

Seminar 7

Transforming language teaching with corpora – Bridging research and practice

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Outline

- Corpus revolution in language teaching
 - Approaches
 - Teaching and research gap
 - Principles for course design
- 



Corpus revolution?

Transformed language teaching?

- corpus revolution (e.g. Conrad, 2000)
- gradual transformative change in language teaching (Leech, 1997)
- There still seems to be a gap between corpus research and teaching practices using corpora (Chambers, 2019).

Bridging the gap between research and practice





Corpora and language teaching



Main approaches

- (1) corpus-informed language teaching,
- (2) integrated corpus-supported teaching and learning,
- (3) self-directed DDL.



Corpus-informed language teaching

- Researchers and materials writers access corpora directly
- make pedagogical decisions regarding the contents and sequencing of language teaching syllabi and materials based on the results of corpus analysis.

(Römer, 2011)

Corpus-informed language teaching

- great increase since the 1990s

- Indirect use of corpora

description of language

- reference works – dictionaries, grammar books
- e.g. Cobuild, Longman

syllabus design and materials development, evaluation of textbooks

- collocations, lexico-grammar
- E.g. Touchstone (CUP), Grammar and Beyond (Reppen, 2012)

language testing

- e.g. validate tests, generate test items, etc.

learner corpora

- analysis of interlanguage
- ICLE – International Corpus of Learner English

(Jablonkai & Csomay, 2022; McEnery, & Xiao, 2011; Römer, 2011)



Corpus-informed materials design in ESP

➤ **Corpus design and corpus building**

Needs analysis

- a) learner needs are a fundamental element in ESP course and materials design;
- b) subject-specialists can inform the corpus design process about the range and relevance of particular text categories, genres

English EU Discourse corpus

- 1,174,753 running words
- 241 texts published by several EU institutions
- 40 different genres
- whole texts
- balanced for 34 subject fields of EU activities

Jablonkai, 2020



Lexical analysis for ESP pedagogic purposes

- Word list (e.g. Nation, 2016; Coxhead, 2018)
- collocation list (e.g. Green & Lambert, 2018, 2019).
- lexical bundles (e.g. Biber, 2006; Cortes, 2013; Wright, 2019)

Word lists in language teaching

- General Service List of English Words (GSL) (West, 1953)
- analysis of general and specialised corpora resulted in word lists
- Academic Word List (Coxhead, 2000)
- New General Service List (Brezina & Gablasova, 2015)
- New Academic Vocabulary List (AVL) (Gardner & Davies, 2014)
- subject-specific academic word lists analysing textbooks and research articles: **business** (Hsu, 2011; Konstantakis, 2007), **agriculture** (Martínez, Beck, & Panza, 2009), **engineering** (Hsu, 2014; Ward, 2009), **medicine** (Hsu, 2013; Wang et al., 2008; Yang, 2015), **the environment** (Liu & Han, 2015) and **applied linguistics** (Vongpumivitch, Huang, & Chang, 2009).
- Student Engineering Word List (SEWL) 1260 word families
- Chemistry Academic Word List (Valipouri and Nassaji, 2013) of 1400 word families
- Medical Academic Word List (MAWL) of 623 word families

EU Word list

- 405 word families
- legal words: *REGULATE*, *TREATY*
- words in connection with funding: *FUND*, *RESOURCE*
- the main EU institutions: *COMMISSION*, *PARLIAMENT* and *PRESIDENCY*
- Abbreviations: *DG*, *EC*, *OJ*, *SME*
- geographical names, which include all member states and names of two cities: *BRUSSELS* and *LISBON*
- function words such as *PRIOR*, *BEHALF* and *VIA*
- *Specificity*:

Texts	Tokens	Text coverage
EEUD Corpus	1,076,460	14.06%
EU English Corpus	197,620	13.10%
20 th century literary texts	105,578	0.88%
News texts	117,164	4.76%

EU collocation list

CRITERION noun		criteria (n. 370)
BNC Written	EEUD	eligibility (21/11.42)
grammatical relation: object of		
Semantic set 1 <u>meet</u> collocates: <i>satisfy, fulfil, meet, match, fit</i>	Semantic set 1 <u>meet</u> collocates: <i>fulfil, fulfill, meet, satisfy</i>	award (18/11.22)
Semantic set 2 <u>set</u> collocates: <i>formulate, adopt, outline, define, establish</i>	Semantic set 2 <u>set</u> collocates: <i>set, agree, establish, lay</i>	selection (19/11.16)
Semantic set 3 <u>respect</u> collocates: -	Semantic set 3 <u>respect</u> collocates: <i>follow, respect</i>	set (34/10.46)
Semantic set 4 <u>list</u> collocates: <i>list, specify</i>	Semantic set 4 <u>list</u> collocates: <i>list, specify, give</i>	follow (23/9.34)
Semantic set 5 <u>apply</u> collocates: <i>apply, use, employ</i>	Semantic set 5 <u>apply</u> collocates: <i>apply</i>	
Semantic set 6 <u>evaluate</u> collocates: <i>assess, judge, review</i>	Semantic set 6 <u>evaluate</u> collocates: -	
Other collocates: <i>invoke, exemplify, propose, interpret, identify, derive, alter</i>	Other collocates: <i>need, see, base, propose</i>	
Number of preferential semantic sets		
5	5	
Number of identical preferential semantic sets: 4		

Presentation of collocational profile

IMPLEMENT verb	
construction	semantic groups
IMPLEMENT + noun	1. <u>legislation</u> collocates: <i>measure, rule, regulation, provision, directive, legislation, recommendation, decision, convention</i> The Commission shall implement this Regulation in accordance with the Financial Regulation. 2. <u>plans</u> collocates: <i>reform, strategy, programme, project, policy, commitment, budget, plan</i> Many European policies and programmes are implemented at regional and local levels. 3. <u>approach</u> collocates: <i>approach, principle</i> The forthcoming proposal for a new Directive implementing the principle of equal treatment outside employment will be addressed. 4. <u>activity</u> collocates: <i>action, tool, operation</i> By way of derogation from paragraph 1 , in-kind contributions , depreciation costs and overheads may be treated as expenditure paid by beneficiaries in implementing operations under the following conditions:
IMPLEMENT + adverb	1. <u>positive</u> collocates: <i>properly, effectively, fully, successfully, actively</i> The Commission, in its role of guardian of the Treaty, is responsible for ensuring that Community legislation is properly transposed into national law and properly implemented and enforced by national authorities in the Member States. 2. <u>negative</u> <i>not</i> However, Albanian legislation does not yet protect these rights sufficiently and is not fully implemented. Other collocates: <i>systematically, as, directly</i>

Table A1. Extract from the collocational profile of the verb IMPLEMENT

Activity type

Aim: to raise learners' awareness of collocates of particular lexical items

A.1 Instruction: Study the collocational profile of the verb IMPLEMENT
underline the nouns in the table that are likely to be used with it

the accession criteria	function
opinion	the acquis
a reform	measures
the internal market	a directive
legislation	a summit
a timetable	policies
a programme	a debate

Key to Task type A.1:

the accession criteria	function
opinion	the acquis
a reform	measures
the internal market	a directive
legislation	a summit
a timetable	policies
a programme	a debate

Lexical bundles in the EEUD Corpus

- Most frequent ones: *in accordance with the, of the European Union, referred to in article*
- Least frequent ones: *of the internal market, the procedure referred to and within the scope of*
- Lexical bundles are very frequent in the EEUD Corpus – indicates a formulaic language use
- More lexical bundle types than in other registers
- Four-word lexical bundles are frequently part of longer word combinations
 - E.g. *in accordance with the*
 - *in accordance with the principle of proportionality*



Klett

Corpus research findings

3 Collocations

Decide which verbs and nouns can go together. Sometimes the same verb can combine with several nouns and likewise, the same noun may go with more than one verb. Write your solutions in the table below.

Verbs

check • devise • discuss • draft • draw up
enforce • exercise • fulfil • make • manage
make • implement • prepare • represent
serve • take

Nouns

decision • executive • power
initiative • interest • law
policy • responsibility

- What can you both make and take? _____
- What can you draft, devise, check, discuss or draw up? _____
- What can you represent and serve? _____
- What can you manage and implement? _____

possible verb + noun combinations

concordance lists help you
study the words in context

focus on the most important
collocations and word partnerships in
EU English
a data-base of over one million words
of English language EU texts was used
to design the vocabulary tasks in this
book

5 Study the concordance sample for *white paper* and *green paper*.

List the verbs that follow them using the space below. Can you think of other verbs that you could use to talk about how a written document introduces an idea?

1 and freedom of expression, the **White Paper** proposes drawing up a European charter
2 exchanging best practice, the **White Paper** puts forward two options: setting up a
3 public opinion. Lastly, the **White Paper** again underlines the need to 'do the job
4 as part of its review of the 2001 **White Paper** on transport, in the form of a
5 standards for consultation). The **White Paper** aims to involve the media more effectively
6 subscribe to on a voluntary basis. The **White Paper** speaks of 'empowering citizens', by
7 Jacques Delors, published a **White Paper** setting out a timetable for completing the
8 Jacques Delors, published a **White Paper** seeking to abolish, within seven years,
9 monetary claims in Europe. The **Green Paper** describes the problems involved in the
10 conducted on the basis of a **Green Paper** put out in May. The June European Council
11 the publication in March of a **Green Paper** entitled 'Confronting demographic change

Integrated corpus-supported teaching and learning



Origins

- Tim Johns 1990s Classroom concordancing
- Learners as researchers
- Autonomous learning

Theoretical underpinning

- Noticing hypothesis (Schmidt, 1990)
- Discovery learning
- corpus application in language teaching, DDL (Boulton & Cobb, 2017; Johns, 1991)
- corpora enhance learners' language awareness (Chen & Flowerdew, 2018; Römer, 2009), confidence and autonomous learning (Yoon, 2008)



Direct use of corpus data and corpora

to submit, a grant application for this project to a European institution or to another community body?
previously obtained directly or indirectly from a European institution or Community body during the
Financial support obtained directly or indirectly from a European Institution or Community body during the
to submit, a grant application for this project to a European institution or to another community body?
Financial support obtained directly or indirectly from a European Institution or Community body during the
instruments to ensure the rapid development of a European internal market for energy-efficient goods
as a priority matter in the establishment of a European judicial- area. The programme of measures
crew would serve to take account of the objective of a European labour market for cabin crew. Amendment
integrated space science programme and producing a European launcher. The national agencies of certain
numerous technical provisions regarding safety at a European level. These comprise, in addition to
national interests and aims to develop synergies at a European level; - The way cooperation and
of transport. Actions of this kind are innovative at a European level in terms of logistics, equipment,
measures, these lifetimes will be harmonised on a European level. The Commission, assisted by the
initiative to date has stimulated the development of a European-level world-class institution with the aim of
of the codecision procedure. (e) LRIT: Setting-up of a European Long Range Identification and Tracking of
11 (e) LRIT: Setting-up of a European Long Range Identification and Tracking of
and of the Council of 27 June 2002 establishing a European Maritime Safety Agency , and in particular
for a revision of the Regulation establishing a European Maritime Safety Agency and on a
a European Maritime Safety Agency and on a "European Maritime Transport Space without
of the various national market organisations; (c) a European market organisation. 2. The common
for human and veterinary use and establishing a European Medicines Agency already lay down a
competent authorities, the possibility of setting up of a European Medicines Information System for patients
of the Community's external assistance, in particular a European Neighbourhood and Partnership
Year's actions; 7. the establishment of Equinet, a European network of national equality bodies, which
those involving further training, in order to develop a European network which can receive Community
either by an individual European operator or by a European network of national public or private

- **Data-driven learning (DDL)**
- learners discover patterns in language
- concordance lines
- KWIC – key word in context
- teacher-directed or learner-led

(Warren, 2016)

Chain of activities

Research – Practise – Improvisation (Johns, 1991)

Learners

- LOOK at concordance lines of the new vocabulary item and words surrounding it, thinking of meaning
- FAMILIARISE themselves with the patterns of language surrounding the word by referring to the concordances as you complete the tasks
- PRACTISE words without referring to concordances
- CREATE their own piece of writing using the words studied to fulfil particular functions in writing, speaking

(Thurstun & Candlin, 1998)

Activity type LOOK

training programmes, surveys and studies which **were implemented throughout** the EU to contribute to by the Member States and the Commission **when implementing and** operating electronic customs activities performed by the Commission **when implementing and** operating electronic customs should follow the principles of this Declaration **when implementing bilateral** development aid programmes, and procedures concerned will be voluntary; (b) **when implementing the** OMC, special attention will be paid training programmes shall be taken into account **when implementing the** Programme. 4. Member States and the ownership of secondary rights. (50) **When implementing the** provisions of Article 4 of Directive be a primary consideration for Member States **when implementing the** provisions of this Directive that for the operational programme carried out **when implementing the** communication plan; (b) the clarity and legal security for better regulation **when implementing the** directive in order to avoid any together with the Mediterranean partners **when implementing this** Common Strategy, in particular region. Global initiatives may also be financed **when implemented through** a regional or international the formulation of the scientific advice. 82. **Where implementing powers** have been conferred on the resources, also prohibit the completion of acts **which implement contracts** concluded before the entry into concerning restrictive measures against Iran **which implemented the** United Nations Security Council European Community Development Policy, **which implements the** European vision on development set to reinforce cooperation between officials **which implement the** political measures described in this effects in the market, meaning that the market **will implement a** measure automatically without any use increased aid flows more effectively. The EU **will implement and** monitor its commitments on Aid aid to film production. The Hungarian authorities **will implement any** changes that may be required after decision Evaluation by experts The EIB **will implement RSFF** in close collaboration with all major law enforcement services. The Presidencies **will implement the** new Customs Action Plan 2008-2009 Schengen acquis covered by this Part, whether it **will implement this** measure in its national law. If it assistance is justified by the progress made **with implementing a** project, the Commission shall request assistance is justified by the progress made **with implementing an** action, the Commission shall request , the Commission may deem costs directly linked **with implementing the** activity supported to be eligible, supply. There has been some progress **with implementing the** action plan related to the national

of this Regulation and every four years thereafter, **the Commission shall** report to the European Parliament level experts appointed by the Commission. 3. **The Commission shall** have regard to the balance of all denunciations of such conventions, which **the Commission shall** publish in the Official Journal of the contractual obligations to which they are Parties. **The Commission shall** publish the list in the Official that, while selecting the projects to be co-funded, **the Commission shall** have special regard to will therefore investigate this finding further. 23. **The Commission shares** the Court's view that steady calculating minimum requirements. Nevertheless, **the Commission shares** the Court's view that Member into account the low value exports. Nevertheless, **the Commission shares** the Court's view that Member ,” said Commissioner Reding. "On this solid basis, **the Commission should** be able to present a legislative and film industries have expressed the view that **the Commission should** be prepared to take legislative the principle that major policy proposals by **the Commission should** be accompanied by its appraisal no longer includes nationals of all Member States, **the Commission should** pay particular attention to the in relations with all Member States. Accordingly, **the Commission should** liaise closely with all Member States. The Conference also considers that **the Commission should** take all the necessary measures undertakings made in this respect shall be sent to **the Commission should** it so request. ARTICLE II. 4 –

Instruction:

Study the concordance lines and list (words) nouns, verbs, adjective, adverbs used with ‘implement’, ‘commission’

Activity type

FAMILIARISE

Instruction: Compare the use of the word 'commission' in BNC and EEUD

COMMISSION n					
BNC Written			EEUD Corpus		
Grammatical relation	Frequency per million words	Example	Grammatical relation	Frequency per million words	Example
modifier	55.85	<i>Audit Commission, Monopolies and Mergers Commission</i>	object_of	10.42	<i>inform the European Commission be charged a commission of 6%</i>
subject_of	19.52	<i>Royal Commission recommended</i>	possession	10.42	<i>The Commission 's powers of inspection</i>
and/or	15.02	<i>new regulatory commissions and consumer councils</i>	subject_of	10.42	<i>the Commission is, as a rule, exempt from all taxes</i>
object_of	14.06	<i>A Truth Commission was established</i>	modifier	5.95	<i>be provided by the joint Commission, the European Commission</i>
pp_obj_of	11.95	<i>banks may charge a commission</i>	modifies	5.21	<i>Commission approval</i>
pp_obj_by	7.19	<i>President of the Cuban Commission of Human Rights</i>	and/or	3.72	<i>the commission and other charges</i>
modifies	6.11	<i>Special Commission report</i>			
pp_obj_by	6.11	<i>proposed by the European Commission</i>			
pp_on	5.64	<i>the Royal Commission on Pollution</i>			
possession	5.39	<i>The Royal Commission 's proposals</i>			
pp_of	5.24	<i>commission of inquiry</i>			
pp_for	4.28	<i>the Commission for Racial Equality</i>			
pp_obj_to	3.50	<i>submitted evidence to the Royal Commission</i>			

Activity type FAMILIARISE

B.1 Instruction: Study the concordance lines and add an appropriate adverb to the sentences below.

storage, transport and retail sale, will be	implemented	systematically and in a consistent manner
RTD activities. An ethical review will be	implemented	systematically for proposals dealing with
to ensure that Albania can properly	implement	the new public procurement legislation
fight against money laundering if properly	implemented	. Some progress has been made on upgrading
provisions of the agreement are being properly	implemented	. Where the Agency and/or the Commission
laws. (2) For the purposes of effectively	implementing	the relevant provisions of the Amsterdam
The new strategy needs to be effectively	implemented	and monitored. The existing legislation
transposed in a timely manner and effectively	implemented	by Member States. The process of evaluating
capacity building to design and effectively	implement	sound trade and integration policies, as
relationship, the Union will strive to fully	implement	the Joint EU-Africa Strategy as well as
Presidencies will make every effort to fully	implement	the Action Plan on Simplification, for
guarantees on freedom of expression are not yet	implemented	fully, particularly regarding the print
these rights sufficiently and is not fully	implemented	. As regards children's rights, the government
on a business permit system is not fully	implemented	, because, mainly, of the lack of implementing
determined to pursue reforms and to fully	implement	the work programme, in particular by
partner in ensuring that they are successfully	implemented	. This plan will be presented before the
represents a key instrument for successfully	implementing	EPAs, and whereas regional integration

- a. This reform could significantly enhance the fight against money laundering if _____ **implemented**.
- b. Member States are determined to pursue reforms and to _____ **implement** the work programme.
- c. The 2006 law on a business permit system is not _____ **implemented**, because, mainly, of the lack of implementing regulations.
- d. The new strategy needs to be _____ **implemented** and monitored.
- e. In this way, this policy covering all sectors of the food chain will be **implemented** _____ and in a consistent manner.

(Jablonkai, 2011)

Activity type

FAMILIARISE

Aim: to familiarise with frequent collocates of a particular lexical item

groups according to a ranking based on the **above criteria**. The first group shall be composed of five 2007. CTF meetings focused on political **accession criteria** and rule of law issues. Each CTF meeting) and (4)(b) of the Convention by the targeted **activity criterion**, **already** present in Article 15 of the Brussels inspection services. It will be based on **agreed criteria** for the performance of these systems, and , objective and transparent resource **allocation criteria** based on needs and performance will guide explanation of how it had regard to the **allocation criteria established** in accordance with paragraph 2 , considers that a single set of EC aid **allocation criteria** should be targeted at the poorest countries and practices, on the basis of common principles **and criteria**. [17] See: Commission Staff Working and practices, on the basis of common principles **and criteria**. [17] See: Commission Staff Working sectoral targets and measures to meet them; **and - criteria** and provisions to ensure sustainable application A uniform application of the rules **and criteria established** by the Dublin Regulation is progress to respond to the other issues **and criteria** for membership included in the Commission's any other controls and may set out the methods **and criteria** for use in any later evaluation, in particular Directive, but is directly linked to the definition **and criteria** of economic activity under national income tax shall select projects on the basis of the objectives **and criteria** set out in Articles 1, 3 and 4 and in Annexes I 6 of this Article, while respecting the objectives **and criteria** set out in Articles 1, 3 and 4. 10. The for Community funding in relation to the objectives **and criteria** set out in Articles 1, 3 and 4. Member States the Commission in this field should be increased **and criteria** should be established which allow the interests. Direct tendering has been abolished **and criteria** to identify abnormally low bids have been out the Millennium Development Goals (MDGs) **as criteria established** jointly by the international and energy savings as a possible **assessment criterion** in competitive tendering for public contracts. projects will be assessed against the following **award criteria**: 1) Compliance with the objectives of the call FINANCIAL CAPACITY 13 7.3. AUDIT 13 8. **AWARD CRITERIA** 14 8.1. EUROPEAN DIMENSION OF THE Authority. See Appendix 2, Form I.4. 4. **AWARD CRITERIA** 4.1. Generalities Proposals will be It will verify the eligibility, the selection and the **award criteria** and propose to the LIFE+ Committee a list of to each proposal on the basis of the following 7 **award criteria** applicable to all three branches of LIFE+

C1. missing word: _____

shall be based on objective and _____ criteria , including those listed in Annex III, taking programmes. 2.2 Objective and _____ criteria for resource allocation 64. Within global objective and _____ resource allocation criteria based on needs and performance will guide consistent basis and in line with _____ criteria , as part of integrated impact assessments must be granted on the basis of _____ criteria applied in a non-discriminatory way to be selected on the basis of _____ criteria . Information provided by the UN Task Force

C2. missing word: _____

work programme, to check the _____ criteria and any other additional conditions that your proposal eligible? The _____ criteria are given in the work programme. See also consortium. Have any additional _____ criteria been set for this call? Check that you that your proposal meets the _____ criteria that apply to this call and funding scheme measures which fall within the _____ criteria and main scope of, or receive assistance applications that fulfil the _____ criteria will be considered for a grant. If an application financial requirements, such as _____ criteria and financial capacity, with regard to SELECTION CRITERIA The following _____ criteria define the scope of the call and apply

C3. missing word: _____

situation in Albania in terms of the political criteria for _____ ; - analysis the situation in Albania on the basis of the economic criteria for _____ ; - reviews Albania's capacity progress to respond to the other issues and criteria for _____ included in the Commission

C4. missing word: _____

no longer _____ the regional eligibility criteria of the Convergence objective and which by LIFE+ if they _____ the eligibility criteria set out in Article 3: (a) operational activities eligible provided that they _____ the criteria set out in the previous paragraph

Key to Task type C: 1. transparent, 2. eligibility, 3. membership, 4. satisfy, meet

(Jablonkai, 2011)

Concordance lines of multi-word sequences

is a crucial factor to achieve out by Member States should add safety framework, which can deliver The Union shall endeavour to ensure animal feed production, establish	a high level of a high level of a high level of a high level of a high level of	social cohesion. The Community will credibility to the annual accounts of public health and consumer security through measures to prevent consumer health protection and
Member State concerned, it may be decided, established in an implementing Regulation of the financial contribution may be approved, abovementioned period may be extended, an implementing Regulation may specify, and the Commission are in agreement.	in accordance with the in accordance with the in accordance with the in accordance with the In accordance with the	same procedure, that the Community financial procedure laid down in Article 18. 6. In the same procedure, depending on the outcome of same procedure, if examination of the procedure laid down in Article 18, cases in procedure laid down in Article 18, this
may not be made out more than 14 days before shall not cover expenditure incurred before obligations that were concluded or arose before tasks may under no circumstances begin before may implementation commence before obligations that were concluded or arose before	the date on which the date on which the date on which the date on which the date on which the date on which	the plants, plant products or other objects leave the Commission received the application. those accounts became subject to restrictive the specific contract enters into force. I.2.3 the Contract enters into force. Execution of the those accounts became subject to restrictive

Activity type LOOK

Aim: to identify patterns of use of particular lexical bundles

Instruction: Study the concordance lines containing the lexical bundle *in accordance with the*. Notice the words and phrases that precede and follow this lexical bundle. Can you identify patterns? What are possible positions of this lexical bundle in a sentence?

Activity type FAMILIARISE

Aim: to practise identifying the function of lexical bundles in EU documents

Instruction: Study the concordance lines of the lexical bundles and identify what they make reference to. Choose from the list below:

Time, Place, Purpose, Quality, Reference to another document

E1) Reference to: _____

COUNCIL OF THE EUROPEAN UNION, Union and in particular Article 15 thereof, COUNCIL OF THE EUROPEAN UNION, regard to Rule 45 of its Rules of Procedure, – of the Diversity of Cultural Expressions, – the Diversity of Cultural Expressions, 2005,	having regard to the having regard to the having regard to the having regard to the having regard to the having regard to the	Treaty on the European Union and in conclusions of the European Councils Treaty on European Union and in particular report of the Committee on Culture and Commission communication on a European Council conclusions of 13 and 14 November
--	--	--

E2) Reference to: _____

may not be made out more than 14 days before shall not cover expenditure incurred before obligations that were concluded or arose before tasks may under no circumstances begin before may implementation commence before obligations that were concluded or arose before	the date on which the date on which the date on which the date on which the date on which the date on which	the plants, plant products or other objects leave the Commission received the application. those accounts became subject to restrictive the specific contract enters into force. I.2.3 the Contract enters into force. Execution of the those accounts became subject to restrictive
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E3) Reference to: _____

is a crucial factor to achieve out by Member States should add safety framework, which can deliver The Union shall endeavour to ensure animal feed production, establish	a high level of a high level of a high level of a high level of a high level of	social cohesion. The Community will credibility to the annual accounts of public health and consumer security through measures to prevent consumer health protection and
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Self-directed DDL and DIY corpora

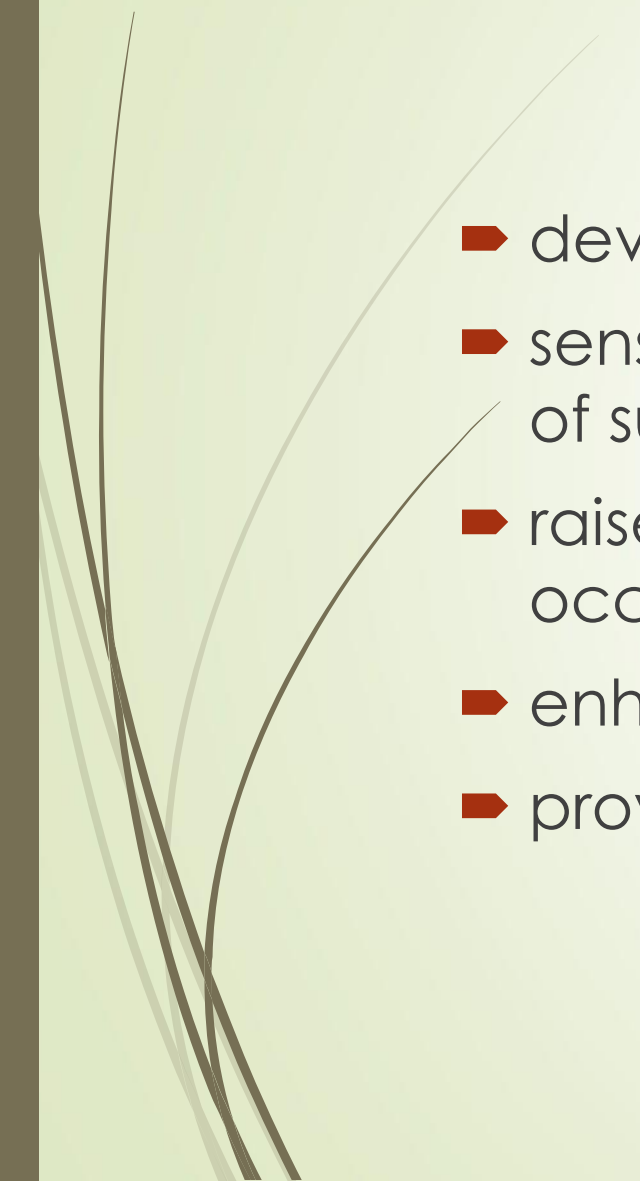
- corpus as a tool of self-directed learning, **DIY corpora with PhD students** (Charles, 2012; 2014)
- corpus-based EAP course, attitude to corpus use - anxiety, large general corpora – BNC, COCA (Leńko-Szymańska, 2014; Lee & Swales, 2006; Yoon & Hirvela, 2004)
- **corpus approach for English for various specialisms (ESP) at undergraduate level** (Ackerley, 2017; Flowerdew, 2002)
- **do-it-yourself (DIY) corpora** as discipline-specific models for future professions (Hyland, 2017; Charles, 2017; Frankenberg-Garcia, 2015)
- DDL courses apply direct corpus use & CALL technology (Hubbard, 2013; Friginal 2018)

Course outline

	Corpus Topic	Aspect of EU Discourse
1	Definition of a corpus, types of corpora	English EU Discourse Corpus
2	Online available English corpora (e.g. BNC, COCA, BAWE)	EU topics
3	• Online corpora and corpus analysis tools 1 • Mark Davies's COCA, BNC • Frequency lists	EU institutions
4	• Online corpora and corpus analysis tools 2 • Sketch Engine (Kilgarriff, Baisa, Bušta, Jakubíček, Kovář, Michelfeit, Rychlý, Suchomel, 2014) • POS tag and lemma list	Most frequent nouns, verbs and adjectives in general corpora and EU topic corpora
5	• Designing and creating a corpus • Using WebBootCat (Kilgarriff et al., 2014) to create a subject-specific corpus	Criteria for text selection for an EU topic corpus
6	• AntConc (Anthony, 2014) • Keywords, keyword analysis	EU keywords
7	Concordancing	usage of words in EU texts
8	• Collocations • Semantic preference and prosody	General and EU-specific collocations
9	Clusters and lexical bundles	lexical bundles in EU discourse
10	• Range (Heatley, Nation, & Coxhead, 2002) • Text coverage	EU word list



Core aims of the corpus-based ESP course

- ▶ develop students' language skills for their future professions
 - ▶ sensitize students to variation in lexico-grammatical features of subject-specific language use
 - ▶ raise awareness of the formulaic quality of naturally occurring language
 - ▶ enhance autonomous language learning
 - ▶ provide a tool for students' long-term professional use
- 

Course outline

<i>Corpus Topics</i>	<i>Lab practice</i>
<i>Module 1: Core Concepts</i>	
Language corpora	on-line dictionaries vs corpus data
Collocations	on-line corpora in English and Slovene
Wordlists	frequency data, Academic Wordlist
Concordances	formulating queries
<i>Module 2: Corpus Compilation</i>	
DIY ESP corpora	purpose, type and size
Genres and registers	selecting documents
Harmonisation	corpus structure
Corpus consultation	pre-compiled corpora
<i>Module 3: Corpus Analysis</i>	
Corpus analysis tools	AntConc, SketchEngine
Corpus research	concordance manipulation
Analysing corpus output	word sketches, keyness
ESP terminology	BootCat: key words list, multi-word expressions
Corpus expansion	WebBootcat
<i>Module 4: Autonomous Corpus Use</i>	
Practicing corpus skills	Writing and translating
Presentations	Presentations of students' projects

BootCat corpus building tool

➡ <https://bootcat.dipintra.it/>

BootCaT

Simple Utilities to Bootstrap Corpora And Terms from the Web

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QUICK START

How to build your first corpus in no time:

- [download](#) and install the BootCaT frontend
- follow the [online tutorial](#)

INTRODUCTION



Analysis of students' essays

- In order to investigate students' reflections on the benefits and challenges of their corpus use, the reflection and conclusion sections of the written reports was compiled into a small corpus of 2587 running words (Keyword Tool on the SketchEngine platform)
- The following categories emerged from the analysis of the concordance lines of the identified keywords:
 - Advantages of using a language corpus
 - Affordances of corpus tools and resources
 - Enhanced language awareness
 - Understanding the limitations of DIY corpora
 - Future plans to use language corpora

Understanding the limitations of DIY corpora

However, students also realized the limitations and problems of corpus-based investigation of language. 44% of students pointed out such disadvantages by using keywords such as *important*, *text*, *collocation*, *corpus* to express these concepts. Some point out that “we should be careful when collecting a **corpus**” and “select relevant **texts**” (S2), but also that “a too small **corpus** [will not] give accurate information” (S6).



Future plans to use language corpora

While all the students expressed their positive perception of corpus consultation, only 33% of them hinted at their future plans to engage in autonomous corpus use. The keywords used to express such plans were *academic, corpus, vocabulary, language, new, study* and *use*. One student planned that “In the future I would like to focus on compiling an **academic corpus**, [...] in order to expand my **academic vocabulary** and [...] as an aid for translation studies” (S8). Another claimed that “**studying a corpus** or compiling a new one will move us step by step to a better knowledge and **use of language**” (S5).

Summary of findings

Findings suggest that students considered this approach useful.

- engagement with corpus compilation seemed to help undergraduate students develop a deeper understanding of corpus structure, potential scopes of investigation and interpretation of output of corpora in general (also Google Translate)
- most importantly, help them achieve a deeper understanding of how language works, i.e., how we make meaning through language.



Aspects to reconsider

- ▶ the required minimum size of DIY corpora should be increased to at least 50,000 running words in order to yield relevant data.
- ▶ the tasks for exploration of various lexico-grammatical aspects of language should also include comparisons based on online corpora in students' L1.
- ▶ such an approach may especially help enhance undergraduate students' language awareness. (the concept of collocation in L1 and L2)



Challenges of DDL

- Learners might find it technically challenging
- Time-consuming
- Learners might feel overwhelmed by the amount of data
- Better suited for learners with proficiency from an intermediate level (BUT lower level learners benefit as well) (Boulton, 2009)
- Scaffolding exercises, guidance from the teacher
- Gradually introducing DDL and direct corpus consultation
- technology in language learning – computer-anxiety (Ortega, 1997; Sullivan & Pratt, 1996)
- [...] computer anxiety is a concept-specific anxiety because it is a feeling that is associated with a person's interaction with computers (Kira & Saade, 2006, p. 32).

Corpus anxiety Phase 2

	Mean
I feel confident using a corpus.	4
I feel calm when asked to search a corpus.	3.8
I become nervous when asked to use a corpus.	2.78
I get nervous when searching a corpus.	2.85
I feel anxious as I use a corpus.	2.5
I worry that I am not able to do well when using a corpus.	3.14
I worry that my computer skills are not good enough to complete corpus searches.	2.28
Overall, I feel comfortable using a corpus.	3.9
I am anxious that the other students in class do better than I when we are using a corpus.	2.5



Tentative principles of designing DDL-based language teaching

(Jablonkai & Cebon, 2020)

- 
1. introduce students to basic concepts of corpus linguistics (Leńko-Szymańska, 2017).
 2. include components that focus on technical skills
 3. include both direct and indirect corpus use , guided, scaffolded corpus consultation (Ackerley, 2017; Yoon & Jo, 2014; O'Keefe & Farr, 2003)
 4. Allow sufficient time and repetition for hands-on corpus querying in class (Leńko-Szymańska, 2014)

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5. include compiling and analysing a DIY corpus (Charles, 2012; 2014)
 6. Promote autonomous corpus use outside of the classroom (Charles, 2012; Lee & Swales, 2006; Jablonkai & Čebren, 2017)
 7. Contextualise the demonstration of corpus resources and tools (Charles, 2018; Poole, 2016)
 8. include components of reflection (Rogers, 2001; Schön, 1987)



Contextualisation

- Materials should be pedagogically relevant and effective (Ackerley, 2017, p.195)
- what is taught should make sense to learners and be useful and adaptable to their interests and levels (Granger and Meunier, 2008, p. 250)



Reflection task with learners

- ▶ Corpora are good for ...
- ▶ Corpora are good for language learning, because ...
- ▶ Corpora are challenging to use, because ...
- ▶ Corpora are not good for language learning, because ...

Normalisation of DDL as CALL

Lessons from CALL and TEL

- “the stage when the technology becomes invisible, embedded in everyday practice and hence normalised” (Bax, 2003: 23)
- impeding factors for normalisation, that is, (a) logistics; (b) stakeholders’ conceptions, knowledge and abilities; (c) syllabus and software integration; and (d) training, development and support. (Chambers & Bax; 2006; Pérez-Paredes, 2019)

Models of integration and acceptance of technology

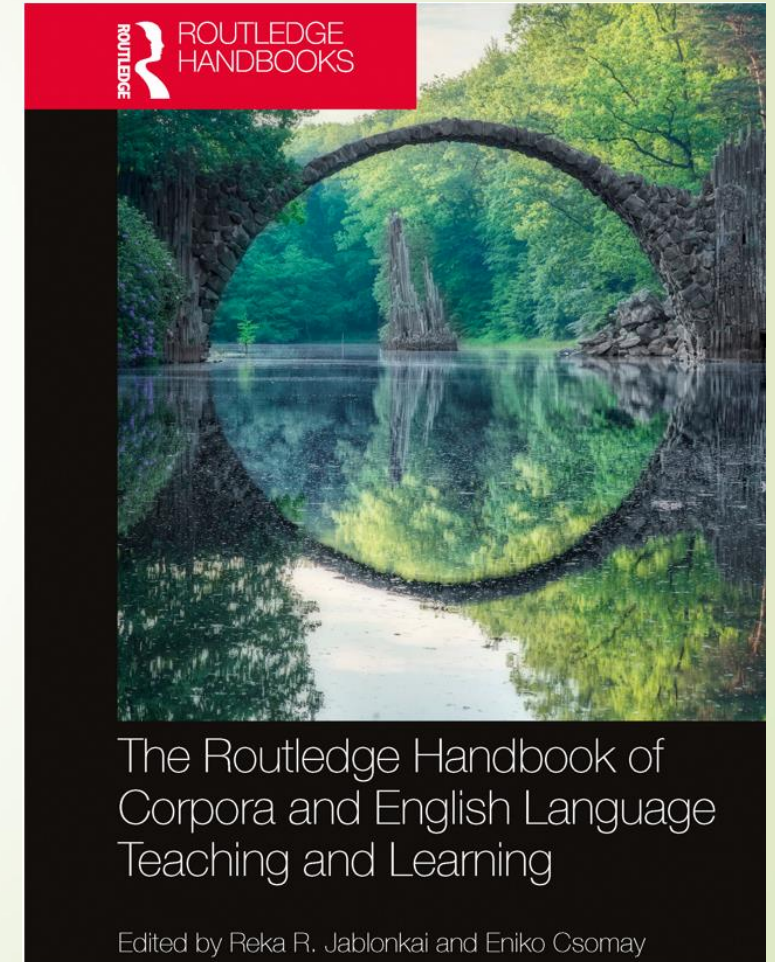
- TPACK (Crosthwaite et al., 2021)
- Technology Acceptance Model (Davies, 1998; Jablonkai, 2019)
- Learner training (Hubbard 2013)
- Usability evaluation of educational software, e.g. Nielsen (1995) (Hendry & Sheepy, 2022)

Future directions to help us cross the research-practice bridge

- Learning-driven and teaching-oriented corpora are needed
- Corpus analysis tools need to be more user-friendly
- Pedagogic approaches to integrate of corpus data and resources with overall teaching objectives
- Research on sociocultural and/or cognitive mechanisms of corpus applications, corpus consultation



Thank you for your attention!



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