HMT Summer Experience Presentation

Thursday, July 9, 2020

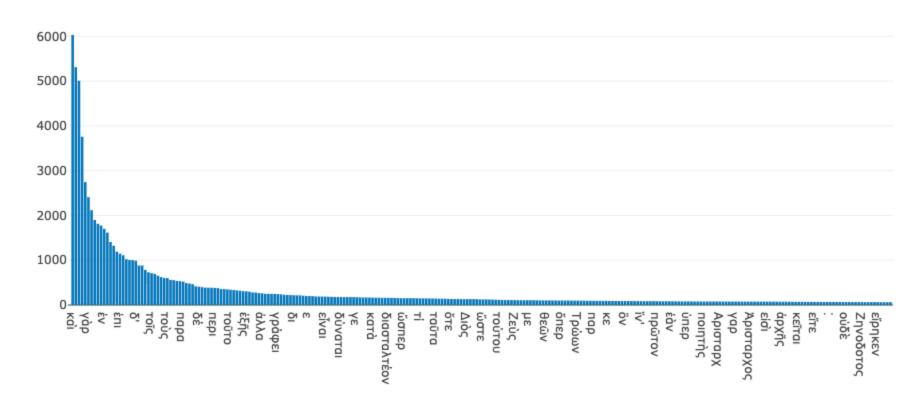
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Zipf-y Scholia

Zipf's Law: given some corpus of natural language utterances, the frequency of any word is inversely proportional to its rank in the frequency table. - "Zipf's Law", *Wikipedia*

Zipfy Scholia Notebook

Zipf Graph - Top Half:



Top 8 Words in vA Scholia:

Word	Frequency
καὶ	6708
τò	5311
δὲ	5006
τοῦ	3757
ὅτι	2743
γὰρ	2406
Ò	2116
τὴν	1899

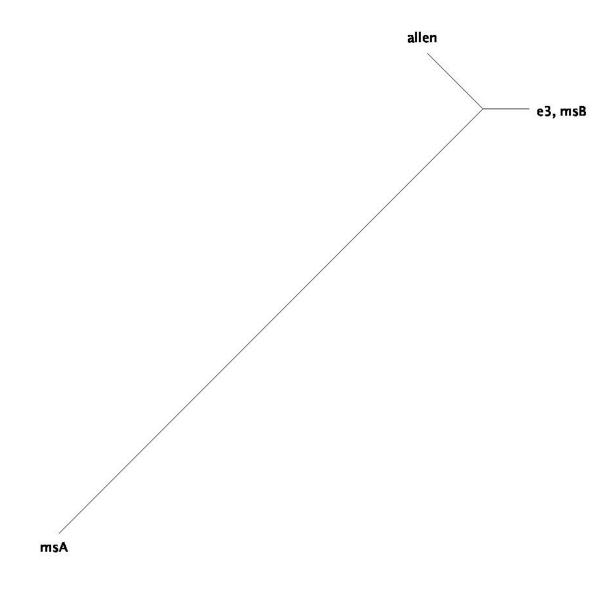
Interesting Finds in Top 100 Words:

Word	Frequency		
λέγει	377		
Ἀρίσταρχος	266		
γράφει	242		
Ζηνόδοτος	224		
φησὶ	168		
βραχὺ	165		

Vertical Variation	Horizontal Variation
VV Notebook	Edit Distance Notebook
Demonstrates different possibilities for expansion and compression of the Iliad oral performance as preserved in different manuscripts.	Demonstrates the multiformity within a line itself and different ways to perform the same passage of the Iliad.

Network of Iliad 9 Texts Using PAUP





Topic Modelling

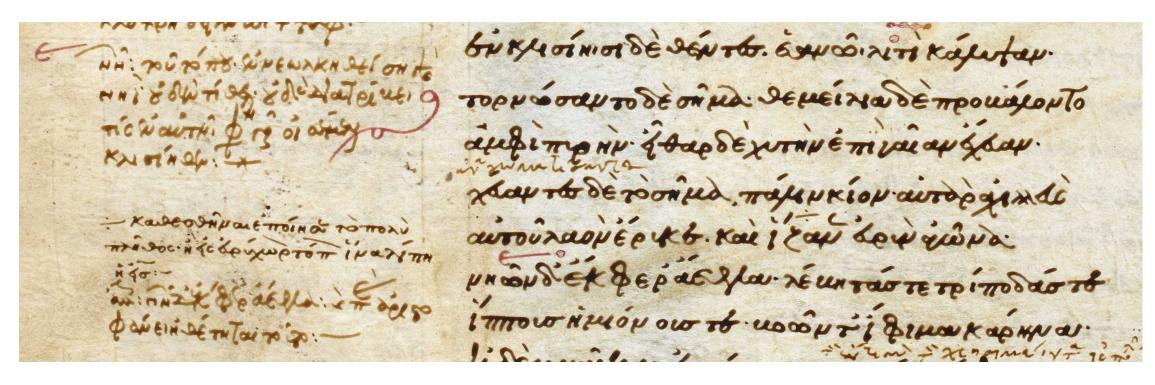
LDA Notebook: Topic Modelling all Venetus A scholia and Book 9 of the Twins scholia (14,661 scholia)

Literary Criticism			
0	ot 0.028049385527877075	от	because
0	grafetai 0.016984647092352416	γραφεται	write
0	ant 0.013126135217886272	αντ	instead of
0	th 0.008194655707191632	τη	
0	kata 0.008059931671540288	κατα	
0	zhnod 0.00624470185628881	ζηνοδ	zenodotus
0	aristarxos 0.006063121305622762	αρισταρχος	aristarchus
0	on 0.00551157225856616	ov	
0	legei 0.004324683711199775	λεγει	say
0	amfi 0.003893922166860679	αμφι	about
0	ke 0.0038812833415748007	κε	
0	tais 0.003770545544589422	ταις	
0	ar 0.003751621347537168	αρ	look!
0	outws 0.003358518227805272	ουτως	thus
0	an 0.003352166233170706	αν	

GOD CLUSTER				
2	oros 0.004062781603727439	ορος	mountain	
2	aplhn 0.003499313491079589	αρληνα		
2	nai 0.003155476426963121	ναι	yes	used in oathes
2	sfisi 0.0027190761941382822	σφισι	they	
2	osson 0.002635873212832413	οσσον		
2	kefalh 0.002604813585292407	κεφαλη	head/life	
2	eqen 0.0025658356203371014	?		
2	skhptron 0.0024480902106675797	σκηπτρον	staff/royalty	
2	sungeton 0.0023514388342278474	?		
2	daita 0.0023017767171318398	δαιτα	feast	
2	sfisin 0.0020646437056424443	σφισιν	they	
2	ma 0.001984485791599946	μα	by	used in oaths
2	olumpos 0.0019065364150527158	ολυμπος	olympus	
2	qusai 0.001891678547990876	?		
2	ina 0.0017886434739282958	ινα		

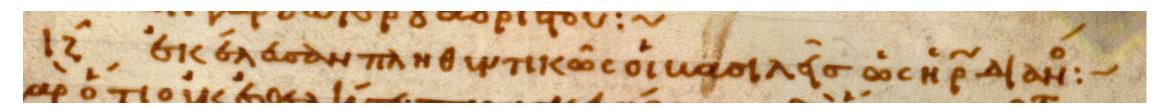


Townley Scholia



Twins vs Townley Scholia

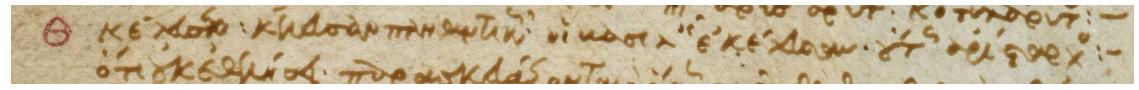
Upsilon 1.1:



294v_295r

ἐκέλευσαν πληθυντικῶς οἱ βασιλεῖς ὡς Ἡρωδιανός ‡

Townley:



250v

κέλευσαν: κέλευσαν πληθυντικώς~ οἱ βασιλεῖς ἐκέλευσαν~ οὕτως Ἀρίσταρχος ‡

Why should you care?

Questions?