







living in some squalor; the other exhibitions were IN houses, old shops, small factory spaces, offices a might be described as 'wet' or 'dry' (W or D) and IN a humid temperate climate such as Britain experie e powerful message put across by the curriculum IN most schools is that knowledge can be divided into ot like the trouble we had half an hour ago, when IN fact there were three lines, sections of which there apportunities for oral READING arise naturally IN the course of the day; for instance, in the activity of traditional hand-made CONCORDANCES IN several ways. One is that they will be much more ched Milan. 'How old were you when you arrived' IN Italy?' The American journalist broke into his though of Modern Art, keen in discerning what was good IN THE arts of many ages and styles. As for working, who felt it necessary to take aside both captains IN the 21<sup>ST</sup> minute and warn them about each tean mation has undergone several media revolutions IN the last CENTURY. In principle, now that operange to some extent the ownership of the biggest hits IN each year), the aggregate market share of the five focus from arts education in general, to one area IN particular, namely English lessons and the fictional of the horse was, shall I say dreamed up, erm and IN fact we had one or two horses, Clydesdale horses faded woods. It was merely that he never wanted IN a tournament round to risk anything which might up the strength of the surface of the strength of the strength of the less of the strength of the horse was, shall I say dreamed up, erm and IN fact we had one or two horses, Clydesdale horses faded woods. It was merely that he never wanted IN a tournament round to risk anything which might up the surface of the surfac

### **Reading Concordances:**

a training course in key corpus linguistics methodology EESSLI 2025 | 4 - 8 Aug 2025

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Reading Concordances in the 21st Century (RC21) project team
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### What we have learned so far

- Concordances collect occurrences of a node for "vertical reading"
- Help (corpus) linguists to identify recurrent patterns
- It is not always easy to spot patterns in concordances of 'non-famous' examples

### Recap: Theoretical foundations

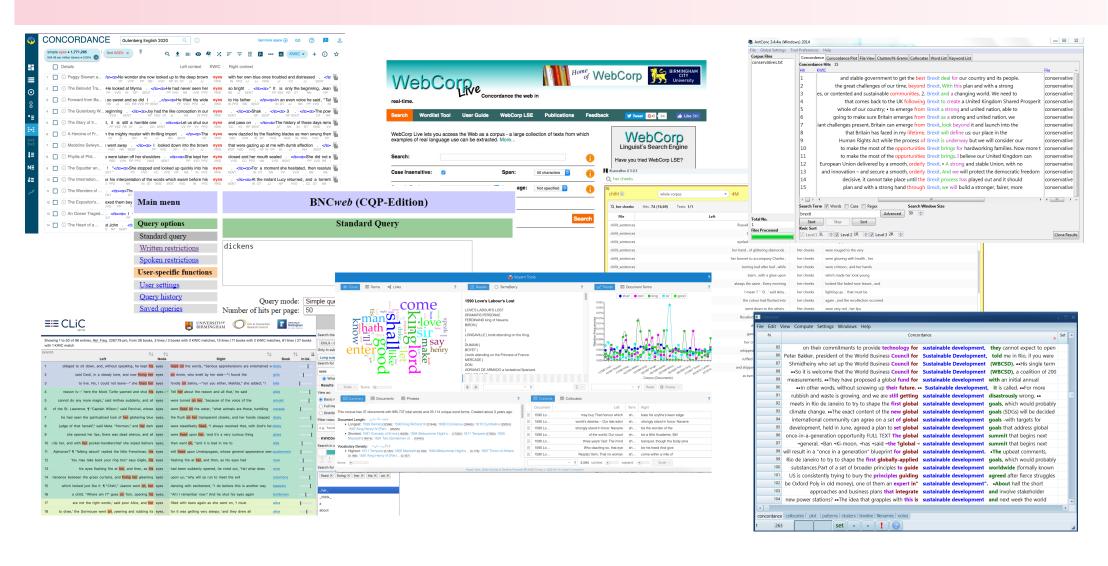
- Lexicogrammatical level:
  - Lexical item
  - Patterns (as in Pattern Grammar)
- Textual level
  - Local textual functions
  - Lexical Priming (Hoey 2005)

### Methodology: a reading procedure (Sinclair 2003)

	Step	Summary			
$\rightarrow$	1. Initiate	Decide on the strongest patterns to the left or right of the node (e.g.,			
		recurring words, word forms, or parts of speech.)			
	2. Interpret	Find a hypothesis that links (most of) the repeated words. The link co			
		be lexical, semantic, or syntactic.			
	3. Consolidate	Look for further evidence to support the hypothesis (e.g., simi			
		meanings expressed in different ways, words in more distant positions.)			
	4. Report	Write out an explicit, testable version for the future.			
	5. Recycle	Repeat steps 1-4 with the next most important pattern. Continue until			
		you cannot find any more repeated patterns. Classify the remaining lines			
as either unusual		as either unusual or a potential pattern that is rare in this set of lines.			
,	6. Result	Make a list of final hypotheses.			
,	7. Repeat	Repeat with a new sample to confirm, extend, or revise your hypotheses.			

5 Aug 2025 | © RC21 Team Reading concordances

# Methodology: concordancing software



### Concordancing tools

- Are created for different purposes
- Follow different traditions (cf. yesterday's origin stories)
- Use different terminology (cf. concordance vs contexts)
- Combine functionalities (key words, n-grams, etc.)
- Can be web-based or standalone
- Come with corpora
- Are continuously developed
- Provide user support

## Concordancing tools: CQPweb

Your query "[word="what"%c & !lbound(s)] "a"%c [pos="JJ.\*"]+ "night"%c" returned 18 matches in 15 different texts (in 98,511,777 words [9,802 texts]; frequency: 0.18 instances per million words)

[4.616 seconds]

 	<b>~</b>	>>	>	Show Page: 1	Line View	Show in random order	New query \$ Go!
------	----------	----	---	--------------	-----------	----------------------	------------------

No	Filename	Solution 1 to 18 Page 1 / 1					
1	film 1944 the climax	My dearJarmila ,	what a great night	for you .			
2	film 1956 the rainmaker	oes crazy on a hot night , and maybe that 's	what a hot night	is for .			
3	film 1962 experiment in terror	Wow,	what a miserable night	_			
4	film 1966 frankie and johnny	tee that you 'll have a ball Come one and all	What a great night	you 've got in store You 'll wanna keep comi			
5	film 1966 frankie and johnny	e Hey, everyone, let 's go on with the show	What a great night	you 've got in store I 'll bet you 'll wanna kee			
6	film 1970 julius caesar	I am glad on `t.	What a fearful night	is this!			
7	film 1970 the aristocats	Oh , dear ,	what a terrible night				
8	film 1973 robin hood	it 's gone Love goes on and on $\ensuremath{Oh}$ , Robin ,	what a beautiful night	-			
9	film_1985_weird_science	Crimson morning skyline Whoa oh	What a weird night	, huh ?			
10	film 1989 dead bang	It 's a wonder	what a good night	's sleep will do for you .			
44	film 1000 granting 0 the new hotels	Mhan thay think it is access and ass	what a placeplant	it is they ill proster in the labby			

### CQPweb: A hands-on example

- Goal: Understand this [→] guy's rhetoric, terminology, phraseology and topics
- We need a large collection of texts written by Trump, e.g. the Trump Twitter Archive [www.thetrumparchive.com]
- Step 1: Compile a linguistic corpus
- Step 2: Upload to indexing & search engine
- Step 3: Analyse through concordance reading



### CQPweb: A hands-on example

- CQPweb server @ FAU: <u>https://corpora.linguistik.uni-erlangen.de/cqpweb/</u>
- Login: student1 ... student15 | password: ••••••





## Simple search



## Concordance (kwic = key word in context)

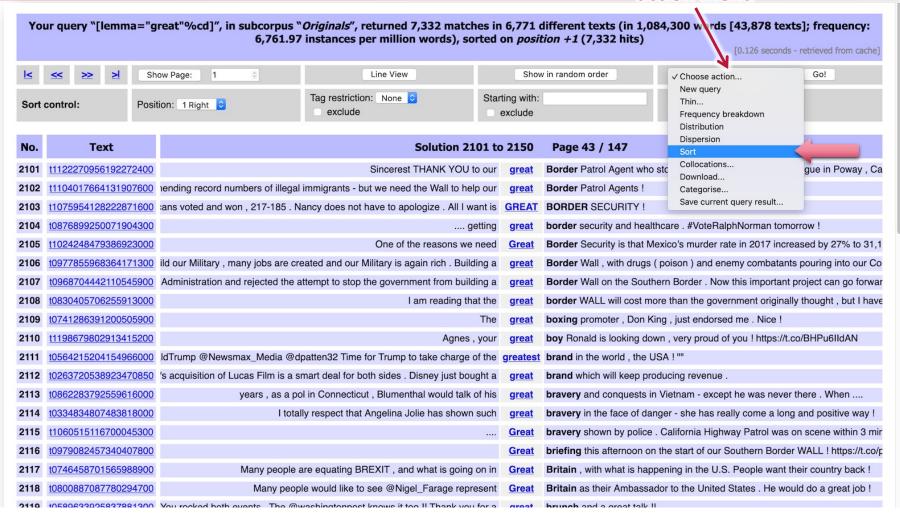


# Extended context display with formatting



## Sorted concordance: great

### action menu

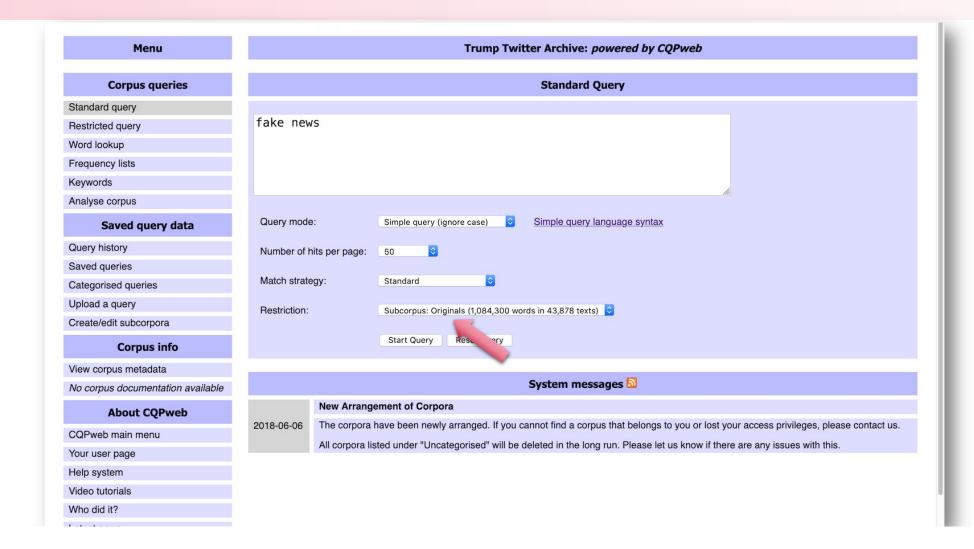


# Frequency breakdown: fake

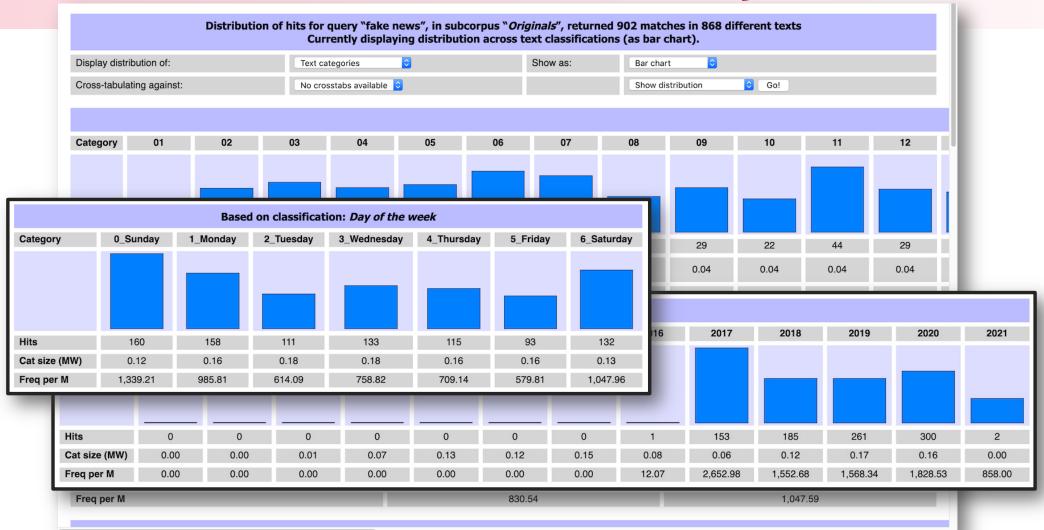
full process history

Query "{fake}", in subcorpus "Originals", returned 1,194 matches in 1,117 different texts (in 1,084,300 words [43,878 texts]; frequency: 1,101.17 instances per million words)							
Showing frequency breakdown of words in this query, at position 1 to the Right; there are 104 different types and 1,194 tokens at this concordance position.  [0.006 seconds - retrieved from cache]							
l<	<< ≥ Breako	down position: 1 Right 🔾	Frequency breakdown of words only	<b>○</b> Go!			
No.	Query result		No. of occurrences		Percent		
1	<u>NEWS</u>		902		75.54%		
2	апи		24		2.01%		
3	<u>Dossier</u>		21		1.76%		
4	<u>media</u>		19		1.59%		
5	<u>&amp;</u>		17		1.42%		
6	,		15		1.26%		
7	<u>!</u>		9		0.75%		
8	).		9		0.75%		
9	Polls		7		0.59%		
10	reporting		7		0.59%		
11	Story		7		0.59%		
12	Whistleblower		7		0.59%		
13	Suppression		6		0.5%		
14	±		5		0.42%		
15	<u>ballots</u>		5		0.42%		
16	(		4		0.34%		
17	IIII		3		0.25%		
18	@NBCNews		3		0.25%		
19	<u>ad</u>		3		0.25%		

### Time for a closer look: fake news



## Distribution across metadata categories



### Collocation analysis key parameters **Collocation controls** Collocation based on: Statistic: Log-likelihood Collocation window from: 5 to the Left Collocation window to: 5 to the Right Freq(node, collocate) at least: Freq(collocate) at least: Filter results by: specific collocate: and/or tag: V Submit changed parameters Go! Extra information: Log-likelihood (LL) scores collocations by significance: the higher the score, the more evidence you have that the association is not due to chance. More frequent words tend to get higher loglikelihood scores, because there is more evidence for such words. There are 1,497 different lemmas in the collocation database for this query (Query "fake news", in subcorpus "Originals", returned 902 matches in 868 different click for examples Total no. in this subcorpus Expected collocate frequency Observed collocate freque No. Lemma 615 5.116 39 92.712 report 1.298 156 18 18 63.171 cover 176 1.464 17 17 53.748 refuse 296.929 423 49.536 35,694 249 doesn't Choose settings for proximity-based collocations: mention 129 Include Exclude 1.987 Include annotation: POS-disambiguated lemma Include Exclude 677 Part of speech Include Exclude +/- 5 refer 52 Maximum window span:

23.933

Create collocation database

14.898

10

11

12

hate

242

548

2.877

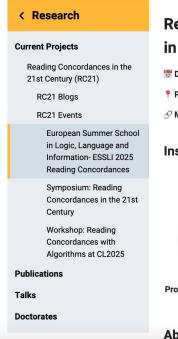
### **CQPweb** exercise

- Activate corpus ParlSpeech UK
  - corpus of debates of the UK parliament 1988–2019
  - Rauh, C. & Schwalbach, J. (2020). The ParlSpeech V2 data set: Full-text corpora of 6.3 million parliamentary speeches in the key legislative chambers of nine representative democracies. <a href="https://doi.org/10.7910/DVN/L4OAKN">https://doi.org/10.7910/DVN/L4OAKN</a>
  - ~ 2 M turns with a total of ~ 400 M tokens
- Concordance analysis for query: water and sanitation
  - what recurrent patterns can you identify?
  - can you find evidence for larger units of meaning?

# https://www.dhss.phil.fau.eu/research/current-projects/reading-concordances-in-the-21st-century-rc21/rc21-events/esslli-2025-reading-concordances/

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European Summer School in Logic, Language and Information- ESSLI 2025 Reading Concordances



### Reading Concordances: A Training Course in Key Corpus Linguistics Methodology

- 7 Dates: 4-8 August 2025, 9:00-11:00 AM
- Part of: ESSLLI 2025 (Week 2)

### Instructors







Mahlberg

Abstract

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Department ▼ Peopl

cordance reading strategies, such as selecting, sorting, and grouping con ing computational algorithms. Participants will gain hands-on experience dance analysis to be released in autumn 2024, and other concordance to potential of concordance reading for their own research contexts.

### Materials

Day 1: ESSLLI\_Day1

### This Course Aims to:

- 1. Introduce the fundamental concepts of reading concordances and w
- O. Finalain the assessed attacked on a calculum and assessment on