously, includes feelings, moral values, religion, consciousness, and SO on.

Language is the product of a society, so every aspect language is associated with culture. It influences how to construct the information in a text (Hoenisch, 1998). Newman (1996: ix) emphasizes importance of human experience and cognition in explain trying linguistic to structures.

Palmer (1996:291) reveals that

Linguistic meaning subsumed within world view. Linguistic meaning is encyclopedic in sense that it involves the spreading activation conceptual networks that are organized chains and hierarchies of cognitive models. Language both expresses and constitutes world view but could only fully determine it in a culture that lacked other means of expression and communication.

Croft expressed this idea maintaining that "the sort of knowledge that is relevant to a linguistic expression's meaning cannot be enumerated in such a way that all contexts of use can be predicted" (2000: 107). Context affects word meaning; John Firth maintains that there is a "general rule that each word

when used in a new context is a new word" (1957: 190).

When a word is found in a specific context, its meaning potential, or part of it, activated, thereby providing an access point to a network of knowledge linked to the word in question (see Croft 2000). The network of knowledge accessed via a word's meaning potential bears a close resemblance to the frame to which a word is linked. The activation of this meaning is a cognitive process initiated by other words in the context (Hanks 2000: 214). Gee (2004) goes further in confirming the connection between language and culture. stating meaning does not exist in the form of words, but within one's among relationships experiences, talk, actions, and all sorts of cultural knowledge. Gee (2008) believes that many people from different backgrounds different use words similar to express concerned matters; moreover. beliefs and values are the basis of the meaningful distinctions, i.e., choices and guesses.

It is worth mentioning that Fillmore (1982: 117-118) points out that very often the frame, or he calls it the background, against which the meaning of a word is defined and understood is a fairly large slice of the surrounding culture. Further, this background understanding is considered as a 'prototype'. Moreover, Fillmore (1994: 40) explains that a word cannot be understood if the accompanying beliefs are not understood. The frames underlie that word meanings should become the basis for the recognition semantic relations among words, and among word senses. Barsalou (1992: 59) that frames play forward major role not only in describing events, but also in planning them. That is, "when people plan events such as trips, purchases, social events, and repairs, frames often begin by partially activating a frame for the event being planned"

information Cultural and experiences stored are in schemas and support cultural Once a schema is identity. formed, focuses one's it attention experienced on cultural aspects by assimilating, accommodating or rejecting the aspects which do not conform (Renstch, Mot & Abbe, 2009). shapes how people Culture understand others, memorize, learn information, and make judgments or decide. Cultural differences in attention contribute differences in to

have perception. Humans schematic knowledge about various things such as marriage, color. pain, iealousy, government, and religion. Some of these frames may be accessed by the virtue of living on earth. Others one obtains by being a member of a particular culture, in which people consciously or unconsciously respond to its institutions values and (Fillmore, 2011:314).

To sum up, both cognition and language are cultural phenomena. Consequently, they both contribute jointly to an experience individual's or schema. Obviously, anyone who have does not cultural knowledge may not share the associations. intended frames one invokes are based on knowledge s/he has, not so much about the words and this will be discussed in the analysis section.

4. A Frame-Based Approach

In cognitive psychology, the term 'frame' has been used; at least since Frederic Bartlett (1932) who introduced schema theory (Fillmore, 1975: 124). In analyzing experiments of perception and memory retrieval. Bartlett concludes that easier remember to something which matches an

already existing mental image (Bartlett, 1977: 20). He defines a schema as "an active organization of past reactions, or of past experiences" (1977: 201).

Through the following discussion, it would be clear that schema and frame are integrated terms. Frame has been used in linguistics by authors such as Harris (1946) as a syntactic category, as well as in Artificial Intelligence authors, such as Minsky who 'scenario', calls it as "knowledge structures particularly designed for frequently recurrent event sequences" (1975: 212). He forward puts that our knowledge is stored in the memory in the form of data to different construct representing models of situation. Every one acquires conventional knowledge from experiences. his/her This knowledge constitutes the different frames in his/her mind. When one of these frames is activated, the addresser will have a lot of assumptions about it. In linguistics, other terms are used to refer to the same such 'scene' structures as (Fillmore, 1977), 'script' (Schank & Abelson, 1977), 'experiential gestalt' (Lakoff &

Johnson, [1980] 2003), 'idealised cognitive model' (Lakoff, 1987), 'domain' (Langacker, 1987), 'scenario' (Palmer, 1996) and 'cognitive model' (Evans, 2007).

Martin (2001: 62) clarifies the idea of frames saying that in describing word meaning according to frame-based a approach, it can be considered as a knowledge structure (a conceptual knowledge frame), or as an organized chunk of knowledge that language users allowing them have to understand and also produce language. He assures that the lexicon should be no longer considered as a set of existing words, but as an organized Thus. knowledge bank. meaning(s) of a word is (are) not separately stored in mind in the form of a list of features but rather as conceptually structured relations between the word in question and other words.

In cognitive linguistics, frames are regarded fundamental to the organize their way humans knowledge (Lakoff & Turner 1989: 65; Barsalou 1992: 21). Frames are situated in "the cognitive unconscious" (Lakoff & Johnson 1999: 116), so they applied automatically. Furthermore, frames form the for one's syntactic basis

knowledge of, for instance, verbs since they decide what arguments may occur with a specific verb (Barsalou 1992: 28).

However, Fillmore is the first to adopt a semantic rather than syntactic definition of 'frame'; he defines it as a cognitive construct that represents the beliefs and structured knowledge related to specific situations. Fillmore puts it as

A system of concepts related in such a way that to understand any one of them you have understand the to whole structure in which it fits; when one of such structures is introduced into a text. or into a conversation. all of the others are automatically available (1982: 11).

Fillmore's Frame Semantics (1982)is commonly most connected with Fillmore. deals with the semantic representation that expresses the background contexts or perspectives. He this calls representation a frame. and describes it as follows:

The idea behind frame semantics is that speakers are

possibly of aware complex quite situation types, of packages connected expectations, that go by various names frames. schemas, scenarios. scripts, narratives. cultural and the memes words in our language are understood with such frames their as presupposed background. (Fillmore 2012: 712)

In this approach, Fillmore focuses on how words associated with frames. The meaning of each word draws in the whole frame, and by using (or hearing) the word, the user necessarily activates the entire frame. A frame "represents the organization particular knowledge which stands as a prerequisite to our ability to understand the meanings of the words" associated (Fillmore 1985: 224).

This approach was as a reaction to the feature list approach in which words have meaning in isolation; they have an inherent meaning that cannot be affected by changing contexts .Accordingly, the category CHILD is defined as [+animate] [+human] [-adult] .

Fillmore's version was expressed in a series of papers starting in the mid-1970's. His distinguished example was the Commercial Event Frame. It is about a seller sells goods to a buyer; and how buying goods costs a certain amount by paying a price charged by the seller. The italicized words are of some those which are connected with this frame.

Fillmore defines a frame as "a collection of linguistic forms or processes related in precise cognitive ways specific to schemata", including choices of grammatical rules or linguistic categories that can associated with prototypical of scenes. These instances associated with scenes are frames, including linguistic interpersonal transactions. standard scenarios defined by the culture. enactive experiences, institutional and body image in structures minds. (1976: people's 13&1975: 124). He states that "whenever we pick up a word phrase, we automatically drag along with it the larger context in terms of which the word or phrase we have chosen has an interpretation" (1977:

74). Moreover, frames can be associated with other frames because of shared linguistic feature(s). Similarly, scenes can be associated with each other because they contain the same or similar participants and settings or because they occur in the same or similar contexts (Fillmore 1975: 124).

(2011:314) puts Fillmore forward that cognitive frames are usually expressed as "slotrepresentations", filler of interconnected structures roles with constraints on the possible fillers. Moreover, he adds that in Frame Semantics, meaning is expressed in terms cognitive of structures the (frames) that shape speakers' understanding of the linguistic expressions. Frame Semantics is the study of how linguistic forms evoke or activate frame and how knowledge. activated frames are integrated into the understanding of the texts that contain these linguistic forms (Ibid.:317). Fillmore (1982:124) states that

Fillmore (1982:124) states that there are two ways in which cognitive frames help interpreting linguistic texts. On the one hand, the lexical forms and grammatical materials 'evoke' the relevant frames that exist as indices of those frames.

On the other hand, coherence is assigned to a text by 'invoking' frame specific interpretation. The evoked frames by the material in the text and the frames invoked by the interpreter are different. In the second case, an outsider has no reason to suspect. Accordingly, the interpreter invokes the (cognitive) frames experience make the understood. A given linguistic element evokes the frame that contributes to the interpretation text. the Thus. invocation is a cognitive act performed unconsciously by the interpreter existing make sense of information. By contrast, frame cognitive evocation is a experience that comes about by an interpreter's responding to language-specific associations connecting linguistic signs with specific frames. The discovery analysis of such associations constitute Frame Semantics.

To sum up, frames are structures of relations between words: whenever a specific word is used in a language, it activates a larger contextual framework in which the word is interpreted. The view of word meaning as something that is stored as a ready-made in the

defining without minds the begins to be context auestioned. increasingly Instead, word meaning is seen as highly dependent on the surrounding context as well as on the encyclopedic knowledge (schema) a speaker and hearer has.

There are few studies which have investigated schema and relationship to culture. However, to the best of the researcher's knowledge, study has so far used schema theory to examine how two groups from different cultures, the United States and interpret one sentence short story. One sentence short story is a genre distinguished by its brevity and its open causing gaps which for Iser, are the "points at which the reader can enter into the text, forming his connections own conceptions and so creating the configurative meaning of what he is reading» (1974: 40). Thus, it is suitable to be used as a means to get the participants' interpretations, and to represent the main source for the data of the study.

The current study tries to answer the following questions:

1. Do the participants from the two cultures conceptualize the

- sentence differently reflecting different frames?
- 2. Do the reflectors highlight their interpretations mainly by frames evoked by the linguistic elements (words) in the given text?
- 3. Does gender affect highlighting the three types of frames even though the reflector is from the same culture?

5. Methodology of the Study

The present study is a small scale qualitative research by **Qualitative** research studies things in their natural settings, attempting to interpret or make sense of a phenomenon in terms of the meanings people bring to them (Denzin and Lincoln, 1994: 2). The current study is dedicated to investigate the role of the participants' (males and females) schema or frames in highlighting their interpretations, the data of the study, to the one sentence short story. As an ethical consideration, the participants were given the freedom to do the test after clarifying the objectives of the study. Further, anonymity, self-determination confidentiality and were during ensured the administration of the test and

writing. As for the report sample of the study, it consists of (26) participants arranged as such: (13) Iraqi (5male/8female) participants who were from the Department of English /College of Education/ University of Al-Qadisiyah, and (13) American (8male/5female) participants were from Spring International Center / Arkansas English University; the researcher had the chance to meet them while she was dispatched there for two months. The participants in each group belong to the same culture and they are nearly of the same age.

A pilot test was done to check the clarity of the test for participants and feasibility as well. It is worth mentioning that the few notes gained were taken into account when conducting the study in its final form. The data is analyzed depending on Fillmore's model Frame Semantics (1982). It is to be mentioned here that Leech and Short (2007: 139) make use of the notion of a "reflector" for "the person whose fictional point of view is represented"; a term that will be adopted in this study. In a reflection test, the question submitted to the participants as a means triggering their interpretation is: "Reflect your understanding to

the following short story sentence: "Her coffee was getting cold as she waited for him to miss her, while his cigarettes were running one after another trying to forget her".

To meet the objectives of the study, the researcher is to do the following steps:

- Selecting a number of short story sentences;
- ❖ Preparing a cover letter to be submitted to jury members¹ to select one of these selected sentences that suits the nature of the study, and decide the number of the participants;
- Choosing a number of participants who are willing to do the test;
- ❖ Categorizing their answers into three types of frames; evocation, invocation, and reflection, as indicated in Fillmore's model;
- Coding these three types of frames using colours;
- Submitting the analysis to raters² to maintain objectivity;
- Discussing the results obtained from the analysis; and

The jury members are Prof. Majeed U.jadwe (PhD.), Prof. Basim Nashmi, and Prof. Muna Alalwan (PhD.).

² The raters are Asst. Prof. Rana H. Al-Bahrani (PhD.), Asst. Prof. Jinan Ahmad, and Asst. Prof. Huda Hadi.

Deriving the conclusions that address the objectives previously

5.1 Analysis

The researcher chooses the Yellow color to refer to the linguistic frame evoked by the given linguistic forms, which contribute to the interpretation of the text due to Fillmore's (1982:124),Semantic Frame "frame evocation is a cognitive experience that comes about by an interpreter's responding to language-specific associations connecting linguistic signs with particular frames". The pink color refers to the cognitive invoked bv frames interpreter that enable the experience to be understood "Her coffee was getting cold as she waited for him to miss her, while his cigarettes were running one after another trying to forget her".

It is about a woman who is sitting somewhere; she is not drinking her coffee because she is absent minded, thinking about her lover and forgets everything set.

"frame since invocation" according Fillmore to (Ibid.:124) is a cognitive act performed possibly unconsciously by the interpreter to make sense of some given information". It can be noted that most of the invoked ideas or expressions are not mentioned in the given short story sentence. The green color refers to the reflectors' own attitudes which mirror his/her culture. For the sake of modeling, the following are the coded frames of one of the interpretations for the one sentence short story used in this study:

else. Coldness refers to her feelings; when a woman feels lonely and misses or needs a specific person, she feels empty and cold. She may make unforgettable mistake so that he could not forgive her or stay with her any longer or it is a one-side love.

Consider Table (1) for the Iraqi reflectors and Table (2) for the American reflectors:

Table (1) Iraqi Fe(male) Reflectors

Table (1) Iraqi Fe(male) Kenectors		
No.	Female Participants'	Male Participants'
	Interpretations	Reflections
1.	It is a love story but there is the	It is about a lady waiting for he
	idea of the important role of time	lover in a café; she ordered a
	(her coffee is getting cold)	cup of coffee. The man
	because when I give you few	somewhere, was smoking
	minutes, this time will never	cigarettes one after the other
	come back; time is running from	quickly in order to forget her
	our hands just like the sand. The	There is a failure relationship
	man was worried; therefore, he	breaking up and instead o
	was smoking. He was trying to	solving the problem, they tried
	forget her because she might not	to avoid each other and fight
	be faithful to him. I think that he	The problems can be solved i
	should not forget her but forgive	we want to. What we have to do
	her because life is a stage and we	is to talk, listen, and find
	are actors.	solutions.
2.	The story is about not only two	The story is about a
	lovers; it may refer to many	relationship between a man
	human relationships such as a	and a woman but both have
	relationship between a brother	ego. The woman is not trying
	and a sister; mother and a son, a	to approach her beloved and so
	father and a daughter, or a	does the man. The man should
	manager and an employee. There	· ·
	is the problem of	love and should talk to her,
	misunderstanding; we judge	then she will decide if he is
	without listening or talking about	suitable or not. If she is
	our problems. We have to give	interested in him, she will
	others the chance to be changed	show that by eye-contact
	and to correct his/her mistakes	smiles and will ask him
	since all of us make mistakes and	personal questions. This man is
	I think the right key for	really in love with her but his
	happiness in any relationship.	ego prevents him. They should
		talk to each other.
3.	It is about a lady waiting for her	It is about two characters (man

beloved husband who has the same feeling. There is a problem and each of them waits for the other to come and say sorry but their pride prevents them. OR The lady does something wrong and this disappoints the man and makes him spend his time smoking as a way to forget what had happened; she also feels sorry and waits for him to come and drink a coffee with her.

They and woman). are divorced. The man is smoking quickly to forget her and he really loves her. I can feel the sadness in his heart. Similarly, she has broken heart. There is the idea of suffering; they are waiting for each other to come back. We need to love and understand each other; life is shorter than we think. Life without love, respect and loyalty is so cold and dark.

4. It is about a woman who is sitting somewhere; she is not drinking her coffee because she is absent minded, thinking about her lover and forgets everything else. Coldness refers to her feelings; when a woman feels lonely and misses or needs a specific person, she feels empty cold. She may unforgettable mistake so that he could not forgive her or stay with her any longer or it is a one- side love.

It is a story about a couple in love but they are separated now. They miss each other and the reasons of separation are beyond their circumstances. The girl is waiting for him and her coffee is getting cold. He feels disappointed and wants to forget her; he smokes a lot of cigarettes. It is clear that she has left him because of a specific reason.

It is about a woman waiting for her husband; there was a problem and she prayed for God to meet him again but he wished to forget her because she has broken his heart. She did not respect him. I think it is better to face our problems and ourselves, so the man should go and meet his beloved face to face to solve the problem nevertheless this will

It is a love story. They reached separation. point of However, there was a hope on one side; she was certain that he would miss her and be back. The coldness of her coffee refers to the long period of waiting which may last forever. The running of the man's cigarettes refers to the difficulty and conflict that this

	lead to separation.	man lives in.
	It is a story of two lovers. He	
6.	loves her so much but he takes	
	his decision to break the relation	
	but the girl hopes that he will	
	miss her and come back to her.	
	OR	
	It is a story between a father and	
	his daughter or a mother and her	
	son. The daughter makes a	
	mistake and she hopes that her	
	father would forgive her.	
	It is a story about two who are in	
7.	love. They are separated for two	
	reasons; either they had to leave	
	each other because their families	
	refuse their getting married or	
	one of them is unfaithful to the	
	other. However, they miss each	
	other. Her coffee is cold because	
	she is sick and tired of waiting	
	him. There is the idea of waiting	
	and forgiveness. OR The man was stressed because he	
	may have a deadly disease or he	
	may lose a close person and he	
	did not want to tell his beloved	
	about his stress and hopelessness,	
	leaving her waiting.	
	It is about two lovers. The	
8.	woman is waiting for her lover or	
	husband. She loves and misses	
	him and she is waiting for him	
	forever. The picture of his	
	cigarettes refers to that he is	
	trying to forget her and he still	
	loves her. Sometimes a wife feels	
	that her husband may not love	

her and that happens in general but in fact he loves her.

Table (2) American Fe(male) Reflectors

No.	Female Participants' Interpretations	Male Participants' Reflections
1.	It is a story of miscommunication between a	It is about a different perspective
	boyfriend and a girlfriend or a man and a	of the female and the male. The
	woman who are attracted to each other and	female wants to stay with him but
	getting to know each other but they are not able	he wanted to be apart from her.
	to communicate their feelings. She is purposely	The reader envisions little
	making him wait for her while he is trying hard	animated cigarettes running.
	to dismiss her from his life. Because of their	
	negative action, they may be missing out an	
	opportunity.	
2.	It is a story of a woman who is sitting on a	The story is about a man and a
	coach in silence with her cup of cold coffee.	woman who were dating but for
	Her husband may be sitting next to her in the	some reason they break up with
	same room smoking in silence. She is upset for	broken hearts. As the woman
	not loving her in the way she expects to be	waited with her hot cup of coffee,
	loved. He was not romantic enough or did not	she longed for him and she forgot
	pay her enough attention. She has stopped	about the coffee. The man,
	communicating with him, which was	thinking of her, was trying to
	interpreted as coldness and scorn. He too does	forget about her by smoking one
	not feel loved. His reaction is to stop thinking	cigarette after the other. Both
	about the relationship and flee from it in the	miserable, they wait in vain.
	future. If the couple continues to act this way,	·
	they both will grow bitter with resentment.	
	However, if one steps forward and show love,	
	their relationship has a chance of surviving.	
3.	This sentence gives us a glimpse of a long	It is about a relationship between
	story. Either it is about a love story gone	a man and a woman for a long
	wrong- two lovers have faced obstacles that	time. The woman did something
	caused them to be apart. OR	wrong that she regrets. OR
	It is about an absent father who spends his	The man made a choice to leave
	whole life running from the responsibility of	but he did not want to because
	having a child, and a daughter who grows up	guys often feel honor-bound to
	wondering if her father might ever come back	leave even if they do not want to.
	to claim her.	The man is nervous and needs to
		calm down and the woman has
		shut down completely.
4.		It is a couple that has separated
	It is about a woman who was sitting around	but not for the first time. Her
	waiting for a man to feel sad that he was not	coffee was unattended to suggest
	with her and came back to her and confessed	that she is relatively calm and
	that he missed her. OR	expected he would come back.
		While his chain smoking suggests

	It is about a woman who was sitting in a chair with an apple on her head. The man sets up his archery equipment which took him an excessive amount of time, which led to the woman's coffee getting cold. His goal is to hit the apple not her body. That is why she is waiting him to miss her instead of hitting her body.	agitated state compared to her calmness. Their relationship has repeatedly drawn him back and he suspects this time will not be different. His chain smoking has become automated; something happens without conscious effort like the running of a car engine.
5.	I got a silly image in my mind of little cigarettes personified with arms, legs, and faces. The cigarettes were sad over the loss of their cigarette friend. They miss her so much that the only way of getting her out of their minds was to exercise running.	The sentence is a literary poetic one. It comes from a work of fiction. Its grammar helps to create a vivid picture in the reader's mind. There is a metaphorical use of vocabulary.
6.		It is about a relationship that is not working and probably ending. It is lopsided or uneven. The female seems to still in love and waiting for something that the male is unable or unwilling to give. She is distracted and her life seems to be "on hold" as she waits for what will happen while he simply waits for memories of the "good times" to fade. OR Perhaps it is just that the relationship is impossible even though they both want it. For example, their parents forbid the relationship (although this rarely happens in the USA) or one of them has had to move far away for school or work. Her way of coping is to dream that there is still a possibility everything will work out while his way is to miserably wait for the pain of missing her to pass. OR A third way of seeing this sentence is that the female is the one who holds power in the relationship. She is manipulating him and knows that sooner or later he will come back; she is a

	cold-hearted user of men. He is a
	miserable man that he cannot stay
	away from her although she is bad
	for him. Sooner or later he will be
	back for more abuseall she has
	to do is waiting.
7.	It is about a couple who are both
	dwelling on a situation neither of
	them is willing to do anything to
	resolve. It might be helpful if they
	found healthier ways of dealing
	with their problems than allowing
	in self-pity and chain smoking.
8.	It is a classic young adult breakup
	story. They both miss each other
	but neither will initiate contact.
	She is sitting in a street side café
	on an overcast day. She watches
	the happy couples pass by, each
	time reinvigorating her feelings of
	loneliness and loss. He was
	standing on the balcony of his
	rundown apartment; he looked
	like he has not been sleeping well.
	They both will deal with their
	sadness in time, but for now they
	are stuck in the past ad dreaming
	of what might have been.
	or what might have been.

.2 Results and Discussion

The study has led to the following results:

- 1. In general, the reflectors conceptualized the sentence differently reflecting different frames. On the denotative level, for instance, the participants were familiar with the linguistic elements used. Such elements represent the basis for activating different types of frames;
- **2.** All participants in both cultures managed to activate

different types of frames that have been coded differently by the researcher different colors. For instance, the frames that reflect the linguistic elements used by the participants are coded in yellow throughout The analysis. invocation frames coded in pink, on the other hand, are the prevailing ones. However, the frames coded in green are the same or than the more pink

- specifically for the female participants.
- **3.** Speaking of the Iraqi females' answers, it has been revealed that:
 - a. A number of Iraqi female participants, i.e., accused the woman of being unfaithful and of being the cause the problem in the story. For them, the woman is the one responsible is committing an unforgettable mistake which makes the man disappointed. This deciphering could be attributed to the masculine dominance in the Iraqi community;
 - 75% **b.** Moreover, of the participants used an emotional expressive when language conceptualizing the image love between husband and wife. That is: the relation between man and women in this short sentence story was depicted in their highlighted frames as that of husband and wife, not as a dating couple. As a case in points is the frame of a woman who prayed for God to meet her husband. On the other hand, 25% of them reflected the frame of

- a father and a daughter or a mother and a son. Such deciphering reflects the role of culture on shaping one's mind and conceptualizations; and
- **c.** Further. 62% of the participants expressed their attitudes and own feelings, as shown in the green coded frames. For instance, they showed the importance of time, forgiveness, the idea of misunderstanding other, how one should be given the chance to express him/herself freely clearly, and of the normal cultural norms and traditions, such as that of the fundamental role parents in their sons and girls' marriage in the Iraqi culture:
- **4.** As for the males' answers, it has been shown the following:
- a. The yellow coded frames are inclined to be more than the pink ones. This indicates that the male participants evoked their frames depending on the linguistic signs;
- **b.** Additionally, 100% of them reflect their attitudes and own values as shown in the green coded frames. Cases in point are the

following: the values and morals of the Iraqi men towards women, the idea of divorce associated with sadness, and suffering, the idea of ego, coldness connecting with the woman's waiting and the running of the man's cigarettes with the conflict he suffers;

- c. All of the participants, i.e., 100%, referred to the characters in their frames as couples, meaning lovers, not as a husband and a wife though they belong to the same culture to that of the females'.
- **d.** None of the Iraqi male participants produced more than one conceptualization to the same short story sentence; and
- 5. None of them pictured the woman in the story as the negative partner in the relationship, the on contrary of the Iraqi female participants. This could be attributed to the honored social status of wives for most of the Iraqi husbands.
- **6.** Speaking of the American reflectors, it has been illustrated that both males and females

- conceptualized the sentence differently using linguistic elements which represent the basis activating for different of frames. types example, the evocation frames coded in yellow throughout the analysis, are the prevailing ones for the males whereas those coded in pink are prevailing ones for females. However, it is clear that the green coded frames are less than the other two frames in all the American participants' reflections.
- **7.** As far as the American females' answers are concerned, it has been shown the following:
- a. Sixty percent of the female participants reflected more than one story conceptually. This is in accordance with what Fillmore (1975: 124) states that frames can be associated with other of the frames because linguistic shared containing feature(s), similar participants settings or because they occur in the same similar contexts;

- **b.**All of them express their own attitudes and feelings briefly;
- c. The activated frame of a woman who purposely makes the man wait for her not the opposite is shown by 20% of the female participants;
- d. The slot-filler representations (cognitive frames) are clearly shown by 20% of the participants, who managed to add delicate details concerning the frame of the romantic relationship between the husband and wife. The rest of the female participants, i.e., 80% reflected the frame of a couple of man and a woman;
- e. Twenty percent of the female participants activated the frame of a father leaving his daughter away; and
- f. Twenty percent of them created dynamic strange story of little personified cigarettes, using some of the words in the short story sentence (cigarettes, miss, her, and running).
- **8.** As for the American males' answers, it has been revealed the following:

- **a.** Twenty five percent of the male participants used their own expressions to highlight more than one entire story briefly;
- **b.** Seventy five percent of the participants activated the frame of a woman and a man fallen in love with different details: each ended with brief personal attitudes not as a husband and a wife. On the other hand. 25% did not what kind of mention relationship was that between the two in the story'
- c. Further, the woman is accused by 33.33% of the male participants of being the cause of the break up between the two;
- d. Twenty five percent of the males created fanciful frames of animated cigarettes and a running of a car engine; and
- e. Twenty five percent of the participants produced frames that are somehow specified for the American community, reflecting as a result the traditions in the USA culture. This confirms the important role of culture in shaping individuals' frames.

Conclusions

The paper has come up with a number of concluding remarks:

- 1. Generally, the participants from the two cultures managed highlight to different interpretations to the same one sentence short consequently, story; different frames are the result. This shows the high effect of the schema mapping their mental representations; and how the generic knowledge, including one's experiences, practices, perceptions, language, and cultural concepts stored in his/her is mind. embedded frames:
- 2. The conceptual meanings of words are conceptualized based on the stored frames. These frames are the basis for establishing word senses; thus, the frames invoked by the participants are based mainly their generic on knowledge, their schema, not so much on the linguistic which elements represented by the evoked frames;
- 3. Although many of the reflectors in both groups shared the same frames, they generated different cognitive

- contexts which are clear in the different details highlighted by females and males within the same group. In addition to the role of gender in forming their frames, this enhances the idea that meaning is conceptual and is individual proper; and
- 4. The role of culture was clear in forming the different sometimes specific frames by both the Iraqi and American participants. This confirms that one's schema culturally-specific: cultural differences influence the content of his/her mind. The Iraqis were more expressive than the Americans and their reflections were longer than the other group. This can be their different due to attitudes, values, and morals. Further, the Iragis were emotional whereas the were practical, Americans direct. and brief and sometimes they used fanciful and unreal images in their interpretations as it is shown in their reflections.

References

An, Shying. (2013). Theory and Practice in Language Studies, Vol. 3, No. 1, pp. 130-134, January, Finland.

Anderson, R. C.(1977) The notion of schemata and the educational enterprise: General discussion of the conference. In R. C. Anderson, R. T. Spiro, & W. E. Montague (Eds.) Schooling and the acquisition of knowledge. Hillsdale, NJ: Lawrenc ErlbaumAssociates.

Anderson, R.C. et al. (1977). "Frameworks for comprehending discourse". *American Educational Research Journal* 14(4): 367-381

Anderson, R.C., & Pearson, P.D. (1984). A schema-theoretic view of basic processes in reading. In P.D. Pearson (Ed.), *Handbook of Reading Research* (pp.255-291). New York: Longman.

Barsalou, Lawrence W. (1992). *Cognitive Psychology: An Overview for Cognitive Scientists*. Tutorial Essays in Cognitive Science. Hillsdale, N.J.: Erlbaum.

Bartlett, F. C. (1932). Remembering: A Study in Experimental and Social Psychology. Cambridge: Cambridge University Press.

Biocca, F. (1991). Viewer's mental models of political commercials: Towards a theory of the semantic processing of television. In F. Biocca (Ed.), Television and political advertising: Vol. 1. Psychological processes. Hillsdale, NJ: Lawrence Erlbaum Associates. Bransford, J. D., & Johnson, M. K. (1973). Considerations of some problems of comprehension. In W. G. Chase (Ed.), *Visual information processing* (pp. 383–438).

Brewer, W. F., & *Nakamura*, G. V. (1984). The nature and functions of schemas. In R.Wyer, Jr. & T. K. Srull (Eds.), Handbook of social cognition, Vol. 1.

Brown, G and Yule, (1983) *Discourse Analysis*. Cambridge: Cambridge University Press.

Campbell, J. (1989). The improbable machine: What the upheavals in artificial intelligence research reveal about how the mind really works. New York: Simon &Schuster.

Carley, K. (1991). A theory of group stability. American Sociological Review, 56, 331–354.

Carrell, P. L., & J. C. Eisterhold. (1983). Schema Theory and ESL reading Pedagogy. *TESOL Quarterly*, 19,81-92.

Carrell, P. L.(1981) "Culture-specific Schemata in L2 Comprehension," Selected Papers from the Ninth Illinois TESOL/BE Annual Convention, the First Midwest TESOL Conference, ed. by R. Orem & J. Haskell, Illinois TESOL/BE, Chicago, , pp. 123-132. Carrell, P.L. (1983). Some issues in studying the role of schemata or background knowledge in second language comprehension. *Reading in a Foreign Language*, 1, 81-92.

Cook, G. (1994). Discourse and Literature. Oxford: Oxford University Press.

Croft, W.(2000). Explaining language change: an evolutionary approach (Longman Linguistics Library). London: Longman, Croft, W. and D. A. Cruse. (2004). Cognitive Linguistics. Cambridge Textbooks in Linguistics. Cambridge: Cambridge University Press. Culpeper, Jonathan. (1998). (Im)politeness in dramatic dialogue. In Jonathan Culpeper, Mick Short & Peter Verdonk (eds.), Exploring the language of drama: From text to context. London: Routledge.

Denzin, N., & Lincoln. Y. (1994). *Handbook of Qualitative Research*. Thousand Oaks, CA, US: Sage Publications Inc.

- Eskey, D. E. (1988). Holding in the Bottom: An Interactive Approach to the Language Problems of Second Language Readers. Cambridge: Cambridge University Press.
- Evans, V. (2007). A Glossary of Cognitive Linguistics. Edinburgh: Edinburgh University Press.
- Fillmore, C. (1975) An alternative to checklist theories of meaning. In: C. Cogen; H. Thompson; G. Thrugood and K. Whistler (eds.) *Proceedings of the First Annual Meeting of the Berkeley Linguistic Society*, 123-131.
- -----(1976). Frame semantics and the nature of language. In *Annals of the New York Academy of Sciences: Conference on the Origin and Development of Language and Speech*, volume 280, pages 20–32.
- -----(1977) 'The Case for Case Reopened', in Cole, P. and Sadock (eds), *Syntax and Semantics: Grammatical Relations*. New York: Academic Press.
- ----- (1982) Frame Semantics. In Linguistic Society of Korea (ed.) *Linguistics in the Morning Calm.* Seoul: Hanshin.
- ----- (1985) Frames and the semantics of understanding. *Quaderni di Semantica* 6: 222-254.----(2011) http//978-0-19-954400-4 FM-Heine-FM-drv Heine-Narrog (Typeset by Spi, Chennai) 313 of 886 June 30, 2009
- ---- (2012). Encounters with language. Computational Linguistics 38.4. 701–18.
- Firth, J. R. (1957). Applications of general linguistics. Palmer, F. R. (ed.), Selected Papers of J.R. Firth, Indiana University Press, pp. 126–136.
- Fiske, S. T. & Linville, P.T. "What does the schema concept buy us?" Personality and Social Psychology Bulletin, 1989, 6,543-557.
- Gander, Mary J., Harry W. Gardiner, and George M. Bass. (1981) *Child and Adolescent Development*. Boston: Little Brown.
- Gee, J. P. (2004). Situated language and learning. New York: Routledge.

----- (2008). Social Linguistics and Literacies: Ideology in Discourses .London: Taylor & Francis.

Gramsci A. 1990. Culture and ideological hege- mony. In Culture and Society: Contemporary Debates, ed. J Alexander, S Seidman. New York: Cambridge Univ. Press

Hanks, W. (2000) "The Five Gourds of Memory" In Intertexts: Writings on Language, Utterance, and Context. Rowman & Littlefield Publishers, Inc.: Lanham.

Harris Z. (1946) From morpheme to utterance. *Language* 22: 161-183. Hoenisch.Steven.MAWittgensteinian.(1998).http://www.criticism.com .(accessed 15/11/2019).

Hudson, T., (1982). "The Effects of Induced Schemata on the 'Short Circuit' in L2 Reading: Non-decoding Factors in L2 Reading Performance," Language Learning, 32(1).

Iser, Wolfgang. The Implied Reader: Patterns of Communication in Prose Fiction from Bunyan to Beckett. Baltimore: The Johns Hopkins UP, 1974. Print.

Johnson, D. W. (1981). Student-Student Interaction: The Neglected Variable In Education. *Educational Researcher*, 10(1). https://doi.org/10.3102/0013189X010001005

Johnson, M. H., Dziurawiec, S., Ellis, H. D., & Morton, J. (1991). Newboms' preferential tracking effaces and its subsequent decline. Cognition, 38.

Lackoff, M. and Turner, M (1989). More than Cool Reason: Afield Guide to Poetic Metaphor. Chicago: Chicago University Press.

Lakoff, G. (1987), Women, Fire, and Dangerous Things: What Categories Reveal about the Mind, Chicago: The University of Chicago Press

Lakoff, G. and M. Johnson, (1980), Metaphors We Live By. University of Chicago Press.

Lakoff, George and Mark Johnson (1999). *Philosophy in the Flesh. The Embodied Mind and its Challenge to Western Thought.* New York: Basic Books.

Langacker, R.W. (1987) Foundations of Cognitive Grammar, Vol. I, Theoretical Prerequisites. Stanford, California: Stanford University Press.

----- (1991a) Foundations of Cognitive Grammar, Vol. II, Descriptive Application. Stanford, California: Stanford University Press.

Leech, G. & M. Short. (2007). Style in Fiction: A Linguistic Introduction to English Fictional Prose. 2nd ed. London:Pearson, Longman.

Martin, A. J. (2001). The Student Motivation Scale: A tool for measuring and enhancing motivation. Australian Journal of Guidance and Counselling, 11, 1–20

Minsky, M. (1975). A framework for representing knowledge. In P. H. Winston (Ed.), New York: Academic Press.

Newman, J. 1996. Give: A Cognitive Linguistic Study. [Cognitive Linguistics Research 7] Berlin and New York: Mouton de Gruyter.

Palmer, A.and Bachman, L., (1996). Language testing in practice. New York: Oxford University Press.

Rentsch, J. R., Mot, I. & Abbe, A. (2009). Identifying the Core Content and Structure of a Schema for Cultural Understanding. (Technical Report 1251). Arlington, VA: United States Army Research Institute.

Rivers, W., & Temperely, M. (1978). A practical guide to the teaching of English as a second or foreign language. Oxford: OUP.

Rogoff, B., & Chavajay, P. (1995). What's become of research on the cultural basis of cognitive development? *American Psychologist*, 50, 859-877.

Rosenblatt, L. M. (1994). The reader, the text, the poem: The transactional theory of the literary work. Carbondale, IL: Southern Illinois University Press.

Rumelhart, D. E. (1977). Toward an Interactive Mode of Reading. In Dornic (ed), *Attention and Performance IV*, *6*, 573-601.

----- (1980). Schemata: the building blocks of cognition. In R. J. Spiro, B. C. Bruce, & W. F.Brewer (eds), *Theoretical Issues in*

Reading Comprehension. Hillsdale, New Jersey: Lawrence Erlbaum Associations. pp. 77-85.

----- (1994). Toward an interactive model of reading. In R. B. Ruddell & M. Rapp (Eds.), Theoretical models and processes of reading (4th ed., pp. 864–894). Newark, DE: International Reading Association.

----- (1997). The architecture of mind: A connectionist approach.Mass.:MIT Press.

Saito, A. (1996). Social origins of cognition: Bartlett, evolutionary perspective and embodied mind approach. *Journal for the Theory of Social Behaviour*, 26(4), 399–421.

---- (Ed.). (2000). *Bartlett, culture and cognition*. London: Psychology Press.

Schank, R.C. and Abelson R (1977) *Scripts, Plans, Goals, and Understanding*. Hillsdale, NJ: Lawrence Erlbaum.

Sperber, D. and Wilson, D. [1986] (1995) *Relevance. Communication and Cognition*. Oxford and Cambridge, Mass.: Blackwell.Stanovich,K.E.(1980). Toward an interactive-compensatory model of individual differences. Reading Research Quarterly, 16, 32-71.

Stanovich, K.E. (1980). Toward an interactive-compensatory model of individual differences in the development of reading fluency. Reading Research Quarterly, 16, 32-71.

Ungerer, F. and Schmid, H.-J. (1996). An Introduction to Cognitive Linguistics. London: Longman.

Urquhart, A. H., & Weir, C. J. (1998). Reading in a second language: Process, product and practice. London and New York: Longman.

Varela, Francisco J.; *Thompson*, Evan; *Rosch*, Eleanor.(1991). The embodied mind: Cognitive science and human experience. MIT Press, Cambridge, MA, USA.

Vygotsky, L. S. (1978). *Mind in society*. Cambridge: Harvard University Press.