

Bilingualism and access to a third language

**Access to the Spanish language by
Russian-Romanian bilinguals**

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Introduction

“Bilingualism is a multidisciplinary subject par excellence. It touches upon so many aspects of human behavior: it is a fruitful area for the study of language contact; it is intriguing for the way that it relates to the human mind; it reflects social behavior and the organization of society; and it can shape educational systems”

(Morris Jones, B., Singh Ghuman, 1995, p. 1).

Introduction

Bilingualism has also connection with the neuroanatomical organization, implying greater cognitive flexibility and heightened sensitivity in a bilingual individual.



Objectives of the research

Problematic:

Russian-Romanian bilingualism. Bilingualism between two different families of languages in respect of the comprehension of the Spanish language without its prior learning or studying.

Objective:

Analysis of the ability of informants to understand a language they do not know proceeding from the “language baggage” acquired during their lives, implying the difference in the way of thinking and analyzing acquired language data, thus, resulting in more successful understanding capacity.

Objectives of the research

Tasks

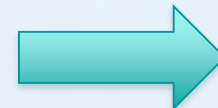
General corpus creation, its division into 3 corpuses and data categorization

Corpuses transformation into questionnaires for the experiment

Revelation of comprehension grade in each of the groups of informants using the created questionnaires

Comparison of acquired results and revelation of the group of informants with the highest comprehension results

Conclusions and hypothesis confirmation / refutation



Objectives of the research



Hypothesis:

Bilingual people, presenting bilingualism between two different families of languages (Russian-Romanian bilingualism) comprehend and then acquire more efficiently a language from one of the families of languages they speak natively (the Spanish language) in comparison with the monolingual individuals presenting any of the languages considered in the bilingual individuals (Russian and Romanian monolinguals).

Informants

- Russian monolinguals (Russia, Saint-Petersburg)
Native language: Russian. No knowledge of Romanian or Spanish.
- Romanian monolinguals (Romania)
Native language: Romanian. No knowledge of Russian or Spanish.
- Russian-Romanian bilinguals (Moldova)
Native languages: Russian, Romanian. No knowledge of Spanish.

2 groups according to the age:

1st group: 20-30 years old

2nd group: 35-50 years old

NB: all the informants have similar social, cultural and educational backgrounds

Methodology

1. Field definition

Lexical and communicative
Public writings of urban transports of Barcelona:
metro, bus, tramway and the urban train “Renfe” (“Cercanías”)
(considering transport security, administration and orientation)

2. Corpus creation

General corpus



3 corpuses with the following material:

1. word forms
2. statements
3. texts

Methodology

3. Obtained data categorization

3.1 WORD FORMS

Labels proposed by the group EAGLES for the morphosyntactic annotation of lexicons and corpus:

ETIQUETTES			
Position	Attribute	Value	Code
<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>

Methodology

New additional elements introduced:

e.g.

C – for the comparative form
for adjectives and adverbs:

mejor *bueno* AQ0CS0C

más *mucho* RGC00

ADJETIVES			
Position	Attribute	Value	Code
1	Category	Adjective	A
2	Type	Qualificatory	Q
3	Grade	Appreciative	A
4	Gender	Masculine	M
		Feminine	F
		Common	C
5	Number	Singular	S
		Plural	P
		Invariable	N
6	Case	-	0
7	Function	Participle	P
		Comparative	C



ADVERBS			
Position	Attribute	Value	Code
1	Category	Adverb	R
2	Type	General	G
3	Function	Comparative	C
4	-	-	0
5	-	-	0

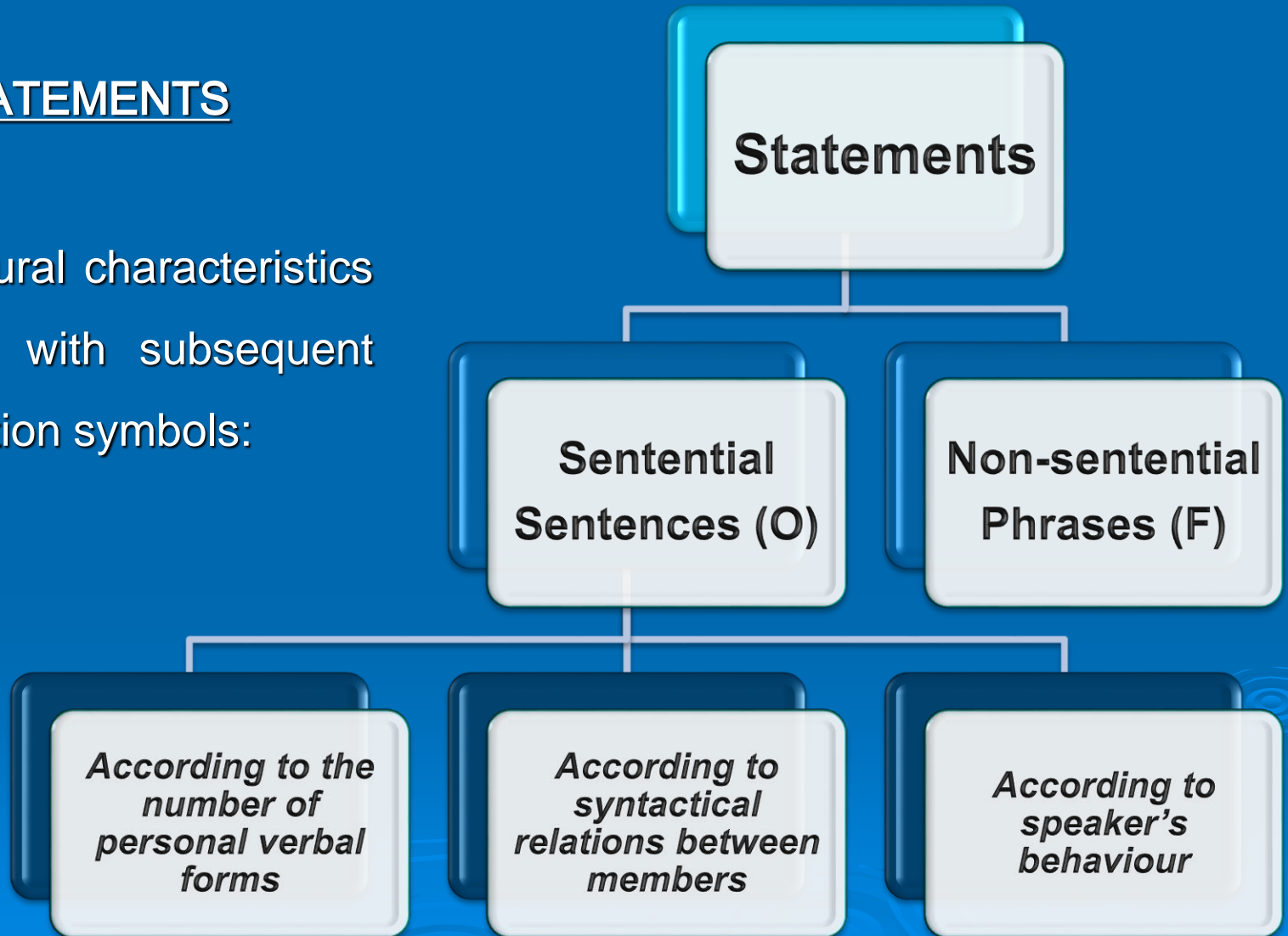


No.	Word form	Lemma1	TAG1	Lemma2 (optional)	TAG2 (optional)
109	bicicleta	bicicleta	NCFS000		
110	bienes	bienes	NCMI000		
111	billete	billete	NCMS000		
112	billetes	billete	NCMP000		
113	boca	boca	NCFS000		
114	bordo	bordo	NCMS000		
115	borde	borde	NCMS000		
116	botón	botón	NCMS000		
117	botones	botón	NCMP000		
118	brazos	brazo	NCMP000		
119	buen	buen	AQ0MS00		
120	busque	buscar	VMMP3S00 0		
121	cabinas	cabina	NCFP000		
122	cables	cable	NCMSP000		
123	cada	cada	DI3CS00		
124	caídos	caer	VMP00PM0 0		
125	caja	caja	NCFS000		

Total number: 969 word forms

3.2 STATEMENTS

A structural characteristics scheme with subsequent codification symbols:

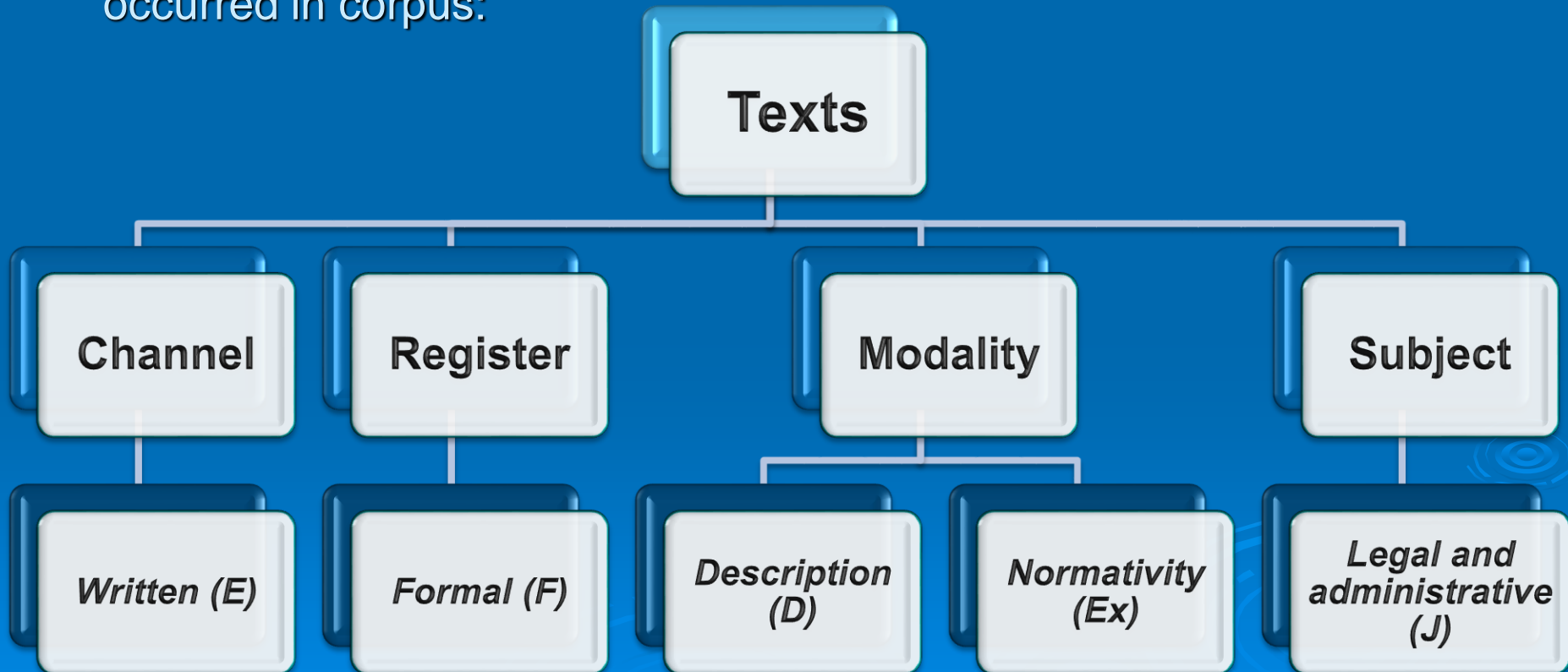


No.	Statement	Code
105	Estación de Ferrocarril	F
106	Estación Marítima	F
107	Estación terminal	F
108	Este colectivo tiene preferencia en el uso de los ascensores.	OSPPreActTrNproA
109	Evacúe con rapidez, pero no corra	OAdvslPre0IntrNproExh
110	Existe un ejemplar del Reglamento de viajeros a disposición de los usuarios en todas las estaciones.	OSPPreActIntrNproA
111	Extracto de las disposiciones contenidas en el reglamento de la ley de ordenación de los transportes terrestres.	F
112	Familias monoparentales y numerosas	F
113	Facilita el trabajo de los inspectores	OSIPre0TrNproExh
114	Facilite el trabajo a los inspectores	OSIPre0TrNproExh

Total number: 322 statements

3.3 TEXTS

A scheme representing texts categorization model and combinations occurred in corpus:

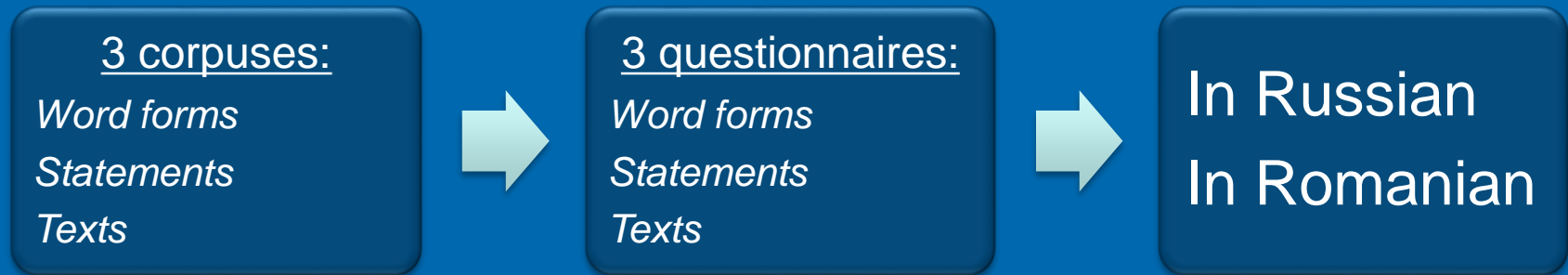


No.	Text	Code
1	10 desplazamientos integrados en todos los modos de transporte según las zonas a atravesar (de 1 a 6 zonas). Título multipersonal y horario.	EFExJ
2	50 desplazamientos integrados en todos los modos de transporte según las zonas a atravesar (de 1 a 6 zonas). Validez: 30 días consecutivos desde la primera cancelación. Título unipersonal y horario.	EFExJ
3	70 desplazamientos integrados en todos los modos de transporte según las zonas a atravesar (de 1 a 6 zonas). Validez: 30 días consecutivos desde la primera cancelación. Título multipersonal y horario.	EFExJ
4	Aparato de alarma paro de escalera. El uso indebido será castigado por la ley art. 11.2 APT. C) del reglamento de viajeros de este ferrocarril.	EFExJ
5	Apertura de puerta en caso de emergencia: 1.Romper el vidrio de la caja de la maneta. 2.Accionar la maneta. 3.Abrir la puerta manualmente. Terminantemente prohibido el uso indebido.	EFDJ
6	¡Atención! Con luz roja, puerta fuera de servicio. Utilice las otras puertas. No entrar ni salir con luz amarilla intermitente.	EFDJ

Total number: 32 texts

Methodology

4. Experiment



Strategy: from the most general to the most concrete



The 1st questionnaire to be filled in – TEXTS

(three different questions proposed with three answer options)

TEXT №1

10 desplazamientos integrados en todos los modos de transporte según las zonas a atravesar (de 1 a 6 zonas). Título multipersonal y horario.

Care este tipul acestui anunț?

- a. instrucționare
- b. descripțiune
- c. interdicție

What is the type of this message?

Cui acest text este adresat?

- a. pasagerilor, doritori de-a scimba mijlocul de transport
- b. conductorilor mijloacelor de transport
- c. pasagerilor, doritori de-a procura un bilet de transport

Who is this text addressed to?

Care sunt scopurile și sarcinile comunicării?

- a. transmiterea informației despre tipul biletului de transport
- b. transmiterea informației despre regulile folosirii mijloacelor de transport
- c. transmiterea informației despre tipurile mijloacelor de transport

What are the aims and tasks of the message?

The 2nd questionnaire to be filled in – STATEMENTS

(six different grades of comprehension proposed for one to be marked):

1. I do not understand either the sentence on the whole or its constituents.

I understand...

2 ...only separate words in the sentence, but not the meaning of the whole sentence.

3 ...only the general sense of the sentence, although many words are unclear to me.

4 ...the meaning of the sentence, although some words are unclear to me.

5 ...completely the whole sentence, although i am not sure about the meaning of one (two) words.

6 ...completely the whole sentence and its constituents.

Alegeți cea mai bună descriere a modului în care ați înțeles aceste enunții:

- 1 - Nu înțeleg propoziția în ansamblu, nici cuvintele constituente.
- 2 - Înțeleg doar câteva cuvinte într-o propoziție, dar nu înțeleg sensul propoziției întregi.
- 3 - Înțeleg doar sensul general al propoziției, deși multe dintre cuvinte nu sunt înțelese.
- 4 - Înțeleg sensul propoziției, deși unele cuvinte nu sunt înțelese.
- 5 - Înțeleg pe deplin propoziția întregă, deși nu sunt sigur de sensul al unui (două) cuvinte.
- 6 - Înțeleg pe deplin propoziția întregă și toate cuvintele constituente.

1. 10 desplazamientos integrados en todos los modos de transporte según las zonas a atravesar (de 1 a 6 zonas)

I do not understand either the sentence on the whole or its constituents.

1 2 3 4 5 6



I understand completely the whole sentence and its constituents.

2. 50 desplazamientos integrados en todos los modos de transporte según las zonas a atravesar (de 1 a 6 zonas)

1 2 3 4 5 6

Nu înțeleg propoziția în ansamblu, nici cuvintele constituente.



Înțeleg pe deplin propoziția întregă și toate cuvintele constituente.

The 3rd questionnaire to be filled in – WORD FORMS

(three different translation options proposed):

Part of speech
enquiring

304	el	Что это? а. предлог	б. артикль x	с. наречие
-----	----	------------------------	---------------------	------------

Different translation
options within the
same part of speech
and form

160	civil	а. цивильный	б. гражданский x	с. городской
-----	-------	--------------	-------------------------	--------------

Different translation
options within the
same part of speech
but a different form

379	fichero	а. файл x	б. зажигалка	с. фишка
-----	---------	------------------	--------------	----------

Different translation
options from different
parts of speech

414	gratis	а. гранит	б. бесплатно x	с. гравировать
-----	--------	-----------	-----------------------	----------------

Identical translation
options for different
parts of speech

509	línea	а. линия x	б. линейка	с. линейный
-----	-------	-------------------	------------	-------------

Alegeți traducere corectă:

Choose the correct translation

1. a

Ce-i asta?

- a. articol
- b. substantiv
- c. prepoziție

1. a

Что это?

- a. предлог
- b. артикль
- c. существительное

2. (no se) abalance

- a. nu v-a aruncați
- b. nu v-a balansați
- c. nu v-a așezați

2. (no se) abalance

- a. (не) балансируйте
- b. (не) прыгайте
- c. (не) садитесь

3. abandonar

- a. a arunca
- b. a lăsa
- c. a părăsi

3.abandonar

- a. покидать (выходить)
- b. бросать
- c. отказываться

Romanian

Russian

Results comparative arrangement. Texts

*Russian-Romanian bilinguals, The Russian language,
1st age group*

26 correct

24 correct

	1	2	3	4	5	6	7	8	9	10
	c c b b a c a c a a c c a a c c c b b c b a a b a b c a c b									
TX1RUSROM11	c c b b a c a c a a c c a a c c c c a b c b a b b a a b a c b									
TX1RUSROM12	a c b c a c b c a a c c a a c c c c b b c b a a a a b c a c b									

Table 17

*Russian monolinguals, The Russian language,
1st age group*

13 correct

21 correct

	1	2	3	4	5	6	7	8	9	10
	c c b b a c a c a a c c a a c c c b b c b a a b a b c a c b									
TXRUS11	a b c c a c b b b b a c a a c c c c c c a b a b b b a c b									
TXRUS12	c b c b b c a a a a c c a a c c c c b c b c a a c a c a c b									

Table 1

Results comparative arrangement. Texts

Russian-Romanian bilinguals, The Romanian language, 1st age group

		1	2	3	4	5	6	7	8	9	10																			
		b	c	a	a	c	c	c	a	b	b	a	c	b	b	a	b	c	a	c	b	c	b	a	a	c	c	a	b	c
18 correct	TX2RUSROM11	a	c	b	b	a	c	c	c	c	b	b	c	b	b	a	b	b	c	b	a	b	b	a	a	c	b	a	b	c
24 correct	TX2RUSROM12	b	c	a	a	c	c	c	a	c	b	b	a	b	a	a	b	c	c	c	b	c	b	b	a	c	c	a	b	c

Table 21

Romanian monolinguals, The Romanian language, 1st age group

		1	2	3	4	5	6	7	8	9	10																			
		b	c	a	a	c	c	c	a	b	b	a	c	b	b	a	b	c	a	c	b	c	b	a	a	c	c	a	b	c
12 correct	TXROM11	a	a	b	b	c	b	b	c	b	a	c	b	b	a	b	b	c	c	b	a	b	c	b	a	b	b	c	b	

Table 9

General results comparison

The results obtained for the bilingual group of informants were higher in comparison to those obtained for both Russian and Romanian monolinguals:

		Correct answers (%)	Correct answers	Correct sets of questions (%)	Correct sets of questions
Russian monolinguals	1 st age group	65.1%	62.5	43.75%	14
	2 nd age group	65.28%	62.7	33%	11
TOTAL		65,19%	62.6	38,37%	12.5
Romanian monolinguals	1 st age group	34,37%	33	3,12%	1
	2 nd age group	72,91%	70	53,12%	17
TOTAL		53,64%	51.5	28,12%	9
Russian-Romanian bilinguals The Russian language	1 st age group	78.64%	75.5	77%	18
	2 nd age group	71,35%	68.5	35.93%	11.5
TOTAL		74.99%	72	56.46%	14.75
Russian-Romanian bilinguals The Romanian language	1 st age group	80,18%	77	56,24%	18
	2 nd age group	75%	72	56.24%	18
TOTAL		77,59%	74.5	56,24%	18

Results comparative arrangement. Statements

Russian-Romanian bilinguals. 1st age group.

The Russian language

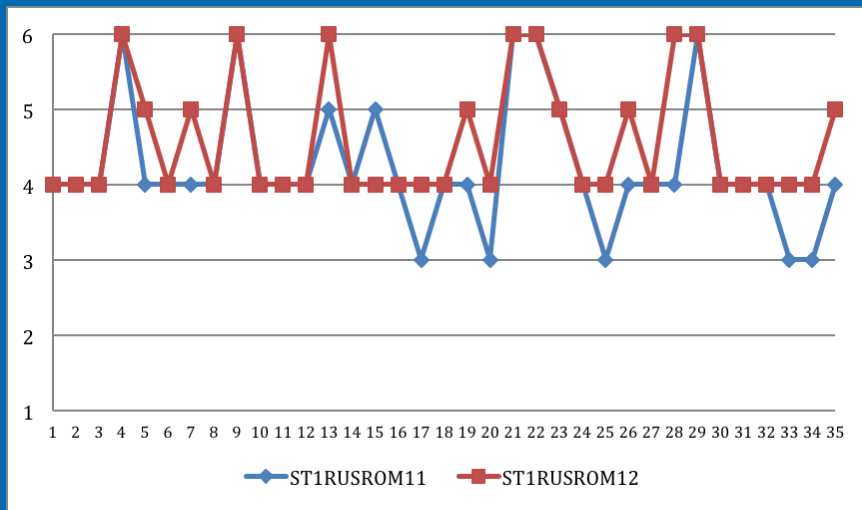
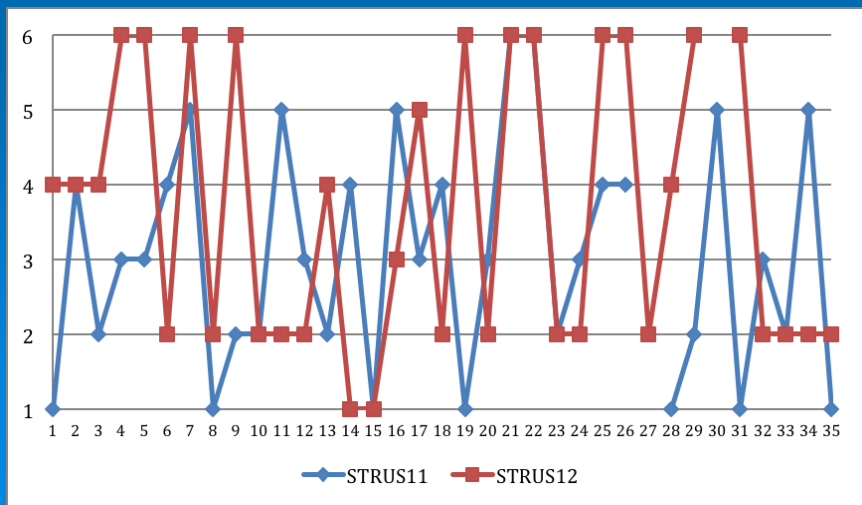


Figure 49

Russian monolinguals. 1st age group. The Russian language



Russian-Romanian bilinguals. 1st age group.

The Romanian language

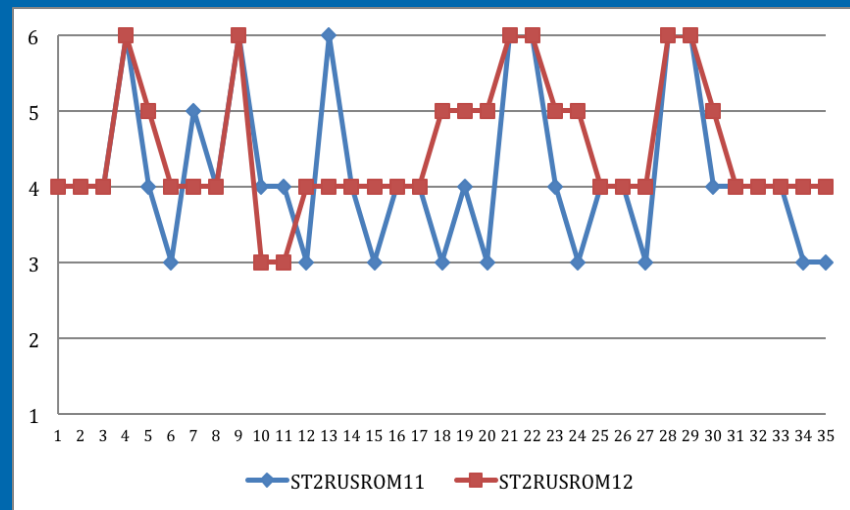
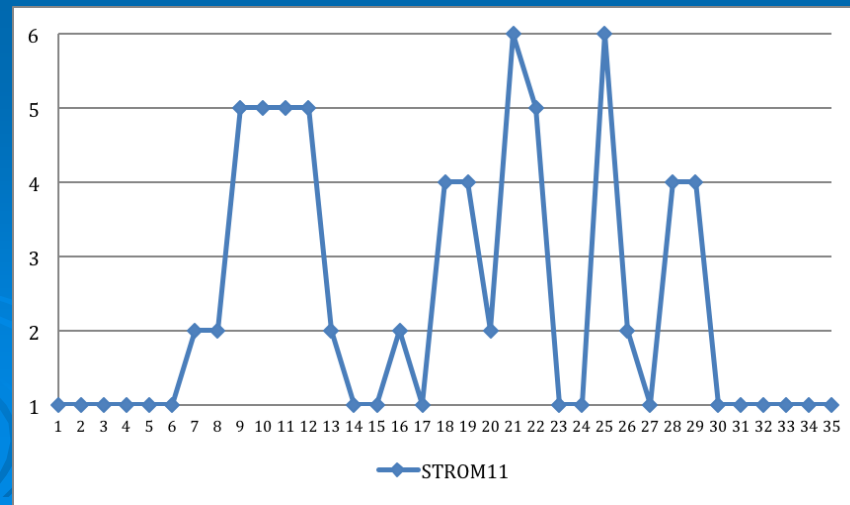


Figure 61

Romanian monolinguals. 1st age gr. The Romanian language.



The statements with the highest degree marked (i.e. 6) by all these informants:

4	20:30H - finalización del servicio	F
5	A partir del 1 de septiembre de 2012 nuevas tarifas de transporte público	F
7	Abrir la puerta manualmente	F
9	Acceso a Metro	F
13	Actuación en caso de emergencia	F
19	Asientos reservados	F
21	¡Atención!	F
22	Autobuses de la zona	F
25	Ayuda a la evacuación	F
26	Ayude, si puede, a personas con movilidad reducida.	OSIPre0TrNproExh
28	Billetes y tarjetas	F
29	Buen viaje	F
31	CAPITULO V. Prohibiciones y obligaciones en la utilización de los transportes ferroviarios.	F



Phrases and simple sentences are understood the best



General results comparison

The average understanding degree grades for the bilingual group of informants were higher than those for Russian and Romanian monolinguals:

		Average understanding degree (out of 6)
Russian monolinguals	1 st age group	2.81
	2 nd age group	2.14
TOTAL		2.47
Romanian monolinguals	1 st age group	1.6
	2 nd age group	2.5
TOTAL		2.05
Russian-Romanian bilinguals The Russian language	1 st age group	4.34
	2 nd age group	4.02
TOTAL		4.09
Russian-Romanian bilinguals The Romanian language	1 st age group	4.08
	2 nd age group	4.05
TOTAL		4.06

Results comparative arrangement. Word forms

Russian-Romanian bilinguals. Russian
WF1RUSROM11

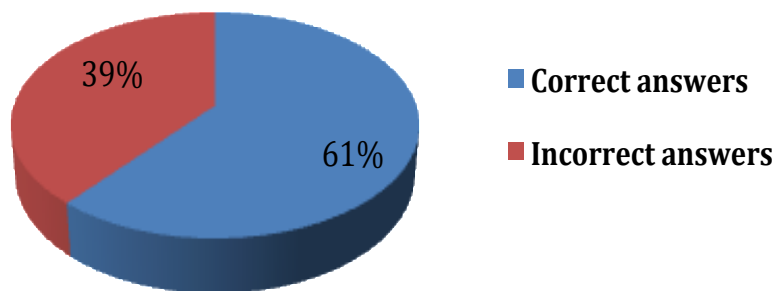


Figure 103

Russian-Romanian bilinguals. Romanian
WF2RUSROM11

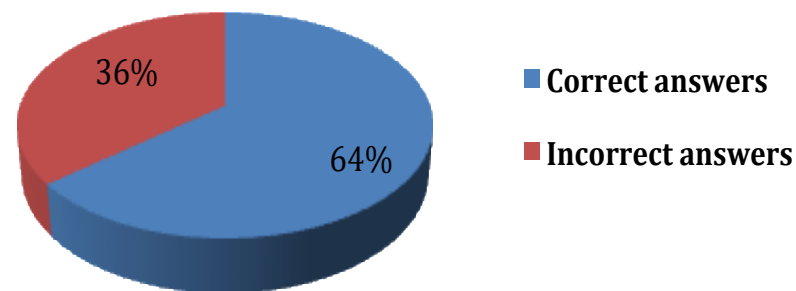
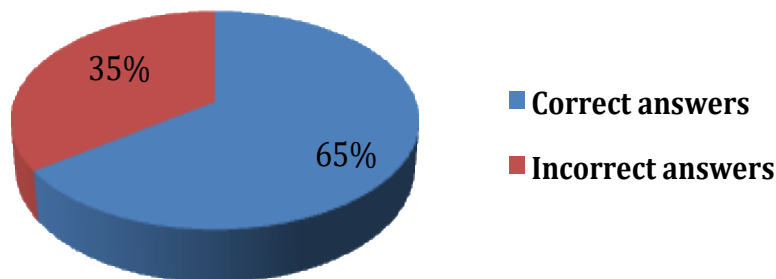


Figure 104

Russian monolinguals



Romanian monolinguals
WFROM11

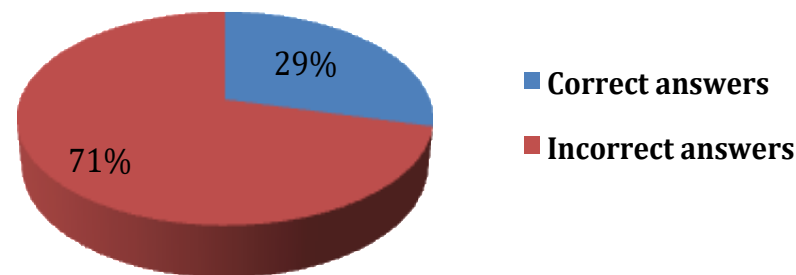


Figure 102

General results comparison

The average understanding grades obtained for the bilingual group of informants were higher than those of the Romanian informant and two Russian individuals:

		Correct answers	Correct answers %
Russian monolinguals	1 st age group	783	80%
	2 nd age group	358	37%
		686	70%
		440	45%
	TOTAL %		51%
TOTAL GROUP %			65%
Romanian monolinguals		281	29%
Russian-Romanian bilinguals The Russian language		594	61%
Russian-Romanian bilinguals The Romanian language		621	64%

Conclusions

1. Bilingual individuals manifested significantly higher results in respect to other two groups of informants as regards the questionnaires “Text” and “Statement”.
2. In relation to the questionnaire “Word form”, the Russian-Romanian bilingual informant manifested higher results in comparison to those acquired by the Romanian monolingual individual and two individuals from the Russian monolingual group.



Conclusions



After having considered all the aspects we can state that the hypothesis was confirmed:

Bilingual people, presenting bilingualism between two different families of languages (e.g. Russian-Romanian) comprehend and then acquire more efficiently a language from one of the families of languages they speak natively (e.g. Spanish) in comparison with the monolingual individuals presenting any of the languages considered in the bilingual individuals (i.e. Russian and Romanian monolinguals).

Conclusions



This is resulted from the creation of specific strategies involving a possible particular development of brain functioning in reference to the comprehension of a third language.

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...Thank you for your attention!

A decorative graphic consisting of several sets of concentric circles in a lighter shade of blue, scattered across the bottom right portion of the slide.