

GraphColl

Task 1

**Finding collocates** 

In this task, you will practice finding collocates and interpreting interpreting collocation statistics. Go to the GraphColl tool in #LancsBox X, select the BNC2014 corpus, and search for the expressions in the table below. Note down top collocates according to different association measures and the colloction frequency.

t collocates according to	by clicking on	this column. A triangle in	dicates that this column		
orted. For identifying the mos	st frequent collocates use	the following column Fre	q. (collocation) 🔻		
		Freq. (collo Freq. (c	corp Log Di 🍸 🛛 MI		
Secret term	Top log Dice	op log Dice Top MI collocate			
Search term	collocate		collocate		
alcohol	consumption	polyvinyl	consumption		
sex	allegations	tantric	with		
	alcohol	non-steroidal	or		
[hw="drug" pos="N.*"]	aloonor				

## **Collocation graph**

A collocation graph shows the relationship between a node, which is in the middle of the graph, and its collocates, which are displayed around the node. The closer the collocate is to the node, the stronger the association. The position of the collocates indicates the position in the text, before or after the node, while the size of the collocate reflects the frequency of co-occurrence. Finally, the colour indicates the frequency of the word anywhere in the corpus on the scale from blue (small) to red (large).



### Task 2 Interpreting collocation graphs

This task demonstrates how corpus data can be used to identify and visualise important associations in language and discourse. You will be using BNC2014.

What associations can you think of when you see the word 'alcohol'? Write down at least five.

#### Now check your answers using corpus data:

2a

2b In GraphColl, search for alcohol and create a collocation graph using log Dice as an association measure (default setting). How many of the associations listed under 2a appear in the graph? Which ones are these?

(e.g. consumption, smoking, tobacco, alcohol, drugs, drinking, intake, drug, abuse, misuse etc.)

#### 2c Now change the unit setting from 'word (lowercase)' to 'lemma'. How did this change the graph?

Labels are added to show the POS for each lemma. Terms such as 'drink', 'abuse' and 'ban'

now appear as separate items in the graph and table.



Apply filter \_N to the collocate column to modify graph that you have created in 2c. This means that only lemmas, which are nouns will be shown. Sort the table according to 'Freq (collocation)'. What are the five most frequent nouns (concepts) associated with alcohol? How often do they occur with 'alcohol'?

Hover your mouse o	ver the 'Colocate' and click on the filter icon 🔽. Type in '_N' and
k on the checked box	icon ☑. Finally, click on the Apply to all ▼ button.
	Collocate 💙 Distribution Freq. (collocation) 🔻

# Task 3 Creating and interpreting collocation networks

In this t substance [hw="drug	ask, y use ar " po:	ou will create collocation networks nd abuse. In GraphColl, use the B s="N.*"].	s that show association and o NC2014 and search first for a	cross associations related to alcohol and then for				
3a	Fill in the table below.							
		Search term	Collocate candidates	Collocates matching statistical criteria				
		alcohol	<mark>5,861</mark>	<mark>91</mark>				
		[hw="drug" pos="N.*"]	<mark>12,727</mark>	144				
collocat	es ma	tching given statistical criteria (94) <b>Q word</b>	Hits: 14,408 (140.83) Texts:	5,611/88,171 Collocates: 15,221				
<b>3</b> b	Exa to s occ 19 leg	Examine shared collocates first in the graph and then in an overview table (click at the <sup>i</sup> icon to see the overview table.) How many shared collocates there are? In what contexts do they occur? 19 shared collocates. Terms related to consumption (drink, smoke), legality/distribution (illicit, sell), specific drugs (alcohol, cannabis, booze,						
_	COC	aine), addiction (abuse, use, addi	ction, misuse, problem, reduc	:e).				
3c	Int rel inc	Interpret the findings from the perspective of corpus-based discourse analysis. What discourses related to alcohol and drug use and abuse have you identified in the BNC2014? What does this indicate about the British society and culture?						
	<mark>Th</mark>	The terms appear to focus on drug and alcohol abuse. This indicates is a core issue						
-	discussed in this context. A range of drugs collocate with both terms frequently including alcohol,							
	ca	cannabis, and cocaine, suggesting that issues with drug abuse is not limited to one drug type.						
	<mark>Th</mark>	The fact that these terms occur in British discourse may show that these issues are						
	ac	acknowledged and discussed to some degree.						