

Doing corpus linguistics with #LancsBox

In these tasks, we will become familiar with some of the functions of #LancsBox by investigating features of modern-day British English using the BNC2014 Baby+.

Tasks 1 - 2 will focus on practicing different types of **searches** using the KWIC tool.

Tasks 3 - 5 will introduce how to create and change the settings of **collocation graphs** using the GraphColl tool.

Tasks 6 - 7 will introduce how to **create a web corpus automatically** (a brand-new feature for #LancsBox v.6).

There are also **optional tasks** you can try during or after the practical session.

We will be using the **British National Corpus 2014 Baby+ edition**; this corpus is a four-million-word balanced subset of the BNC2014. Further details can be found here: <http://corpora.lancs.ac.uk/lancsbox/docs/pdf/BNC2014Baby.pdf>

T **Task 1. Searches.** Go to the KWIC tool in #LancsBox and search for the following expressions in the BNC2014 Baby (provided with #LancsBox). Note down their frequencies and distributions in texts.

Type of search	Search term	Occurrences (per 10k)	Number of texts
Simple	tea		
Simple	weather		
Phrase	mug of tea		
Wildcard	rain*		
Smart Search	DOWNTONER		
Regex	/mate friend/		
Regex	nick [as headword] V* [as POS]		

Optional task: You are researching how ‘hailnames’ (informal forms of address) are used in British English. How might you build one query to search for *pal*, *mate* and *buddy* simultaneously? What are some issues you might face?

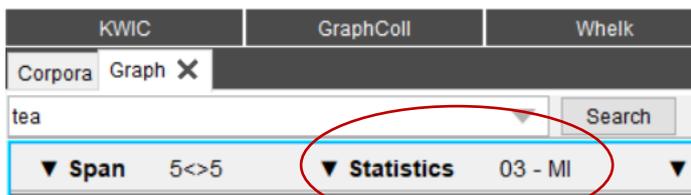
T **Task 2. Applying filters.** Still in the KWIC tool, search for the following expressions and apply filters. Note down their frequencies and distribution in texts.

Search term	Filter	Occurrences (per 10k)	Number of texts
tea	make [anywhere LEFT]		
fish	chips [in R2 position]		

T **Task 3. Create a collocation graph and change settings.** Go to the GraphColl tool, follow the directions and note down the frequencies.

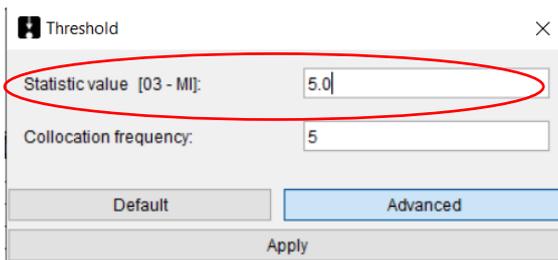
- Build a collocation graph by conducting a simple search for *tea*. What results did you get?
- Change the statistical association measure to MI score. This will delete the current graph. Search for *tea* again to create a new graph.

#LancsBox 6.0



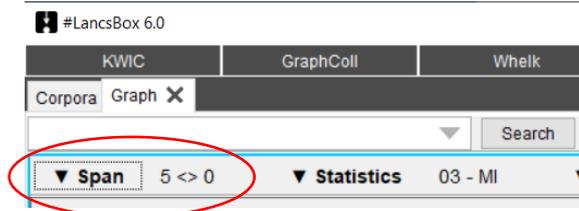
How has the graph changed?

(c) Open the threshold settings and change the statistic value to 5.0 (3 and higher is considered strong for the MI score equation). Search for *tea* again.



How has the graph changed now?

(d) Change the window span to search for five words to the left and zero words to the right (5L, 0R). Search for *tea* again, keeping the same settings from the last steps.



How many collocates are there now?

Optional task: You are researching what collocations British English speakers use when talking about **the weather**. How might you start this study using GraphColl? What settings would you consider changing, and why? Why might you use a narrower or wider collocation window?



Task 4. Combining GraphColl and KWIC view to explore collocation context. To help interpret graphs, GraphColl offers a concordance function, which displays examples of collocate use (KWIC). To display the concordance lines of a given collocation, **right click** on the collocate in the table or in the graph. These concordance lines can be expanded into the full-screen KWIC view by clicking on three arrows (▲▲▲) at the top right. In the top panel, the full-screen view displays examples of the selected collocate co-occurring with the node; in the bottom panel, all collocates are displayed.

- (c) Comment on the connection between the collocates. Feel free to explore the network further by clicking on any of the collocates.

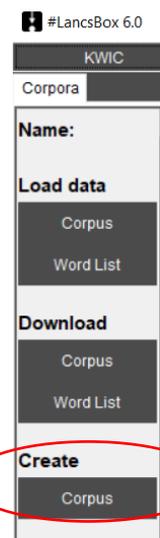
Optional task: You want to investigate both collocates *cup* and *cups*. To do this, change the unit setting from type to lemma.



How does the graph change? Explore further by changing the span, statistics or threshold settings as you like.

T Task 6. Create a web corpus automatically. #LancsBox v.6 offers a new feature, which allows automatic download of texts from the web.

- (a) Locate your initial (seed) website that includes the landing page about your chosen topic.
- (b) On 'Corpora' tab, click on 'Corpus' under create (see image)
- (c) Paste the URL into the URL box and click on 'Create corpus'
- (d) Wait for the process to finish – by default #LancsBox is downloading and converting into text 100 websites at 2 levels of embedding – and explore the log and the folder with the data. Click 'OK'.
- (e) Click on 'Import' to import and automatically POS-tag your corpus.



T Task 7. Explore and search your corpus using #LancsBox.

- (a) Explore the size of your corpus and note it down:

Tokens (running words):	
Types (different words):	
Lemmas (headword + POS category):	

- (b) Explore your corpus using relevant search terms:

Search term	Occurrences (per 10k)	Number of texts