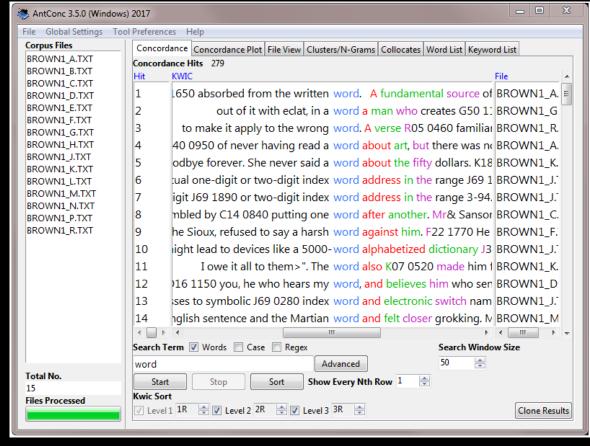
AntConc

Big Data and Language
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AntConc

- AntConc
 - Laurence Anthony, Ph.D.
- A freeware corpus analysis toolkit for concordancing and text analysis.



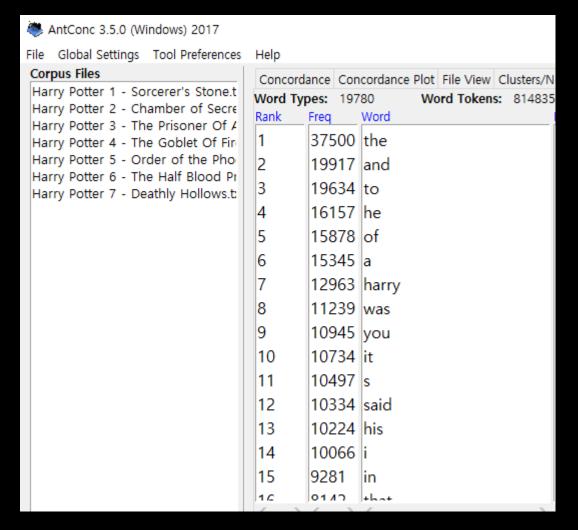


Test with your own text

- http://www.glozman.com/textpages.html
 - Harry Potter
 - Lord of the Rings
 - Star Wars
 - **-** ...
- You can also crawl the transcripts from web pages by programming.



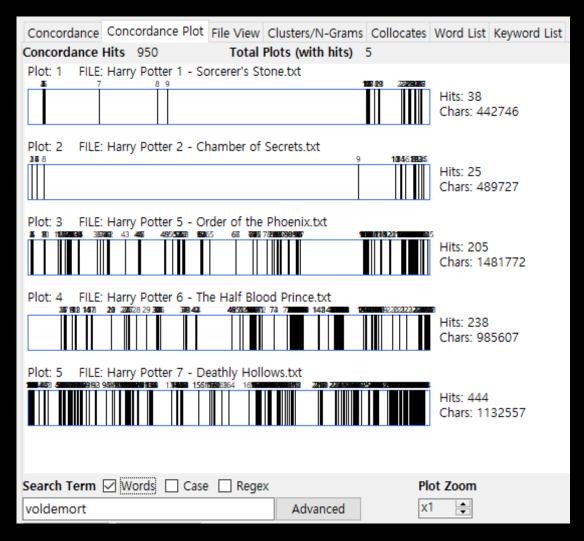
What is the frequent words in Harry Potter?



But we can't find any meaningful result...



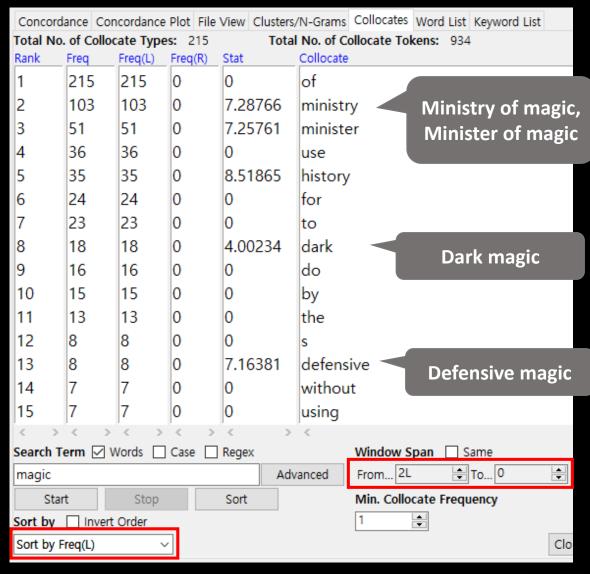
Concordance Plot



Plots where the word "Voldemort" appears.

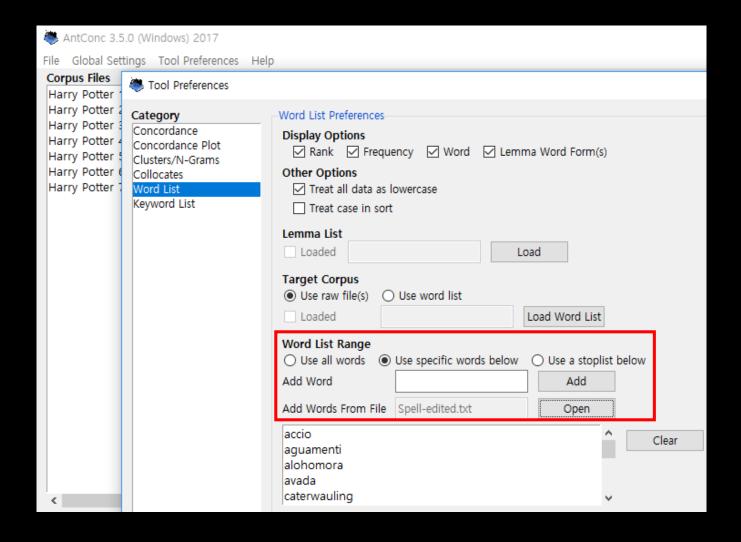


Collocations with the word "magic"



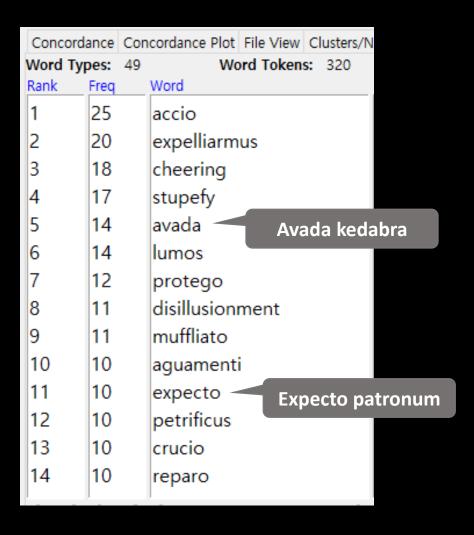


What is the frequent magic spells in Harry Potter?





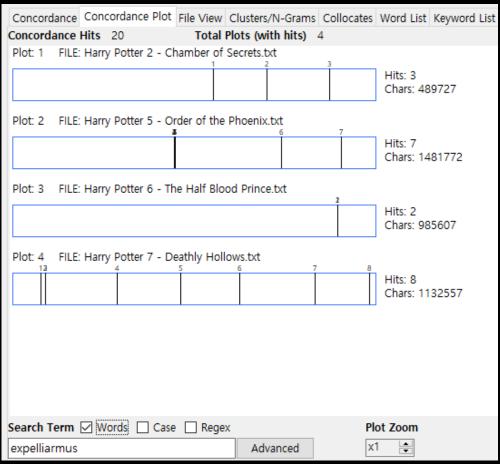
What is the frequent magic spells in Harry Potter?





When is the battle scenes?

Check out the concordance plot of "expelliarmus"

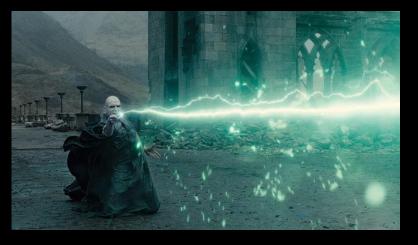




When did the characters killed?

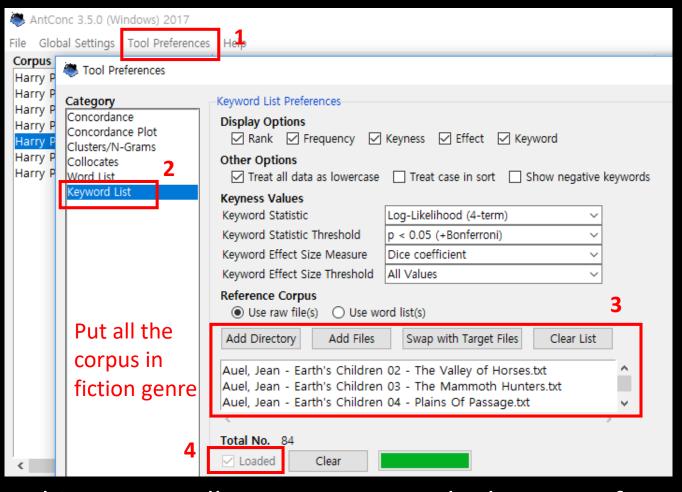
■ We may trace the spell "avada kedabra"

Concordance	Concordance Plot	File View	Clusters/N-Grams	Collocates	Word List	Keyword List			
Concordance Hits 14 Total Plots (with hits) 3									
Plot: 1 FILE: Harry Potter 5 - Order of the Phoenix.txt									
				3 4	Hits: 4 Chars: 14	81772			
Plot: 2 FILE: Harry Potter 6 - The Half Blood Prince.txt									
					Hits: 2 Chars: 98	5607			
Plot: 3 FILE:	Harry Potter 7 - De	eathly Holl	ows.txt						
1 23	-	4	G	8	Hits: 8 Chars: 11	32557			





Keywords in Harry Potter?



This process allows to compare the keyness of words in the target novel with general corpus (fiction).

Keywords

Concordance Concordance Plot File View Clusters/N-Grams Collocates Word List Keyword List							
-	Keyword Types: 1247 Keyword Tokens: 133387 Search Hits: 0						
Rank	Freq	Keyness	Effect	Keyword			
1	12963	+ 37597.75	0.0743	harry			
2	4475	+ 12866.56	0.0272	ron			
3	3803	+ 10947.34	0.0232	hermione			
4	2574	+ 7676.94	0.0159	dumbledore			
5	1384	+ 3887.98	0.0086	hagrid			
6	1322	+ 3828.78	0.0082	snape			
7	1329	+ 3626.65	0.0083	professor			
8	1259	+ 3521.63	0.0078	wand			
9	1082	+ 3047.56	0.0067	weasley			
10	999	+ 2957.04	0.0062	malfoy			
11	950	+ 2834.66	0.0059	voldemort			
12	838	+ 2337.58	0.0052	potter			
13	705	+ 2254.34	0.0044	ginny			
14	766	+ 2144.31	0.0048	sirius			
15	631	+ 2090.76	0.004	umbridge			
16	637	+ 1807.77	0.004	fred			
17	584	+ 1722.92	0.0037	neville			
18	594	+ 1669.07	0.0037	hogwarts			
19	546	+ 1546.39	0.0034	george			
20	526	+ 1522.08	0.0033	mcgonagall			



Filter out Proper Nouns

Concorda	nce Con	cordance Plot File	View Clusters/N-G	rams Collocates Word List Keyword List
Keyword	Types:	1416 Key	word Tokens: 11	0866 Search Hits: 0
Rank	Freq	Keyness	Effect	Keyword
1	1329	+ 3967.97	0.0095	professor
2	1259	+ 3846.22	0.0091	wand
3	449	+ 1396.84	0.0033	ministry
4	476	+ 1270.46	0.0034	school
5	521	+ 1266.57	0.0038	yeah
6	319	+ 986.57	0.0023	yeh
7	292	+ 908.23	0.0021	eaters
8	259	+ 830.1	0.0019	muggle
9	319	+ 774.54	0.0023	office
10	367	+ 763.02	0.0027	uncle
11	257	+ 652.03	0.0019	students
12	220	+ 635.01	0.0016	madam
13	221	+ 587.57	0.0016	potion
14	1020	+ 570.73	0.0072	door
15	211	+ 541.26	0.0015	aunt
16	1053	+ 525.89	0.0074	room
17	194	+ 520.59	0.0014	dad
18	213	+ 507.13	0.0015	er
19	191	+ 470.71	0.0014	owl
20	146	+ 468.7	0.0011	eater

