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# Short term and long-term retention rate of English-Persian paired-associates: A comparison between key-word method users and rehearsal method users

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# Keywords

Key word method, Retention, Rehearsal, Deep processing. Paired associate.

#### ABSTRACT

The present study was carried out to investigate the effect of key word method on the retention rate of Iranian EFL learners. Thus far, the studies on the efficiency of key-word method, as a strategy of vocabulary learning, have indicated mixed results, and reached no conclusive findings. To carry out the study, 40 students were chosen from among university students registered for English classes in Isfahan University. They were all pretested to make sure that they did not know the target words that were supposed to be taught in order to find out their retention rates. All the learners were divided into two groups; one key-word method group (KWMG) and one rehearsal method group (RMG). The same set of words was taught to both groups. For the first group, we used key-word method and we let the students to choose and use their own key words, which would lead to deeper processing of information, in order to enhance long term retention. For the second group only rehearsing of the new words was used. At the end of experiment, two tests were administered: one immediate test to check out their short term retention and one delayed post test to measure their long-term recall. The results of the study have shown no significant difference in short term retention but with regard to long-term retention, the Key-word method group students outperformed the rehearsal group. In addition, in a semi- structured interview with key word method group students, it was revealed that they show a great interest in the method, and maintained that they would opt for the method when memorizing other words.

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#### Introduction

Human being's curiosity about all phenomena of the world including himself, caused language to be always under investigation as one of the important aspects of human life. Indeed linguistics has always been considered as an important field of study for all communities of the world.

Native speakers of each language can understand the oral form of their own language quite easily. Also they can express everything they want within the format of their language. Hence we can say that oral forms are cues used to express different concepts. In other words language is a system which establishes a link between concepts and phonemes. Different human societies have different languages so that members of these societies cannot understand other ones without learning their language. In most societies, schools hold the responsibility of teaching foreign languages other than mother tongue. They have always tried to adopt new strategies to make this process easier and easier.

# Paired-associates and their function

In a vocabulary learning process each foreign word and its native equivalent can be shaped as paired-associates. In this process students learn a list of discrete associations such as syllables or words, generally shown in the form of A-B. Here A is the cue and B is the response. Paired-associate learning came into consideration in 1940s .First, it seemed that this process is a very simple way of learning but the fact was that it was more complicated than what people thought. Learning paired-associates is tightly related to discriminate learning .Since the learner might make a mistake in generalizing the stimuli ,he or she must be taught the differences between these stimuli .Then we come to response learning .In this step ,the examinee must recall the response from the memory , as a separate unit. The next step is to relate the discriminate stimuli to the response units .This step is called association formation. In association formation step mediators can be used .Mediators act like a bridge between nominal stimuli and nominal response .Mediators are information or preformed associations which help the examinee in learning A-B associations .Some mediators can be classified as mnemonic devices.

To store the information in memory, items of learning should be coded .In coding process the stimuli are changed in a way that they can be stored in memory. The most common strategies of coding are: maintenance or primary rehearsal and elaborative rehearsal.

Primary rehearsal mostly emphasizes on simple reviewing of the data but elaborative rehearsal tends to add or contribute something to the given information .In this case new information could be related to the old data and mental imaging can be used. Mental imaging can be considered in learning paired-associates .when the examinee learns a pair of words, he can use mental images as a cue to remember other words whenever one of the words is offered .In the process of paired-associate learning ,storage of data is not so much important but the point is how to retrieve the information .In such situations, integration of two forms of mental representation (verbal vs visual) brings about

more probability of remembering through providing various cues. In this regard as mentioned above, a mediator would be of great help. This mediation can be established through key word method. In key-word method there are two steps toward learning paired-associates: First an acoustic link is established between the pronunciation of the foreign word and a native word which is similar to the foreign word phonetically. This native word is called key-word. And second a mental image is established in which the key-word interacts with the native equivalent of the foreign word .The foreign word is related to the key-word through an acoustic link and the key-word is related to the native equivalent through a mental image. For English speakers, the keyword technique for learning foreign vocabulary depends upon linking through a mental image, one English word with another English word that is similar in its sound to the foreign word that is being learned. For example: The French for hedgehog is herrison. The learner might be instructed to 'Imagine your hairy son looks like a hedgehog' (Gruneberg & Sykes, 1991).

Both associationism and data processing theories have emphasized on the importance of practicing and reviewing in learning paired-associates .Data processing theories also refer to the role of elaboration in retention of information. Previous studies have shown that key-word method can be one of the strategies to improve memory through elaboration and it is useful in learning foreign words. But here a question arises: Is it useful in long-term retention or not?

Some researchers confirm the advantages of this method in long-term learning but some believe that rehearsal method is more effective. According to Atkinson and Raugh (1975) (Raugh & Atkinson, 1975), the keyword method has been shown repeatedly to have beneficial effects for foreign vocabulary learning (e.g. Beaton, Gruneberg, Hyde, Shufflebottom, & Sykes, 2005; Gruneberg 1992). Gruneberg (1987/ 2002) has published books and computer software that applies the keyword method to the vocabularies of many languages. The effectiveness of the keyword method derives from wellestablished, widely recognised cognitive mechanisms. Memory for paired associates benefits from interacting images (Bower, 1970; Morris & Stevens, 1974): With the keyword method, one aspect of the image denotes the meaning of the foreign word (a hedgehog) and the other, interacting, aspect is a cue to the novel sound of the foreign word (a hairy son). When either aspectthe meaning or the sound of the foreign word—is given, it acts as cue to recall the image which, in turn, cues recall of the other aspect.

The beneficial effects of generation (Jacoby, 1978; Slamecka & Graf, 1978; Wittrock, 1974) play a role as well: Although the linking idea is presented, the learner must generate the image, which makes it more memorable than information that was provided (i.e. the words); because the image provides a link between the sound and the meaning, the novel sound is more likely to be recognised and recalled. Another benefit derives from the comprehensibility of the images: Without meaning, memory is poor (Bransford & Johnson, 1973; Bartlett, 1932), and novel foreign words are, by definition, not understood by the learner. The keyword ideas and sounds, are understandable and therefore, more memorable than the foreign words.

Despite demonstrations of its effectiveness, there are questions about the usefulness of the keyword method. The long-term effectiveness of the strategy has been questioned: Wang and associates (Wang &Thomas, 1999;Wang, Thomas, &Ouellete, 1992) presented evidence that the benefits of the keyword method were temporary. However, this conclusion has been disputed by others (Beaton et al., 2005; Gruneberg, 1998) and benefits from the keyword method have been demonstrated 10 years after the study (Beaton,Gruneberg, & Ellis, 1995). Meanwhile Ellis and Beaton (1993a) reported that the keyword method of learning enhanced memory of foreign vocabulary items when receptive learning was measured. However, for productive learning, rote repetition was superior to the keyword method.

The effectiveness of the keyword method also appears to depend upon the quality of the keyword images (Beaton et al., 2005; Ellis &Beaton, 1993), so the strategy may not be as useful for people who are not adept at forming images. Also, the demonstrations of the effectiveness of the keyword method have usually involved receptive learning in which native language equivalents are learned to foreign words. The evidence for benefits in productive learning, in which foreign language words are learned to the native words, is less convincing (Ellis & Beaton; Pressley & Levin, 1981; Pressley, Levin, Hall, Miller, & Berry, 1980). Beaton et al. (2005) reported that both receptive and productive learning were facilitated by the keyword mnemonic, but only when good images were formed by the learner. Another potential limitation of the keyword mnemonic is the need to devise a suitable keyword to link the English and the foreign word. Most studies of the keyword method provide participants with suggestions for keyword images, and courses with suggestions for many words in the vocabularies are available (Gruneberg, 1987/2002). However, someone wishing to apply the mnemonic to other words beyond these sets must devise their own conversions between the languages. This can, in itself, be interesting and perhaps beneficial to learning the translations, but it is also demanding of effort, creativity and time. Therefore in this study we only let the students to choose their own keywords, to memorize them more efficiently and increase the retention length. Letting students to handle the key word construction could improve students' creativity, and help them to be able to manage their future usage of method. This gave the study a further significant.

A very important point is that most students are not familiar with effective methods of learning so that they always try to memorize the materials by repeating them over and over. Cox(1994) conducted a research on the effects of visual elaboration on cognitive processes of adult learners. Results showed that visual elaboration strategies lead to better processing of data and as a result better retention will occur.. To evaluate the effects of strange and non-familiar mental images on learners, a set of paired associates were offered to 45 students and the students were tested within 0,3,5 days. Results showed that items accompanied with strange mental images can lead to better retention rates. (Iaccino-1996)

Ellis and baton (1993) considered the psycholinguistic factors which facilitate vocabulary learning. 47 students took part in their research. They asked the students to learn a set of German words using rehearsal method, key-word method or optional methods. Results showed that vocabulary learning becomes easier whenever the words were similar to native language words phonologically. Moreover, if a word could be memorized with a mental image, it could stick in mind better than other words.

Ironsmith and Lutz (1996) conducted four experiments to consider the effects of mental imaging on retention of pairedassociates. In these experiments the researchers wanted to compare the effects of mental images provided by examinees themselves the ones given by the examiner. Result led to the point: Retention rate of paired-associates in the first group (students who used their own images) was meaningfully higher than the second group (students who used the examiners images). Therefore letting the students to choose their own key words may enhance retention.

# **Research method**

#### Subjects of the study

Forty students participated in this research they were all chosen from among those registered in English classes in Isfahan University. All of them were pre tested on Oxford Placement Test and those which were at pre intermediate level and did not know the target vocabularies, were selected for the study. They were randomly divided into two groups. 20 each. Group A used key-word method (KWMG) and Group B (RMG) used rehearsal method. Group A was instructed how to use the Key-word method but group B just had to repeat and review the material.

#### Materials

The materials used in this study were: first Oxford Placement Test, to homogenize students' proficiency level. Second: a vocabulary test consisting of 20 target words. Third: A set of words offered to KWMG (including 20 words , their pronunciation ,their Persian counterparts , a key word and a sentence including the key word for each word )-form A. and forth: A set of word given to group (RMG) (including the same 20 words , their pronunciation and their Persian counterparts.)-form B.

#### The experiment

The study was carried out in Isfahan University. Those students who wanted to attend English classes were pre tested on OPT test and a vocabulary test, consisting our 20 target vocabularies. Those who did not know the target words and were at pre intermediate level were selected and were randomly

assigned to two groups: One Key Word Method Group, (KWMG), and one Rehearsal Method group. After 4 sessions the treatment begun, because we wanted to make sure that students got used to their classes. Then KWMG students were receiving the treatment for 2 consecutive sessions, 10 words each session, to get used to the way they must study the words. We gave them the new English words one by one in their context of use in English with their meanings, and then the students were asked to think about on possible counterpart in Persian and make a sentence with it ( in their native language Persian). After a discussion they would come up with an agreement on a possible sentence in Persian, which the key word was used in. For RMG we only gave them the new English words in their context of use, 10 words each day, and then they had memorized it with its Persian counterpart, simply by rehearsing method. In the third day the immediate post test was administered for both groups, and after 2 weeks the delayed post test was also administered. To analyze the data, each item was assigned one point and to compare the groups a T-test was run. At the end in a semi-structured interview all students were asked about how their feeling toward key word method. Results and discussion

#### Results

Two tests were administered in this research, one as short term and the other as long-term. After scoring the tests a comparison was made between the two groups to see if there is any difference between the groups. Two paired samples T tests were performed and the results:

# **T-Test**

#### Short term data analysis Independent Samples Statistics Table 1

Group Statistics								
	groups		Mean	Std. Deviation	Std. Error Mean			
pretest	1	0	70.75 00	15.15490	3.38874			
	2	0	63.00 00	13.70747	3.06508			

			Indep	endent Sa	mples '	Fest					
			Inde	ependent San	nples Te	est					
			vene's Test for lity of Variances	t-test for Equality of Means							
						Sig. (2-	Mean	Iean Std. Error		95% Confidence Interval of the Difference	
		F	Sig.	t	df			Difference	Lower	Upper	
pretest	Equal variances assumed	.253	.618	1.696	38	.098	7.75000	4.56928	-1.50002	17.00002	
	Equal variances not assumed			1.696	37.623	.098	7.75000	4.56928	-1.50306	17.00306	

Table 3						
Independent Samples Test						
T. J J 4 C 1 T 4						

				Ind	epe	ndent San	nples Test			
		Levene's T Equality of V		t-test for Equality of Means						
						Sig. (2-	Mean	Std. Error	95% Confidence Interval of the Difference	
		F	Sig.	Т	df	tailed)	Difference	Difference	Lower	Upper
-	Equal variances assumed	4.042	.052	8.330	38	.000	24.50000	2.94131	18.54563	30.45437
										30.48232

#### Table 2 Long term data analysis Independent Samples Statistics

Group Statistics							
	groups	Ν	Mean	Std. Deviation	Std. Error Mean		
posttest	1	20	54.2500	10.91534	2.44075		
	2	20	29.7500	7.34041	1.64136		

# Table 4

From these analyses the following inferences were made :

1 .In short term there is no significant difference between the two groups (p<0.05, df=19, t=1.91).

2. In long term retention rate group A is superior to group B (p<0.05 ,df=19 , t=2.17). The null hypothesis is rejected. And KWMG outperformed RMG

# Discussion

The results showed that in long-term learning using keyword method is significantly advantageous. William James (1890) described a powerful memory as " in mental term, the more other facts a fact is associated with in the mind, the better possession of it in our memory retains. E each of its associates becomes a hook to which it hangs, a means to fish it up by when sunk beneath the surface. Together they form a network of attachments by which it is woven into the entire issue of our thought. The secret of a good memory is thus the secret of forming diverse and multiple associations with every fact we According to data processing theories, care to retain". forgetting occurs due to missing learning cues. Using a keywords or mental images can facilitate the application of clues during retention process. Key-word method is based on elaboration of items and it causes better retention. Key-words and mental images could improve the performance of memory because in these methods a stimuli is stored with two codes and remembering the data which is stored with two codes is much easier than one code items.

# Conclusion

The students' need to learn new vocabulary as a crucial constituent of the target language is indisputable. Competing methods had been put forth to address this pressing need as felt by the students. However, psycholinguists have not yet unanimously arrived at one-fit-all technique to submit the new words to the memory.

This paper was an attempt to compare two much-touted techniques of acquiring new vocabulary. It cannot be negated that the more hooks there are in the cognitive structure of the students, the more lasting the retention of the newly-learned vocabulary will be. A comparison was, therefore, made between the Rehearsal method (smacking of the bad old days of the Audiolingual method) and the Key word method.

The results of the study revealed the supremacy of the Key word method over the Rehearsal method in long-term retention but not in short-term retention. In this study the students were taking part in thinking about and choosing their own key words to memorize the new words, which could lead to deeper processing of information. According to Ellis (2003) in the psychological literature, learning is more significant if it involves greater depth of processing. Thus the new information can be better stored and retrieved, and leading to better acquisition of new vocabularies. Also in a semi structured interview running at the end of experiment, the students have shown a great interest in using key word method. As our main concern in teaching a foreign language is maximizing the longterm retention of the newly-learned words, it may be helpful to take key word method into account.

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2 سبف ، على اكبر (1379) روانشناسي پرورشي. تهران : انتشارات آگاه Appendixes

#### Form A for key word method group

**Pronunciation Meaning key-word Sentences** 

سازگاري	کانگورو	<u>ي</u> دارد.	<u>کانگورو</u> با استرالیا <u>سازگار</u>				
كانكروئيتي	congruity Kang	garoo has con	gruity with Australia.				
انتقاد كردن	ريل	رد.	شهردار از وضع ریل انتقاد ک				
	rai ريل	1					
Mayor has r	ailed the rail sy	stem					
تينت	سد کر دن	طينت فا	طينت				
ِ فاسد شدہ بود	taint او						
His nature v	vas tainted						
فراوان	لاشه		لاشه در أنجا فراوان بود				
	لاش	lush					
Carcasses were lush there.							
ىدوم شدن	ميامي مص		او در ميامي مصدوم شد				
	ميم	maim					
He was mai	med in Miami.						

He was maimed in Miami.

Wolf Suddenly sallied forth toward Sally.

منهدم کردن	ريز ش ريز	raze	ریزش کوه خانه را منهدم کرد
Mountain falls ra			round.
ضعيف	يونه پونه	ise to the B	يونه ها هنوز ضعيف بودند
		puny	J JJ J.
The mint was st		pully	
ine innit was st شکاف	.in puny. رفت		با جسارت به میان شکاف رفت
	ریف ریفت	rift	ب جمارے بہ میں ساف رک
XX7'41			
With courage he			
پېټيك	ارشي	حو	بدنبال دار د پېسي
ي مشكل گوارشي			
Pepsi will cause	peptic probl	lems	
غيبگو	سير		مرد غیبگو سیر غذا خورد
	سير	seer	
The seer ate the f	ood comple	etely	
مسخره	أ ژست	2	ژست مسخر ہ اي داشت
5	حست	jest	÷ > _ >
What a jest gestu	•	Jest	
	نىنا		نىن جادان ھى كەرب نىپر
كودن	*	•	نيني چندان هم كودن نبود
<b>T</b> 1 1	نيني	ninny	
The baby was no	•		
خشكيدن	پارچ		أبي داخل پارچ خشکيده بود
	پار چ	parch	
The water in the	pitcher was	parched by	y sun.
	وحيد		وحيد پسر بي مزه اي بود
	و بېد	vapid	
Vahid was a vapi			
زاري	صابر		صابر هميشه در حال زاري بود
ر ار ي	ساب		عدبر شينه در حال راري بود
California a shihin	•	500	
Saber was sobbin	-	ne.	
غربال	سفت		دانه هاي سفت را غربال کرد
	سيفت	0.5 **	ft
You must sift out	t tha taugh a	1.	
i ou must sint ou	t the tough s	seeds	
رجز خواندن	د the tought راند	seeds	براي راند بعدي رجز مي خواند
	-	rant	براي راند بعدي رجز مي خواند
رجز خواندن	ر آند رنت	rant	براي راند بعدي رجز مي خواند
رجز خواندن He was ranting fo	راند رنت or the next r	rant	
رجز خواندن	ر آند رنت or the next r بین	rant ound.	بين دوراهي مرگباري مانده بود
رجز خواندن He was ranting fo مرگبار	ر آند رنت or the next r بین بین	rant ound.	
ر جز خواندن He was ranting fo مرگبار a bane junction o	ر آد رنت or the next r بین f his life.	rant ound.	بين دوراهي مرگباري مانده بود he was hesitating between
رجز خواندن He was ranting fo مرگبار	ر آند رنت or the next r بین f his life. رو	rant round. bane 1	بين دوراهي مرگباري مانده بود he was hesitating between روي افسوس خوردن هم نداشت
رجز خواندن He was ranting fo مرگبار a bane junction o افسوس	ر آند رنت or the next r بین بین f his life. رو	rant ound. bane ا خوردن	بين دوراهي مرگباري مانده بود he was hesitating between روي افسوس خوردن هم نداشت
رجز خواندن He was ranting fo مرگبار a bane junction o افسوس He could not eve	ر اند رنت بین بین f his life. رو n rue afterw	rant cound. bane ا bane ا خوردن vard.	بين دوراهي مرگباري مانده بود he was hesitating between روي افسوس خوردن هم نداشت
رجز خواندن He was ranting fo مرگبار a bane junction o افسوس He could not eve <b>Form <u>B</u> for rehe</b>	ر آند رنت بین بین f his life. رو n rue afterw	rant ound. bane ا bane ا خوردن r	بين دوراهي مرگباري مانده بود he was hesitating between روي افسوس خوردن هم نداشت ue
رجز خواندن He was ranting fo مرگبار a bane junction o افسوس He could not eve	ر آند رنت بین بین f his life. رو n rue afterw	rant ound. bane ا bane ا خوردن r	بين دوراهي مرگباري مانده بود he was hesitating between روي افسوس خوردن هم نداشت ue
رجز خواندن He was ranting fo مرگبار a bane junction o افسوس He could not eve <b>Form <u>B</u> for rehe</b>	ر آند رنت بین بین f his life. رو n rue afterw	rant ound. bane ا bane ا خوردن r	بين دوراهي مرگباري مانده بود he was hesitating between روي افسوس خوردن هم نداشت ue
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ريفت	شكاف	وپيد	بي مزه
rift پېتىك	گوارشى	vapid ساب	زاري
peptic سیر	غيبگو	sob سيفت	غربال کردن
seer	مسخره	sift رنت	رجز خواندن
jest		rant	
نيني ninny	كودن	بین bane	مرگبار
پارچ parch	خشکیدن	رو	افسوس خوردن