

Relationship

**between
Extensive
listening to
podcasts and
incidental**

vocabulary



adviser: Dr. Irshat Moosavi



Devoted to the innocent victims of Artsakh War 2



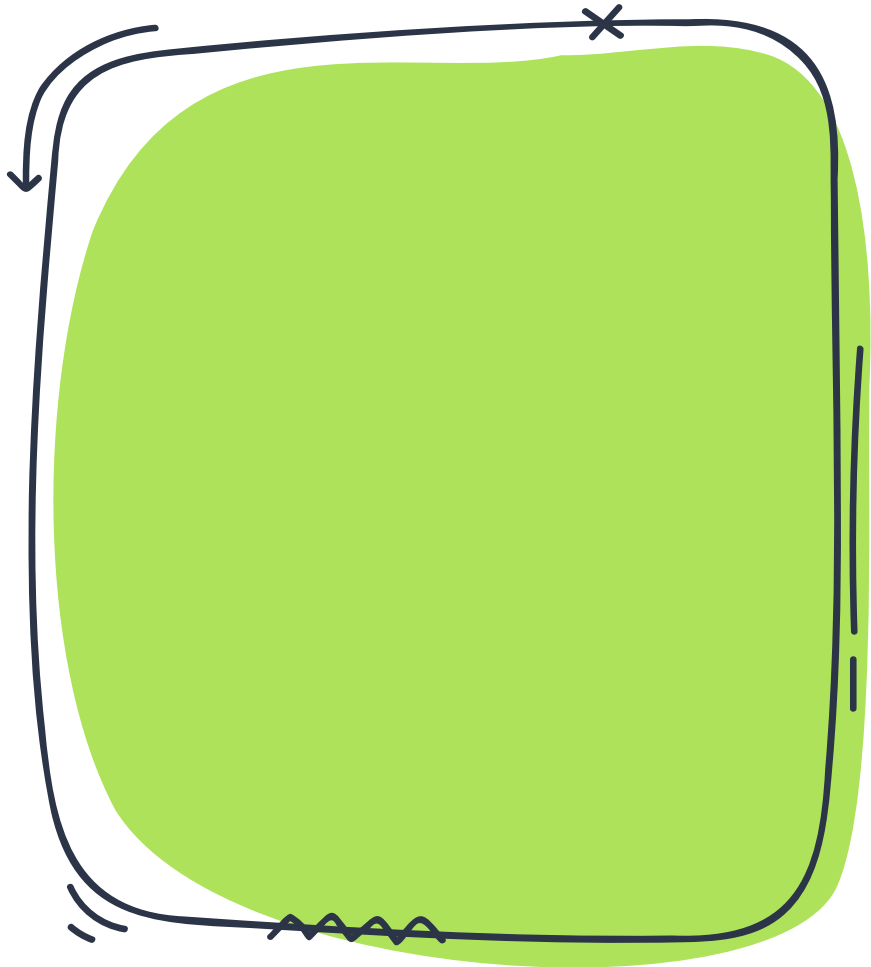
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InTRODU CTION

Problem Statement

- a lack of research data on the topic

significance of the study

- contribute to general academic knowledge in the field
- Inform teachers about the use of podcasts for incidental vocabulary acquisition purposes,
- become a shareable data to future podcast creators for instructional purposes.

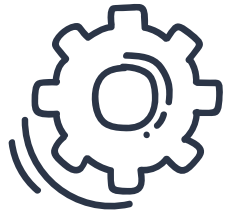
Context: Armenia, private school

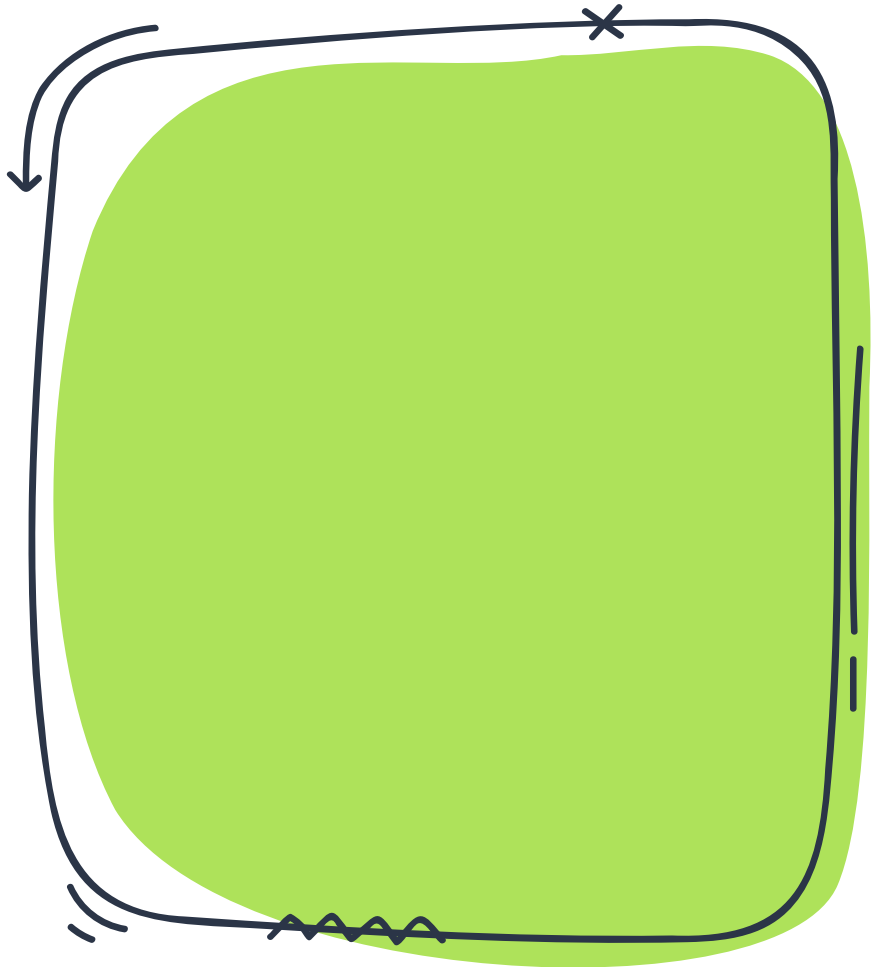
Participants: high-school students,
formal

Age: 16-18

Proficiency Level: Intermediate +

Duration: 10 weeks





Literature review

Literature Review

- ❖ **Incidental vocabulary acquisition and its role in EFL** (De Riddler, 2003; Ma, 2009; Robinson, 2001; Schmitt, 2000; Nation & Meara, 2010; Singleton, 1999).
- ❖ **Receptive vocabulary, form-meaning relation** (Nation, 2013, 1995, 2006; Schmitt, 2000)
- ❖ **With the input of**
 - ✗ **graded readers** (Lee, 2007; Horst, 2005; Mechraoui, Mechraoui, & Raffeeq, 2015; Schmitt, 2000; Elley, 1991; Nation & Wang, 1999; Webb & Chang, 2015)
 - ✗ **authentic novels** (Pellicer-Sanchez & Schmitt, 2010)
 - ✗ **lectures** (Chang, 2009; Vidal, 2003)
 - ✗ **graded readers with audios** (Horst, 2005; Lee, 2007; Webb & Chang, 2015)

graded readers as input for incidental vocabulary learning

ADVANTAGES

- X **95-98% vocabulary coverage** (Nation & Meara, 2010),
- X **repetitive exposure to the target vocabulary** (Nation & Wang, 1999; Pellicer-Sanchez & Schmitt, 2010; Rott, 1999; Schmitt, 2008; Waring & Takaki, 2003; Webb, 2007),
- X **vocabulary as a cumulative process** (Nation & Meara, 2010),
- X **clues contributing to guessing** (Elley, 1989; Laufer, 2003; Nation & Wang, 1999; Nation & Meara, 2010; Schmitt, 2000),
- X **retention** (Nagy, 1997).

DISADVANTAGES

- X **the amount of reading** (Nation & Meara, 2010; Nation & Wang, 1999),
- X **missing any clues or those clues being also unfamiliar** (Laufer, 2003),
- X **no guarantee for retention** (Cobb, 2007; Pellicer-Sanchez & Schmitt, 2010; Schmitt, 2008)

Figure 1

Monthly Online Audio Listening

TOTAL U.S. POPULATION 12+

% LISTENED TO ONLINE AUDIO IN LAST MONTH

ONLINE AUDIO = LISTENING TO AM/FM RADIO STATIONS ONLINE AND/OR LISTENING TO STREAMED AUDIO CONTENT AVAILABLE ONLY ON THE INTERNET

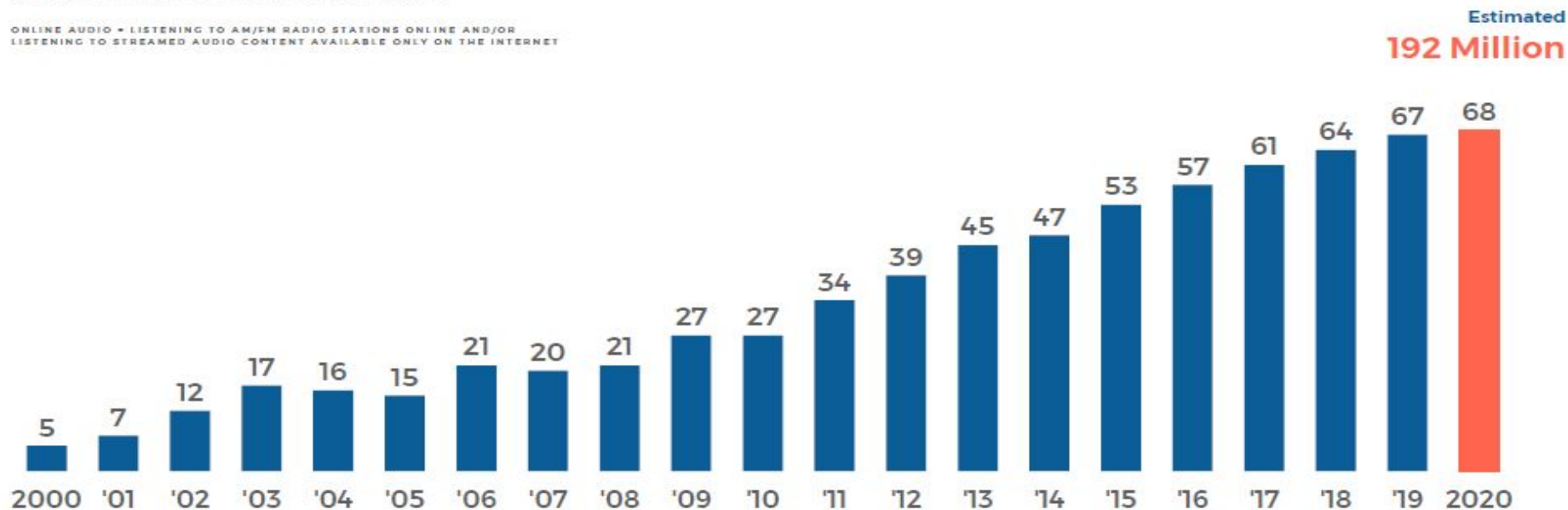


Figure 2

Monthly Podcast Listening

TOTAL U.S. POPULATION 12+

% LISTENED TO A PODCAST IN LAST MONTH

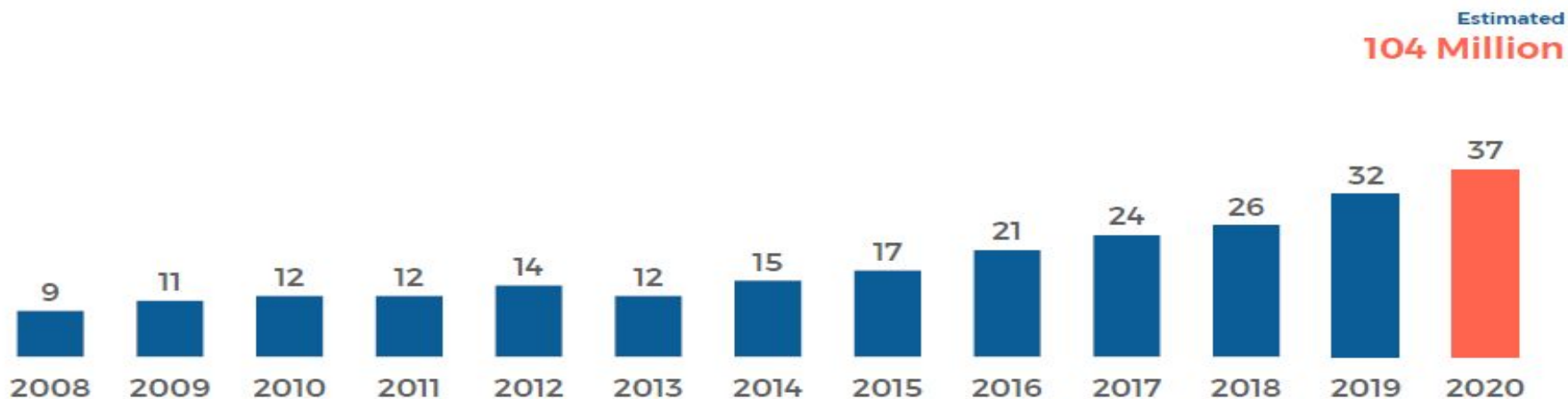


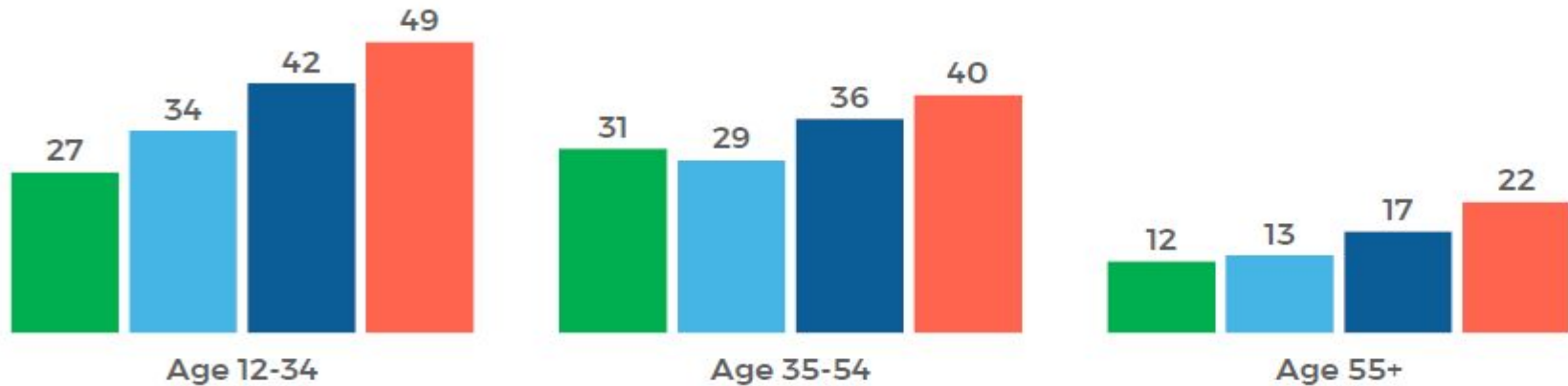
Figure 3

Monthly Podcast Listening

U.S. POPULATION

% LISTENED TO A PODCAST IN LAST MONTH

2017 2018 2019 2020



Podcasts and incidental vocabulary learning

- x Vidal (2003, 2011)
- x 14-15 lectures
- x 4 weeks
- x 30.41 out of 36 vocabulary items within four weeks
- x Mechraoui, Mechraoui, and Raffeeq (2015)
- x Gholami and Mohammadi (2015)

Research questions

Research question 1: Is there a relationship between listening to podcasts and incidental vocabulary acquisition?

Research question 2: What effect does the amount of time spent on listening to podcasts have on the incidental vocabulary acquisition?

Research question 3: What is the relationship between the frequency of occurrence of the target vocabulary in podcast episodes and incidental vocabulary learning?

Research question 4: What is the relationship between the distribution of occurrence of the target vocabulary across the podcast episodes and incidental vocabulary learning?

Research question 5: What is learners' attitude to vocabulary acquisition via podcasts?

Abbreviations

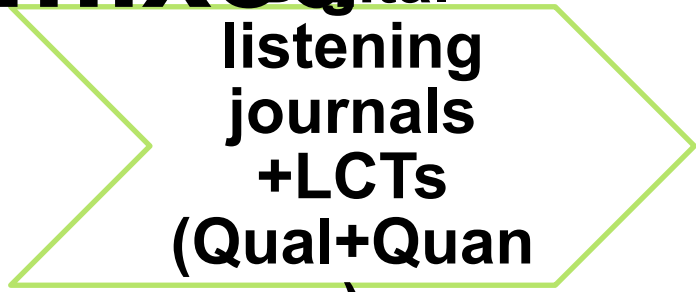
- ❑ Pre- and Post- UVLT – Ultimate Vocabulary Level pre- and post- Tests
- ❑ Pre- and Post- PDT- Project designed pre- and post- tests
- ❑ LCTs- Listening comprehension tests

Methodol ogy

Experimental/mixed methods



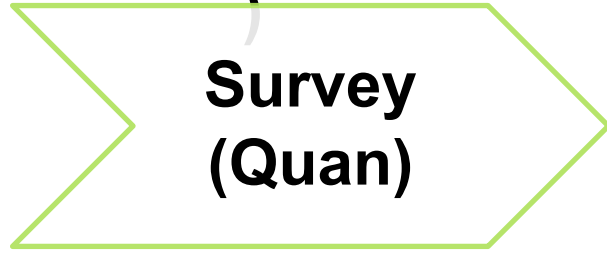
Pre
-PD
T
(Qu
an)



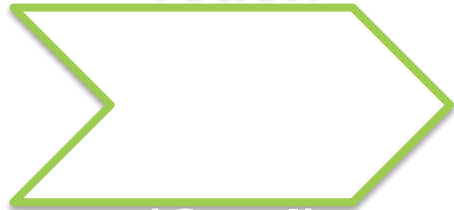
Digital
listening
journals
+LCTs
(Qual+Quan)



Post-
PDT
(Quan
)



Survey
(Quan)



Teach
(Qual)

Methodology Summary

Research question or Hypothesis	Instruments	Participant/ Source of data	Sample size/ sampling strategy
RQ1: Is there a relationship between listening to podcasts and incidental vocabulary acquisition?	Pre- UVLT-> pre- PDT -> Post- UVLT-> post- PDT-> Teacher interview	Experimental group Control group	22 students 10 students
RQ2: What effect does the amount of time spent on listening to podcasts have on the incidental vocabulary acquisition?	Digital listening journals Survey	Experimental group	22 students
RQ3: What is the relationship between the frequency of occurrence of the target vocabulary in podcast episodes and incidental vocabulary learning?	Pre- PDT -> post- PDT	Experimental group	22 students

Methodology Summary

Research question or Hypothesis	Instruments	Participant/ Source of data	Sample size/ sampling strategy
RQ4: What is the relationship between the distribution of occurrence of the target vocabulary across the podcast episodes and incidental vocabulary learning?	pre- PDT -> post- PDT	Experimental group	22 students
RQ5: What is learners' attitude to vocabulary acquisition via podcasts?	Survey	Experimental group	22 students

Procedure

Finding and profiling podcasts -> Recruiting volunteers(78)->

Pre-UVLT->Selecting the sample (32) ->

Dividing into experimental and control groups -> Pre- PDT ->

Weekly meeting + Digital listening journals + LCTs->

Post-UVLT-> Post-PDT -> Listening journal analysis -> Survey

->Teacher interview

experimental vs. control group

x **Experimental Group**

- ◆ one episode at home per week
- ◆ Weekly meetings
- ◆ Digital listening journals

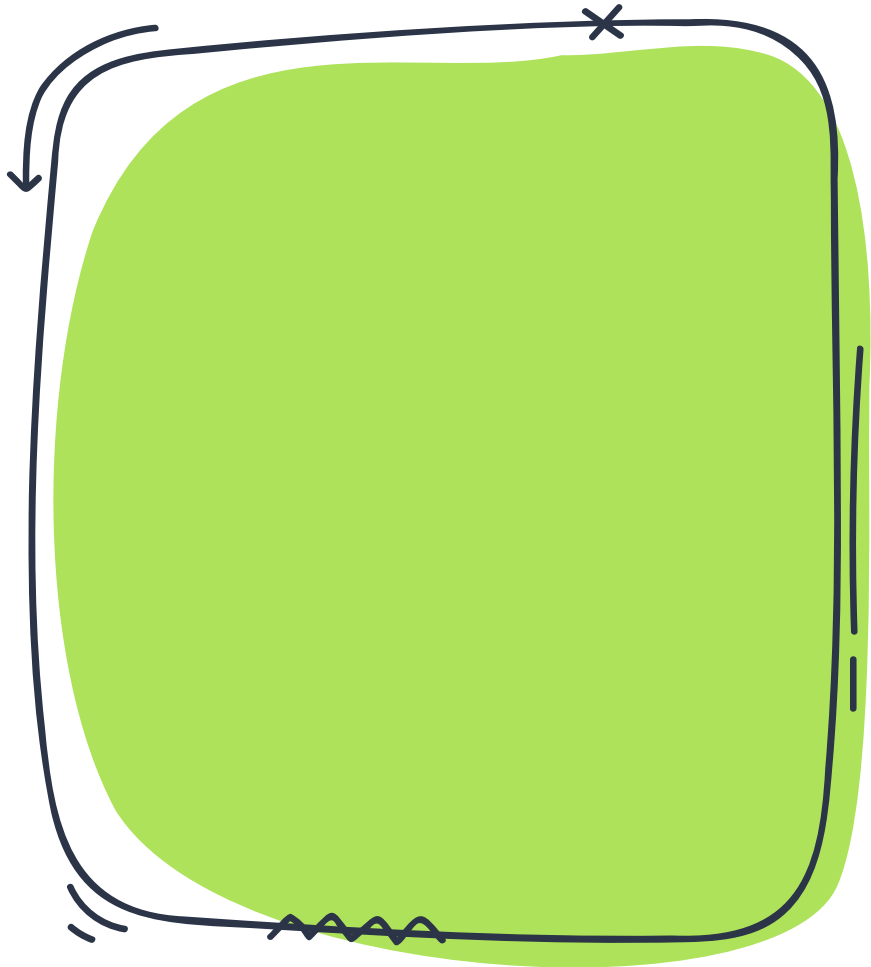
x **Control Group**

- ◆ School curriculum and course-book
- ◆ Classroom projects (watching TED talks, movies, Vimeo videos, etc.)
- ◆ No episodes the experimental group listened to
- ◆ No digital listening journals



Ethical considerations

- x Confidentiality
- x A parent and teacher permission
- x Voluntary participation



results

RQ1: The relationship between listening to podcasts and incidental vocabulary acquisition

Table 1

Independent Samples T-Test in the Experimental and Control Groups for the PDT

	t	df	p	Mean Difference	SE Difference
Pre- PDT	-0.408	30	0.686	-0.445	1.091
Post-PDT	-10.285	30	< .001	-19.986	1.943

Note. The test scales from 0 to 54

Table 2

Descriptive Statistics for Vocabulary Learning Gains from Pre- and Post- PDTs for the Experimental and Control Groups

	Group	Mean	SD	Minimum	Maximum
Pretest	Experimental	11.05	2.57	8	15
	Control	10.6	3.44	6	16
Post-test	Experimental	28.89	5.97	20	39
	Control	8.9	1.85	7	12
Absolute gain (pre to post)	Experimental	33.02	7.65	22.2	46.2
	Control	-2.203	7.84	-16.65	9.26
Relative gain (pre to post)	Experimental	41.97	11.25	26	62.5
	Control	-4.07	11.56	-23.7	14.4

Note. The test scales from 0 to 54

Table 3

Paired Samples T-Test of the Post- PDT for the Experimental and Control Groups

Groups	T	Df	P	Wilcoxon
Experimental	20.22	21	< .001	< .001
Control	1.316	9	.221	.258

Note. The test scales from 0 to 54

Table 4

<i>Descriptive Statistics for the LCTs Per Week</i>							
	Week1	Week2	Week3	Week4	Week5	Week6	Week7
Valid	22	22	22	22	22	22	22
Missing	0	0	0	0	0	0	0
Mean	38.6	39.09	40.46	38.18	40	38.63	41.82
Std. Deviation	7.10	6.83	7.85	7.33	6.90	7.10	7.33

Note. The test scales from 0 to 50

- ❑ **Cronbach's alpha was 0.78**
- ❑ **approximately 79 % of the answers were correct**
- ❑ **95.5% affirmed that the texts were easy to understand and contained a decent amount of unfamiliar vocabulary.**

Table 5*Paired Samples T-Test results for the UVLT Test in the Experimental and Control Groups*

UVLT pretest	UVLT post-test	Groups	t	df	p	Wilcoxon	Cohen's d
UVLT pretest 1000	UVLT post-test 1000	Experimental	2.45	21	0.023	0.048	-0.523
		Control	2.01	9	0.075	0.100	0.636
UVLT pretest 2000	UVLT post-test 2000	Experimental	2.82	21	0.010	0.018	-0.602
		Control	0.95	9	0.366	0.586	0.301
UVLT pretest 3000	UVLT post-test 3000	Experimental	-5.16	21	<.001	<.001	-1.101
		Control	1.43	9	0.187	0.036	0.451

continued 

UVLT pretest 4000	UVLT post-test 4000	Experimental	-2.68	21	0.014	0.022	-0.571
		Control	2.77	9	0.022	0.036	0.876
UVLT pre-test 5000	UVLT post-test 5000	Experimental	-3.21	21	0.004	0.004	-0.685
		Control	2.94	9	0.016	0.036	0.931

RQ2: The amount of time spent on listening to podcasts have on the incidental vocabulary acquisition

- x The correlation is statistically significant
- x $p = .021$
- x $r = -.487$

RQ3: The frequency of occurrence of the target vocabulary and incidental vocabulary learning

ANOVA: $F(4, 54) = 3.167, p = .032$

Correlation analysis: $r = .346, p = .01$

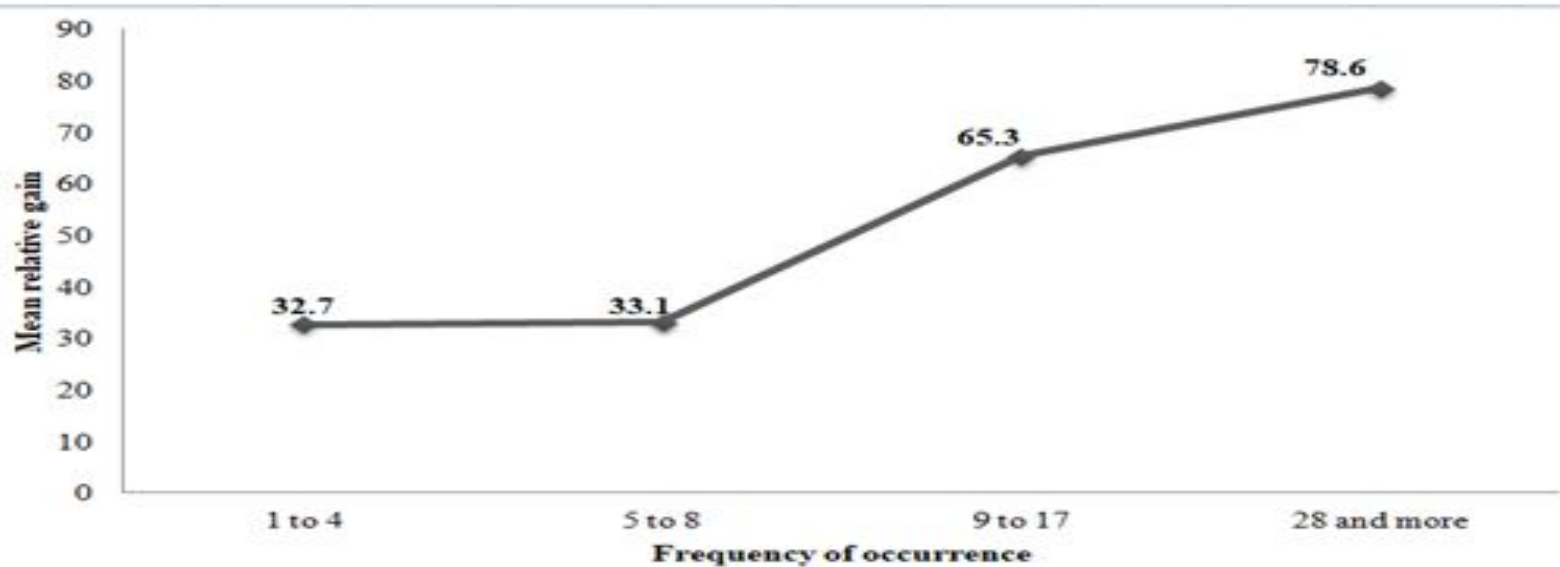
Table 6

Frequency of Occurrence and Relative Gain

Frequency of occurrence	Number of words	Mean of relative gain from pre to post-test	Mean of absolute gain from pre to post-test
1-4 (Category 1)	21	32.7	27.8
5-8 (Category 2)	12	33.1	27.9
10-17 (Category 3)	14	65.3	33.7
28 and more (Category 4)	7	78.6	37.4

Figure 4

Mean Relative Gains for the Frequency of Occurrence (from Pre- to Post- PDT)



RQ 4: The distribution of occurrence of the target vocabulary and incidental vocabulary learning

ANOVA: $F(5, 54) = 3.167, p = .032$.

Correlation analysis: $r = .387, p = .004$

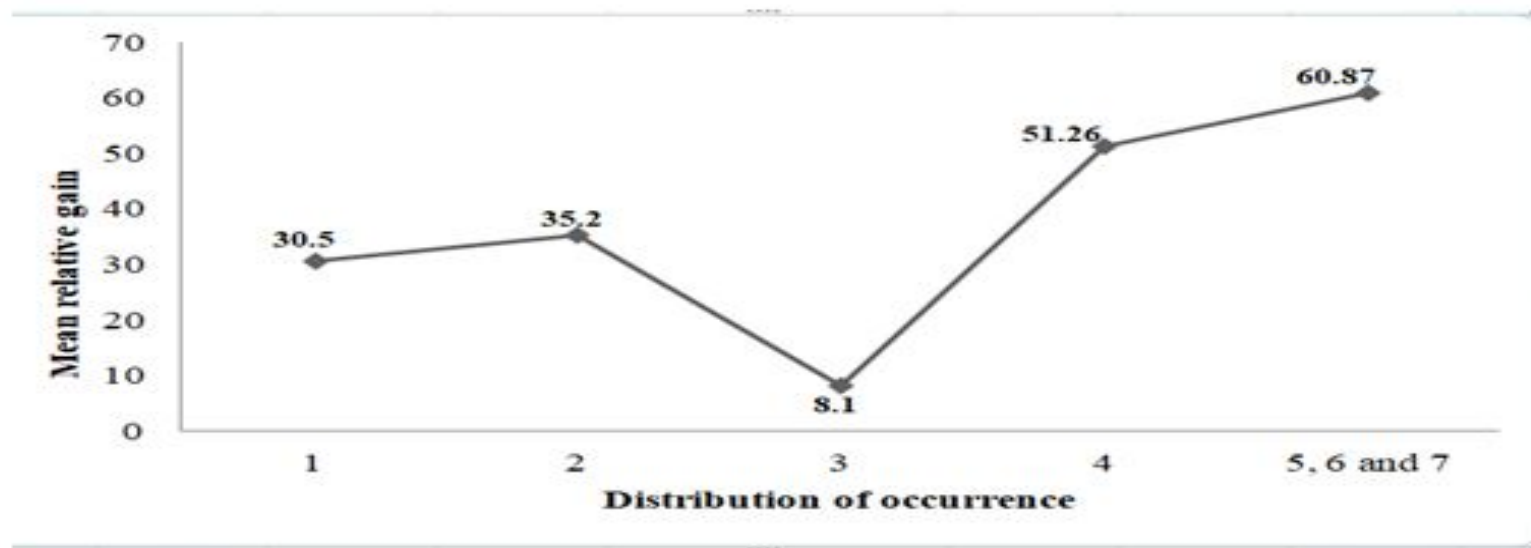
Table 7

Mean of Relative Gains on the Pre-to Post Test According to the Distribution of Analysis

Distribution across episodes	Number of words	Mean of relative gain from pre to post-test	Mean of absolute gain from pre to post-test
1 (Category 1)	18	30.5	26.11
2 (Category 2)	13	35.2	28.4
3 (Category 3)	4	8.1	6.25
4 (Category 4)	14	51.26	43.57
5, 6 and 7 (Category 5)	5	60.87	28

Figure 5

Mean Relative Gains for the Distribution of Occurrence (from pre- to post- PDT)

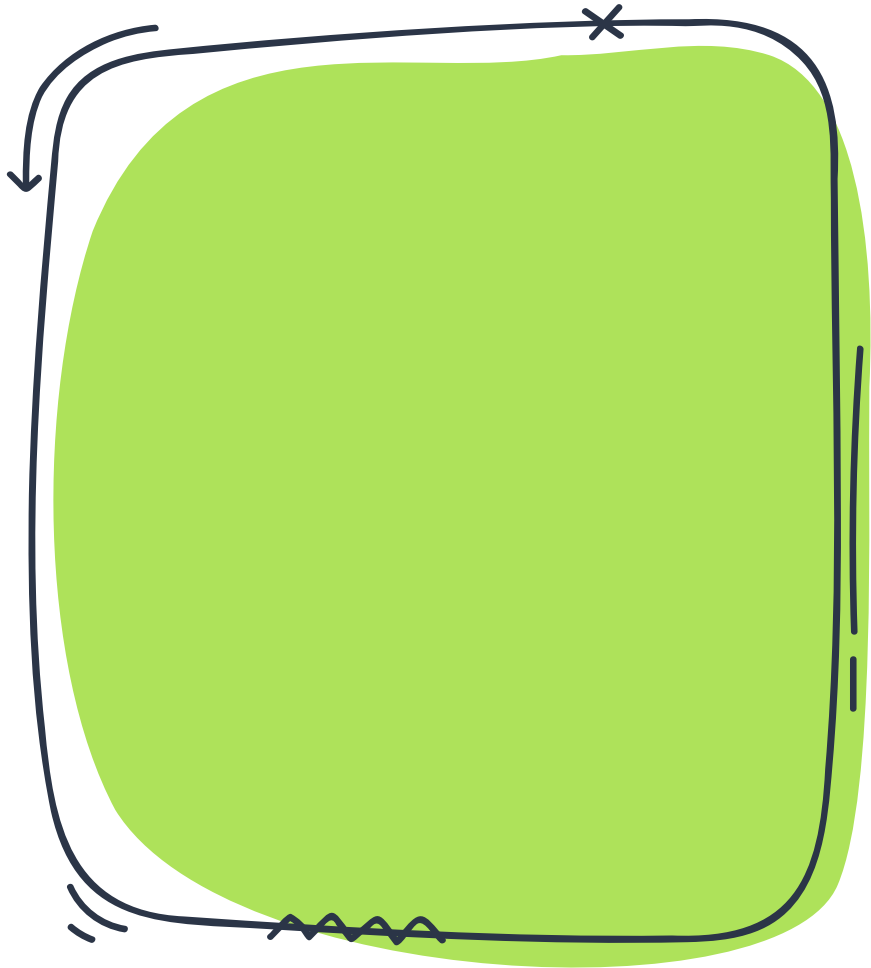


RQ5: Learners' attitude to vocabulary acquisition via podcasts

Figure 6

Survey responses





Discussion
n and
conclusion
n

RQ1: The relationship between listening to podcasts and incidental vocabulary acquisition

□ Identified/recognized- 11.05 lexical units*

□ Acquired- 17.84 lexical units (33%)*

□ Not acquired- 25.11 lexical units*

***out of 54 lexical units**

◆ 30.41 lexical units (84.5%) out of 36 vocabulary items for four weeks (Vidal, 2003)




◆ 19.68 lexical units (19.68%) out of 100 vocabulary items within thirteen weeks (Webb & Chang, 2015)

RQ2: The amount of time spent on listening to podcasts and incidental vocabulary acquisition

□ Spearman's ρ = -.487

□ p = .021

Not strong because of

- ◆ Easily comprehensible input  100% (survey)
on average 79% (LCTs)
- ◆ Decent number of unfamiliar words  86% (survey)
- ◆ The length of the episodes  45.5% (survey)
- ◆ The same vocabulary level

RQ3: The relationship between the frequency of occurrence and incidental vocabulary learning

- x the correlation was statistically significant ($p = .01$) but not strong ($r = .346$)** (Horst, Cobb & Meara, 1998; Pellicer-Sanchez & Schmitt, 2010; Vidal, 2011)
- x e.g. “Sheets and Giggles” and “ethical”**
- x at all levels but more at 10+** (Pellicer-Sanchez & Schmitt, 2010; Waring and Takaki, 2003)
- x no fixed number of repetition guarantees learning** (Nation & Wang, 1999) **became disputable**

RQ4: The distribution of occurrence of the target vocabulary and incidental vocabulary learning

- The correlation was statistically significant
- $r = .387$
- $p = .004$
- ✗ No correlation (Webb and Chang, 2015) because of
 - the imbalanced vocabulary distribution,
 - the difference of the genres for the selected books, etc.

examples

- x **“transparency” -300 % relative gain.**
- x low frequency in each episode – 1 in each episode
- x high distribution- in 5 episodes from episode 1 to episode 7.

- x **“takeaway” - 50% relative gain**
- x low frequency- once in each
- x high distribution- episodes 1, 3, 6 and 7

RQ5: Learners' attitude to vocabulary acquisition via podcasts

- **95%** - improved their listening skills and vocabulary
- **100%** - easy to comprehend
- **86%** - a decent amount of unfamiliar vocabulary integrated into them.
- **45.5%** - length of episodes
- **100%** - motivated

Pedagogical implications

- x Share the practice with EFL teachers and students
- x Not demanding in terms of hardware
- x Create podcasts for instructional purposes similar to graded readers
- x Suitable input for auditory learners



x Limitations:

- ❖ Personal data protection
- ❖ Pre-test vocabulary recognition
- ❖ Duration of the project

x Delimitations:

- ❖ Private school students aged 16-18
- ❖ Instruments
- ❖ Design
- ❖ Sample size

New research

- x Retention
- x Audio input with authentically written representation
- x Phrases
- x Treatment of strategies and their impact incidental vocabulary acquisition

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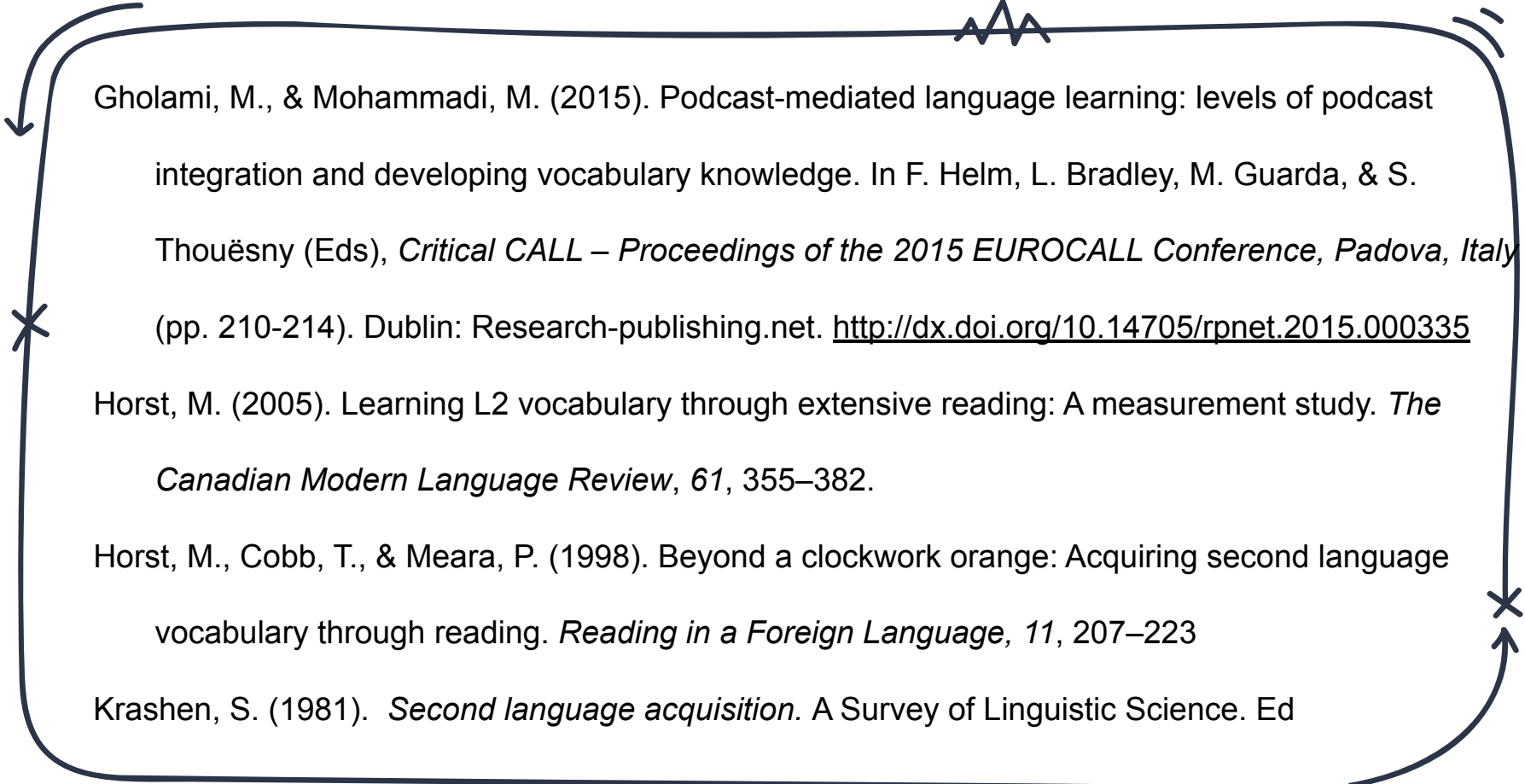
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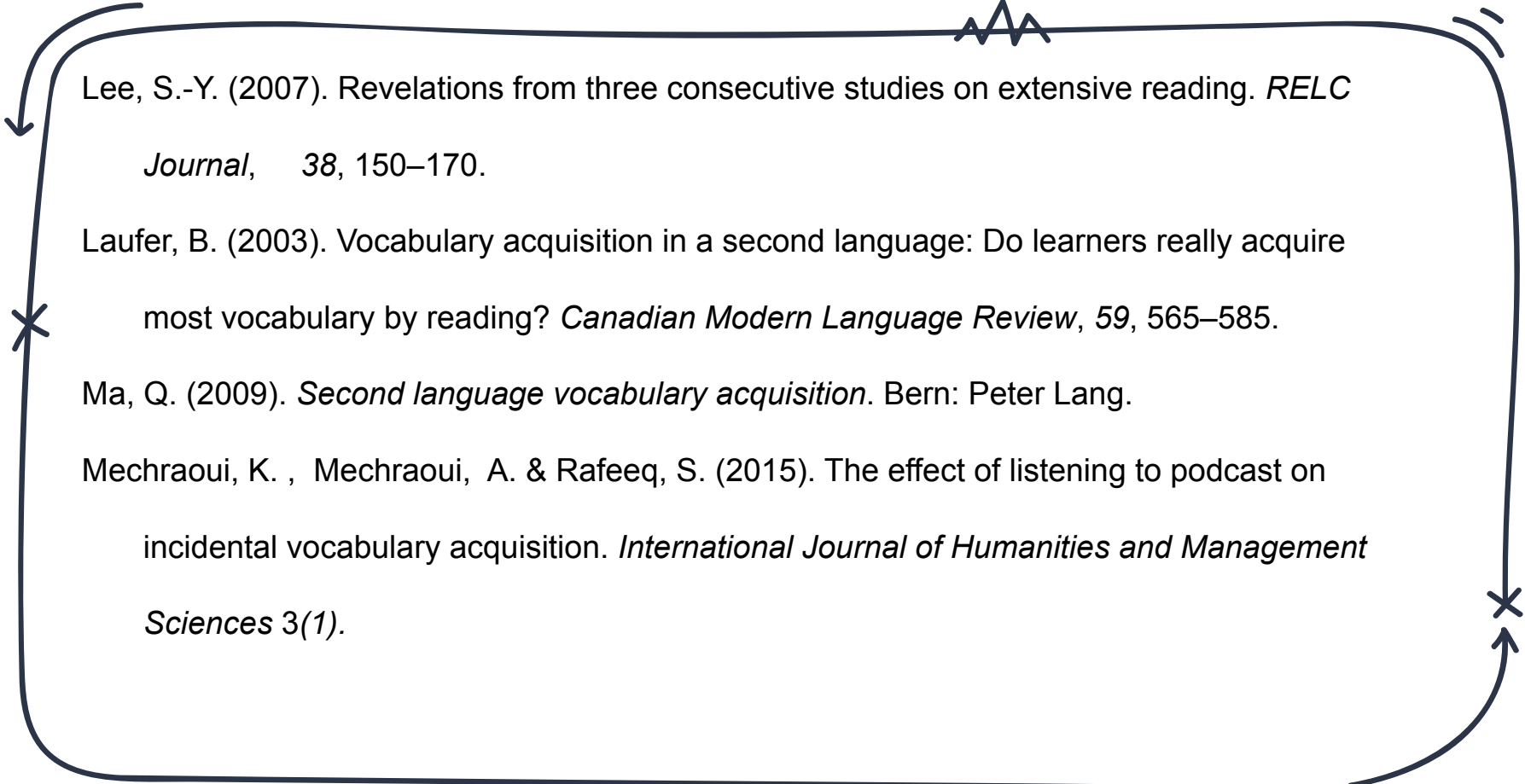
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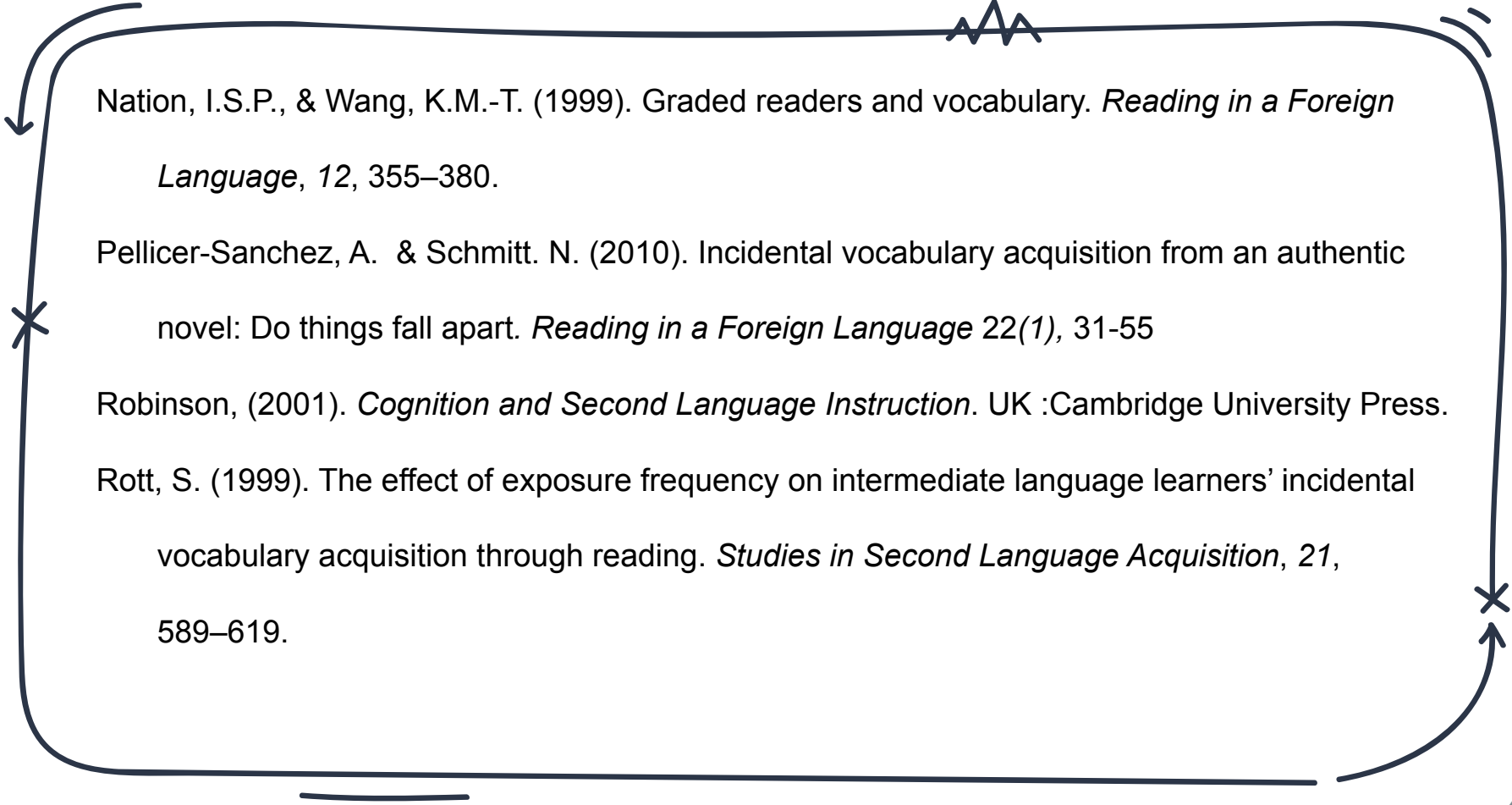
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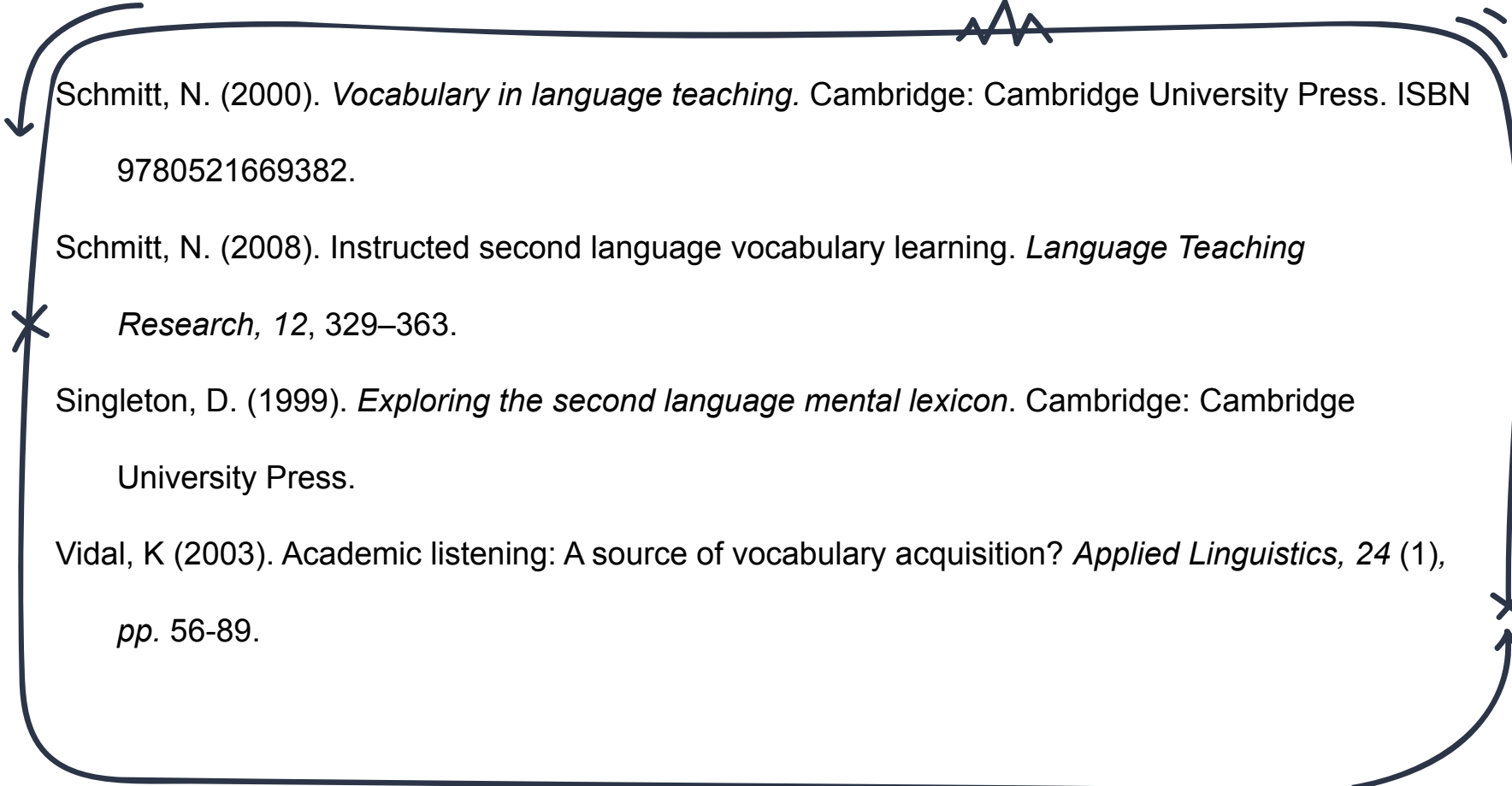


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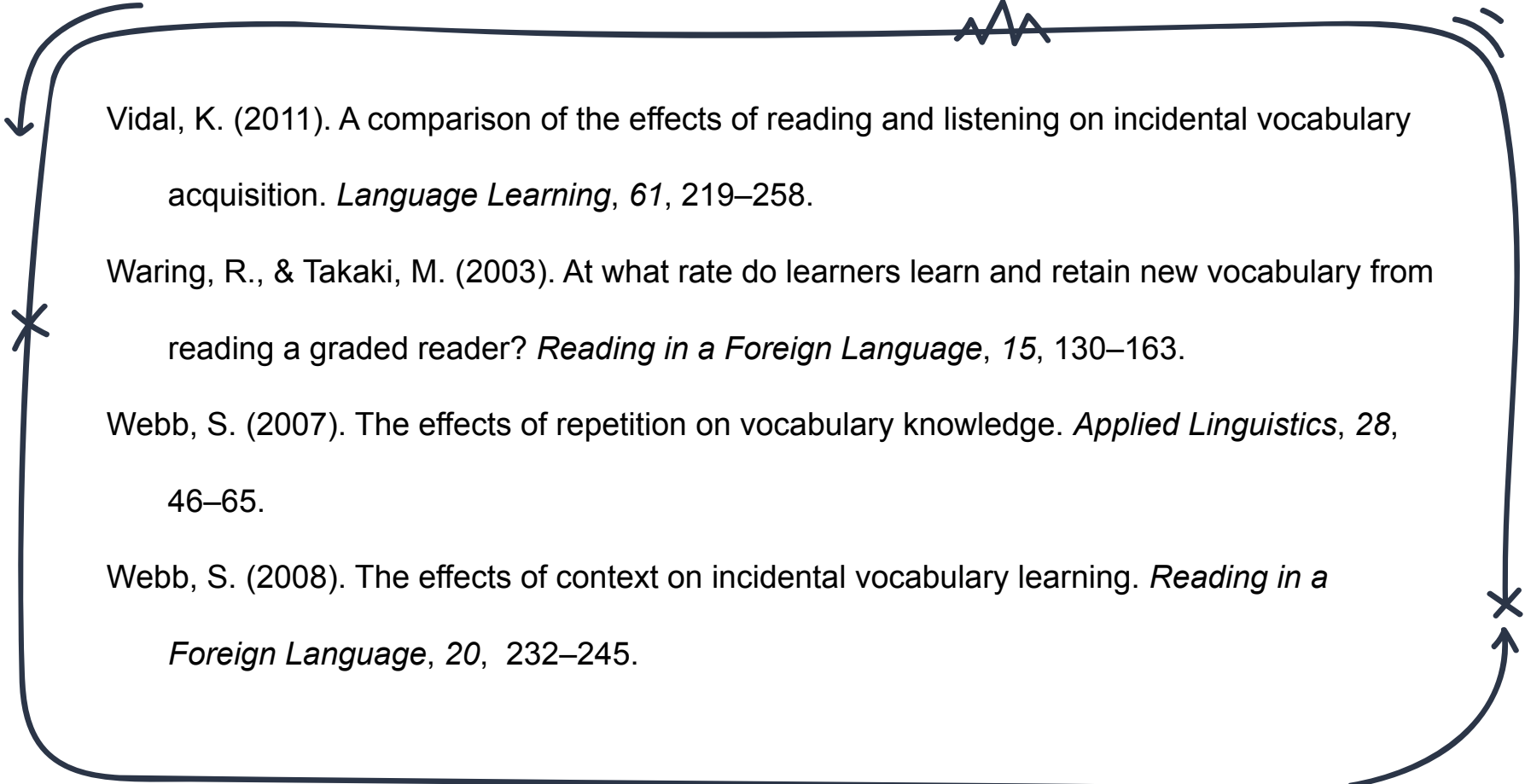


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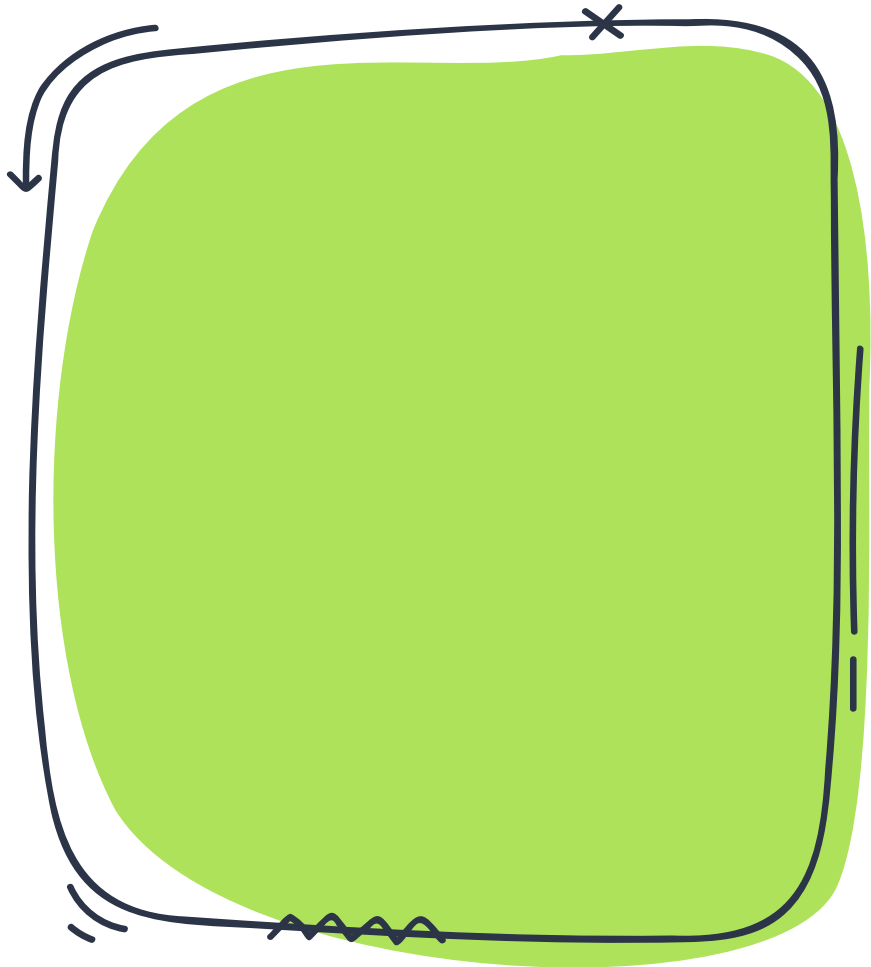


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Questions and comments



**THANK YOU FOR
YOU ATTENTION!!!**