

# Sharing an Open Methodology for Building Domain-specific Corpora for EAP

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# Outline



- FLAX Language Project at Waikato University
- Developing an EAP Resource Interface between Traditional EAP and Massive Open Online Courses
- Developing ESAP Collections in FLAX (Academic English for Law at QMUL)
  - What's in the Demo Collection and What's to Come!
  - Formatting Open Access Articles for FLAX Corpora
- Fully Open Texts
  - Beyond Parsing with Text Augmentation & Linked Data
  - Lexical Bundles, Collocations, Wordlists, Cherry Picking Functions
  - Building in Interactivity
- Design-based Research with FLAX, Queen Mary and the OER Research Hub
  - Research & Development Cycles with Design-based Research for Iterating Collections Development
  - Rapid Prototyping of Online Demo Collections to Evaluate the Design Process and to Share with Stakeholders

# FLAX Language at Waikato University



# FLAX Language Project at the Greenstone Digital Library Lab, Waikato University NZ



Professor Ian Witten  
FLAX Project Lead



Dr Shaoqun Wu  
FLAX Project Lead Researcher & Developer

# QM's Critical Thinking & Writing in Law

- Queen Mary's Critical Thinking and Writing in Law (CTWL) Programme has been running successfully for over 7 years.
- It is delivered by QM Language Centre's EAP/ESAP team as part of the Insessional provision.
- Over 600-800 LLM students enroll on it every year.
- A team of 6-7 EAP tutors teach on it, and are under constant pressure to develop better and new materials for their high calibre students.

# The FLAX System for Subject-Specific Corpus Development

Corpus Linguistics – pioneered by Sinclair 1991.

DDL – Data-Driven-Learning – term coined by Johns 1991.

An empirical method of linguistic enquiry

- Used to discover the lexico-grammatical properties of genre or text-type
- Used to discover the key terminology given field or discipline – English for Specific Academic Purposes (ESAP)
- Used for exploring collocations:

# Collaboration with Subject Specialists

“In the emerging academic literacies approach involving cooperation between subject specialists and writing teachers, the aim is to help the students develop metacognitive awareness of the roles and functions of writing in that discipline, to enable them to stand back from it and observe how it functions, and then to help them gradually participate in the genres, where genre is understood as a constellation of actions rather than a list of formal features.” (Breeze, 2012)

## Benefits

- Inductive – promotes critical thinking
- Promotes learner autonomy
- Based on evidence, not instinct
- Especially relevant for ESP and ESAP

## Limitations

- Need for Ts and Sts to have technical skills to use corpora and concordancers
- Need for access to corpora and software programmes
- Large amount of data can be overwhelming

“Every student is Sherlock Holmes.” (Johns, 2002:108)



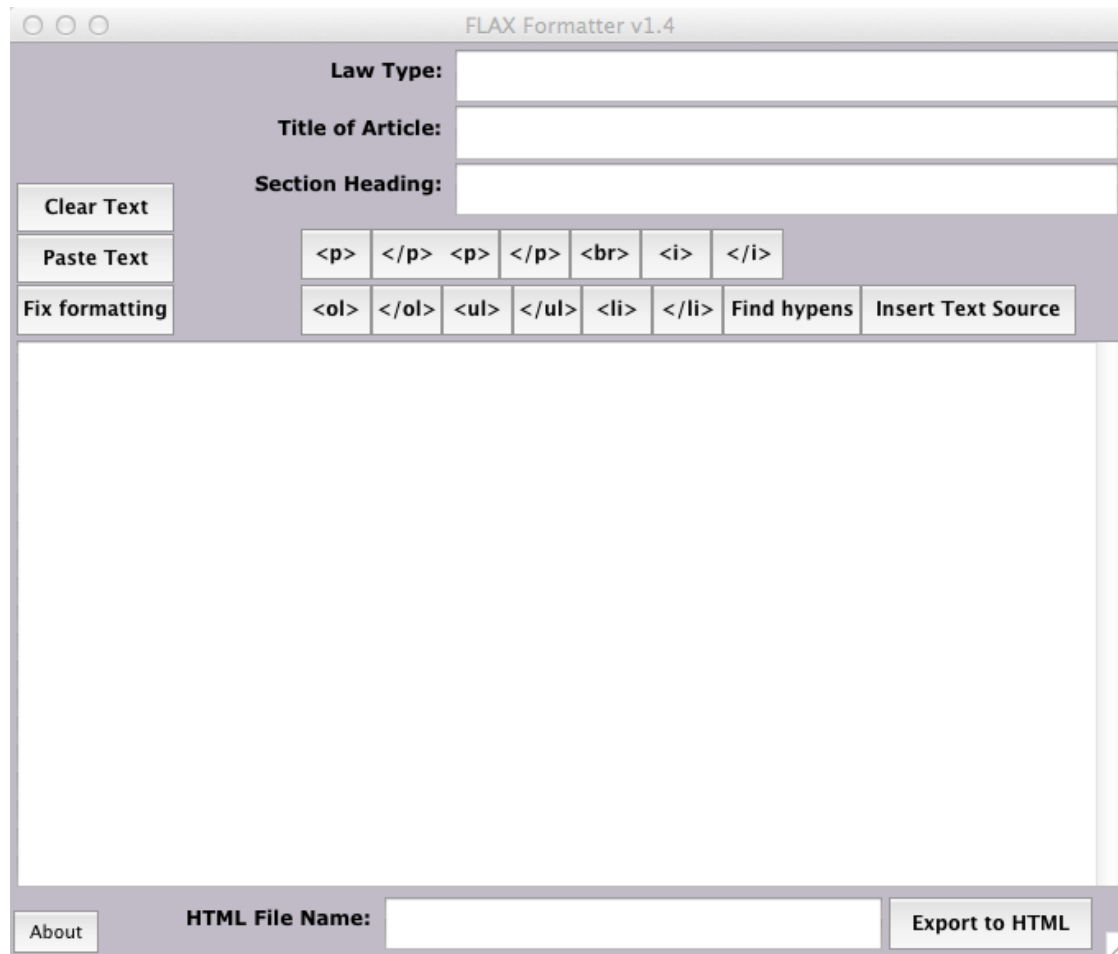
# Interfacing Traditional EAP & MOOCs



# ESAP Law Collections in FLAX

Type of media in the FLAX Law Collections	Number and source of items in the FLAX Law Collections
Podcast audio files & transcripts (OpenSpires)	10-15 Lectures (Oxford Law Faculty & the Centre for Socio-Legal Studies)
MOOC lecture transcripts & videos (streamed via YouTube & Vimeo)	4 MOOC Collections: Copyright Law (Harvard/edX), English Common Law (Uni. of London/Coursera), Age of Globalization (Texas at Austin/edX), Environmental Law & Politics (OpenYale)
Student PhD thesis writing and Pre-sessional for Law ESAP essay writing	70 QMUL EThoS Theses at the British Library (Open Access but not licensed with Creative Commons – will need permission to develop for Non-Commercial Educational & Research purposes); 20+ Essays from QMUL Law Pre-sessional
Open Access research articles (relevant to QMUL Law and EAP for Law and Globalisation)	40 Articles (DOAJ - Directory of Open Access Journals)

# Formatting OA Articles for FLAX



# Working with Full Texts

## LAW QMUL

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### Browse Documents by Title

*Achieving Ecological Objectives*

*Adaptation to Climate Change: Legal Challenges for Protected Areas*

*A Cayman Islands Perspective on Transborder Insolvencies and Bankruptcies: The Case for Judicial Co-Operation*

*A Cayman Islands Perspective on Transborder Insolvencies and Bankruptcies: The Case for Judicial Co-Operation  
Managing Ethical Risks and Crises: Beyond Legal Compliance*

*Climate Justice: A Constitutional Approach to Unify the Lex Specialis Principles of International Climate Law*

*Decomposing US Money Supply Changes since the Financial Crisis*

*THE EVOLUTION OF CONTRACTUAL TERMS IN SOVEREIGN BONDS*

*Image Right and Copyright Law in Europe: Divergences and Convergences*

*International Exhaustion, Parallel Imports, and the Conflict between the Patent and Copyright Laws of the United States*

*Lessons from Technology and Intellectual Property in the Oil and Gas Industry in Scotland: a Scholarly Journey and an Empirical Review*


Lessons from Technology and Intellectual Property in the Oil and Gas Industry in Scotland: a Scholarly Journey and an Empirical Review

- 1. Introduction and overview
- 2. The project landscape: three strands - Strand 2.1
- 2. The project landscape: three strands - Strand 2.2
- 2. The project landscape: three strands - Strand 2.3
- 3. Combining the strands: a new approach to encouraging the development of technology?
- 4. Empirical Pilot
- 5. Key themes from pilot interviews
  - 5.1. There is no such field as "energy"
  - 5.2. Technological innovation is not the focus of (most) of the oil and gas industry
  - 5.3. IP is important but not essential to innovation and rarely a significant obstacle to activity
  - 5.4. There can be collaboration and sharing
  - 5.5. There should be different regulation
- 7. Conclusions

# Text Augmentation + Text Parsing

LAW QMUL

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**Achieving Ecological Objectives**

Original

[wordlist](#) [wikify](#) [adjective](#) [noun](#) [verb](#)

## 1. Introduction

The EU is unique in its transboundary laws, institutions, and cooperation in the field of [environmental matters](#). With its quasi-federal structure, the EU has managed to go beyond the rigid distinction between international and national [law](#) that prevails in intergovernmental cooperation [2].

Historically, [legislation](#) concerning water has been some of the most developed and progressive in [European Community law](#). This trend persists, and the most significant and momentous developments are taking place with regard to [aquatic species](#) and [ecosystems](#), and therefore, their principles and assessment methods may eventually be applied to other sectors of [environmental law](#), and to non-aquatic [biodiversity](#) [3]. Therefore, [aquatic ecosystems](#), and water in general, may be perceived as testing grounds for contemporary regulations [3].

In the EU, the current [ecological](#) objective for [surface water](#) is 'good ecological status', established by the [Water Framework Directive](#) [46]. Through this institutionalization of ecosystem-based objectives, community water policy is supposed to become functionally oriented towards [sustainable development](#) (e.g. Articles 1 and 4 emphasize [sustainability](#)) [7,8]. To reach this objective, suitable [legal instruments](#) are needed, and quality standards have been discussed and emphasized as one set of legal instruments with the potential to bring about an improved environmental status [3,911].

For example, quality standards have led to successful reductions of concentrations of [toxic](#) substances in bodies of water, and may be useful for addressing environmental problems related to air and water quality, which are linked to [human health](#) [10,1214]. The establishment of quality standards signified an important change in environmental regulations; for example, they take their point of departure in the conditions of a body of water, are based on the [precautionary principle](#), and are legally manageable. Nonetheless, when trying to manage coupled

# Law Corpus Wikify Function in FLAX

## LAW QMUL

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Climate Justice: A Constitutional Approach to Unify the Lex Specialis Principles of International Climate Law

Original

[wordlist](#) [wikify](#) [adjective](#) [noun](#) [verb](#)

## 2.1 Taxonomy of the lex specialis principles of international climate law

Article 3 UNFCCC principles are indicative of ubiquitous legal values that give expression to the object and purpose of the UNFCCC. As a starting point, attention turns to these principles in order to structure new principles of international climate law or to confound the structure of international climate law or to extrapolate and give meaning to special lex lata principles, which is the object and purpose of the UNFCCC.

### 2.1. Article 3

Article 3

'the Parties

responsibility

Turning from

of human

equity, but

Parties have

### Related topics in Wikipedia

- [Montreal Protocol](#)
- [Kyoto Protocol](#)
- [United Nations Convention to Combat Desertification](#)
- [Clean Development Mechanism](#)
- [Intergovernmental Panel on Climate Change](#)
- [2009 United Nations Climate Change Conference](#)
- [Carbon sink](#)
- [Joint Implementation](#)

of equity and in accordance with their common but differentiated climate change and the adverse effects thereof.'

climate system for the benefit of present and future generations the basis, or foundation, of Article 3 (1). The ideology is one of which met the objective and subjective tests and the Contracting

# Wordlist from OA Articles





























































## LAW QMUL

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academic Words  sort by frequency

legal		380	principle		263	contract		148	creditor		128	bond		107
clause		97	create		86	security		85	investor		82	approach		80
issue		75	policy		74	area		65	framework		65	norm		61
environmental		60	image		59	establish		58	benefit		57	negative		57
technology		57	require		56	percent		48	shift		47	period		47
strategy		47	fundamental		47	significant		47	involve		45	objective		43
fund		42	assessment		42	convention		40	interpretation		40	innovation		39
global		37	specific		37	relevant		35	restructure		34	federal		33
identify		33	restructuring		33	impact		32	process		32	economic		32
financial		32	assume		31	regime		31	variable		30	individual		30
regulation		30	environment		30	data		29	subsidy		29	welfare		29
potential		29	focus		28	status		28	achieve		28	culture		28
analysis		28	constitutional		28	draft		27	grant		27	occur		27
challenge		27	enforcement		27	ensure		26	outcome		26	community		26
adaptation		26	investment		26	appropriate		26	externality		26	code		25
role		25	seek		25	enable		25	energy		25	sector		25
project		25	affect		24	entity		24	function		24	acknowledge		24
site		23	parallel		23	structure		23	impose		22	option		22
element		22	domestic		22	evidence		22	corporate		22	legislation		22

# Collocations from Law Lectures

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## 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 x y z

## 125 collocation(s) associated with the word globalization

**Noun + of (63)** | Verb (24) | Noun (20) | Adjective (18)

- [age of globalization](#) (10)
- [aspect of globalization](#) (5)
- [phase of globalization](#) (5)
- [globalization of sport](#) (4)
- [context of globalization](#) (3)
- [study of globalization](#) (3)
- [effects of globalization](#) (3)
- [boosters of globalization](#) (2)
- [symptom of globalization](#) (2)
- [characteristics of globalization](#) (2)
- [underbelly of globalization](#) (2)
- [feature of globalization](#) (2)
- [logic of globalization](#) (2)
- [history of globalization](#) (2)
- [phase of the globalization](#) (2)





# Linking Collocations in Law-Specific Corpus to Reference Collections in FLAX (BNC, BAWE, Wikipedia)

## Learning Collocations



globalization in standard English (BNC) go

Family words: *globe global globally globalisation*

Synonyms

### used as a noun

noun + of + globalization	process of <b>globalization</b>	2	challenge of <b>globalization</b>	1
	<b>globalization</b> of capital	2	start of this chapter <b>globalization</b>	1
	concept of <b>globalization</b>	1	logic of the <b>globalization</b> thesis	1
	agents of economic <b>globalization</b>	1	<b>globalization</b> of markets	1
	aspect of <b>globalization</b>	1	<b>globalization</b> of Western culture	1
globalization + noun	<b>globalization</b> thesis	2	chapter <b>globalization</b>	1
	politics <b>globalization</b>	1	<b>globalization</b> process	1
adjective + globalization	economic <b>globalization</b>	2	contemporary global politics <b>globalization</b>	1
	simultaneous <b>globalization</b>	1		
verb + preposition + globalization	resulting from <b>globalization</b> has	1	contributing to the <b>globalization</b> of	1
	contributing significantly to <b>globalization</b> concerns	1	linked to economic <b>globalization</b>	1

### related words

globalization	global	trade	culture	economic	globalisation	world	country
cultural	globalized	increase	inequality	goods	labor	movement	nation
export	economy	international	market	anti-globalization	worldwide	policy	exchange
index	food	term	phenomenon	argue	free	emergence	flow
low	worker	result	agreement	poor	political	cost	social

>>>> more

### definitions

# Lexical Bundles from Law Lectures

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

---

- [So I'm going to](#) (22)

[So I'm going to](#) have to shoot ahead here.

[So I'm going to](#) conclude there and just remind you that the electronic exam will be emailed out to you today at five o'clock, that you have forty-eight hours to return it, and return it both to the Classes\*v2 server drop box, but also please return it to your teaching assistants.

[So I'm going to](#) scoot ahead here with one final aspect of this story.

[So I'm going to](#) just pause with reflections on the work of Tyrone Hayes, who is a former chemical company employee, a scientist who worked for Syngenta.

[So I'm going to](#) run out of time in a few minutes.

[So I'm going to](#) skip really quickly now to a variety of different cases.

[So I'm going to](#) move on to discuss several other statutes now.

[So I'm going to](#) jump ahead here to a discussion about evacuation.

[So I'm going to](#) jump ahead here because I'm going to run out of time.

[So I'm going to](#) pause there and just take a couple of minutes for any questions that you've got.

[So I'm going to](#) stop there.

[So I'm going to](#) jump ahead here.

[So I'm going to](#) do my own little survey here.

[So I'm going to](#) try to show a couple film clips here, hopefully this will pick up, on the effects of radiation and fallout.

[So I'm going to](#) close here, and I'm going to just take a little bit of license, and I apologize for this, because you may think of me as being paternal.

[So I'm going to](#) run through just a few summary of findings here before I close today that should give you a sense of what's working and what's not working too well with the LEED program.

# Building Interactivity into FLAX

## Language activities

### 1. Scrambled Sentences

exercises

[create an exercise](#)

The words of sentences are scrambled and students must sort them into their original order.

This activity helps you study sentence structure by providing you with genuine text and allowing you to select suitable materials to practice on.

**Type:** Individual

**Instructions:** Put the bold words in the correct order by drag-drop them into the correct position.

### 2. Word Guessing

exercises

[create an exercise](#)

Students enter words in the gaps, based on the context within a given article, individually or collaboratively.

This activity helps improve your communication skills and vocabulary.

**Type:** Individual or Group collaboration

**Instructions:** Click on the gap and type in a word.

### 3. Completing Collocations

exercises

[create an exercise](#)

Learners fill in a blank to form a valid word combination.

**Type:** Individual

**Instructions:**

### 4. Scrambled Paragraphs

exercises

[create an exercise](#)

The paragraphs of a document are scrambled and students must sort them into their original order.

This activity helps you study paragraph structure by providing you with genuine text and allowing you to select suitable materials to practice on.

**Type:** Individual

**Instructions:** Put the paragraphs in the correct order by drag-drop them into the correct position.

### 5. Punctuation and Capitalization

exercises

[create an exercise](#)

The punctuation of a paragraph is removed and students must insert the missing punctuation.

This activity helps you study the role of punctuation in language.

**Type:** Individual

**Instructions:** Drag and drop punctuations on the top and put them in the right position.

# FLAX Activities Continued

This activity helps you study sentence structure.

**Type:** Individual

**Instructions:** Click a box on the left and then a box on the right to make the correct sentence.

## 7. Collocation Matching [exercises](#) [create an exercise](#)

Select a set of collocations, normally from the same collocation type; split them into left and right parts; and shuffle each set of parts. For example, the secretary of state, course of action, hundreds of dollars might be presented as: the secretary of action hundreds of state course of dollars

Learners must rematch them.

**Type:** Individual

**Instructions:**

## 8. Collocation Dominoes [exercises](#) [create an exercise](#)

This activity mimics the dominoes game: the last word of the previous collocation becomes the first word of the next. Here is an example: bank cheque -- cheque book -- book club -- club sandwich -- sandwich board -- board room ...

Learners are asked to complete collocation dominoes

**Type:** Individual

**Instructions:**

## 9. Related Words [exercises](#) [create an exercise](#)

Pick several related words and some of their associated collocations; remove the words from the collocation text; and shuffle what is left. For example:

pay make

\_\_\_\_\_ bill, \_\_\_\_\_ effort, \_\_\_\_\_ debt, \_\_\_\_\_ difference

Learners are asked to choose the right word to complete a collocation, e.g. pay bill, make effort, pay debt and make difference.

**Type:** Individual

**Instructions:**

## 10. Collocation Guessing [exercises](#) [create an exercise](#)

Choose a target word and a number of associated collocations; remove the target word from the collocation text; and then reveal the remaining text gradually to a learner who must guess the target word. For example, given the following words:

plain, dark, white, bitter, milk, bar of,

# FLAX Do-It-Yourself Podcast Corpora with Oxford OER



## Financial Crisis Lectures

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### 1. Global Recession: How Did it Happen?

Original

wordlist adjective noun preposition verb

01\_crunch-medium-audio



Linda: I'm Linda Yueh, I am a fellow in economics at St. Edmond Hall, University of Oxford. I am an economist and actually also a lawyer by training, but I teach economics at the University.

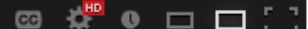
I have a couple of recent books, one of them is 'Macro Economics', an undergraduate textbook, which will soon need to be updated given the events of the past year. And another book which is coming out next year called 'The law and economics of globalization' to look at the ways in which the economy has been changed, in both economic and legal terms, over the last few years.

Jonathan: My name is Jonathan Michie, I am also an economist by training, although I am now director of Oxford University's department for continuing education, which does a range of part-time courses including online courses, and in fact our most popular online course is on the global economy by Doctor Linda Yu. I am also president of Kellogg College. My most recent book is a handbook on globalisation.

Linda: I think 2008 has been a tremendous year in terms of economic developments. One of the things that perhaps we ought to think about is how we got here, in terms of the financial crisis. So we know at some point last year, around last summer, the sub-prime mortgage crisis in the United States really began to take hold. The most obvious manifestation was of course the failure of Northern Rock, which generated the first bank run on a British bank in about a century.

Since then of course, things have only gone from bad to worse. In March of this year we know that the failure of Bear Stearns, which was forcibly sold to JPMorgan Chase, essentially marked the start of the prospect of systemic banking sector failure, and this culminated with the collapse of Lehman Brothers

02:34 / 11:59



<http://www.youtube.com/watch?v=Si24d3Z-8nQ>

# FLAX Do-It-Yourself Podcast Corpora 2: Building interactivity into your collections



<http://www.youtube.com/watch?v=fysDzYjbhh0>

# Developing Podcast Activities in FLAX

Choose article ?	The Global Recession - How Did It Happen? [Part One] ↓
Choose words based on ?	<input type="radio"/> Gap size <input checked="" type="radio"/> Word type
Gap size ?	10 ↓
Word type ?	<ul style="list-style-type: none"><li>Verb</li><li><b>Noun</b></li><li>Adjective</li><li>Adverb</li><li>Preposition</li><li>Determiner</li></ul>
Hint ?	Word list and first letter ↓
Include audio with document? ?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Mode ?	<input checked="" type="radio"/> Individual <input type="radio"/> Group

**Review: 85 gaps in Article**

Words of gaps ?

Description Linda Yueh Jonathan Michie credit **crunch** recession effect banks **businesses** Green New Deal solution **crisis** Linda Linda Yueh fellow **economics** St Edmund Hall University **Oxford** economist lawyer **training** economics **University** couple books **Macro** Economics **undergraduate** textbook **events** year book year law economics **globalization** ways economy **terms** years Jonathan name Jonathan Michie economist **training** director Oxford University department **education** range courses **courses** fact course **economy** Doctor Linda Yueh President Kellogg College book **handbook** globalisation **things** terms **crisis** point year summer **mortgage** **crisis** United States **manifestation** course failure Northern Rock bank **run** bank run century course **things** today terms **crisis** **crisis** banking **sector** credit **crunch** banking **sector** implications mortgages business **lending** individuals companies **challenge** economy downturn Jonathan example Northern Rock building **society** building societies Britain **institutions** people money money houses demutualisation building societies **argument** members building societies **value** years **decades** course banks **consultants** advice deregulation demutualisation build-up credit boom bust Linda end Wall Street equivalent City things **depression** Glass-Steag

## The Global Recession - How Did It Happen? [Part One]

Description: Linda Yueh talks to Jonathan Michie about the credit **crunch** and looming global **recession**, the **effect** it has had on both **banks** and **businesses**, and how a **Green New Deal** may provide a **solution** to the **crisis**.

# Close Exercises in FLAX

Ho

ng, boom, building, businesses, bust, challenge, City, College, companies, consultants, couple, course, course, courses, credit, crisis, crisis  
lirector, economics, economist, economy, education, end, equivalent, events, globalization, Green, handbook, houses, implications, institut  
ge, Oxford, point, range, recession, run, sector, society, States, Street, terms, terms, things, things, things, today, training, training, undergr:

## *How Did It Happen? [Part One]*

Jonathan Michie about the credit <sup>1</sup>crunch and looming global <sup>2</sup>\_\_\_\_\_, the effect it has had on both banks and <sup>3</sup>\_\_\_\_\_, and how a <sup>4</sup>\_\_\_\_\_ Ne

llow in <sup>6</sup>\_\_\_\_\_ at St. Edmund Hall, University of <sup>7</sup>\_\_\_\_\_. I am an <sup>8</sup>\_\_\_\_\_ and actually also a lawyer by <sup>9</sup>\_\_\_\_\_, but I teach economics at t  
<sup>2</sup>\_\_\_\_\_ Economics', an <sup>13</sup>\_\_\_\_\_ textbook, which will soon need to be updated given the <sup>14</sup>\_\_\_\_\_ of the past year. And another book which  
\_\_\_\_\_' to look at the <sup>16</sup>\_\_\_\_\_ in which the economy has been changed, in both economic and legal <sup>17</sup>\_\_\_\_\_, over the last few years.

Michie, I am also an economist by <sup>18</sup>\_\_\_\_\_, although I am now <sup>19</sup>\_\_\_\_\_ of Oxford University's department for continuing <sup>20</sup>\_\_\_\_\_, which d  
\_\_\_\_\_, and in fact our most popular online course is on the global <sup>23</sup>\_\_\_\_\_ by Doctor Linda Yueh. I am also President of Kellogg <sup>24</sup>\_\_\_\_\_. My m




# Scrambled Sentences in FLAX


## Split Sentences


Exercise name:

Select a category:

### Exercise parameters

Choose article 

Number of words in sentence  Min  Max

Max sentences per page 

### Number of sentences available

17

### Review: 17 sentences selected

I am also President | of Kellogg College.

My most recent book | is a handbook on globalisation.

Linda: I think 2008 has been a tremendous year | in terms of economic developments.

Since then of course, things have only gone | from bad to worse.

That roughly brings us to where we are today | in terms of the financial crisis.

# Drag 'n' Drop exercises in FLAX

## it Sentences

[How to play](#) [Summary re](#)

I am also President	<a href="#">to be true, it probably is.</a>
My most recent book	<a href="#">doesn't mean no regulation.</a>
Linda: I think 2008 has been a tremendous year	<a href="#">of Kellogg College.</a>
Since then of course, things have only gone	<a href="#">from bad to worse.</a>
That roughly brings us to where we are today	<a href="#">in terms of economic developments.</a>
And thirdly the government has extended	<a href="#">to them guarantees of lending originating now.</a>
Light touch regulation	<a href="#">is a handbook on globalisation.</a>
It means that if something looks slightly too good	<a href="#">a financial sector problem becomes a real economy problem.</a>
That is the lesson	<a href="#">in terms of the financial crisis.</a>
By doing policy too late,	<a href="#">of the great depression.</a>


Total score: 0 Question No. 1 out

[Check Answer](#) [Previous question](#) [Next que:](#)

# Learning Collocations in FLAX

## Learning Collocations

About Search Browse Activities

 My Cherry Basket




List exercises **Create an exercise**

### Collocation Guessing





Exercise name:

Select a category:

#### Exercise parameters

Target words 	<input type="text" value="arbitration, negotiation, company law, tribunal, regulation, policy"/>
Collocation type 	<input type="text" value="verb + noun (tell the truth)&lt;br/&gt;noun + noun (rain forest)&lt;br/&gt;adjective + noun (heavy rain)&lt;br/&gt;noun + of + noun (slice of bread)"/>
Total number of collocations 	<input type="text" value="20"/>

#### Activity parameters

Display the questions in random order? 	<input type="radio"/> Yes <input type="radio"/> No
Speed 	<input type="text" value="Medium"/>
Display hint(s)? 	<input type="radio"/> Yes <input type="radio"/> No
Select hint type(s) 	<input type="text" value="Number of Letters&lt;br/&gt;First Letter&lt;br/&gt;Last Letter&lt;br/&gt;Word List"/>

# Automated Collocations Guessing in FLAX (drawing on the British National Corpus)

## Collocation Guessing

feature of an arbitration
annulment of the arbitration proceedings
merits of arbitration
conduct of arbitration
competence of the arbitration court
presidency of the arbitration authority
right of arbitration
concept of arbitration
example of an arbitration
number of recognised arbitration agencies
courts of arbitration
offer of arbitration
use of arbitration
arbitration of rents
arbitration of proper action
guarantor of an arbitration
types of arbitration
costs of the arbitration
arbitration of disputes
method of arbitration

How to p

Bricks left: 19

Attempts: 1

- The Community wants to create bureaucratic machinery for joint **arbitration of disputes**.
- Central to all the procedures, indeed to the very mandate of the United Nations is peaceful **arbitration of disputes**.
- The 1990 legislation authorizes the establishment of a stock exchange, sets out the preconditions for its statutes and rules of procedure, provides for its membership and operation, and establishes a system for **arbitration of disputes** between securities traders and between issuers and traders.

score: 20 / 4

Previous qu

# Design-Based Research Cycles with FLAX, the OER Research Hub & Queen Mary

- Practitioners/Researchers involved in iterative development of ESAP language collections
  - Interfacing with open Law resources
    - Open Access articles, Open Government research reports with contributions from QMUL Law professors, Case Law, Open lectures, Openly-licensed student writing
  - Developing expertise with open tools and resources
  - Developing interaction within the corpus and derivatives from the corpus
  - Documenting the collections development process for sharing across the EAP and Open Education sectors

# Free to Do Whatever You Want



- Open Resources for EAP Soup Dragons:
  - Building ESAP Corpora
  - Developing Interactivity into ESAP Corpora
  - Developing ESAP Course Book and Lesson Plan Derivatives
  - Researching and Developing ESAP Corpora & Derivatives
  - Researching and Developing Corpus Tools e.g. Interfaces, Text Augmentation and Linked Data Approaches

# Thank You

FLAX Language Project <http://flax.nzdl.org/greenstone3/flax?a=fp&sa=library>

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