

A corpus-based grammatical analysis of modality in the writing of Spanish university students of English

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Introduction

Aim of paper:

- To explore how Spanish university students grammatically express modality in their writing across proficiency levels

Outline

- Research hypotheses
- Theoretical framework
- Corpus and procedures
- Findings
- Conclusions

Research Hypotheses

As students' level of proficiency rises, I expect:

1. A higher quantity of modal markers
2. A wider variety of modal markers
3. A movement away from *verbal* to *non-verbal* modal means

Theoretical framework

A typological account of modality:

Mood

vs.

Modal systems



Indicative – Modal

vs.

Subjunctive – Non-modal
(i.e. Romance languages)



A set of modal forms

“Prototypical” means:
Modal auxiliary verbs
(i.e. English)

(Palmer, F., 2001; 2003)

Halliday's views on modality:

COMMODITY EXCHANGED	SPEECH FUNCTION		TYPE OF INTERMEDIACY	TYPICAL REALIZATION	EXAMPLE
Information	Propo-sition	Statement	Moda-lization	Proba-bility -Finite Modal Operator -Modal Adjunct -Both the above combined	<i>-They must have known</i> <i>-They certainly knew</i> <i>-They certainly must have known</i>
		Question		Frequency -Finite Modal Operator -Modal Adjunct -Both the above combined	<i>-It must happen</i> <i>-It always happens</i> <i>-It must always happen</i>
Goods and Services	Propo-sal	Com-mand	Modu-lation	Obliga-tion -Finite Modal Operator -Passive Verb Predicator	<i>-You must be patient!</i> <i>-You're required to be patient!</i>
		Offer		Inclina-tion -Finite Modal Operator -Adjective Predicator	<i>-I must win!</i> <i>-I'm determined to win!</i>

(from Halliday and Matthiessen, 2004)

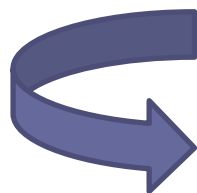
Nuyts' model of modality:

- Cross-linguistic analysis of modality: German, Dutch and English
- Grammatical elements expressing modality:

Modal adverbs

Modal adjectives

Modal auxiliaries



Mental state predicates:

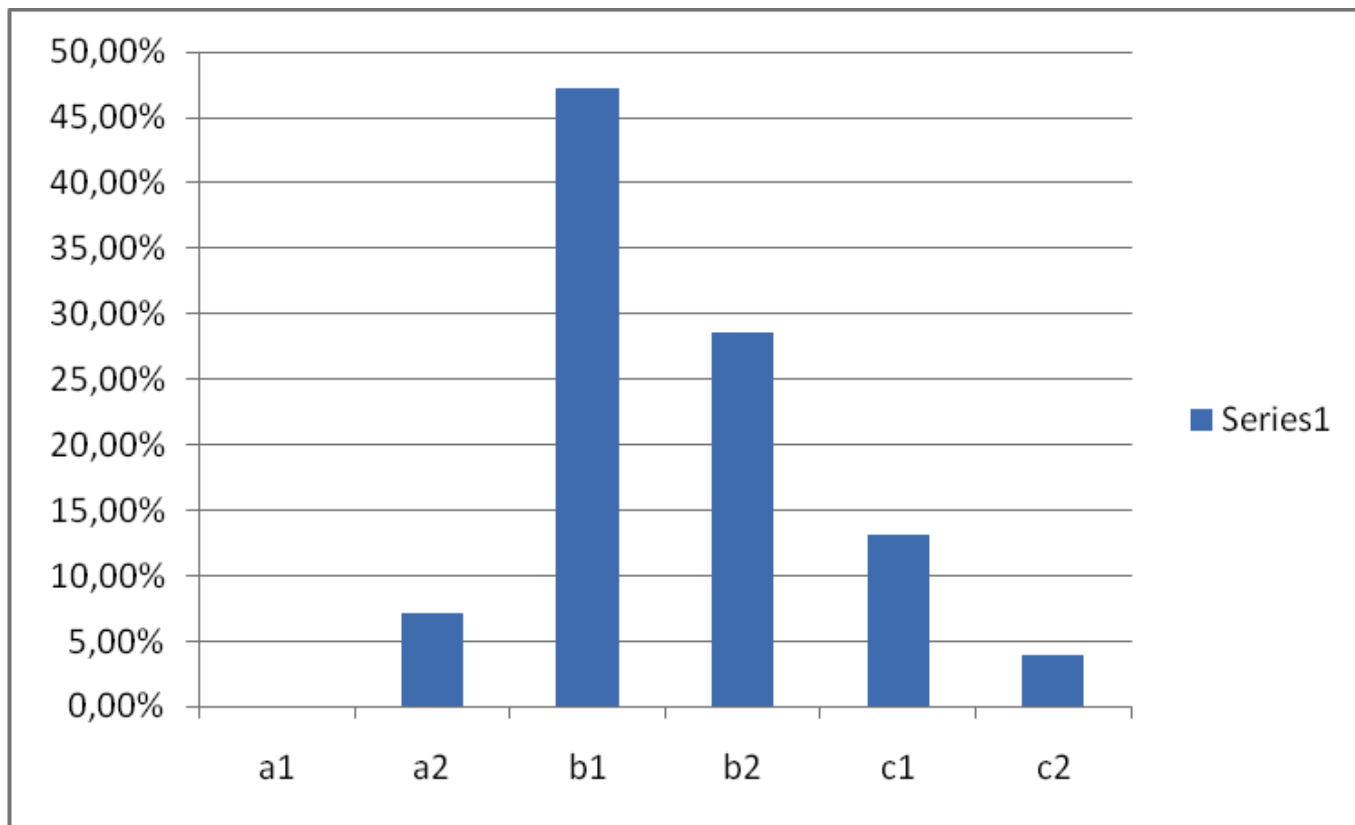
- Descriptive vs Performative
- Qualificational vs. Non-qualificational

(from Nuyts, 2000)

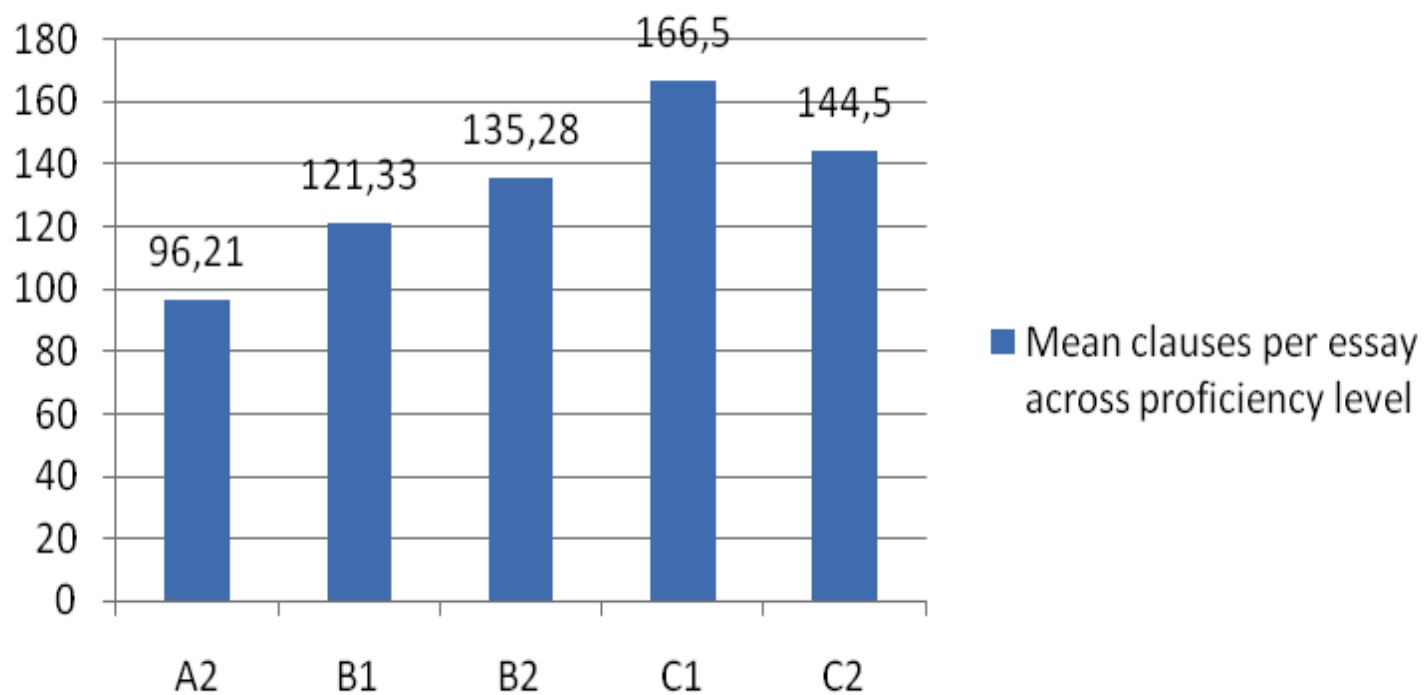
Corpus

- The **WriCLE** corpus: a **learner corpus** of Spanish university students (Rollinson and Mendikoetxea, 2010)
- A section of **458 essays** analyzed: 445,776 words (263 first-year-student essays; 195 third-year-student essays)
- Metadata included: **Learner Profile**, with the students' level of proficiency -Oxford Quick Placement Test, UCLES(2001)

- Writers' levels of proficiency: from **A2 to C2**, following the CEFRL (Council of Europe, 2001)



Mean clauses per essay across proficiency level



Procedures:

- **UAM CorpusTool** allows manual and automatic annotation of collections of text: pattern matching (O'Donnell, 2008)



the software automatically assigns grammatical categories to modal markers following my taxonomy

Rule: `select Modality:intention if Modality:lexical-verb containing 'think'` Edit Delete Add Help Show

Autocode Rule Editor

What do you want to do?

- Search for segments and assign those segments a particular feature
- Create new segments in one layer based on corresponding segments in another layer
- Create new segments in one layer based on string patterns in the text.

Find all: `lexical-verb` + `containing` `anywhere``think`

Code them as: `intention`

Save Cancel

Enter Search Query Below:

token + containing anywhere think Show as: table Save Help

P Only Partially Coded ■ Segment with Comment

	P	C	Pretext	Contained	PostText
🔍				think	
🔍				think	
🔍				think	
🔍				think	
🔍				think	
🔍				think	
🔍				think	
🔍				think	
🔍				think	
🔍				think	
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🔍				think	
🔍				think	

Grammar analysis for: UAM/C8-3.bt 1199 matches

To understand more or less what children think , we have to

Adjunct			Sep	Subject	Pred	
To	Pred	Adjunct		Object	Thing	To
		Unkn Unkn Unkn	Relpron	Subject	Pred	
			Unkn	Thing		

Fashion designers and people in charge of these kinds of announcem

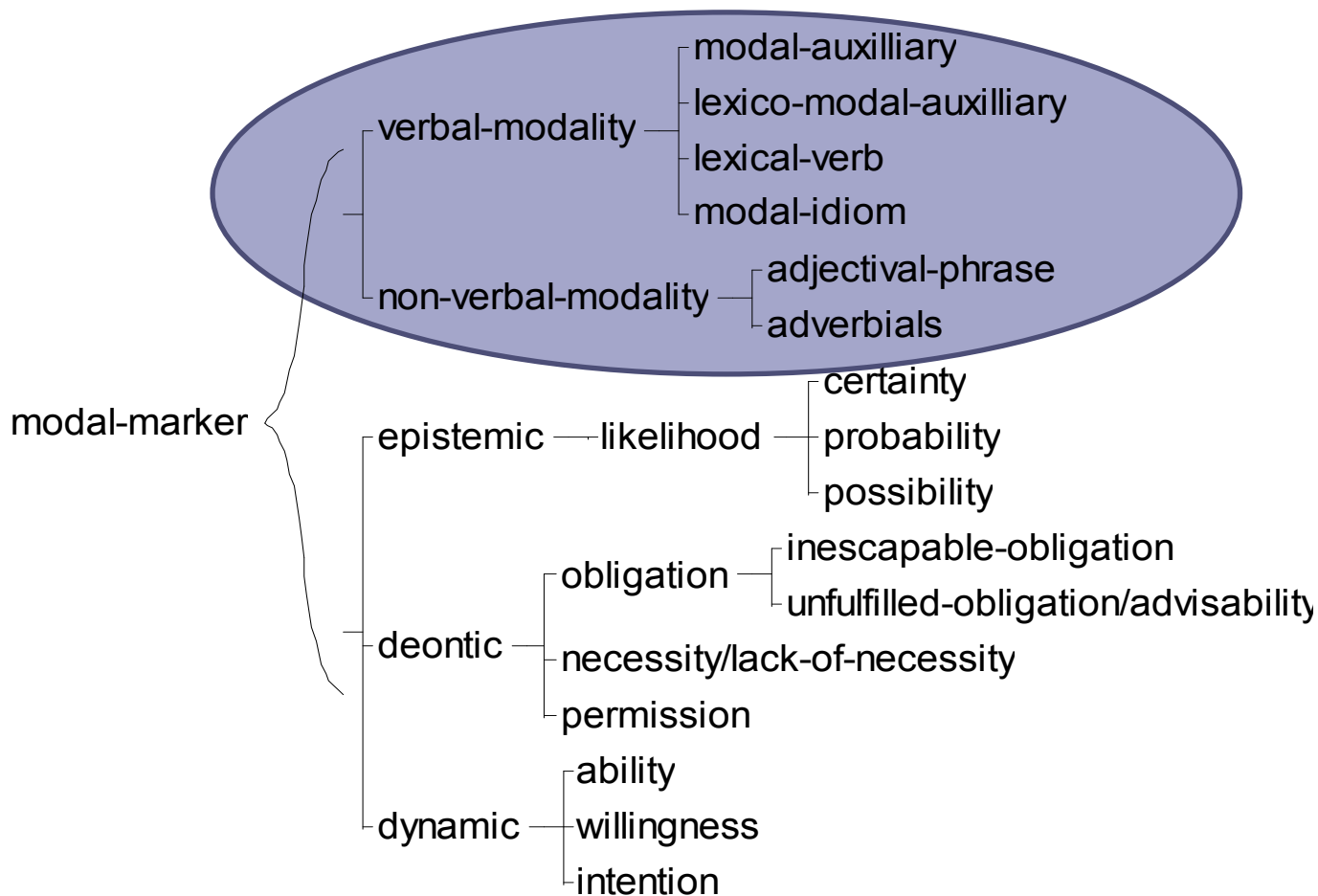
Subject

<< < > >> Ignore Delete Other Action... Save Close Help

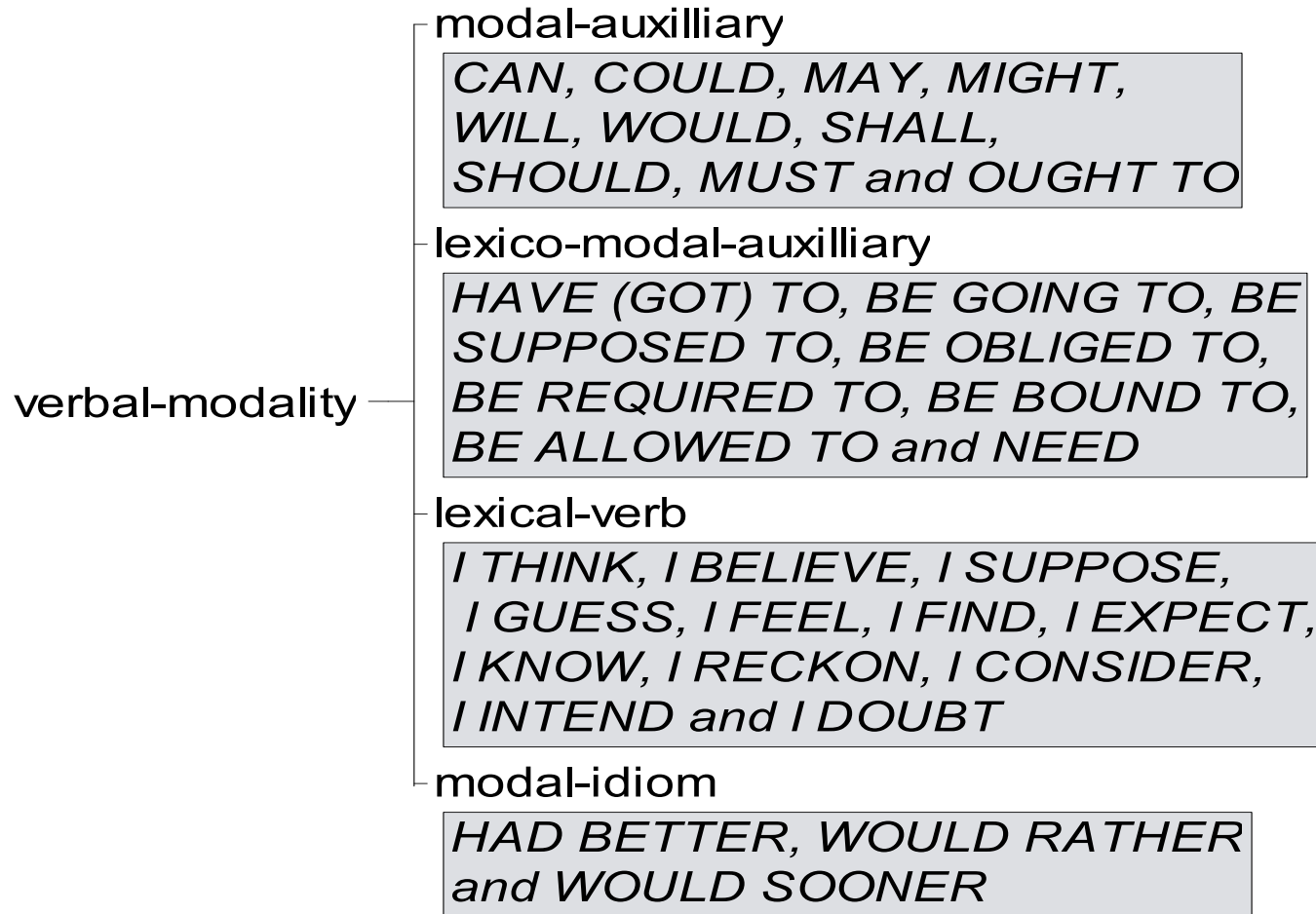
Assigned		Gloss
word		
lexical-verb		
mental-verb		
grammatical-unit		
token		
verb		
present-verb		

Comment:

Taxonomy of modal markers used:



Verbal modal elements:



(from Greenbaum et al., 1985)

Non-verbal modal elements:

non-verbal-modality

adjectival-phrase

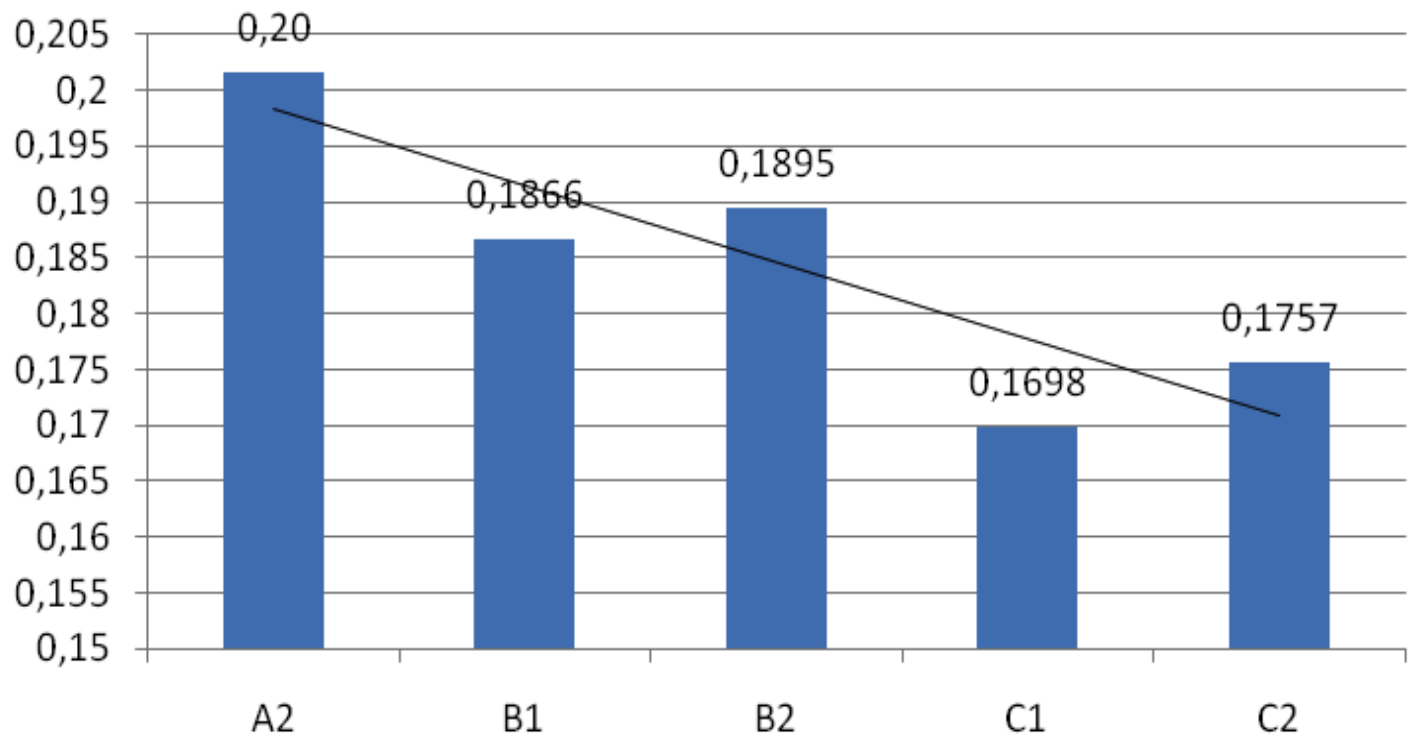
ABLE, UNABLE, TRUE, FALSE, NECESSARY, UNNECESSARY, POSSIBLE, IMPOSSIBLE, PROBABLE, IMPROBABLE, CLEAR, LIKELY, UNLIKELY, SURE, UNSURE, CERTAIN, UNCERTAIN, PERMISSIBLE, WILLING, UNWILLING, DETERMINED, IMPERATIVE, BOUND

adverbials

MAYBE, PERHAPS, POSSIBLY, DEFINITELY, CERTAINLY, SUPPOSEDLY, SURELY, UNDOUBTEDLY, DOUBTLESS, DOUBTLESSLY, LIKELY, PRESUMABLY, ARGUABLY, CONCEIVABLY, INDEED, FOR SURE, FOR CERTAIN, OF COURSE, WITHOUT DOUBT, PROBABLY and NECESSARILY.

(from Greenbaum et al., 1985)

Modal tokens per clause



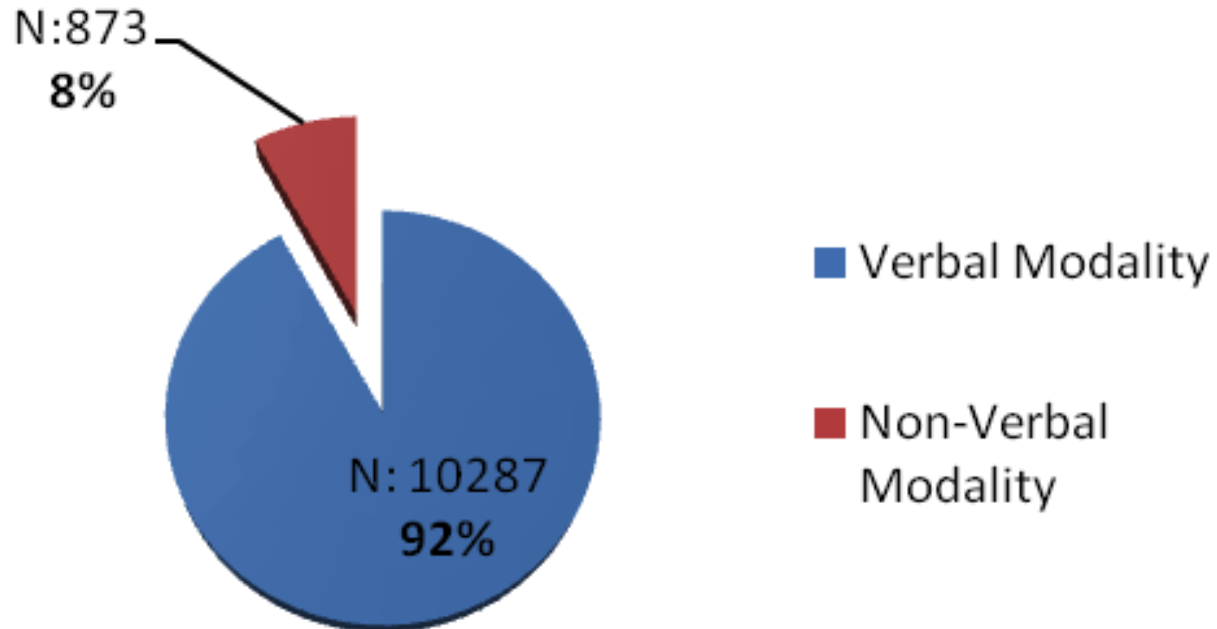
Hypothesis 1

- As students' level of proficiency rises, they will use a higher quantity of modal markers – PROVEN
WRONG

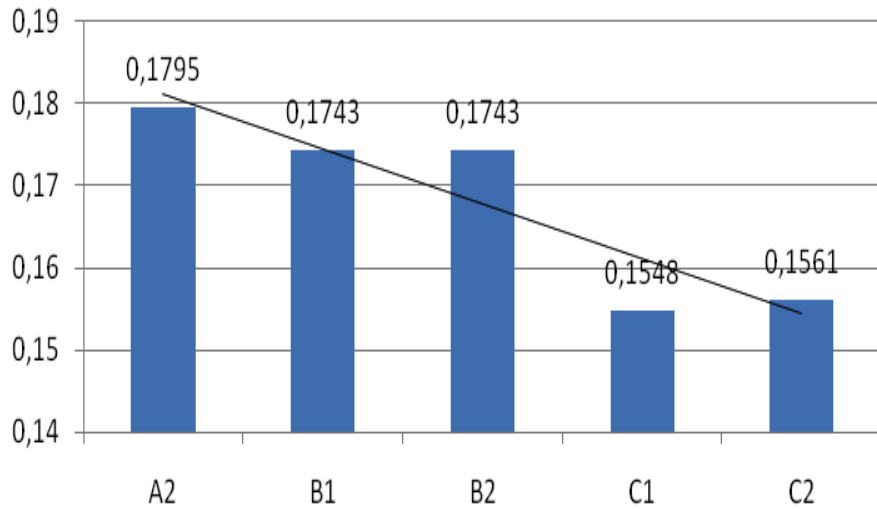
Hypothesis 3:

- As students' level of proficiency rises, I expect a movement away from *verbal* to *non-verbal* modal means

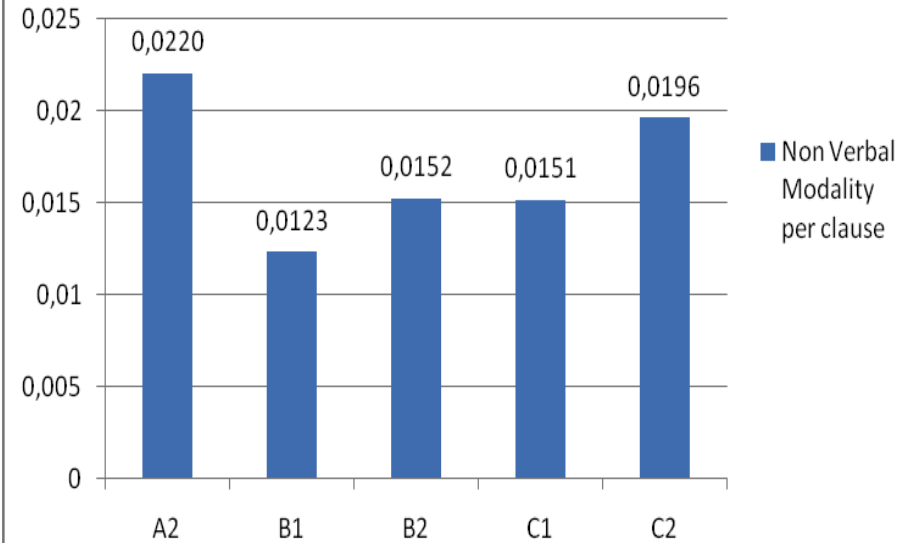
Verbal vs Non-Verbal modality



Verbal modality per clause

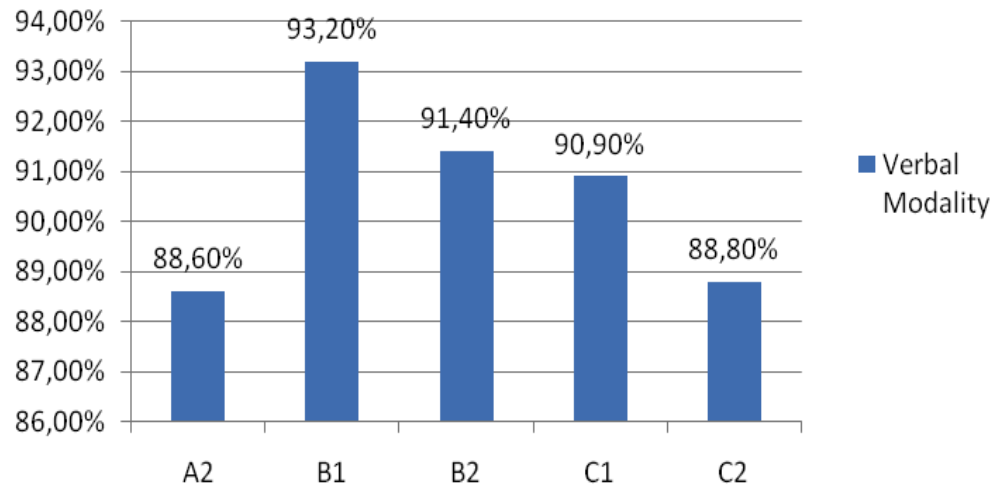


Non Verbal Modality per clause

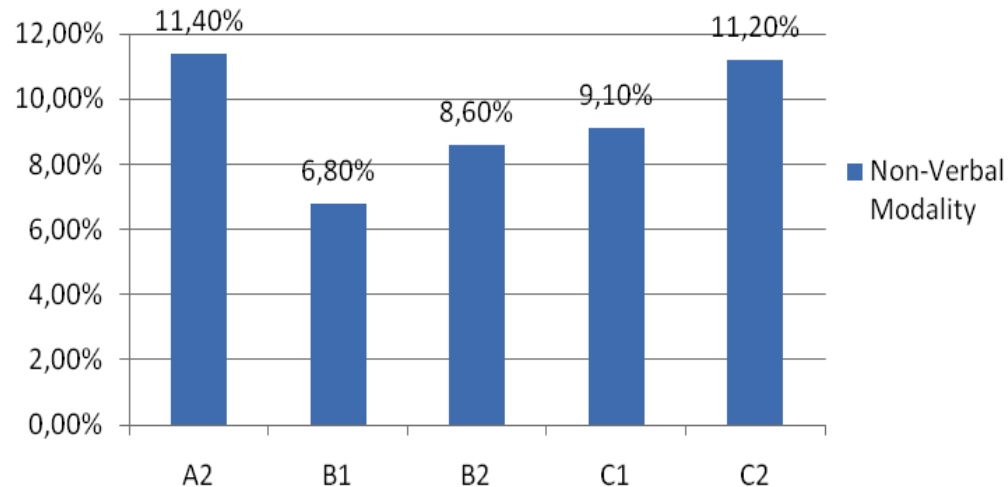


These results show that hypothesis 3 is RIGHT

Verbal Modality per total modal markers used



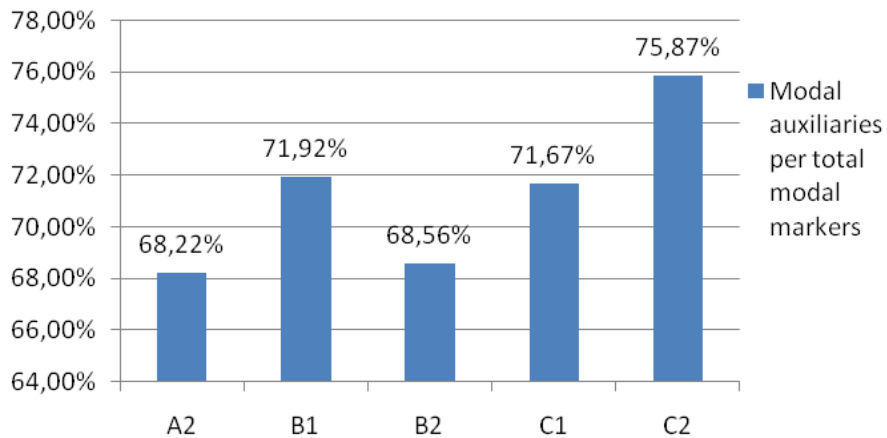
Non-Verbal Modality per total modal markers used



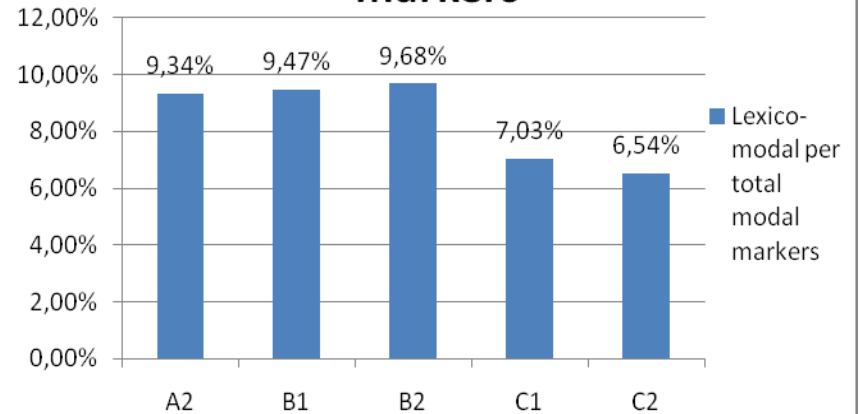
Hypothesis 2:

- As students' level of proficiency rises, I expect them to use a wider variety of modal markers

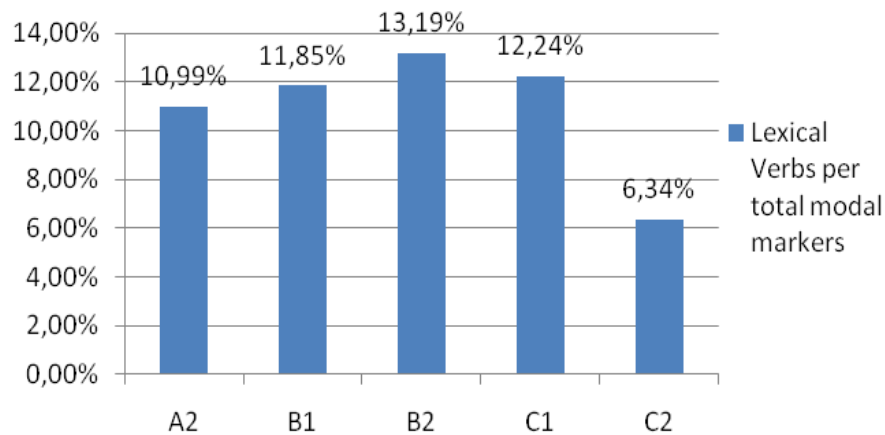
Modal aux per total modals used



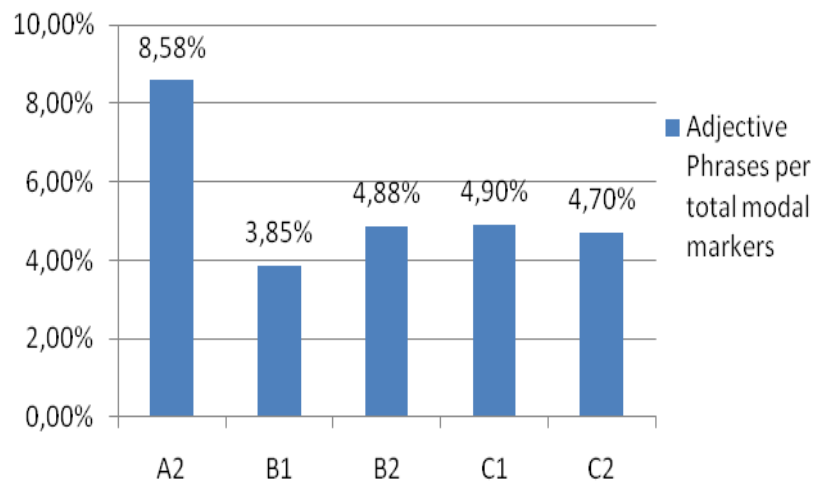
Lexico-modals per total modal markers



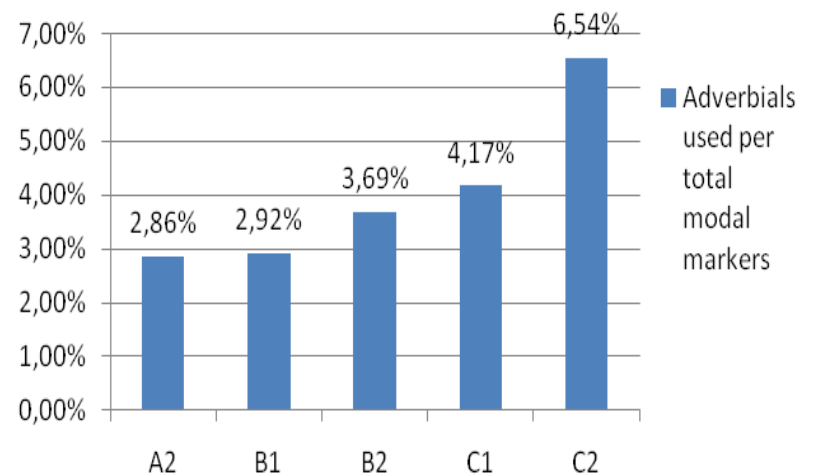
Lexical Vbs per modal markers



Adjective Phrases per total modal markers

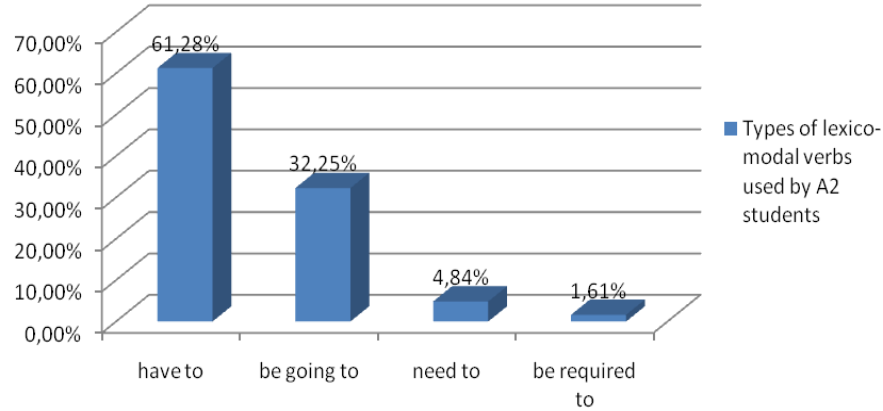


Adverbials used per total modal markers

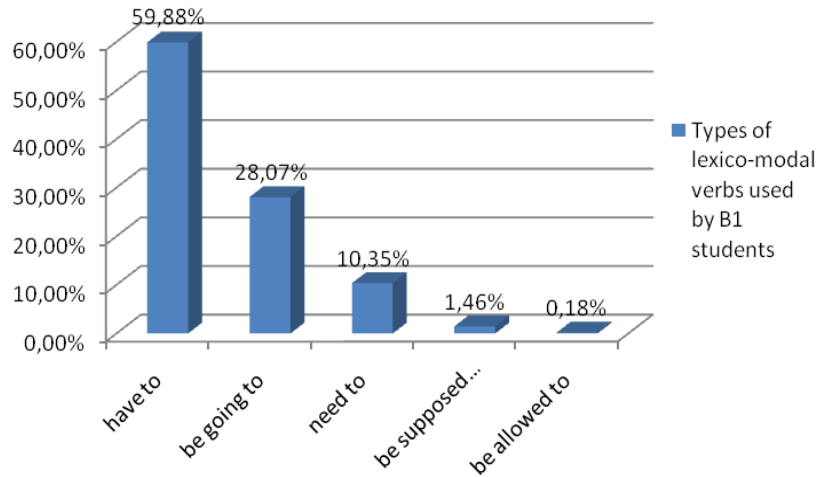


- There are no clear patterns, because all the grammatical categories established as modal are used to some degree at all levels.
- What does change is that the more advanced levels, especially B2 and C1, use a wider range of tokens within each of these categories

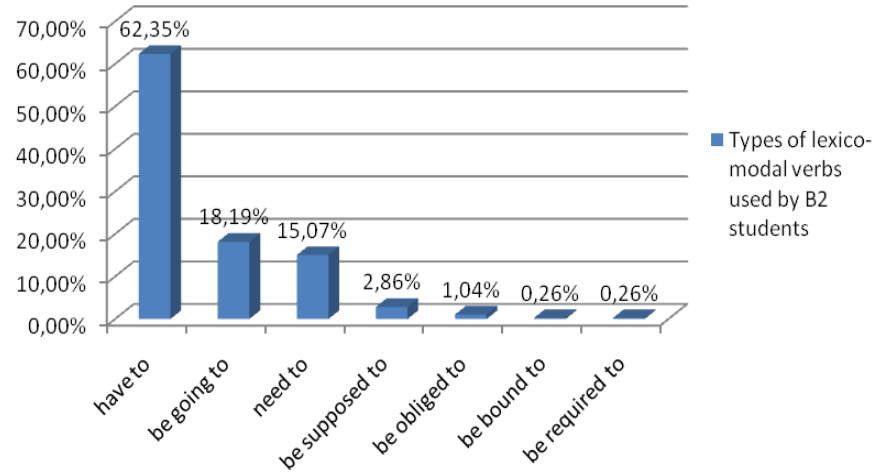
Types of lexico-modal verbs used by A2 students



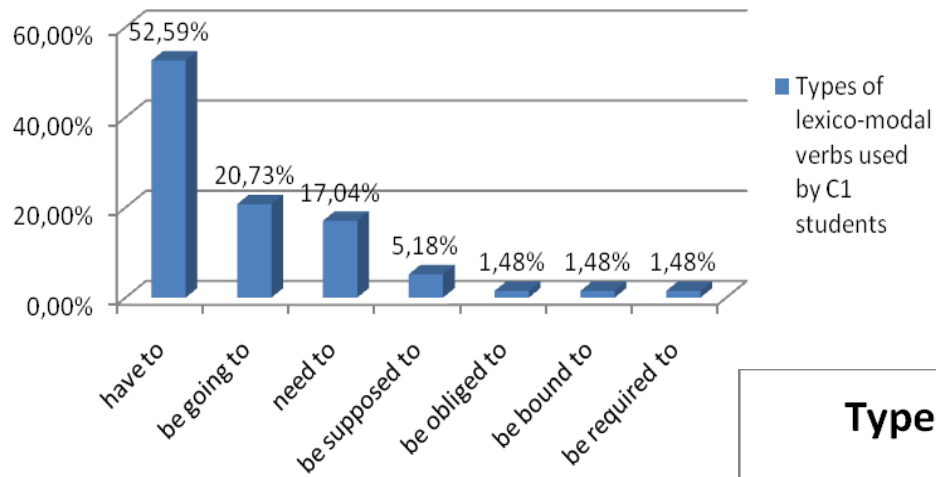
Types of lexico-modal verbs used by B1 students



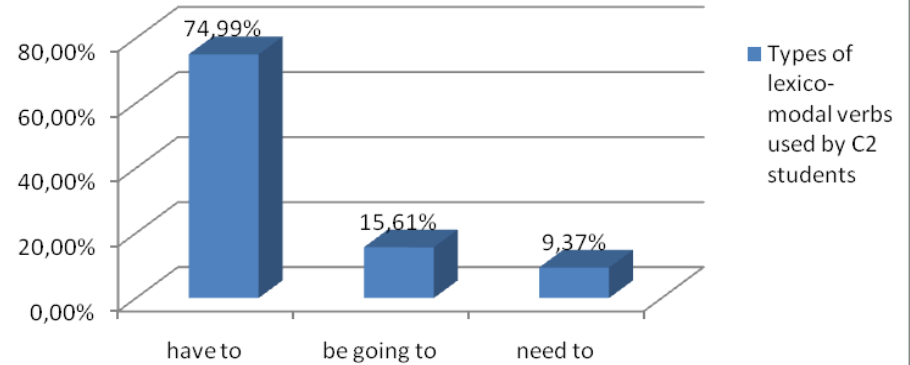
Types of lexico-modal verbs used by B2 students



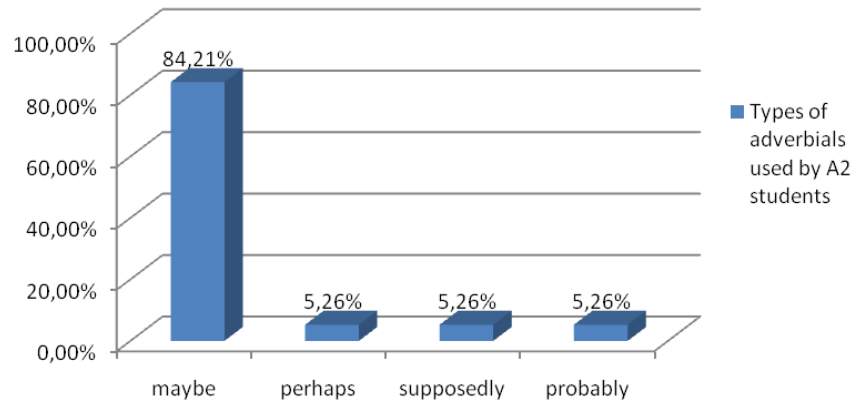
Types of lexico-modal verbs used by C1 students



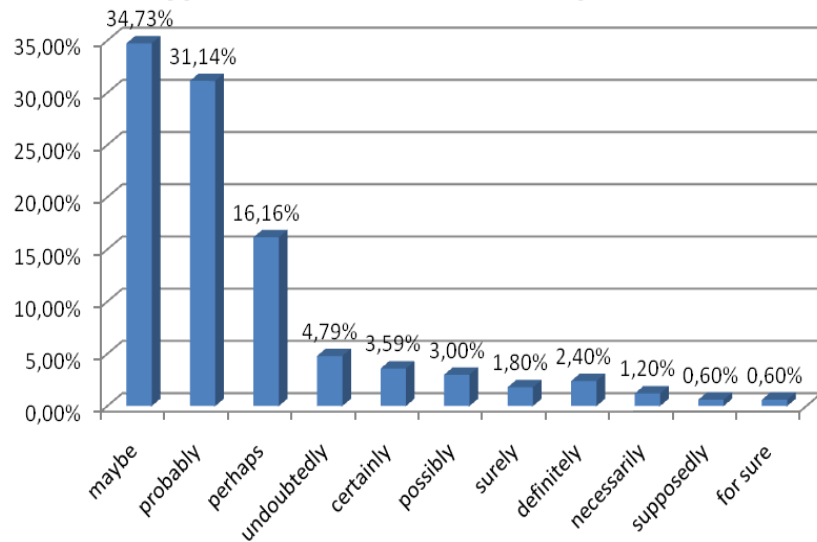
Types of lexico-modal verbs used by C2 students



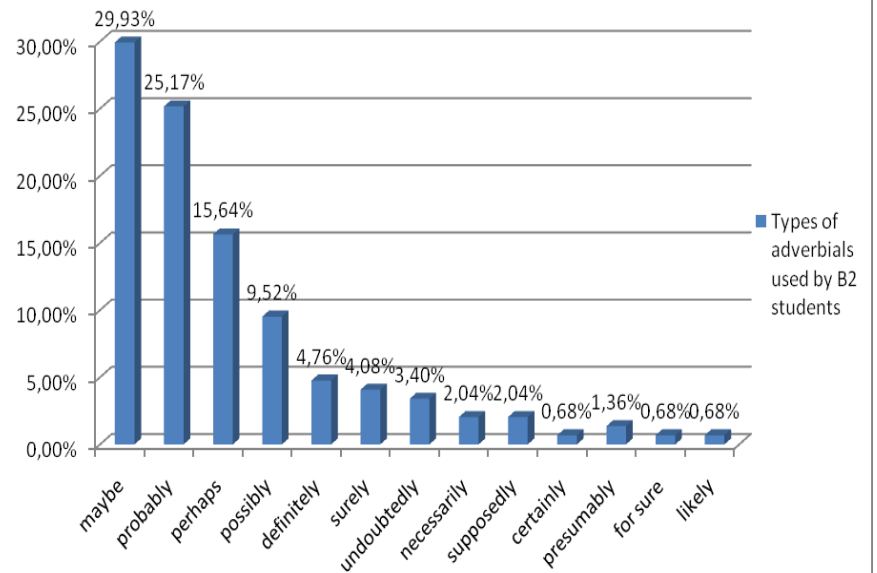
Types of adverbials used by A2 students



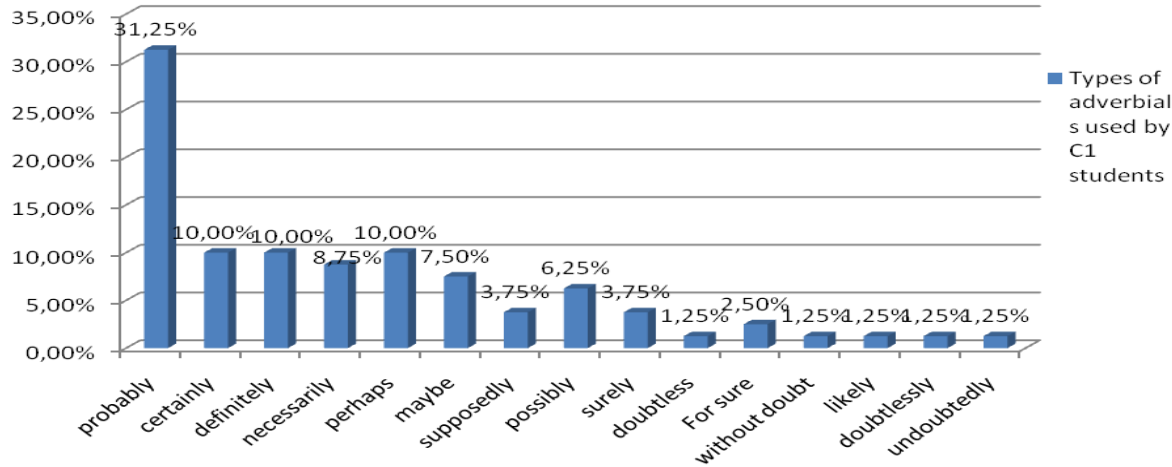
Types of adverbials used by B1 students



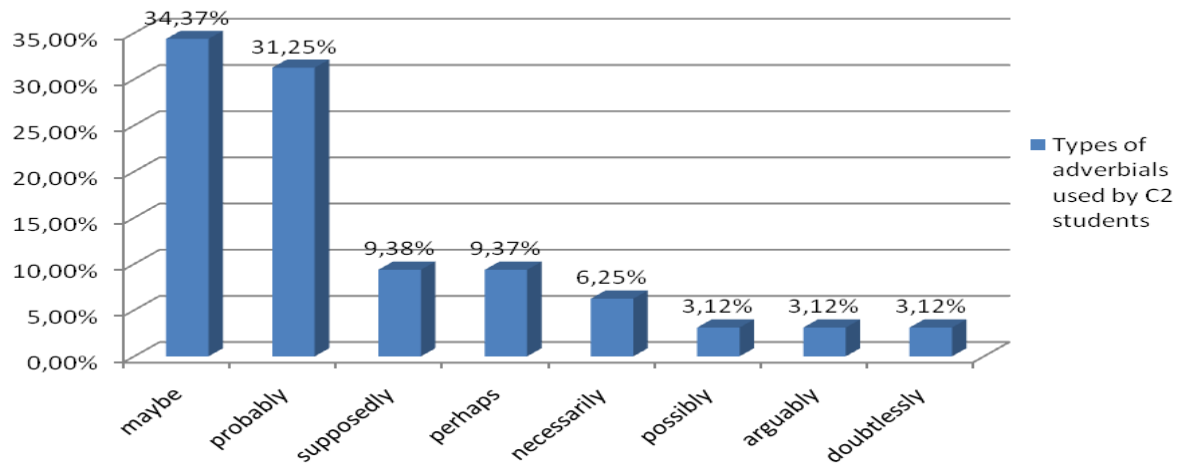
Types of adverbials used by B2 students



Types of adverbials used by C1 students



Types of adverbials used by C2 students



Hypothesis 2:

- As students' level of proficiency rises, I expect them to use a wider variety of modal markers:

Increasing use of non-verbal modality and more variety of tokens within each category: it proves RIGHT.

Conclusions

As students's proficiency level rises,

- **A fall in the use of total modal markers:**

- **Verbal modal** elements: **decreasing**
presence

- ***BUT their number is the largest across
proficiency levels

- **Non-verbal** modal elements: **increasing**
presence

- Proportion of modal markers per clause may be diluted in the advanced levels (they write more)
- A movement towards categories not included in my taxonomy? (i.e. evidentiality, frequency, reporting verbs, mental verbs different from the ones included)
- More quantity does not mean more quality, e.g. decreasing use of *be going to*

- The tokens used in each grammatical class show more grammatical and pragmatic accuracy in the advanced levels,
e.g. low-proficient students overuse *can* and *will* at the expense of *would* and *should* (*modal aux.*); decreasing use of *maybe* vs. increasing use of *probably* (*adverbials*)

→ notions of **register** and **genre**

- A wider range of tokens within each grammatical class as level of proficiency rises (except for C2 students)

Thank you!

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