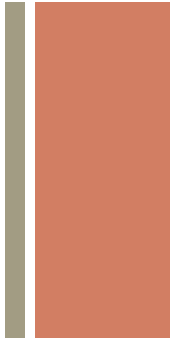


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Reading anxiety: Its effects on reading strategy and reading comprehension



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Contents

1. Introduction

2. Participants

3. Instruments

4. Results

5. Discussions

6. Limitations

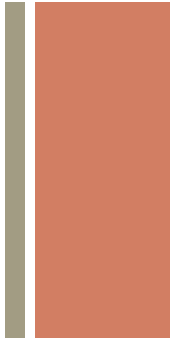
7. Implications





Anxious when reading?

- Have you experienced?

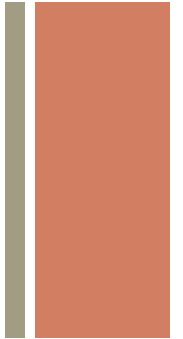


Reading foreign language posts here and there and your heart starts racing and you have to step away from reading and calm down?



Anxious when reading?

- Have you experienced?



Feeling so
confused that
you can't
remember what
you are
reading?



Anxious when reading?

- Have you experienced?



Feeling
intimidated
when you see a
whole page
written in a
foreign/second
language?

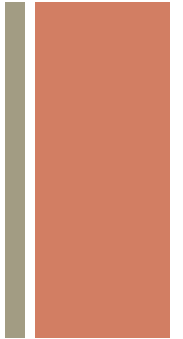
+ Purpose of this study

■ This study

- investigates the relationships among reading anxiety, cognitive interference, reading strategy use, and reading comprehension.



Introduction



■ **Foreign Language Anxiety**

“a distinct complex of self-conceptions, beliefs, feelings and behaviors related to foreign language classroom language learning arising from the uniqueness of the language learning process”

(Horwitz, Horwitz, & Cope, 1986)



Effects of foreign language anxiety

**Foreign
Language
Anxiety**

Achievement

(Horwitz et al., 1986;
Aida, 1994; MacIntyre et al.,
1997)

Speaking

(Horwitz et al., 1986; Price,
1991; Young, 1990)

Listening, Writing

(Cheng et al., 1999; Kim 2000)

Reading ??



Why foreign language reading anxious?

Unfamiliar
cultural
material

Different
orthographic
systems

Different
textual
organization

**Reading
Anxiety**

+ Gaps in the literature



1. Relatively few studies
2. Studies focusing on the sources of anxiety or the relationship between anxiety and comprehension
3. Few studies on the interplay of reading anxiety, reading strategy, and reading comprehension

+ Research Questions

- What is the relationship between foreign language reading anxiety and reading comprehension?
- What are the relationships among foreign language reading anxiety, reading strategy use, cognitive interference and reading comprehension?



Participants

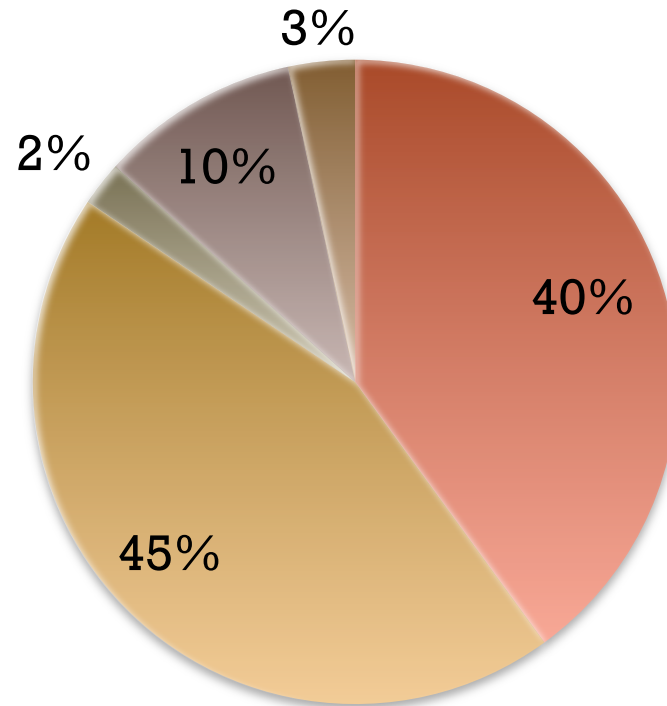
Participants

- 265 EFL students in a middle school in South Korea
(Male: N=126 Female: N= 139)
- 3rd grade (equivalent to 9th grade in the states)
- L1 = Korean

+ Participants

English reading frequency

■ Never ■ 1-6/year ■ 1/year ■ 1/week ■ Everyday





Instruments

Instruments		Time required
1. Background Questionnaire		5 mins.
2. Foreign Language Reading Anxiety Scale		10 mins.
3. Reading Comprehension Task		15 mins.
4. Strategy Inventory for Reading Comprehension	Accepting Ambiguity	10 mins.
	Local Strategies	
	Global Strategies	
	Using Background Knowledge	
5. Cognitive Interference Questionnaire		10 mins.
6. Interview		20 mins.



Foreign Language Reading Anxiety Scale

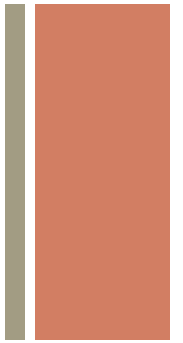


1. I get nervous when I'm not sure whether I understand what I am reading in English.
2. When reading English, I often understand the words but still I can't quite understand what the author is saying.
3. When I'm reading English, I get so confused that I can't remember what I'm reading.
4. I feel intimidated whenever I see a whole page of English in front of me.
5. I am nervous when I am reading a passage in English when I am not familiar with the topic. |



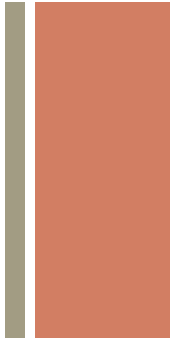
The Reading Comprehension Task

- A sample text selected from iBT TOEFL sample reading comprehension task
- 688 words consisting of 6 multiple-choice reading comprehension questions





The Strategy Inventory for Reading Comprehension



- 1. I skipped portions of the text that I didn't understand.
- 2. I skipped unknown words.
- 3. I paid attention to the syntax of the sentences such as grammar or parts of speech.
- 4. I translated the meaning of a word, phrase, or sentence into Korean.
- 5. I made or confirmed a guess or inference about the passage content based on my own knowledge and information from the text.
- 6. I identified main ideas.
- 7. I used my background knowledge to understand the contents of the text.

Total	16	
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+ The Cognitive Interference Questionnaire (CIQ)

8. I thought about how poorly I was doing.
9. I thought about things not related to the task.
10. I thought about how much time I had left.



Data Analysis

- **Research question 1** : What is the relationship between foreign language reading anxiety and reading comprehension?
-> Pearson correlation & Simple Regression
- **Research question 2** : What are the relationships among foreign language reading anxiety, reading strategy use, cognitive interference and reading comprehension?
-> Pearson correlation & Multiple Regression



Results : What is the relationship between reading anxiety and reading comprehension?



	Min	Max	Mean	SD
Reading Anxiety	20	74	46	10.10
Reading Comprehension	0	25	19	6.50



Results : What is the relationship between reading anxiety and reading comprehension?



**Reading
Comprehension**

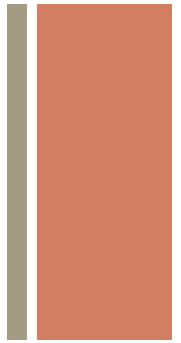
Reading Anxiety $-.36^*$

Criterion variable	Predictor variable	B(beta)	t	Total R²	F
Reading Comprehension	Reading Anxiety	$-.230$ ($-.36$)	-6.22^*	$.13$	38.65^*

* $p < .05$



Results : What are the relationships among reading anxiety, cognitive interference, reading strategy use, and reading comprehension?



	RA	AA	LO	GLO	BG	CIQ	RC
Reading Anxiety	-						
Accepting Ambiguity	.36**	-					
Local Strategy	.22**	.38**	-				
Global Strategy	-.22**	.19	.49**	-			
Background Strategy	-.11	.01	.60**	.60**	-		
CIQ	.52**	.47**	.37**	.02	-.032	-	
RC	-.36**	-.23**	-.20**	.13*	.100	-.431**	-

*p<.05



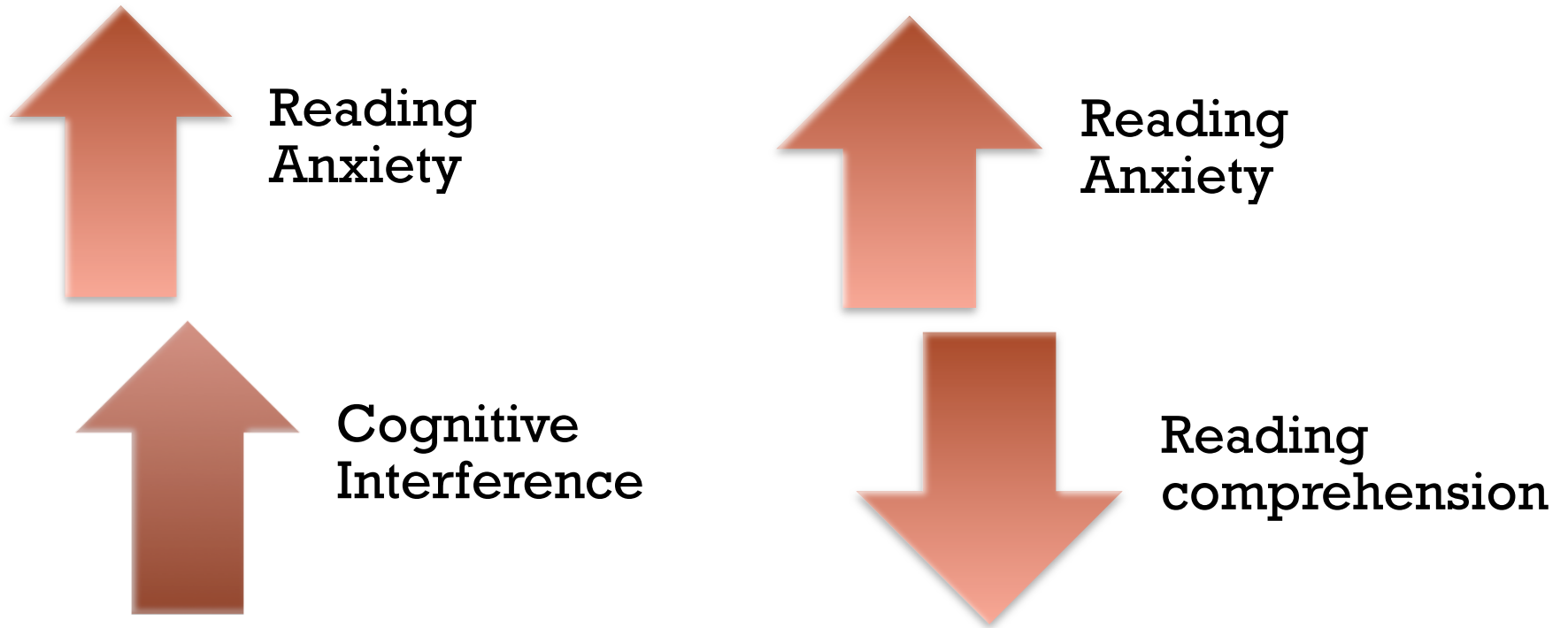
Results cont.

Criterion variable	Predictor variable	B(beta)	t	Total R ²	Total F
Accepting Ambiguity	Reading Anxiety	.06(.167)	2.69*	.24	41.36*
	CIQ	.13(.384)	6.16*		
Local Strategy	RA	.008(.021)	.320	.14	20.92*
	CIQ	.127(.360)	5.43*		
Global Strategy	RA	-.148(-.305)	-4.433*	.07	9.89*
	CIQ	.081(.174)	2.524*		
Background Strategy	RA	-.026(.014)	-1.77	.013	1.73
	CIQ	.006(0.14)	.441		

*p<.05

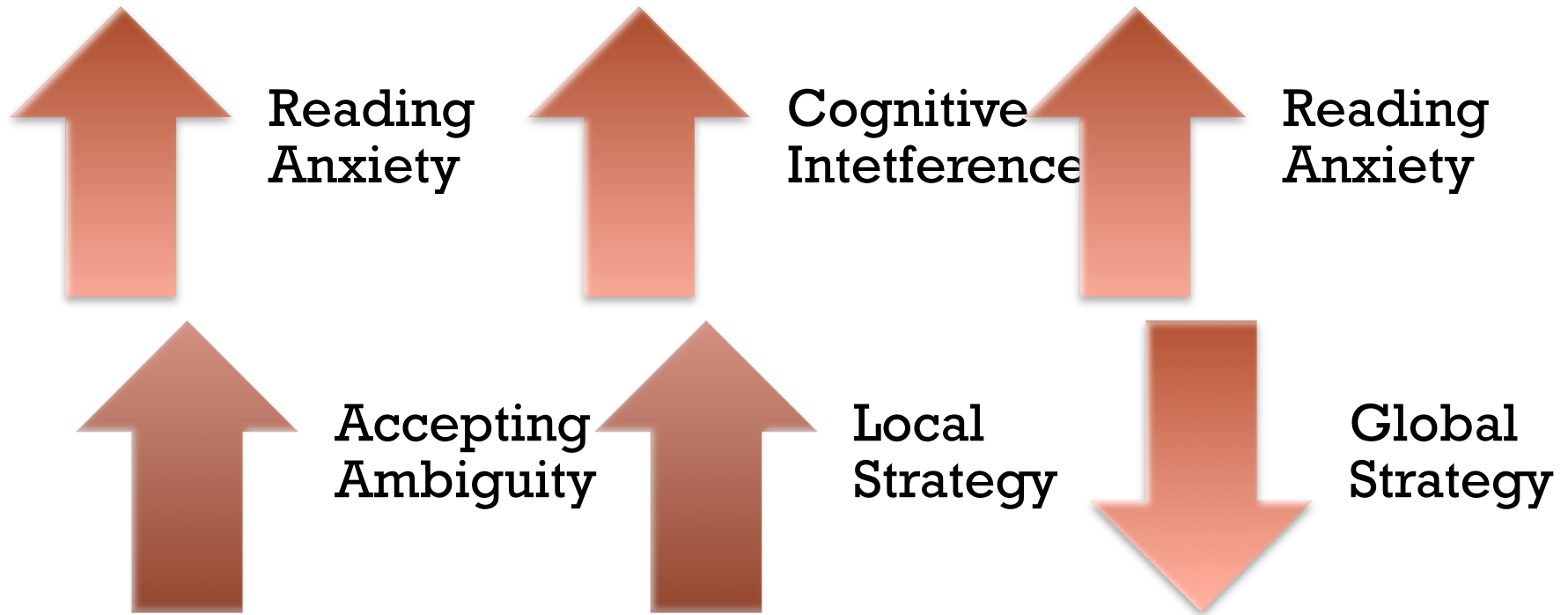
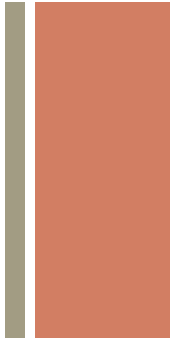


Results : What are the relationships among reading anxiety, cognitive interference, reading strategy use, and reading comprehension?





Results : What are the relationships among reading anxiety, cognitive interference, reading strategy use, and reading comprehension?



+ Results cont.



Model	Predictor Variable	B(beta)	t	ΔR^2	R^2	F.
1	RA	-.23(-.36)	-6.22*	.128	.128	38.65*
2	RA	-.12(-.19)	-2.99*	.084	.213	35.36*
	CIQ	-.21(-.34)	-5.3*			
3	RA	-.11(-.73)	-2.71*	0.07	.219	24.47*
	CIQ	-.18(-.30)	-.44*			
	AA	-.17(-.10)	-.10			
4	RA	-.112(-.17)	-2.70*	0.00	.220	18.30*
	CIQ	-.18(-.30)	-4.24*			
	AA	-.16(-.10)	-1.40			
	LO	-.30(-.16)	-.26			

Dependent variable: Reading Comprehension

+ Results cont.



Model	Predictor Variable	B(beta)	t	ΔR^2	R^2	F
5	RA	-.08(-.12)	-1.73	0.21	.241	16.42
	CIQ	-.18(-.29)	-4.20*			
	AA	-.17(-.10)	-1.51			
	LO	-.20(-.12)	-1.62			
	GLO	.23(.18)	2.67*			
6	RA	-.08(-.12)	-.173	0.00	.241	13.63
	CIQ	-.18(-4.16)	-4.16*			
	AA	-.17(-.96)	-1.48			
	LO	-.20(-.12)	-1.63			
	GLO	.23(.17)	2.20*			
	BG	.04(.01)	.176			

Dependent variable: Reading Comprehension



Discussion



- **Medium Reading Anxiety**

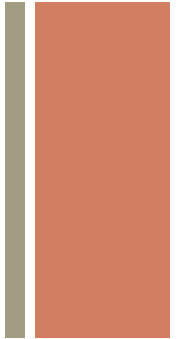
 - > Contextual factor

- **Anxious students' low reading comprehension**

 - (Argaman & Abu-Rabia, 2002; Oh, 1990; Sellers, 2000)



Discussion



- Anxious students' greater use of Accepting Ambiguity strategies:

“ I just gave up when I encountered the words I don't know.”

“I just wanted to give up so I just skipped the words.”

- Anxiety and Motivation

(Nakata, 2006)

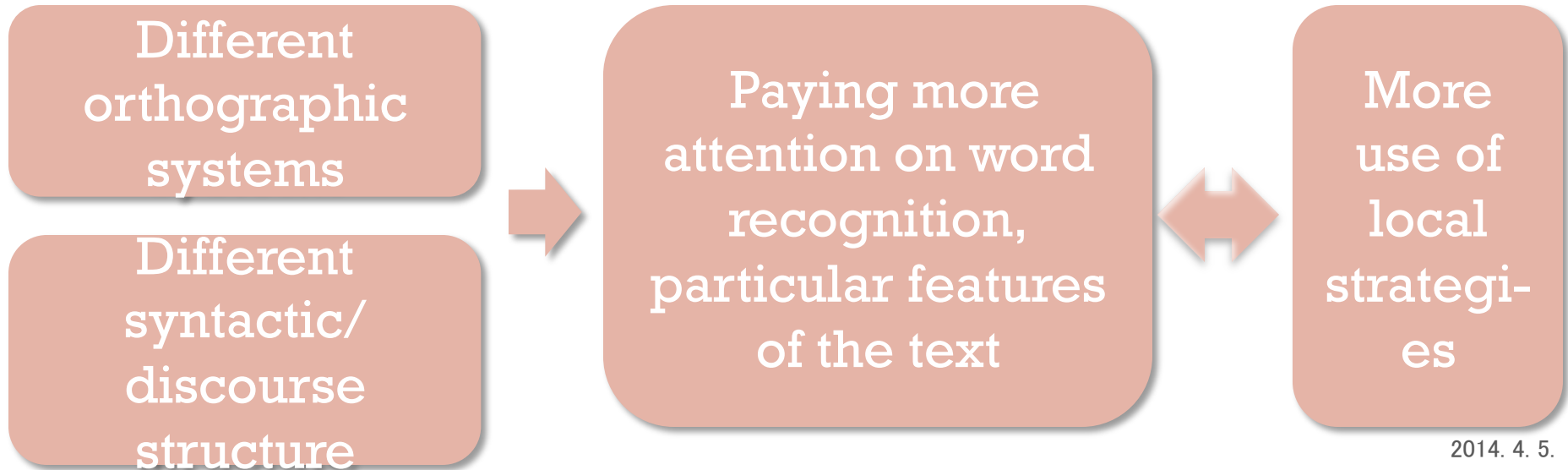


Discussion

- Anxious students' greater use of local strategies:

Congruent with *Saito et al. (1999)*, *Seller's (2000)* study

- Source of anxiety





Discussion

- Anxious students' lower use of global strategies (guessing, inferencing, and summarizing)



Anxiety and cognitive interference

(Tobias, 1986; Sarason, 1988; Oh, 1990; Eysenck, 1992; Eysenck & Calvo, 1992; Sellers, 2000)

Anxiety and risk-taking

(Ely, 1986; MacIntyre & Gardner, 1994)

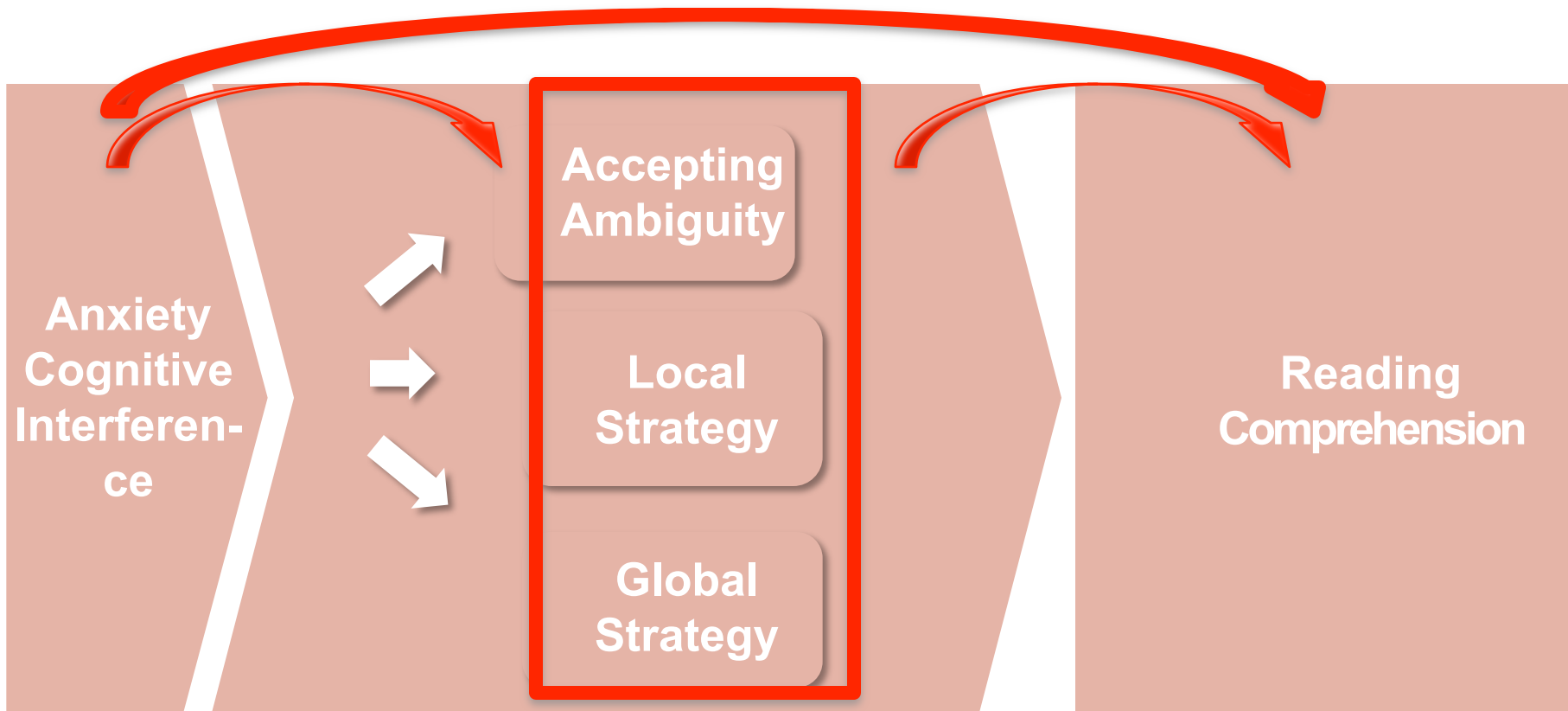
Less use of global strategies



Discussion

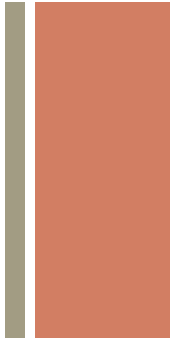


■ Anxious students' lower comprehension :





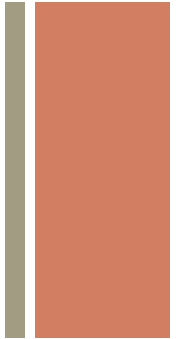
Limitations



- The self-report measures
(FLRAS, CIQ, Strategy Use)
- The reading comprehension measurement
(A sample text from IBT TOEFL, multiple choices)
- Participants' actual reading performance



Implications



- Raising awareness for reading-related anxiety
- Incorporating strategy instruction for anxious students
- Considering sources of reading anxiety
- Exposing foreign language texts to students gradually
- Implementing less anxious reading tasks
- Creating a warm atmosphere
- Increasing reading time for anxious students ??



Questions

