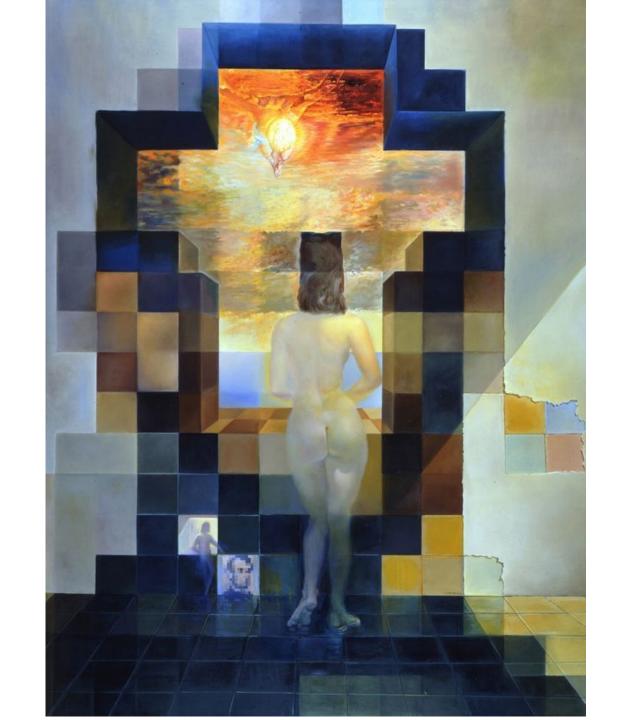
Learner Corpora and Phraseology

Phil Durrant









Two challenges in learner corpus research

- Challenge of quantification
- Challenge of interpretation

The challenge of quantification

Summarizing collocation use with numbers

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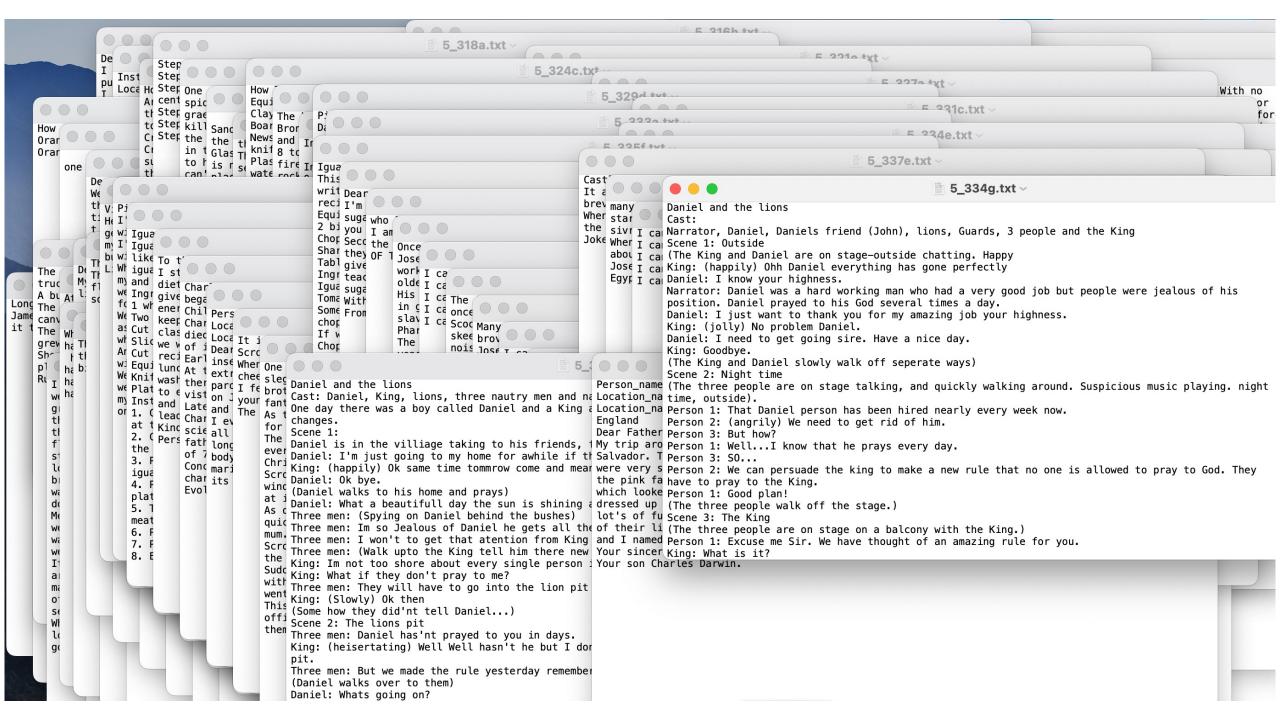
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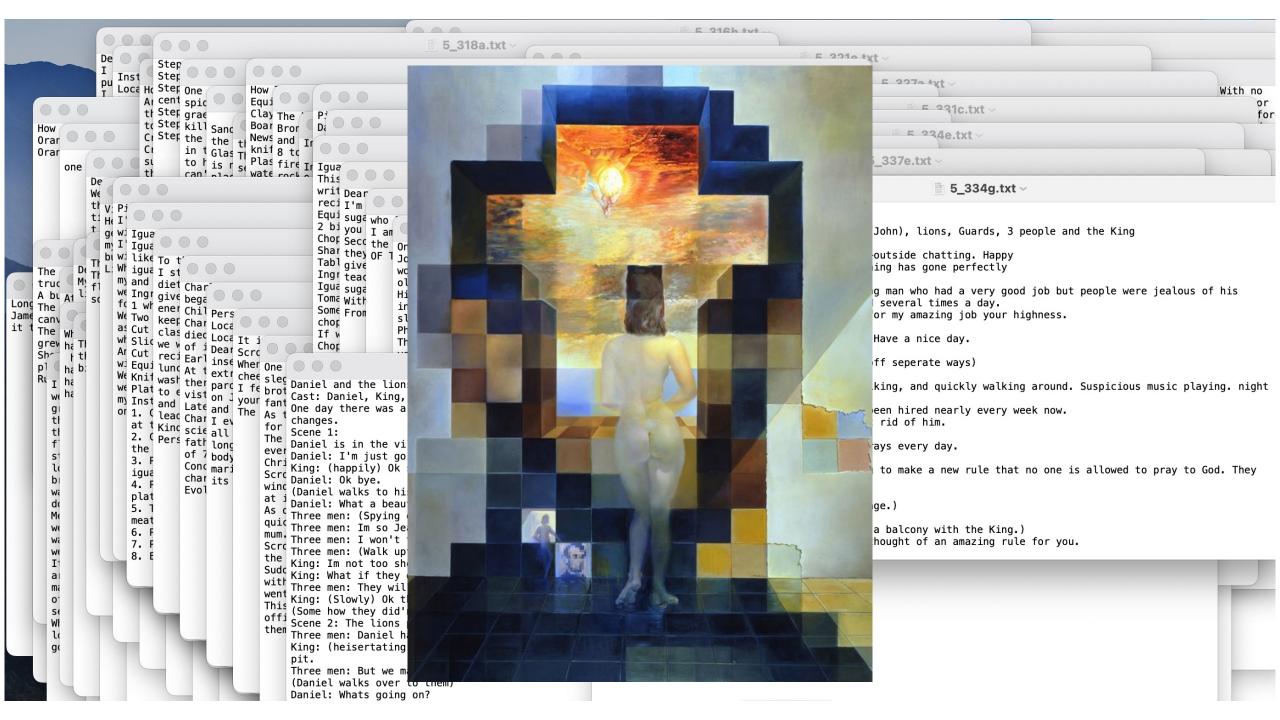
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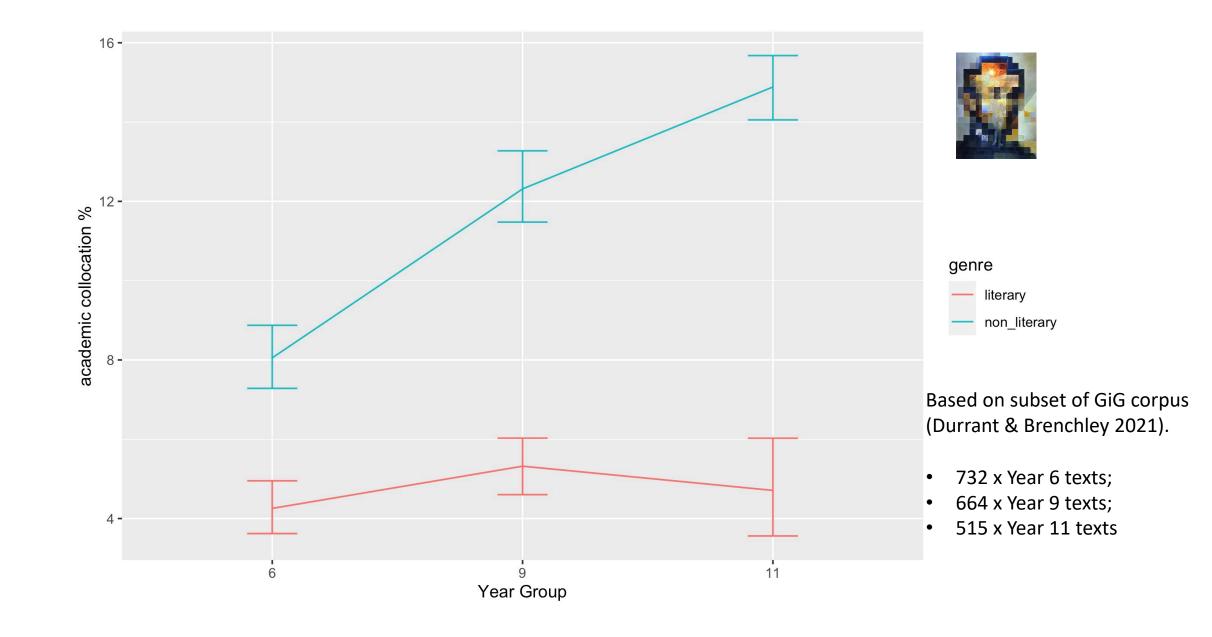
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Summarizing collocation use with numbers

What we're trying to do...

- Simplify our data so that we can see broader patterns
- Without distorting the picture

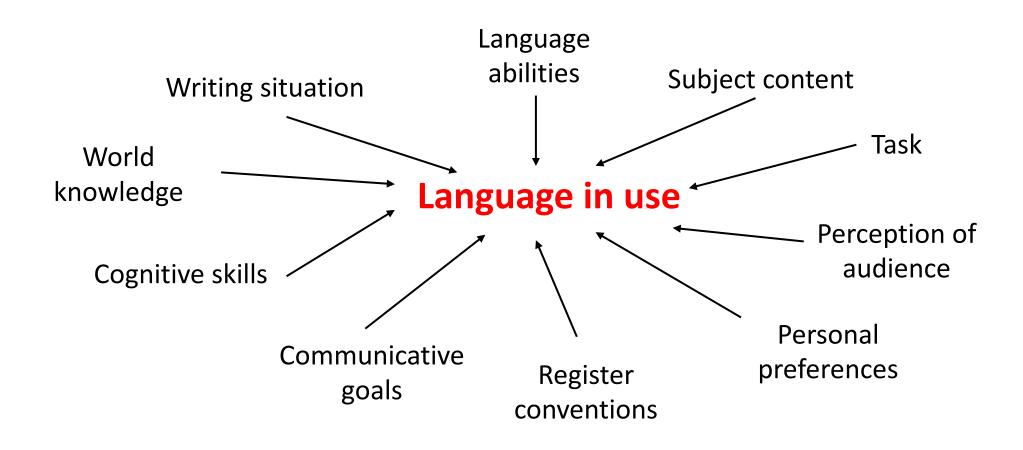
The problem of interpretation

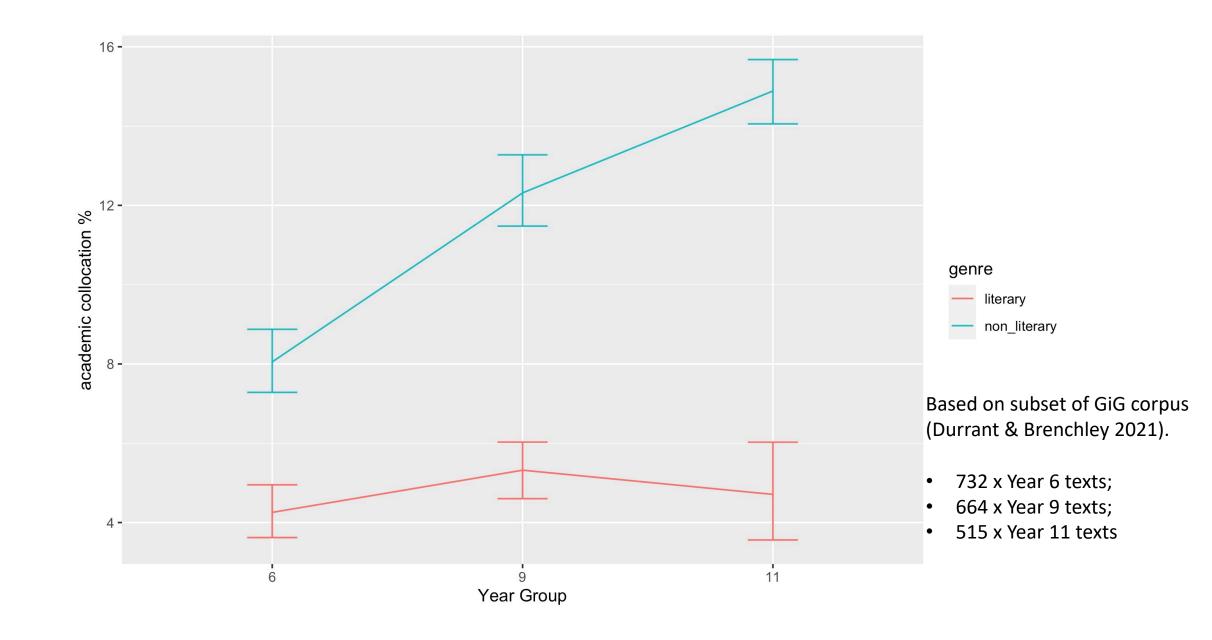
Figuring out what the numbers mean

Language in use

Language abilities

Language in use





An example...

Adjective – Noun combinations in L1 school writing

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Person name

	А	В
1	w1	w2
2	valuablejj	experiencenn
3	negativejj	lightnn
4	fantasticjj	opportunitynn
5	smalljj	amountnn
6	brighterjj	futurenn
7		
Ω		

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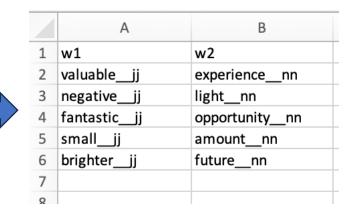
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	Α	В	С	D	E	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	valuablejj	experiencenn	2	316	2413	4.19616526
3	negativejj	lightnn	7	1626	1190	4.66005573
4	fantasticjj	opportunitynn	2	39	1365	8.03647076
5	smalljj	amountnn	109	2511	2359	7.00673652
6	brighterjj	futurenn	3	9	975	11.2223373
7						

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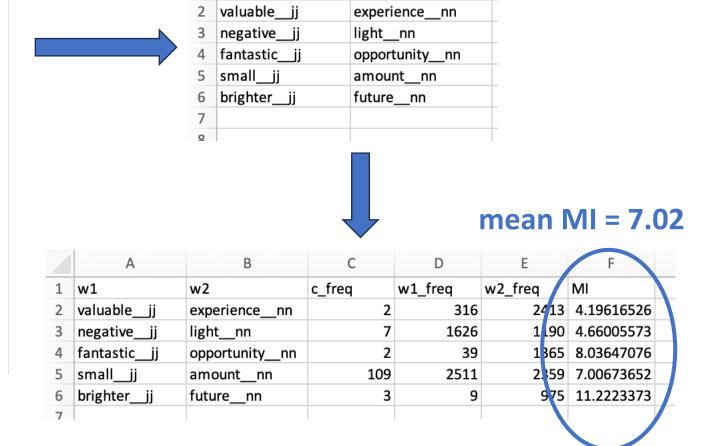
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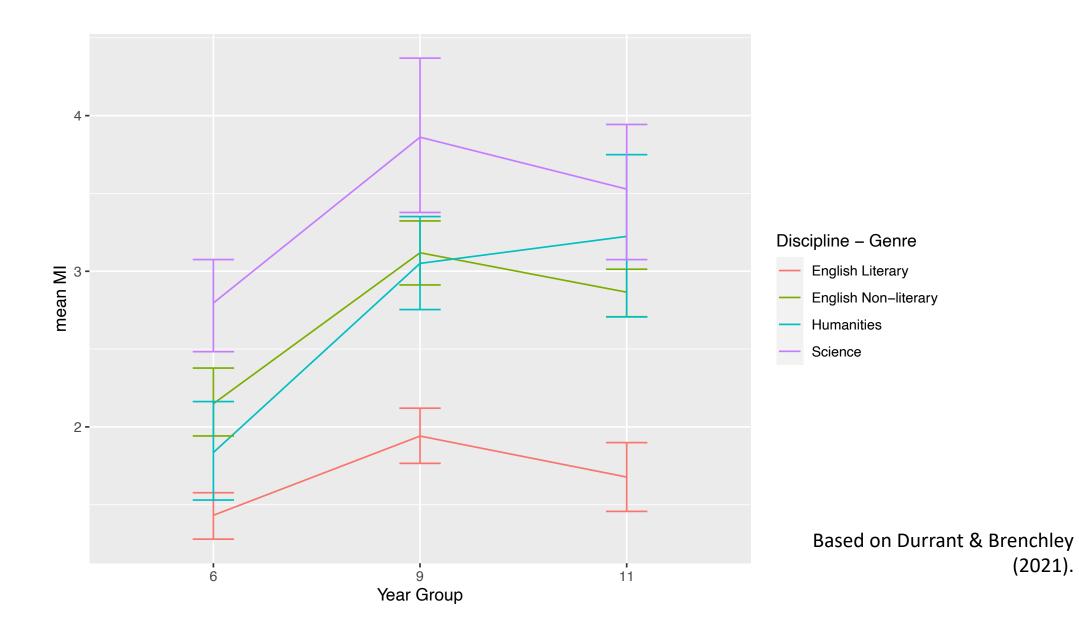
w2

В

Α

w1

	Α	В	С	D	Е
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3	1_2	11	english	non_literary	7.024353116
4	1_3	11	english	non_literary	4.027946785
5	1_4	11	english	non_literary	5.342293113
6	1_5	11	english	non_literary	4.816651842
7	10_529	9	english	literary	7.057898207
8	10_531	9	english	literary	6.892575688
9	10_532	9	english	literary	6.127655821
10	10_533	9	english	literary	4.004099044
11	10_534	9	english	literary	9.454590348
12	10_535	9	english	literary	5.430912657



The problem of low-frequency items

combination	combination freq	word 1 freq	word 2 freq	MI
chalmerian zombie	1	1	1	22.74
flamboyant rambling	1	1	1	22.74
padded dashboard	2	3	9	18.98
itinerant kidnapper	3	5	5	19.68

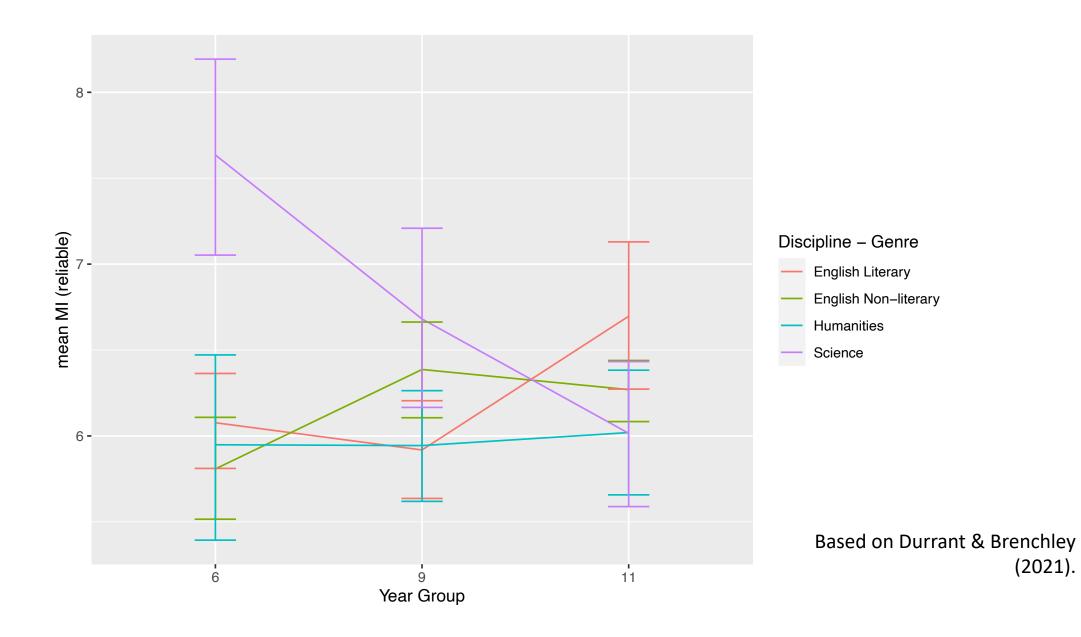
Excluding low-frequency items

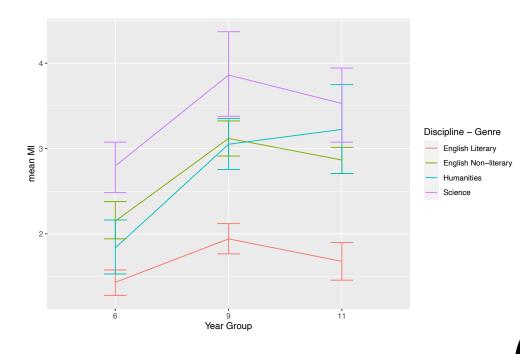
	A	В	С	D	E	F
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7						

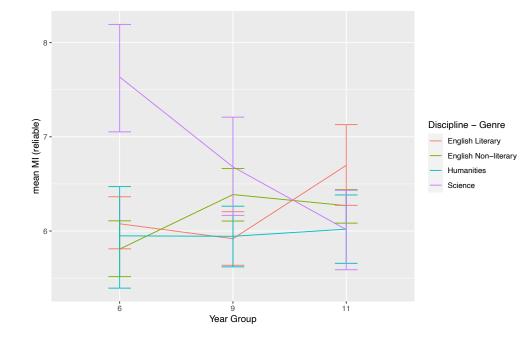
Excluding low-frequency items

mean MI = 5.83

	А	В	С	D	E		
1	w1	w2	c_freq	w1_freq	w2_freq	MI	
Z	vaiuabiejj	experiencenn	Ž	310	2413	4.19010520	
3	negativejj	lightnn	7	1626	1190	4.66005573	
4	fantastic ji	opportunitynn	2	39		8.03647076	
5	smalljj	amountnn	109	2511	23.59	7.00673652	T
6	briabtor ii	future	2	0	075		
7	origine:	racarcnn			370	11.2223373	







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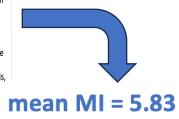
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q MI						
2413 4.190.	10220					
1190 4.6600	05573	Α	В	С	D	Е
1255 0.026	17076 1	file_names	year_group	discipline	genre	reliable_MI
1505 0.050	2	1_1	11	english	non_literary	6.98439359
2359 7.0067	73652 ₃	1_2	11	english	non_literary	5.83339613
975 11.22	23373 4	1_3	11	english	non_literary	4.29908268
	5	1_4	11	english	non_literary	6.06919011
	6	1_5	11	english	non_lite	F 2722F062
	7	10_529	9	english	literary	
	8	10_531	9	english	literary	
	9	10_532	9	english	literary	
	10	10_533	9	english	literary	
	11	10_534	9	english	literary 🖁 7.	
	12	10_535	9	english	literary 💆	

dis_genre english literary

Year Group

english non_literary humanities non_literary science non_literary

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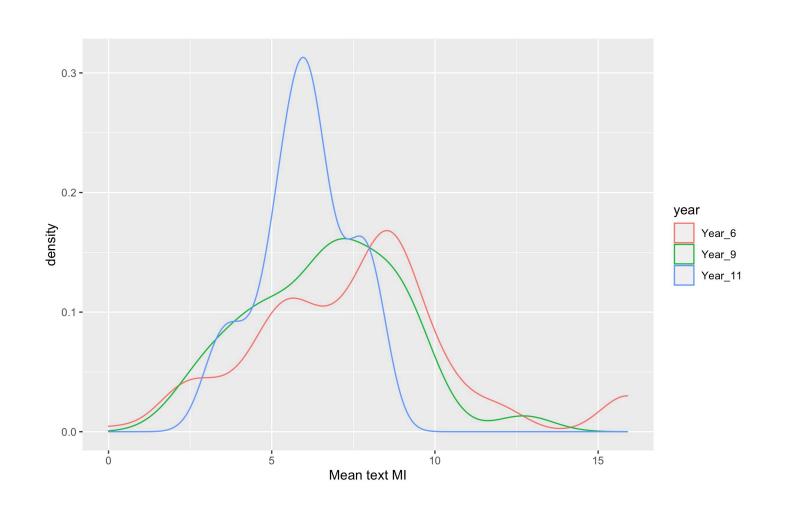


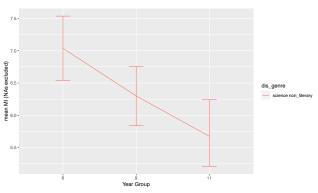
1 /	IVII		_					
241/3	4.19010520	1						
1190	4.66005573		А	В	С	D	Е	
1265	0.02647076	1	file_names	year_group	discipline	genre	reliable	e_MI
1333	0.030 17070	2	1_1	11	english	non_literary	6.9843	359
2359	7.00673652	3	1_2	11	english	non_literary	5.833	9613
975	11.2223373	4	1_3	11	english	non_literary	4.299	8268
		5	1_4	11	english	non_literary	6.069	9011
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		8	10_531	9	english	literary		
		9	10_532	9	english	literary		
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		11	10_534	9	english	literary E		_
		12	10_535	9	english			
						an		

Year Group

dis_genre english literary english non_literary humanities non_literary science non_literary

Getting behind the mean in Science





3 6_442d 6 science non_literary 15.8994559 4 6_445h 6 science non_literary 15.8994559 5 6_446i 6 science non_literary 15.8994559 6 6_447j 6 science non_literary 15.8994559 7 6_450j 6 science non_literary 15.8994559 8 6_454i 6 science non_literary 15.8994559 9 6_461g 6 science non_literary 15.8994559 10 6_339f 6 science non_literary 12.0248912 11 6_445f 6 science non_literary 12.0248912 12 6_446f 6 science non_literary 12.0248912	Z	А	В	С	D	E
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5 6_446i 6 science non_literary 15.8994559 6 6_447j 6 science non_literary 15.8994559 7 6_450j 6 science non_literary 15.8994559 8 6_454i 6 science non_literary 15.8994559 9 6_461g 6 science non_literary 15.8994559 10 6_339f 6 science non_literary 12.0248912 11 6_445f 6 science non_literary 12.0248912 12 6_446f 6 science non_literary 12.0248912	3	6_442d	6	science	non_literary	15.8994559
6 6_447j 6 science non_literary 15.8994559 7 6_450j 6 science non_literary 15.8994559 8 6_454i 6 science non_literary 15.8994559 9 6_461g 6 science non_literary 15.8994559 10 6_339f 6 science non_literary 12.0248912 11 6_445f 6 science non_literary 12.0248912 12 6_446f 6 science non_literary 12.0248912	4	6_445h	6	science	non_literary	15.8994559
7 6_450j 6 science non_literary 15.8994559 8 6_454i 6 science non_literary 15.8994559 9 6_461g 6 science non_literary 15.8994559 10 6_339f 6 science non_literary 12.0248912 11 6_445f 6 science non_literary 12.0248912 12 6_446f 6 science non_literary 12.0248912	5	6_446i	6	science	non_literary	15.8994559
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11 6_445f 6 science non_literary 12.0248912 12 6_446f 6 science non_literary 12.0248912	9	6_461g	6	science	non_literary	15.8994559
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	11	6_445f	6	science	non_literary	12.0248912
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_	13	6_447h	6	science	non_literary	12.0248912

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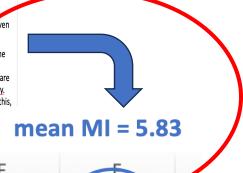
Yes, although the trip is unfair to the students in England who have to continue their school fork, would the trip not change their perspective on education? It is rightly stated that children in Jamaica, alue their education even though they are impoverished. This will enable the "tearaways" to see what opportunities are offered in the UK and because this isn't a holiday, they will be forced to see they are was ng an oppurtunity. They are continuing their studies in Jamaica, which further supports Person name's stat ment. As well as this, the trip will provide valuable experience which helps in getting these misunderstood tee lagers to respect their authority.

Moreover, the article portrays the charity in a **negative light**. These children are likely to need support and advice, which is what the Direct Trust offers. <u>Surely</u> we can't deny teenagers that right? This isn't oming fi tax <u>navers'</u> money either, it is entirely fund-raised. These trips are what the money is used for. As is natity stated, these pupils are close to exclusion; the Divert Trust works to get these pupils back into education. well understood, these students are misunderstood, which leads to them needing attention that they may receive from their families.

I hope your readers remember that travel broadens the mind, and that trips like these have been proven t work in the past. When these teenagers return, they will have realised the **fantastic oppurtunities** that thi country offers, and £5000 is a **small amount** compared to allowing these people a **brighter future**.

Yours faithfully,

Person_name



2133	1.13010320
1190	4.66005573
1200	0.02647076
1303	0.030-77070
2359	7.00673652
075	11 222222
2,6	11.2223373

10 531

10_532

10 10_533

11 10_534

12 10_535

8

9

IVII

	А	В	С	D	E
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3	1_2	11	english	non_literary	5.83339613
4	1_3	11	english	non_literary	4.29908268
5	1_4	11	english	non_literary	6.06919011
6	1_5	11	english	non_lite	F 3733F063
7	10_529	9	english	literary	

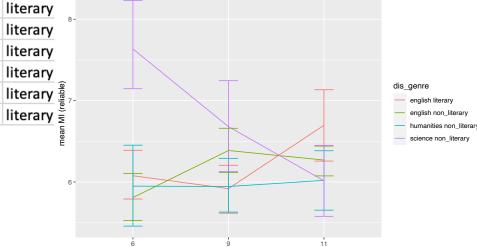
9 english

9 english

9 english

9 english

9 english



Year Group

6_339h

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2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	antibacterialjj	gelnn	NA	NA	NA	NA
5	soilyjj	fingernn	NA	NA	NA	NA
6	unwashedjj	fingernn	NA	NA	NA	NA
7	antibacterialjj	gelnn	NA	NA	NA	NA
0						

6_339h

\mathbb{Z}	А	В	С	D	Е	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	antibacterialjj	gelnn	NA	NA	NA	NA
5	soilyjj	fingernn	NA	NA	NA	NA
6	unwashedjj	fingernn	NA	NA	NA	NA
7	antibacterialjj	gelnn	NA	NA	NA	NA
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6_442d

	А	В	С	D	Е	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	unwashedjj	fingernn	NA	NA	NA	NA
5	antibacterialjj	gelnn	NA	NA	NA	NA
6						

6_339h

/	Α	В	С	D	Е	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	antibacterialjj	gelnn	NA	NA	NA	NA
5	soilyjj	fingernn	NA	NA	NA	NA
6	unwashedjj	fingernn	NA	NA	NA	NA
7	antibacterialjj	gelnn	NA	NA	NA	NA
0						

6_442d

	А	В	С	D	Е	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	unwashedjj	fingernn	NA	NA	NA	NA
5	antibacterialjj	gelnn	NA	NA	NA	NA
6						

6_445h

	А	В	С	D	Е	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	unwashedjj	fingernn	NA	NA	NA	NA
5	cleanjj	fingernn	NA	NA	NA	NA
6	dirtyjj	fingernn	NA	NA	NA	NA
7	unwashedjj	fingernn	NA	NA	NA	NA
8	cleanjj	fingernn	NA	NA	NA	NA
Ω						

6_339h

	А	В	С	D	Е	F	
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3	petrijj	dishnn	18	21	89	15.8994559	
4	antibacterialjj	gelnn	NA	NA	NA	NA	
5	soilyjj	fingernn	NA	NA	NA	NA	
6	unwashedjj	fingernn	NA	NA	NA	NA	
7	antibacterialjj	gelnn	NA	NA	NA	NA	
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6_442d

1	А	В	С	D	Е	F
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	unwashedjj	fingernn	NA	NA	NA	NA
5	antibacterialjj	gelnn	NA	NA	NA	NA
6						

6_445h

	А	В	С	D	E	-
1	w1	w2	c_freq	w1_freq	w2_freq	MI
2	petrijj	dishnn	18	21	98	15.8994559
3	petrijj	dishnn	18	21	98	15.8994559
4	unwashedjj	fingernn	NA	NA	NA	N.A
5	cleanjj	fingernn	NA	NA	NA	NA
6	dirtyjj	fingernn	NA	NA	NA	NA
7	unwashedjj	fingernn	NA	NA	NA	NA
8	cleanjj	fingernn	NA	NA	NA	NA
Ω						

6_339h

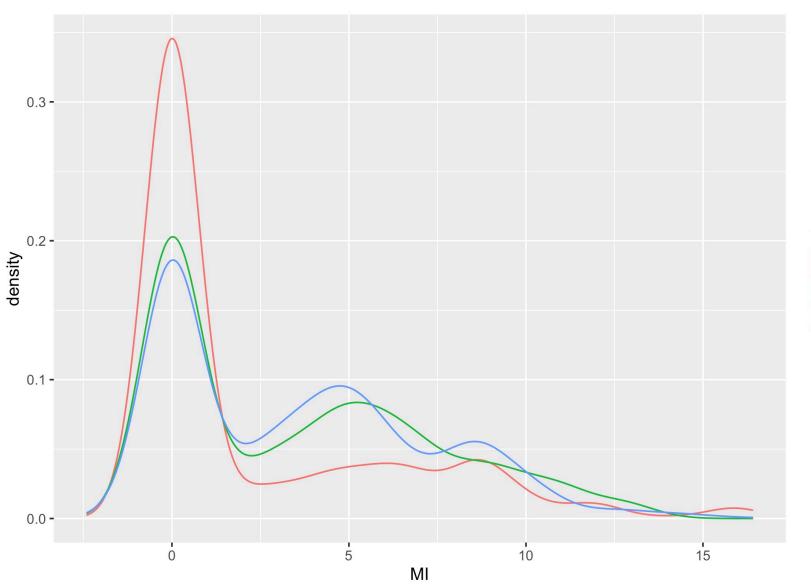
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5	soilyjj	fingernn	NA	NA	NA	NA
6	unwashedjj	fingernn	NA	NA	NA	NA
7	antibacterialjj	gelnn	NA	NA	NA	NA
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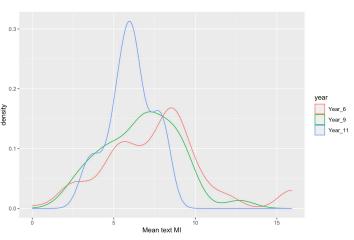
6_442d

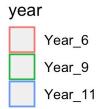
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1	w1	w2	c_freq	w1_freq	w2_freq	MI
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4	unwashedjj	fingernn	NA	NA	NA	NA
5	antibacterialjj	gelnn	NA	NA	NA	NA
6						

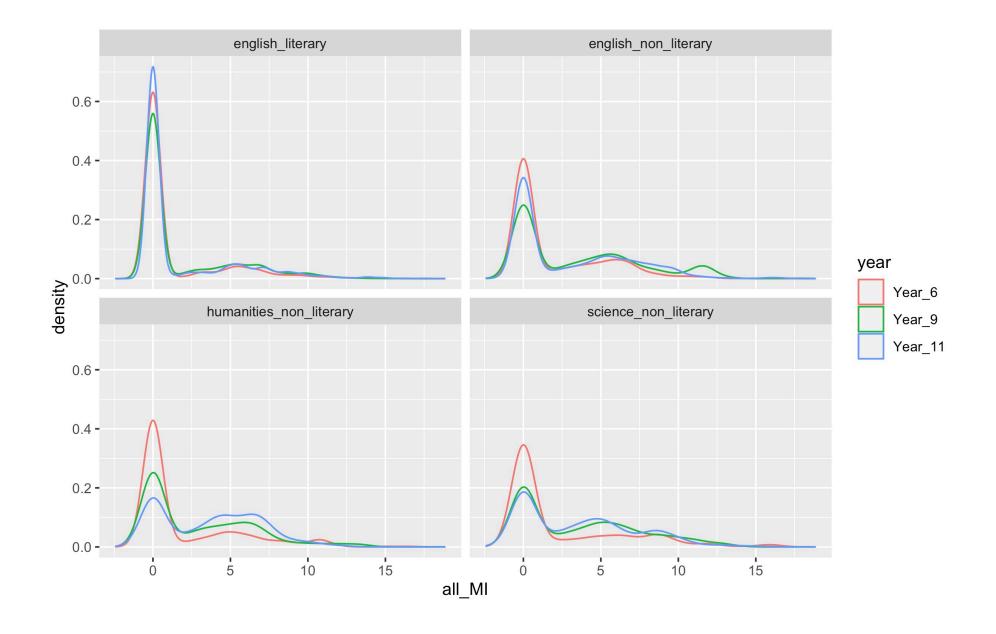
6_445h

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5	cleanjj	fingernn	NA	NA	NA	NA
6	dirtyjj	fingernn	NA	NA	NA	NA
7	unwashedjj	fingernn	NA	NA	NA	NA
8	cleanjj	fingernn	NA	NA	NA	NA
0						









Tentative conclusions

- Primary school children use far more combinations that are infrequent in mature academic writing than secondary school children
- In science writing, when primary children do use frequently attested combinations, these tend to be very strongly associated combinations
- And may be associated with specific tasks

A reminder

What we're trying to do...

- Simplify our data so that we can see broader patterns
- Without losing important information

Methodological lessons

- This method compressed information into mean scores twice:
 - This compression highlighted interesting patterns
 - **But**, in both cases, we needed to go back to the full range of scores to understand them and elaborate on them
- Key aspects of the patterns could only be understood by going back to the texts...

The problem of interpretation

Subject content Task
Language

Writing situation abilities

World Language in use knowledge

Perception of audience

Cognitive skills

Communicative Register goals conventions

Personal preferences

6_339h

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1	w1	w2	c_freq	w1_freq	w2_freq	MI
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6_442d

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0						





Microbes Experiment

We went to the college to grow microbes in petri dishes. First we divided the petri dish into 3 Sections. In Section one we put a fingerprint that had touched Soil. In Section 2 we put a fingerprint that hadn't touched anything but hadn't been washed. In Second 3 we put a fingerprint that had touched antibacterial gel. We then put the lid on. The dishes were left at the college for the weekend so that the microbes could form.

Observation

We observed that the soily finger had grown the most bacteria. The unwashed finger had had grown quite a bit. But the finger that had the antibacterial gel on had grown the fewest. Conclusion.

We found out, that you must wash your hands thoroughly





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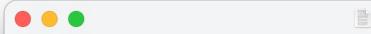
6_442d.txt ~

Microbes Experiment

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We observed that section one had grew the most, section two had grew fewer and section three had growen the least.

In conclusion we learnt how important it is to wash are hands.



6_339h.txt

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6_445h.txt

Microbes Experiment

We went to the College to grow microbes in petri dishes. We divided the petri dish into three sections. One with a finger print that touched some composs. A fingerprint that had not been washed. A finger print that had been washed. We put the composs finger in section one. In section two we put the unwashed finger. In section three we put the clean finger. We seled them up. We left them at the College over the weekend.

We saw that in section 1 (dirty finger) had grown lots of microbes. In section 2 (unwashed finger) had grown quite a lot of microbes. In section 3 (clean finger) had grown not a lot of microbes. That's why we like to keep our hands clean!

Should the Spangebob liv ande de si? We have been discussting whetheer Spongbob should live under the sea.

Many people believe that Spongbok should live ander the see, bicase firstly he soaks up water. Secenly hi wash the rocs in the see. On the adh meni pepo beliv he shut not liv in the see bicoss hi is not e fihs.

In conclusion there are many great reasons for and against for spong bov should liv andr the see bicos deris hi hous.

Wat do uia finc?

Should the Spangebob liv ande de si? We have been discussting whetheer Spongbob should live under the sea.

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In conclusion there are many great reasons for and against **for** spong bov should liv andr the see bicos **deris hi hous.**

Wat do uia finc?

Should Sbungab lifundur The see? We have been discussing whether Sbanchbab should lif under the sea.

Many people believe that Sbonchbab should live undur the sea because fersly **Sbonbob can** sacup **the sea and** secle **Sbanbab can clen** the racs. on the uver hand many **dat** blef **that Sbongbab** should not live **under** the sea because he isent a fish **and he lifs in a haus and lifs bsid the sea.**

in conclusion there are many great reasons for and against wefer Sbongbob should lif under The sea. but I blef that Sbongbob should lif under the sea because thas wer hes home is.

Should Jhingerbred man be eaten?

We have been discasing wether Jhingrbred man should be eaten or not.

Many people belive that the Jinjerbred man should be eaten because firstly he is quit mean and he runs away from the cow and the silly old horse. Secondly the cow and the silly old horse are hungry.

On the ather hand people disagry they think Jinjer bread man shouldn't be eaten.

In conclusion there are many great reasons why Gingrbread man shouldn't be eaten because he woudnt fill the animalls up. But I belive he shouldn't be eaten because he is tiny.

I think he should be eaten because he myte feell angry and chase the animals what do you think?

Should Sleeping Beaty stay asleep?

We have been discussing wheather Sleeping Beaty should stay asleep.

Many people belive that Sleeping Beauty should stay because fistly, she has been sleeping for one hundread years. Secondly, she wants to be lazy. Lastly she doesn't want to work!

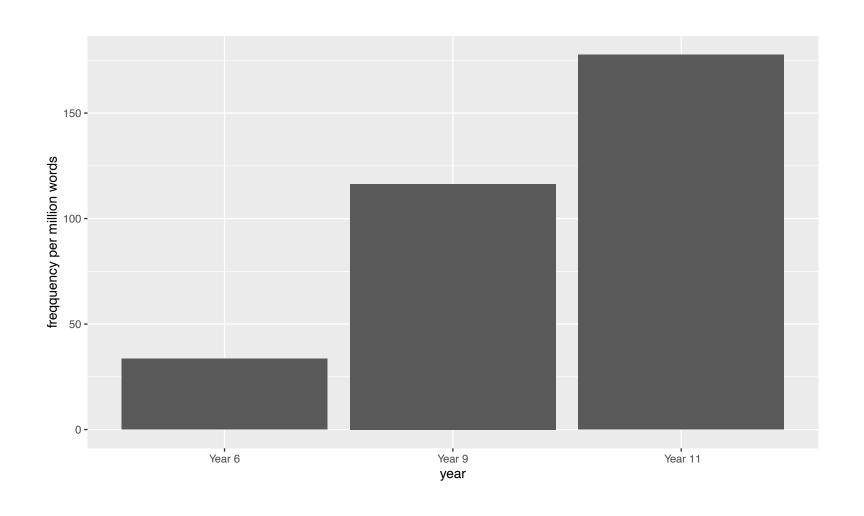
On the other hand some people dissagre that's because she has been sleeping nearly forever.

In conclusion, there are many great reasons for and against for sleeping Beauty to stay asleep but I think that Sleeping Beauty should have made the corect choice

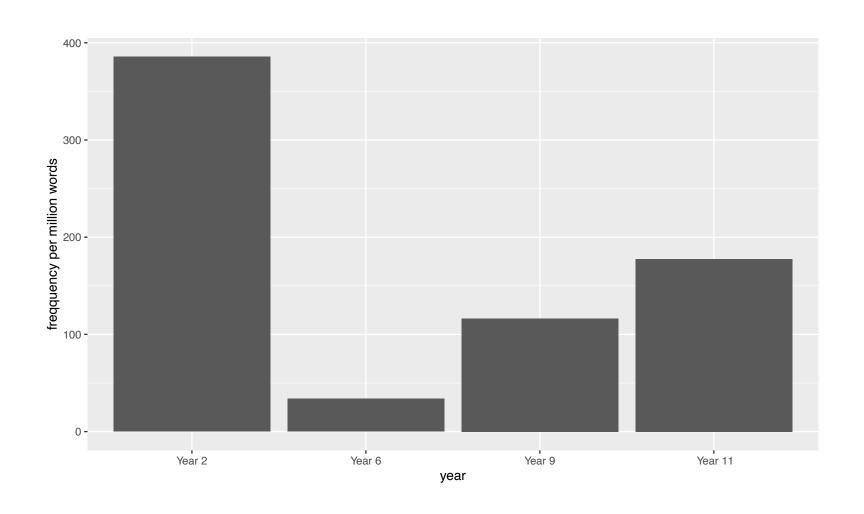
She has to wacke up because she is a princess. **What** do you think?

etc... 34 similar texts, written by 21 different children

on the other hand



on the other hand



Conclusions

- Quantification can bring out key patterns but can also mislead
- Use of phraseological language is tightly bound to contexts
- ...and these contexts play crucial roles in learning
- Broad-brush quantitative analyses need to be interpreted with caution
- Fine-grained follow up analyses and close attention to individual texts essential to understanding broad patterns

References

Durrant, P. (2022). Studying children's writing development with a corpus. *Applied Corpus Linguitics*.

Durrant, P., & Brenchley, M. (2021). The development of academic collocations in children's writing. In P. Szudarski & S. Barclay (Eds.), *Vocabulary Theory, Patterning and Teaching* (pp. 99-120). Bristol: Multilingual Matters.

Thank you!

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