



16th International AELFE Conference  
LSP in Multi-disciplinary Contexts of Teaching and  
Research

# The Flexible Language Acquisition platform (FLAX): measuring its efficacy in the legal English classroom

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## 1. Introduction and literature review

- This research presents the **analysis** of two learner **corpora** within the field of **legal English**.
- Both **corpora** comprised the essays written by **105 informants** divided into an experimental and a control group (section 3).
- **Only** the **experimental** group could employ the FLAX, a **corpus-based** language learning **platform**, as an information/learning source.
- **Motivation:** there is a **gap** in the area where **legal English DDL** (*data-driven learning*) experiments have very **rarely** been implemented (Boulton, 2012).



## 1. Introduction and literature review

- DDL instruction has received **support** by a plethora of authors (Johns, 1997; Sinclair, 2003; Hunston, 2007; Boulton, 2012), although there exist some **problem areas**.

- **Ädel** (2010) detects seven **challenges** which corpus-based language instruction has to overcome, amongst them: the '**language maze**' or the challenge of **interpretation** and **evaluation**.

The **FLAX platform**, which is corpus-based, manages to, at least, **address** some of these questions.



## 1. Introduction and literature review

### 1.1. The lexical level

The **relevance** of terms in specialised communication:

- They **crystallise** specialised concepts (Kit and Liu, 2008).
- They are used as **vehicles** to transmit specialised **knowledge** (Cabr e, 1993).
- **Understanding** such concepts facilitates **comprehension** in specialised discourse (Mar n, 2014).
- From a **quantitative** perspective, they can be automatically **mined** implementing various algorithms (Drouin, 2003; Scott, 2008; Sinclair & Rockwell, 2012).



# 1. Introduction and literature review

## 1.2. The pragmatic level: MD markers

Metadiscourse markers (Hyland and Tse, 2005) are markers of interpersonality:

☞ **Textual:** they **organise** information **in an orderly manner** within the text.

- Transition/logical markers (*and, furthermore*); frame markers (*firstly, as regards*); code glosses (*hence, moreover*); endophoric markers (*see above*); evidentials (*according to*).

☞ **Interactional:** they show the **speaker's/writer's attitude** to the propositional content of the text.

- Hedges (*may, might, probably*); boosters (*certainly, clearly*); attitude markers (*I think, unfortunately*); engagement markers (*consider that*); self references (*I, our, mine*).



## 2. The FLAX

The FLAX is an **open-access** online **language learning** platform which offers, amongst other, corpus-based materials to learn legal English (designed by the FLAX team at the University of Waikato, NZ).

- It is **corpus-based** insofar as it contains **full transcriptions** of complete lectures and allows for their automatic processing.

Let us **take a look**: <http://flax.nzdl.org/greenstone3/flax>





## 2. The FLAX

Apart from the texts and the videos, the FLAX offers language activities to exploit the resources in each lecture. For instance:

☞ **Term lists** (which can be stored in our “cherry basket”)

**English Common Law MOOC (University of London with Coursera)**

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academic Words  sort by frequency

legal		153	civil		115	convention		95	principle		84	issue		82
fundamental		75	interpretation		73	obviously		71	area		57	previous		55
link		52	theme		52	process		51	community		51	precedent		51
legislation		49	interpret		48	institution		46	constitutional		41	hierarchy		39
role		38	involve		38	create		35	context		34	economic		33
individual		33	source		32	stress		32	lecture		32	domestic		32
authority		29	structure		29	tradition		29	constitution		29	require		28
define		27	period		27	contemporary		27	major		26	distinction		26
couple		25	method		25	concept		25	impact		24	section		24
paragraph		24	debate		23	integrity		23	inconsistent		23	consistent		22
similar		21	function		21	justify		20	focus		19	approach		19
primarily		19	evidence		18	circumstance		18	prior		17	presumption		16
quote		15	policy		15	chapter		15	instance		15	relevant		15
somewhat		15	legislative		15	grant		14	labour		14	ultimately		14
conventional		14	access		13	achieve		13	accurate		13	coherent		13
final		12	ensure		12	resolve		12	creation		12	ambiguity		12
quotation		12	so-called		12	definition		12	precedence		12	commentator		12
image		11	element		11	tension		11	prohibit		11	specific		11
commission		11	enable		10	complex		10	feature		10	category		10
restriction		10	affect		9	enforce		9	precise		9	abstract		9



## 2. The FLAX

### 👉 Collocations

#### English Common Law MOOC (University of London with Coursera)

About Collection

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Extras

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Wordlist

LexicalBundles

 My Cherry Basket

#### 📖 Browse Collocations in Collection

a b c d e f g h i j k l m n o p q r s t u v w y Top 100

#### 📖 9 collocation(s) associated with the word *appellate*

Adjective (6) | Verb (2) | Noun + of (1)

- [appellate jurisdiction](#) (8)
- [appellate courts](#) (5)
- [appellate capacity](#) (2)
- [appellate level](#) (2)
- [appellate structure](#) (1)
- [appellate committee](#) (1)





## 2. The FLAX

### 👉 Lexical bundles

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[LexicalBundles](#)



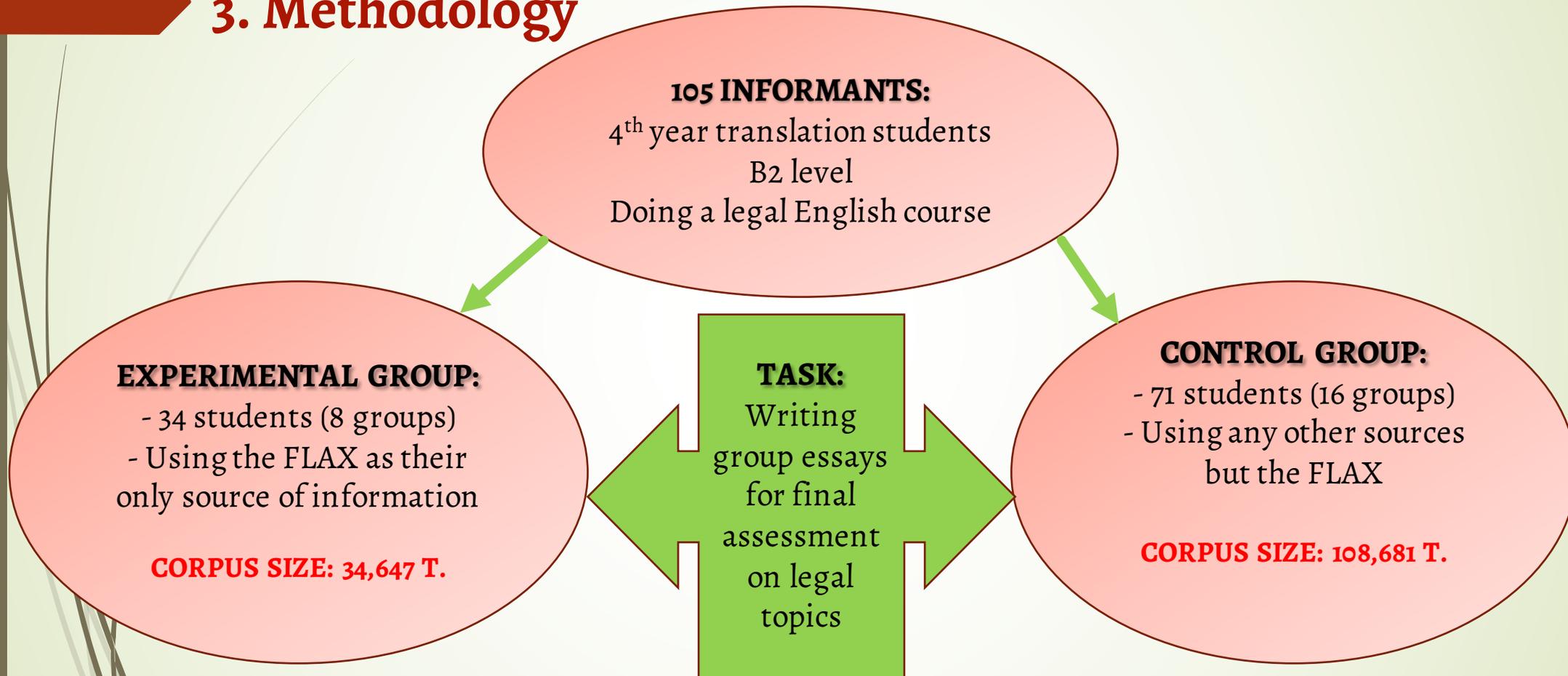
[My Cherry Basket](#)

[At the beginning](#) [In the middle](#)

- [In other words, the](#) (22)
- [In other words, what](#) (8)
- [In other words, it](#) (7)
- [This takes us to](#) (6)
- [In other words, we're](#) (5)
- [In other words, we](#) (5)
- [We've been thinking about](#) (4)
- [I suppose the other](#) (4)
- [In other words, it's](#) (4)
- [I just want to](#) (4)
- [Now this is a](#) (4)
- [He went on to](#) (3)
- [I want to just](#) (3)
- [Which of the following](#) (3)
- [This article shall not](#) (3)



### 3. Methodology





## 4. Results and discussion

### 4.1. Specialised terms and the general lexicon

#### 1- Term Usage:

FLAX corpus: 10.32% of  
the type list were terms.  
Non-FLAX c: 3.82%  
terms

#### 2- Terms and text range:

FLAX corpus: 48.49% of  
the texts  
Non-FLAX corpus:  
29.54% of the texts

#### 3- Lexical diversity:

Non-FLAX corpus:  
37.63 STTR  
FLAX corpus:  
35.3 STTR

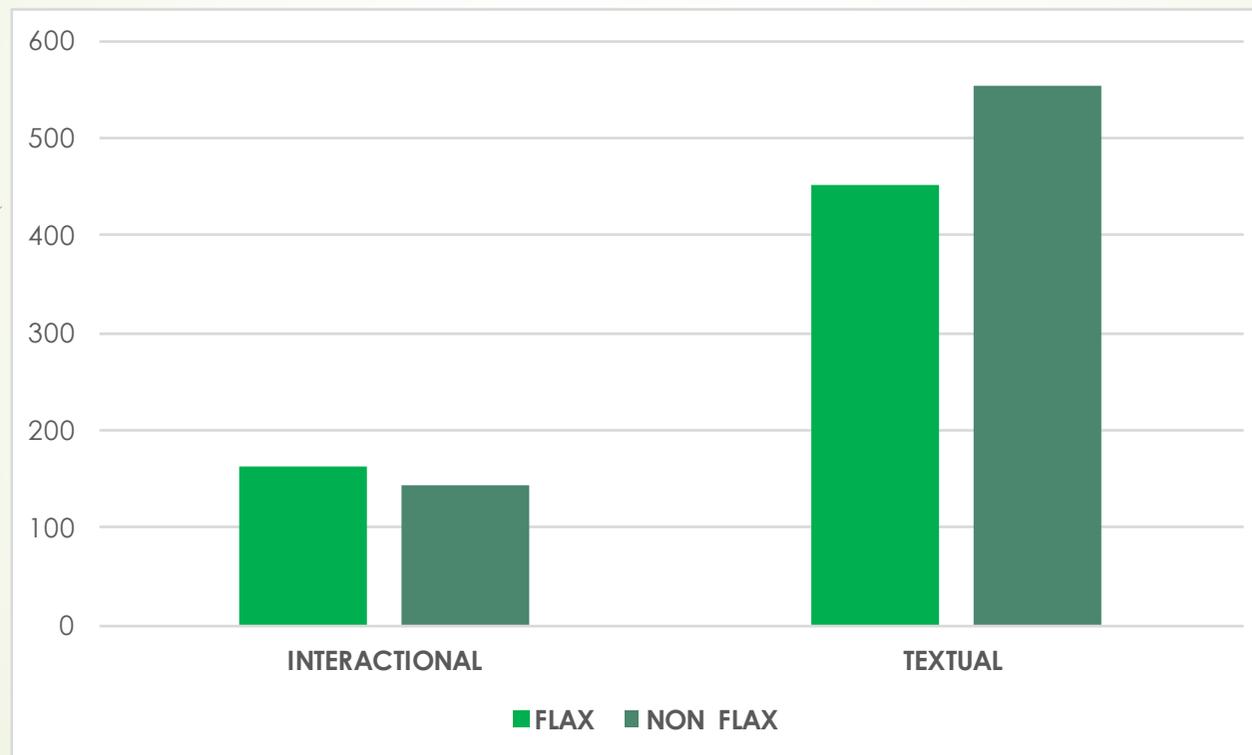
#### 4- Lexical fundamentality:

FLAX corpus: 79.39%  
general vocabulary  
Non-FLAX corpus:  
66.73%



## 4. Results and discussion

### 4.2. The pragmatic level: analysis of meta-discourse markers





## 4. Results and discussion

### 4.2. The pragmatic level: analysis of meta-discourse markers (interactional set)

INTERACTIONAL MARKERS		
TYPES	NON-FLAX (norm. freq.)	FLAX (norm. freq.)
<b>HEDGES</b>		
May	16.47	16.16
Might	1.75	3.17
Must	17.21	11.55
Can	35.06	43.29
Could	3.50	16.45
Would	5.89	27.42
Probably	0.28	0.87
Perhaps	0.09	0.87
Maybe	0.09	0
<b>SUBTOTAL</b>	<b>80.34</b>	<b>119.78</b>
<b>BOOSTERS</b>		
clearly	1.10	1.15
certainly	0	1.15
<b>SUBTOTAL</b>	<b>1.10</b>	<b>2.3</b>

ATTITUDE MARKERS		
need to	3.12	3.46
we think	0	0.57
I think	0	0.28
have to	4.50	10.39
Unfortunately	0	0.86
<b>SUBTOTAL</b>	<b>7.62</b>	<b>15.56</b>
<b>ENGAGEMENT MARKERS</b>		
consider that	0	0.86
<b>SUBTOTAL</b>	<b>0</b>	<b>0.86</b>
<b>REFERENCES TO SELF</b>		
I	9.01	4.61
Me	2.02	0.57
us	4.60	5.48
our	2.76	4.90
mine	0.36	0
<b>SUBTOTAL</b>	<b>18.75</b>	<b>15.56</b>
<b>TOTAL</b>	<b>143.24</b>	<b>154.06</b>

## 5. Conclusion

-This research has presented the **analysis** of two learner **corpora** within the field of **legal English**.

-The two corpora have been analysed on a lexical and pragmatic level showing that:

1- The **experimental group** displayed a **better command** in the use of legal **terms** whereas the vocabulary in their essays was more basic and less varied than the control group's.

2- The **use of MD markers** by both the experimental and control groups is **scarce**, finding a **striking** difference between textual and interactional ones. This evidences their lack of confidence as regards their willingness to express **stance** through interactional markers. The **experimental groups excels** the control group in the use of the latter, appearing to be more **willing** to build an **interaction** between the writer and the reader.



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## 4. Results (top 20 specialised terms)

<b>NON FLAX-BASED TEXTS (control group)</b>		<b>FLAX-BASED TEXTS (experimental group)</b>	
<b>TERMS</b>	<b>KEY-NESS</b>	<b>TERMS</b>	<b>KEY-NESS</b>
Law	7833.93	Law	3584.82
Contract	3050.50	Rights	1586.21
Legal	2839.63	Court	1378.70
Civil	2493.52	Precedent	1187.08
Attorney	1904.97	Case	702.25
Court	1577.73	Sovereignty	641.44
Criminal	1361.42	Statutes	468.01
Offence	1316.28	Act	467.83

Party	1266.3	Decisions	429.75
Custody	796.83	Convention	372.03
Testator	649.71	Appeal	337.26
Property	600.88	Legislation	227.05
Probate	581.39	Rule	219.71
Contractual	531.89	Civil	210.75
Power	523.25	Constitution	210.63
Legislation	509.75	Power	201.92
Arbitration	485.55	Interpretation	197.23
Act	432.32	Binding	184.37
Notary	426.29	Judicial	179.32
Agreement	422.80	Jurisdiction	158.02

## 4. Results (Term usage samples)

- 1- In a will, the testator or testatrix appoints another person (called the executor) as responsible of the administration and distribution of his/her possessions among his/her inheritors or beneficiaries (Non- FLAX).
- 2- A.D.R consists of choosing a judge called arbitrator that, after examining the different positions of the parties, issues a binding decision called arbitration (Non-FLAX).
- 3- The term binding precedent is the opposite idea to persuasive precedent, which is not binding (FLAX).
- 4- The parliament (...) creates supreme law (statutes), which will override inconsistent case law and reflect the sovereignty and legitimacy of parliament (FLAX).



## 4. Results and discussion

### 4.2. The pragmatic level: analysis of meta-discourse markers (textual set)

TEXTUAL MARKERS		
TYPES	NON-FLAX CORPUS (norm. freq.)	FLAX CORPUS (norm. freq.)
<b>TRANSITION/LOGICAL MARKERS</b>		
And	249.17	246.77
furthermore	1.29	1.15
additionally	0.55	0
Or	104.43	53.11
But	16.47	27.71
however	7.45	10.68
nevertheless	2.85	6.64
so	8.83	19.92
therefore	3.40	7.22
finally	2.85	2.60

moreover	1.20	1.73
hence	0.28	1.44
thus	2.48	4.04
in addition	1.29	0.87
in summary	0.00	0.29
in conclusion	0.09	0.29
what is more	0.09	0.00
concluding	0.37	0
<b>SUBTOTAL</b>	<b>403.09</b>	<b>384.46</b>
<b>ENDOPHORIC MARKERS</b>		
noted/see above/below	1.74	0.86
see Fig	0.09	0
in section X	0.18	2.3
<b>SUBTOTAL</b>	<b>2.01</b>	<b>3.16</b>



## 4. Results and discussion

### 4.2. The pragmatic level: analysis of meta-discourse markers (textual set)

FRAME MARKERS		
In the first place	0.09	0.29
firstly	0.64	1.15
as stated in	0.28	0.00
as for	0.74	0.00
as regards	0.00	0.29
thirdly	0.18	0.29
secondly	0.74	0.87
regarding	4.05	2.31
concerning	1.38	1.15
<b>SUBTOTAL</b>	<b>8.1</b>	<b>6.35</b>
CODE GLOSSES		
that is	2.58	3,17

in other words	0.18	0.00
explicitly	0.18	0
specifically	0.83	0.29
—	0.92	0.00
()	119.52	25.40
colon	8.37	18.76
namely	0.28	0.29
<b>SUBTOTAL</b>	<b>132.86</b>	<b>47.91</b>
EVIDENTIALS		
According to	8	6.63
X states/says	0.55	4.32
<b>SUBTOTAL</b>	<b>8.55</b>	<b>10.95</b>
<b>TOTAL</b>	<b>554.61</b>	<b>452.83</b>



## 4. Results and discussion

### 4.2. The pragmatic level: analysis of meta-discourse markers (usage samples)

1. It comprises the rule by which a court hears and determines what happens in civil lawsuits (Non FLAX).
2. Defamation: it occurs when the defendant communicates untruthful information about the plaintiff and it hurts the plaintiff's reputation (FLAX).
3. (...) which are not considered as crimes nor breaches of contract, that is, torts. (Non FLAX)
4. In other words, they tried to make a case that would not be a precedent (sic). (FLAX)
5. Henceforth, we will focus on civil law from Common law and its division (Non FLAX).
6. However, we must not forget that history is fuel to the future and that our current idea of due process is ( ) (FLAX)