Appendix 6. (Multiple) Distinctive collexeme Analysis of 5 subcategories in the MOOC corpus Appendix 6: Table 6-1. Arts-Humanity

pattern	MOOC	Arts-human	Exp.freq	ASSOC.	COLL.STR.LOGL	SIGNIF
1 ADJ n	300860	100717	78327.9	attr	9113.68836	****
2 the N	257119	82700	66940	attr	5239.59907	****
3 N of n	130447	44405	33961.4	attr	4286.34188	****
4 in N	86268	30010	22459.6	attr	3321.25381	****
5 det ADJ n	163242	52431	42499.5	attr	3170.38409	****
6 of N	128176	41930	33370.2	attr	2951.94322	****
7 poss N	54076	19237	14078.5	attr	2434.54474	****
8 a N	85398	28290	22233.1	attr	2180.23033	****
9 N in n	31947	11231	8317.3	attr	1307.99094	****
10 with N	26644	9270	6936.7	attr	1006.1204	****
11 from N	15276	5528	3977.1	attr	766.01639	****
12 N about n	3599	1689	937	attr	723.16317	****
13 to N	35772	11531	9313.1	attr	690.14938	****
14 by N	13889	4825	3616	attr	516.14452	****
15 on N	24177	7864	6294.4	attr	508.47396	****
16 into N	8320	3091	2166.1	attr	496.28889	****
17 v-link ADJ	10749	3814	2798.5	attr	467.93891	****
18 N with n	9290	3324	2418.6	attr	429.37728	****
19 ADJ in n	3791	1551	987	attr	396.5437	****
20 N that	43988	13261	11452.1	attr	379.70021	****

21 ADJ of n	4106	1599	1069 attr	326.57377 *****
22 N to n	13575	4459	3534.2 attr	312.60839 *****
23 out of N	2158	901	561.8 attr	250.74615 *****
24 N from n	5793	2038	1508.2 attr	236.3507 *****
25 N as n	5390	1852	1403.3 attr	183.10538 *****
26 N by n	2649	988	689.7 attr	161.73515 *****
27 N for n	13520	4155	3519.9 attr	150.15184 *****
28 N against n	480	250	125 attr	147.03265 *****
29 without N	841	379	219 attr	141.09948 *****
30 ADJ as n	2345	849	610.5 attr	117.45868 *****
31 ADJ from n	775	340	201.8 attr	114.8011 *****
32 at N	22655	6566	5898.2 attr	100.6349 *****
33 ADJ with n	1275	485	331.9 attr	88.04187 *****
34 N between pl-n	3476	1142	905 attr	79.9305 *****
35 N among pl-n	225	120	58.6 attr	75.39916 *****
36 it V to n that	55	45	14.3 attr	74.99445 *****
37 ADJ about n	908	348	236.4 attr	65.62136 *****
38 N on n	9683	2869	2520.9 attr	63.38254 *****
39 under N	1376	489	358.2 attr	60.39449 *****
40 N at n	6181	1876	1609.2 attr	57.97269 *****
41 it v-link ADJ that	388	170	101 attr	57.11722 *****
42 N to-inf	20294	5753	5283.5 attr	55.74893 *****
43 ADJ that	3089	983	804.2 attr	51.51491 *****
44 it v-link ADJ to-inf	1384	480	360.3 attr	50.5573 *****

45 ADJ for n	2554	814	664.9	attr	43.29475	****
46 ADJ to-inf	9430	2697	2455.1	attr	31.6812	****
47 there V n prep	185	80	48.2	attr	25.57505	****
48 N behind n	303	119	78.9	attr	25.27389	****
49 there V n	296	110	77.1	attr	17.64095	***
50 N into n	2408	718	626.9	attr	17.38922	***
51 n ADJ	11748	3251	3058.6	attr	16.21811	***
52 N towards n	241	90	62.7	attr	14.82205	***
53 ADJ by n	285	103	74.2	attr	14.09068	***
54 within N	1882	562	490	attr	13.90607	***
55 V out of n	1440	432	374.9	attr	11.40917	***
56 it v-link N to-inf	773	242	201.2	attr	10.72448	**
57 it v-link ADJ for n to-inf	120	45	31.2	attr	7.57791	**
58 ADJ -ing	1321	385	343.9	attr	6.47776	*
59 poss N be that	173	60	45	attr	6.31709	*
60 ADJ on n	633	193	164.8	attr	6.3069	*
61 the N be to-inf	536	165	139.5	attr	6.05548	*
62 there v-link nothing ADJ about n	30	14	7.8	attr	5.87578	*
63 N as to wh	46	19	12	attr	5.0521	*
64 there be det N to n	4	3	1	attr	4.17892	*
65 it v-link ADJ to n that	14	7	3.6	attr	3.65431	ns
66 it v-link det N that	9	5	2.3	attr	3.50471	ns
67 ADJ wh	734	213	191.1	attr	3.31709	ns
68 ADJ at n	554	163	144.2	attr	3.21625	ns

69 it v-link ADJ -ing	68	24	17.7 at	ttr	2.83636	ns
70 V as adj	272	83	70.8 at		2.73974	
71 it V adj if	1	1	0.3 at	ttr	2.69148	ns
72 it v n as ADJ that	1	1	0.3 at	ttr	2.69148	ns
73 there v-link anything ADJ in n	1	1	0.3 at	ttr	2.69148	ns
74 there v-link nothing ADJ in -ing	1	1	0.3 at	ttr	2.69148	ns
75 V against n	515	148	134.1 at	ttr	1.91333	ns
76 there V n adv	36	13	9.4 at	ttr	1.76974	ns
77 there v-link something ADJ in n	6	3	1.6 at	ttr	1.56613	ns
78 it v-link det N to-inf	9	4	2.3 at	ttr	1.41636	ns
79 V as to wh	12	5	3.1 at	ttr	1.37881	ns
80 neither AUX n	12	5	3.1 at	ttr	1.37881	ns
81 it V adj to-inf	69	22	18 at	ttr	1.17362	ns
82 it v-link ADJ wh	42	14	10.9 at	ttr	1.10171	ns
83 ADJ toward/towards n	29	10	7.6 at	ttr	1.01186	ns
84 V round n	14	5	3.6 at	ttr	0.63656	ns
85 ADJ between pl-n	45	14	11.7 at	ttr	0.57952	ns
86 ADJ as to wh	8	3	2.1 at	ttr	0.50517	ns
87 it V adj that	57	17	14.8 at	ttr	0.41287	ns
88 there v-link something ADJ about n	12	4	3.1 at	ttr	0.31477	ns
89 poss N be to-inf	260	71	67.7 at	ttr	0.21659	ns
90 V n out of n	499	134	129.9 at	ttr	0.17271	ns
91 it v-link a adj N that	6	2	1.6 at	ttr	0.15739	ns
92 there v-link something ADJ with n	13	4	3.4 at	ttr	0.14597	ns

93 v it ADJ for n to-inf	42	12	10.9	attr	0.13757 ns	S
94 it v-link det N -ing	3	1	0.8	attr	0.07869 ns	S
95 there v-link nothing ADJ with -ing	3	1	0.8	attr	0.07869 ns	S
96 it V n if	14	4	3.6	attr	0.04586 ns	S
97 there be det N in n	7	2	1.8	attr	0.02293 ns	S
98 it v-link ADJ about n	7	2	1.8	attr	0.02293 ns	S
99 V after n	532	140	138.5	attr	0.02179 ns	S
100 the N be that	698	183	181.7	attr	0.01214 ns	S
101 ADJ over n	72	19	18.7	attr	0.00468 ns	S
102 V n off n	114	30	29.7	attr	0.00467 ns	S
103 V onto n	229	60	59.6	attr	0.00328 ns	S
104 it v-link N -ing	139	36	36.2	rep	0.00132 ns	S
105 V n among pl-n	4	1	1	rep	0.00224 ns	S
106 so AUX n	348	89	90.6	rep	0.03838 ns	S
107 v it ADJ that	25	6	6.5	rep	0.0547 ns	S
108 V n toward n	41	10	10.7	rep	0.05839 ns	S
109 v it ADJ to-inf	116	29	30.2	rep	0.06506 ns	S
110 it v-link ADJ if	65	16	16.9	rep	0.06882 ns	S
111 v it det N to-inf	5	1	1.3	rep	0.10005 ns	S
112 it V n adj to-inf	6	1	1.6	rep	0.30048 ns	S
113 V n as to wh	25	5	6.5	rep	0.50024 ns	S
114 it v n N to-inf	34	7	8.9	rep	0.55078 ns	S
115 nor AUX n	47	10	12.2	rep	0.57703 ns	S
116 V and v	1	0	0.3	rep	0.60315 ns	S

117 it V n adj that	1	0	0.3 rep	0.60315 ns
118 it v-link ADJ for n that	1	0	0.3 rep	0.60315 ns
119 there v-link anything ADJ with n	1	0	0.3 rep	0.60315 ns
120 there v-link nothing ADJ in n	1	0	0.3 rep	0.60315 ns
121 V n as n	2388	605	621.7 rep	0.61107 ns
122 V as n	5053	1291	1315.5 rep	0.62196 ns
123 V n on to n	17	3	4.4 rep	0.67454 ns
124 it V n when	17	3	4.4 rep	0.67454 ns
125 there v-link nothing ADJ with n	8	1	2.1 rep	0.88519 ns
126 V between pl-n	241	56	62.7 rep	1.00426 ns
127 V n with adv	14	2	3.6 rep	1.13748 ns
128 V around	1211	299	315.3 rep	1.15 ns
129 it v-link ADJ of n that	2	0	0.5 rep	1.20629 ns
130 it v-link ADJ of n to-inf	2	0	0.5 rep	1.20629 ns
131 V n between pl-n	477	113	124.2 rep	1.39027 ns
132 it V adj -ing	3	0	0.8 rep	1.80944 ns
133 it V to n as if/though	3	0	0.8 rep	1.80944 ns
134 V on to n	428	99	111.4 rep	1.92275 ns
135 it V n n to-inf	60	11	15.6 rep	1.99129 ns
136 it V n for n to-inf	51	9	13.3 rep	2.02363 ns
137 V under n	557	128	145 rep	2.77252 ns
138 ADJ against n	13	1	3.4 rep	2.87833 ns
139 V way prep	5	0	1.3 rep	3.01574 ns
140 it V adj when	5	0	1.3 rep	3.01574 ns

141 ADJ after v	5	0	1.3	rep	3.01574	ns
142 V n against n	327	71	85.1	rep	3.29872	ns
143 it V when	47	7	12.2	rep	3.40553	ns
144 it V as if/as though	86	15	22.4	rep	3.59009	ns
145 it V n before	6	0	1.6	rep	3.61889	ns
146 V n onto n	96	16	25	rep	4.80787	*
147 it v n ADJ that	18	1	4.7	rep	5.22087	*
148 it V to n like	74	11	19.3	rep	5.39173	*
149 the N be -ing	2166	515	563.9	rep	5.85268	*
150 V n about n	2406	569	626.4	rep	7.26398	**
151 it v n ADJ to-inf	13	0	3.4	rep	7.84093	**
152 poss N be -ing	534	111	139	rep	8.01694	**
153 V of n	4315	1041	1123.4	rep	8.31693	**
154 it V like	1230	276	320.2	rep	8.52959	**
155 V n as adj	240	43	62.5	rep	8.89316	**
156 V way adv	57	5	14.8	rep	10.9371	***
157 V n by n	865	183	225.2	rep	11.18098	***
158 N over n	1554	341	404.6	rep	14.02032	***
159 it V n to-inf	603	115	157	rep	16.22931	****
160 it V prep to-inf	124	13	32.3	rep	18.71377	****
161 V like n	2439	542	635	rep	19.06123	****
162 V n with n	3903	889	1016.1	rep	22.15921	****
163 it V n that	334	51	87	rep	22.48535	****
164 it V to-inf	1525	315	397	rep	24.08945	****

165 V off n	1000	189	260.3	rep	28.31154	****
166 it V if	50	0	13	rep	30.15763	****
167 it V that	916	167	238.5	rep	31.25418	****
168 V into n	6492	1483	1690.2	rep	35.38266	****
169 V toward/towards n	721	118	187.7	rep	38.61274	****
170 V n over n	606	90	157.8	rep	44.27428	****
171 V wh- to-inf	1053	181	274.1	rep	46.73635	****
172 V n -ing	3876	810	1009.1	rep	55.7412	****
173 V over n	1661	303	432.4	rep	56.52573	****
174 V n at n	2749	545	715.7	rep	58.39076	****
175 V across n	657	83	171	rep	71.14153	****
176 V n into n	2117	382	551.2	rep	75.92583	****
177 V by -ing	1306	191	340	rep	99.64689	****
178 ADJ to n	6352	1307	1653.7	rep	103.56298	****
179 V n from n	3477	615	905.2	rep	136.70323	****
180 V in n	29565	6818	7697.1	rep	140.63303	****
181 V from n	8179	1666	2129.4	rep	144.04033	****
182 V through n	3715	650	967.2	rep	153.17557	****
183 V n wh	2811	448	731.8	rep	165.17458	****
184 V n to n	7712	1526	2007.8	rep	166.13553	****
185 V n on n	4160	728	1083	rep	171.40392	****
186 V n adj	4469	773	1163.5	rep	193.48344	****
187 V for n	8354	1601	2174.9	rep	219.14645	****
188 V by amount	653	28	170	rep	221.21485	****

189 V n for n	6064	1089	1578.7	rep	222.66605	****
190 V -ing	8306	1571	2162.4	rep	234.70216	****
191 V on n	12623	2540	3286.4	rep	243.07813	****
192 V n in n	12794	2576	3330.9	rep	245.31628	****
193 V with n	12945	2602	3370.2	rep	251.18229	****
194 V as if/as though/like	4045	629	1053.1	rep	257.63341	****
195 V so/not	7129	1279	1856	rep	263.05232	****
196 n N	171404	41585	44624.4	rep	300.22806	****
197 V about n	12588	2432	3277.2	rep	315.29934	****
198 it V prep that	988	38	257.2	rep	353.21035	****
199 V to n	26073	5484	6788	rep	357.36519	****
200 V wh	9865	1750	2568.3	rep	383.54012	****
201 V pl-n	17558	3323	4571.2	rep	495.7872	****
202 V adj	16797	3083	4373	rep	557.01433	****
203 num N	43610	9202	11353.7	rep	584.46338	****
204 V n that	12715	2041	3310.3	rep	731.29929	****
205 V at n	14012	2236	3648	rep	822.45059	****
206 V pron-refl	30905	5883	8046	rep	848.24404	****
207 V n to-inf	15496	2521	4034.3	rep	851.32709	****
208 V n adv	22558	4011	5872.9	rep	871.12962	****
209 V that	38971	7584	10146	rep	941.67116	****
210 V n n	27908	5079	7265.8	rep	968.16664	****
211 V n of n	38504	6994	10024.4	rep	1352.39419	****
212 V n prep	30989	5064	8067.9	rep	1683.29108	****

213 V amount	8873	712	2310.1 rep	1885.2427 *****
214 V adv	75601	14193	19682.5 rep	2270.05804 *****
215 V n inf	28797	3889	7497.2 rep	2712.05014 *****
216 V prep	120158	21589	31282.7 rep	4554.52342 *****
217 V n	156083	28517	40635.7 rep	5521.96904 *****
218 V to-inf	97124	15219	25285.9 rep	6200.87751 *****
219 V	218544	41433	56897.2 rep	6500.87174 *****
220 V inf	126215	20086	32859.6 rep	7725.33244 *****

Appendix 5: Table 5.2. Computer science & Math

pattern	MOOC	Comp-sci	Exp.freq	ASSOC.	COLL.STR.LOGL	SIGNIF
1 n N	171404	63727	46431.6	attr	8786.42061	****
2 det ADJ n	163242	54705	44220.6	attr	3448.02531	****
3 num N	43610	17094	11813.5	attr	3046.29463	****
4 ADJ n	300860	92268	81499.9	attr	2107.42964	****
5 a N	85398	28197	23133.4	attr	1501.03048	****
6 the N	257119	78106	69650.9	attr	1499.45511	****

7 N that	43988	15449	11915.9	attr	1381.76384	****
8 ADJ to n	6352	2797	1720.7	attr	839.0613	****
9 V amount	8873	3576	2403.6	attr	725.33802	****
10 v-link ADJ	10749	4139	2911.8	attr	662.32174	****
11 N to-inf	20294	6933	5497.4	attr	493.27559	****
12 V n inf	28797	9419	7800.8	attr	446.89462	****
13 N of n	130447	38593	35336.7	attr	421.76903	****
14 n ADJ	11748	4111	3182.4	attr	353.78112	****
15 of N	128176	37477	34721.6	attr	307.84991	****
16 to N	35772	11126	9690.3	attr	286.79994	****
17 with N	26644	8385	7217.6	attr	253.20324	****
18 N for n	13520	4432	3662.4	attr	214.09977	****
19 N to n	13575	4421	3677.3	attr	199.39316	****
20 V by amount	653	295	176.9	attr	97.63148	****
21 ADJ -ing	1321	521	357.8	attr	94.50555	****
22 ADJ to-inf	9430	2976	2554.5	attr	92.68598	****
23 V as if/as though/like	4045	1354	1095.7	attr	79.99006	****
24 N over n	1554	573	421	attr	70.70231	****
25 N with n	9290	2814	2516.6	attr	47.24422	****
26 ADJ that	3089	1007	836.8	attr	45.7412	****
27 poss N be to-inf	260	120	70.4	attr	43.01832	****
28 at N	22655	6571	6137	attr	41.80019	****
29 by N	13889	4100	3762.4	attr	40.99421	****
30 the N be that	698	263	189.1	attr	37.0372	****

31 N into n	2408	782	652.3	attr	34.08382 *****
32 ADJ as n	2345	758	635.2	attr	31.38675 *****
33 V that	38971	11005	10556.8	attr	26.19348 *****
34 V wh- to-inf	1053	360	285.2	attr	25.60887 *****
35 N by n	2649	828	717.6	attr	22.63446 *****
36 ADJ on n	633	224	171.5	attr	20.88376 *****
37 N at n	6181	1834	1674.4	attr	20.52027 *****
38 N as n	5390	1601	1460.1	attr	18.32578 ****
39 it v-link ADJ if	65	33	17.6	attr	16.32504 ****
40 on N	24177	6819	6549.3	attr	15.22191 ****
41 it v n ADJ to-inf	13	10	3.5	attr	13.97121 ***
42 ADJ with n	1275	405	345.4	attr	13.65762 ***
43 V n n	27908	7828	7560	attr	13.0528 ***
44 it v-link ADJ -ing	68	30	18.4	attr	9.04887 **
45 ADJ by n	285	95	77.2	attr	5.38921 *
46 V n onto n	96	36	26	attr	4.92679 *
47 ADJ over n	72	28	19.5	attr	4.71264 *
48 ADJ wh	734	225	198.8	attr	4.60371 *
49 ADJ from n	775	236	209.9	attr	4.33076 *
50 N as to wh	46	19	12.5	attr	4.31882 *
51 there v-link nothing ADJ about n	30	13	8.1	attr	3.64489 ns
52 poss N be -ing	534	163	144.7	attr	3.11273 ns
53 N between pl-n	3476	987	941.6	attr	2.97446 ns
54 V by -ing	1306	380	353.8	attr	2.62637 ns

55 N on n	9683	2688	2623	attr	2.20299 ns
56 ADJ as to wh	8	4	2.2	attr	1.88544 ns
57 there V n prep	185	58	50.1	attr	1.65069 ns
58 there V n adv	36	13	9.8	attr	1.39799 ns
59 it v-link N to-inf	773	224	209.4	attr	1.37739 ns
60 the N be to-inf	536	157	145.2	attr	1.29484 ns
61 ADJ for n	2554	717	691.9	attr	1.24537 ns
62 v it ADJ that	25	9	6.8	attr	0.94765 ns
63 it v-link ADJ about n	7	3	1.9	attr	0.80299 ns
64 it v-link ADJ wh	42	14	11.4	attr	0.79413 ns
65 there v-link something ADJ with n	13	5	3.5	attr	0.79208 ns
66 it V if	50	16	13.5	attr	0.58972 ns
67 it v-link ADJ to n that	14	5	3.8	attr	0.498 ns
68 it V like	1230	344	333.2	attr	0.47762 ns
69 it v-link ADJ of n to-inf	2	1	0.5	attr	0.47136 ns
70 there v-link nothing ADJ with n	8	3	2.2	attr	0.41055 ns
71 v it det N to-inf	5	2	1.4	attr	0.38964 ns
72 ADJ after v	5	2	1.4	attr	0.38964 ns
73 it V prep to-inf	124	36	33.6	attr	0.23368 ns
74 V as to wh	12	4	3.3	attr	0.22689 ns
75 it v-link N -ing	139	40	37.7	attr	0.19802 ns
76 it v-link det N to-inf	9	3	2.4	attr	0.17017 ns
77 it V n adj to-inf	6	2	1.6	attr	0.11345 ns
78 ADJ at n	554	153	150.1	attr	0.078 ns

79 it V adj -ing	3	1	0.8	attr	0.05672 ns
80 there v-link nothing ADJ with -ing	3	1	0.8	attr	0.05672 ns
81 v it ADJ for n to-inf	42	12	11.4	attr	0.04622 ns
82 poss N be that	173	48	46.9	attr	0.03759 ns
83 v it ADJ to-inf	116	32	31.4	attr	0.01447 ns
84 N behind n	303	83	82.1 a	attr	0.01412 ns
85 it v-link ADJ that	388	106	105.1 a	attr	0.01043 ns
86 there be det N in n	7	2	1.9	attr	0.0077 ns
87 it v-link ADJ to-inf	1384	376	374.9 a	attr	0.00434 ns
88 ADJ toward/towards n	29	8	7.9	attr	0.00362 ns
89 it V n n to-inf	60	16	16.3 r	rep	0.00544 ns
90 it v n N to-inf	34	9	9.2	rep	0.00661 ns
91 V n on to n	17	4	4.6	rep	0.11232 ns
92 V n as to wh	25	6	6.8	rep	0.12388 ns
93 V way prep	5	1	1.4	rep	0.13551 ns
94 it V adj when	5	1	1.4	rep	0.13551 ns
95 there V n	296	77	80.2	rep	0.17483 ns
96 it v n ADJ that	18	4	4.9 г	rep	0.22497 ns
97 V n with adv	14	3	3.8	rep	0.23849 ns
98 it V n if	14	3	3.8	rep	0.23849 ns
99 N from n	5793	1552	1569.3 r	rep	0.26157 ns
00 it V n before	6	1	1.6	rep	0.36466 ns
01 there v-link something ADJ in n	6	1	1.6 r	rep	0.36466 ns
102 V and v	1	0	0.3 r	rep	0.63186 ns

103 it V adj if	1	0	0.3	rep	0.63186	ns
104 it V n adj that	1	0	0.3	rep	0.63186	ns
105 it v n as ADJ that	1	0	0.3	rep	0.63186	ns
106 it v-link ADJ for n that	1	0	0.3	rep	0.63186	ns
107 there v-link anything ADJ in n	1	0	0.3	rep	0.63186	ns
108 there v-link anything ADJ with n	1	0	0.3	rep	0.63186	ns
109 there v-link nothing ADJ in -ing	1	0	0.3	rep	0.63186	ns
110 there v-link nothing ADJ in n	1	0	0.3	rep	0.63186	ns
111 there v-link something ADJ about n	12	2	3.3	rep	0.72931	ns
112 it v-link ADJ of n that	2	0	0.5	rep	1.26372	ns
113 V round n	14	2	3.8	rep	1.32325	ns
114 it v-link det N that	9	1	2.4	rep	1.388	ns
115 V n by n	865	219	234.3	rep	1.39367	ns
116 it V when	47	9	12.7	rep	1.61222	ns
117 it V n that	334	80	90.5	rep	1.7076	ns
118 it V to n as if/though	3	0	0.8	rep	1.89558	ns
119 it v-link det N -ing	3	0	0.8	rep	1.89558	ns
120 ADJ between pl-n	45	8	12.2	rep	2.15493	ns
121 ADJ about n	908	226	246	rep	2.26367	ns
122 it V n when	17	2	4.6	rep	2.38693	ns
123 it V to n that	55	10	14.9	rep	2.39931	ns
124 it v-link ADJ for n to-inf	120	25	32.5	rep	2.5114	ns
125 V n among pl-n	4	0	1.1	rep	2.52744	ns
126 there be det N to n	4	0	1.1	rep	2.52744	ns

127 it V adj to-inf	69	13	18.7	rep	2.56275	ns
128 V n as adj	240	54	65	rep	2.66031	ns
129 V way adv	57	10	15.4	rep	2.87609	ns
130 V on to n	428	99	115.9	rep	3.50946	ns
131 it v-link a adj N that	6	0	1.6	rep	3.79117	ns
132 into N	8320	2175	2253.8	rep	3.81718	ns
133 it V adj that	57	9	15.4	rep	4.11565	*
134 nor AUX n	47	6	12.7	rep	5.67902	*
135 neither AUX n	12	0	3.3	rep	7.58234	**
136 V n wh	2811	696	761.5	rep	7.87419	**
137 ADJ against n	13	0	3.5	rep	8.21421	**
138 V n over n	606	133	164.2	rep	8.47772	**
139 in N	86268	22979	23369.1	rep	9.21423	**
140 V like n	2439	587	660.7	rep	11.56687	***
141 the N be -ing	2166	516	586.7	rep	12.02653	***
142 it V n for n to-inf	51	4	13.8	rep	12.10396	***
143 it V that	916	202	248.1	rep	12.28445	***
144 it V as if/as though	86	10	23.3	rep	12.31799	***
145 under N	1376	312	372.7	rep	14.09728	***
146 it V n to-inf	603	123	163.3	rep	14.50224	***
147 V n off n	114	14	30.9	rep	14.83012	***
148 V n at n	2749	649	744.7	rep	17.36627	****
149 V as adj	272	44	73.7	rep	18.23141	****
150 V n toward n	41	1	11.1	rep	18.48412	***

151 V n that	12715	3230	3444.4	rep	18.61955	***
152 V onto n	229	31	62	rep	24.5009	****
153 V between pl-n	241	32	65.3	rep	26.8781	****
154 N towards n	241	31	65.3	rep	28.68754	****
155 so AUX n	348	52	94.3	rep	29.35132	****
156 ADJ in n	3791	881	1026.9	rep	29.40724	****
157 without N	841	159	227.8	rep	30.72712	****
158 N in n	31947	8181	8654.1	rep	36.257	****
159 V n as n	2388	518	646.9	rep	36.91774	****
160 ADJ of n	4106	931	1112.3	rep	42.10705	****
161 V after n	532	81	144.1	rep	42.65016	****
162 it V to n like	74	0	20	rep	46.75832	****
163 out of N	2158	447	584.6	rep	46.99275	****
164 N about n	3599	795	974.9	rep	47.58044	****
165 V n between pl-n	477	66	129.2	rep	48.60614	****
166 V over n	1661	322	449.9	rep	53.51761	****
167 within N	1882	369	509.8	rep	57.08208	****
168 V -ing	8306	1947	2250	rep	57.83442	****
169 N among pl-n	225	13	61	rep	68.55133	****
170 V n into n	2117	410	573.5	rep	68.56767	****
it V to-inf	1525	274	413.1	rep	69.96771	****
172 V n out of n	499	56	135.2	rep	75.76245	****
173 V around	1211	199	328	rep	77.18367	****
174 V n against n	327	25	88.6	rep	79.53829	****

175 V across n	657	80	178	rep	86.8233	****
176 V off n	1000	147	270.9	rep	88.03883	****
177 V n with n	3903	801	1057.3	rep	90.37846	****
178 from N	15276	3619	4138.1	rep	92.28967	****
179 V n adj	4469	928	1210.6	rep	95.76412	****
180 N against n	480	43	130	rep	98.94509	****
181 V n adv	22558	5454	6110.7	rep	99.83038	****
182 poss N	54076	13599	14648.6	rep	106.56863	****
183 V n about n	2406	406	651.8	rep	140.20491	****
184 V under n	557	39	150.9	rep	146.58969	****
185 V n for n	6064	1219	1642.7	rep	159.75552	****
186 V n -ing	3876	711	1050	rep	162.88762	****
187 V of n	4315	806	1168.9	rep	167.10329	****
188 V against n	515	24	139.5	rep	178.91779	****
189 V n from n	3477	593	941.9	rep	195.16627	****
190 V toward/towards n	721	38	195.3	rep	233.22659	****
191 V out of n	1440	151	390.1	rep	242.35766	****
192 V n on n	4160	699	1126.9	rep	246.15786	****
193 V at n	14012	2988	3795.7	rep	248.84626	****
194 V n prep	30989	7168	8394.6	rep	256.50867	****
195 V n to n	7712	1474	2089.1	rep	267.64291	****
196 V pron-refl	30905	7029	8371.8	rep	309.33261	****
197 V as n	5053	839	1368.8	rep	311.4877	****
198 V n to-inf	15496	3243	4197.7	rep	315.72893	****

199 V to-inf	97124	23755	26309.9	rep	358.42183	****
200 V wh	9865	1860	2672.3	rep	366.15836	****
201 V with n	12945	2541	3506.7	rep	391.47381	****
202 V pl-n	17558	3578	4756.3	rep	427.0256	****
203 V so/not	7129	1191	1931.2	rep	430.64971	****
204 V for n	8354	1442	2263	rep	449.39126	****
205 V on n	12623	2278	3419.4	rep	570.47459	****
206 it V prep that	988	0	267.6	rep	624.39302	****
207 V into n	6492	829	1758.6	rep	785.37214	****
208 V from n	8179	1110	2215.6	rep	872.15716	****
209 V adj	16797	2905	4550.1	rep	899.25851	****
210 V n in n	12794	1966	3465.8	rep	1003.12162	****
211 V about n	12588	1923	3410	rep	1003.29163	****
212 V n of n	38504	7574	10430.3	rep	1159.81917	****
213 V to n	26073	4203	7062.9	rep	1779.98514	****
214 V adv	75601	15125	20479.5	rep	2092.0854	****
215 V inf	126215	27148	34190.3	rep	2170.21213	****
216 V n	156083	34279	42281.3	rep	2278.02882	****
217 V through n	3715	0	1006.4	rep	2348.98674	****
218 V prep	120158	24762	32549.6	rep	2806.06563	****
219 V in n	29565	3889	8008.9	rep	3389.89053	****
220 V	218544	45741	59201.3	rep	4740.22828	****

Appendix 5: Table 5.3. Life science

pattern	MOOC	Life-sci	Exp.freq	ASSOC.	COLL.STR.LOGL	SIGNIF
1 V	218544	47208	23395	attr	23754.26042	****
2 V n	156083	35328	16708.6	attr	19500.55517	****
3 V inf	126215	29156	13511.2	attr	16697.07507	****
4 V prep	120158	26523	12862.8	attr	13536.15694	****
5 V to-inf	97124	21762	10397	attr	11423.76799	****

6 V that	38971	9733	4171.8 at	ttr 6413.14569	****
7 V adv	75601	15526	8093 at		
8 V n of n	38504	9464	4121.8 at		
9 V in n	29565	7430	3164.9 at		
10 V to n	26073	6398	2791.1 at	ttr 4034.84068	****
11 V n prep	30989	6886	3317.3 at	ttr 3444.86117	****
12 V adj	16797	4476	1798.1 at	ttr 3341.75091	****
13 V n to-inf	15496	4217	1658.8 at	ttr 3279.62324	****
14 V about n	12588	3479	1347.5 at	ttr 2784.10873	****
15 V pl-n	17558	4200	1879.6 at	ttr 2492.80757	****
16 V pron-refl	30905	6282	3308.4 at	ttr 2471.46554	****
17 V n in n	12794	3254	1369.6 at	ttr 2204.35098	****
18 V with n	12945	3214	1385.8 at	ttr 2068.08461	****
19 V n n	27908	5527	2987.5 at	ttr 2011.1099	****
20 V n that	12715	3127	1361.1 at	ttr 1970.57262	****
21 V from n	8179	2228	875.6 at	ttr 1730.61831	****
22 V n adv	22558	4503	2414.8 at	ttr 1674.40228	****
23 V into n	6492	1879	695 at	ttr 1634.64988	****
24 V wh	9865	2413	1056 at	ttr 1500.82006	****
25 V n to n	7712	2024	825.6 at	ttr 1459.84367	****
26 V on n	12623	2823	1351.3 at	ttr 1424.56111	****
27 V n inf	28797	5210	3082.7 at	ttr 1409.76049	****
28 V for n	8354	2102	894.3 at	ttr 1389.2561	****
29 V at n	14012	2925	1500 at	ttr 1232.4559	****

30 V -ing	8306	1921	889.2 attr	1050.18202 ***	***
31 V n from n	3477	1041	372.2 attr	960.88467 ***	***
32 V so/not	7129	1639	763.2 attr	882.94554 ***	***
33 V n for n	6064	1459	649.1 attr	873.2666 ***	***
34 V n adj	4469	1155	478.4 attr	806.17648 ***	***
35 V n about n	2406	668	257.6 attr	536.87659 ***	***
36 V of n	4315	990	461.9 attr	530.08172 ***	***
37 V through n	3715	890	397.7 attr	527.03799 ***	***
38 V n with n	3903	887	417.8 attr	464.04881 ***	***
39 V n on n	4160	885	445.3 attr	391.12346 ***	***
40 V n -ing	3876	840	414.9 attr	389.85079 ***	***
41 V n into n	2117	547	226.6 attr	381.22994 ***	***
42 V as n	5053	1012	540.9 attr	377.426 ***	***
43 V n wh	2811	645	300.9 attr	345.23086 ***	***
44 V across n	657	250	70.3 attr	336.59216 ***	***
45 it V prep that	988	290	105.8 attr	258.13947 ***	***
46 V n at n	2749	557	294.3 attr	214.74035 ***	***
47 V like n	2439	492	261.1 attr	187.2228 ***	***
48 it V to-inf	1525	345	163.3 attr	178.32539 ***	***
49 V n as n	2388	448	255.6 attr	135.98983 ***	***
50 V out of n	1440	302	154.2 attr	128.25317 ***	***
51 V as if/as though/like	4045	664	433 attr	121.03798 ***	***
52 V by -ing	1306	273	139.8 attr	114.88936 ***	***
53 V around	1211	258	129.6 attr	114.33057 ***	***

54 V n between pl-n	477	135	51.1 a	ttr	112.39847	****
55 V off n	1000	214	107 a	ttr	95.96077	****
56 it V that	916	189	98.1 a	ttr	76.69275	****
57 V after n	532	126	57 a	ttr	72.59229	****
58 within N	1882	324	201.5 a	ttr	72.02047	****
59 V n over n	606	131	64.9 a ⁻	ttr	60.31962	****
60 it V n to-inf	603	130	64.6 a	ttr	59.43633	****
61 it V as if/as though	86	35	9.2 a ⁻	ttr	51.73656	****
62 V over n	1661	273	177.8 a ⁻	ttr	49.99678	****
63 V n by n	865	162	92.6 a	ttr	48.86682	****
64 V onto n	229	62	24.5 a	ttr	47.42521	****
65 it V n that	334	80	35.8 a ⁻	ttr	47.28675	****
66 V n out of n	499	104	53.4 a ⁻	ttr	43.39655	****
67 it V like	1230	208	131.7 a	ttr	43.00221	****
68 V toward/towards n	721	136	77.2 a	ttr	42.00463	****
69 V against n	515	99	55.1 a ⁻	ttr	32.50496	****
70 so AUX n	348	73	37.3 a	ttr	31.00773	****
71 V on to n	428	78	45.8 a ⁻	ttr	21.42724	****
72 V n as adj	240	50	25.7 a ⁻	ttr	20.83845	****
73 V wh- to-inf	1053	160	112.7 a ⁻	ttr	19.94846	****
74 V between pl-n	241	49	25.8 a ⁻	ttr	19.06196	****
75 V n against n	327	61	35 a ⁻	ttr	18.15494	****
76 V as adj	272	52	29.1 a	ttr	16.7739	****
77 V way adv	57	17	6.1 a	ttr	15.56194	***

78 V n as to wh	25	10	2.7 attr	14.43565 ***
79 V under n	557	89	59.6 attr	14.32134 ***
80 it V to n that	55	16	5.9 attr	14.00873 ***
81 V n off n	114	26	12.2 attr	13.69935 ***
82 it V adj when	5	4	0.5 attr	13.0982 ***
83 it V adj that	57	15	6.1 attr	10.84298 ***
84 it V if	50	13	5.4 attr	9.1692 **
85 nor AUX n	47	12	5 attr	8.15128 **
86 it V prep to-inf	124	24	13.3 attr	8.05034 **
87 it V n for n to-inf	51	12	5.5 attr	6.80816 **
88 it V n adj that	1	1	0.1 attr	4.46894 *
89 it v-link ADJ for n that	1	1	0.1 attr	4.46894 *
90 it V when	47	10	5 attr	4.41373 *
91 V n among pl-n	4	2	0.4 attr	3.84559 *
92 it V adj to-inf	69	12	7.4 attr	2.77369 ns
93 V n toward n	41	8	4.4 attr	2.75194 ns
94 it V n before	6	2	0.6 attr	2.20549 ns
95 neither AUX n	12	3	1.3 attr	1.9488 ns
96 it V n when	17	3	1.8 attr	0.7331 ns
97 it V to n like	74	10	7.9 attr	0.5691 ns
98 V as to wh	12	2	1.3 attr	0.38888 ns
99 there V n adv	36	5	3.9 attr	0.35277 ns
100 it V n adj to-inf	6	1	0.6 attr	0.19444 ns
101 V amount	8873	962	949.8 attr	0.17396 ns

102 V n with adv	14	2	1.5 attr	0.17198 ns
103 it V n if	14	2	1.5 attr	0.17198 ns
104 there V n prep	185	21	19.8 attr	0.07949 ns
105 there V n	296	33	31.7 attr	0.06025 ns
106 V n onto n	96	11	10.3 attr	0.05587 ns
107 V n on to n	17	2	1.8 attr	0.01942 ns
108 there v-link something ADJ with n	13	1	1.4 rep	0.13538 ns
109 V and v	1	0	0.1 rep	0.22645 ns
110 it V adj if	1	0	0.1 rep	0.22645 ns
111 it v n as ADJ that	1	0	0.1 rep	0.22645 ns
112 there v-link anything ADJ in n	1	0	0.1 rep	0.22645 ns
113 there v-link anything ADJ with n	1	0	0.1 rep	0.22645 ns
114 there v-link nothing ADJ in -ing	1	0	0.1 rep	0.22645 ns
115 there v-link nothing ADJ in n	1	0	0.1 rep	0.22645 ns
116 it V n n to-inf	60	5	6.4 rep	0.37897 ns
117 it v-link ADJ of n that	2	0	0.2 rep	0.4529 ns
118 it v-link ADJ of n to-inf	2	0	0.2 rep	0.4529 ns
119 it V adj -ing	3	0	0.3 rep	0.67934 ns
120 it V to n as if/though	3	0	0.3 rep	0.67934 ns
121 it v-link det N -ing	3	0	0.3 rep	0.67934 ns
122 there v-link nothing ADJ with -ing	3	0	0.3 rep	0.67934 ns
123 ADJ between pl-n	45	3	4.8 rep	0.87391 ns
124 there be det N to n	4	0	0.4 rep	0.90579 ns
125 V way prep	5	0	0.5 rep	1.13224 ns

126 v it det N to-inf	5	0	0.5 rep	1.13224 ns
127 ADJ after v	5	0	0.5 rep	1.13224 ns
128 it v-link a adj N that	6	0	0.6 rep	1.35869 ns
129 there v-link something ADJ in n	6	0	0.6 rep	1.35869 ns
130 there be det N in n	7	0	0.7 rep	1.58513 ns
131 it v-link ADJ about n	7	0	0.7 rep	1.58513 ns
132 ADJ as to wh	8	0	0.9 rep	1.81158 ns
133 there v-link nothing ADJ with n	8	0	0.9 rep	1.81158 ns
134 it v-link det N that	9	0	1 rep	2.03803 ns
135 it v-link det N to-inf	9	0	1 rep	2.03803 ns
136 there v-link something ADJ about	12	0	1.3 rep	2.71738 ns
137 ADJ against n	13	0	1.4 rep	2.94382 ns
138 it v n ADJ to-inf	13	0	1.4 rep	2.94382 ns
139 V round n	14	0	1.5 rep	3.17027 ns
140 it v-link ADJ to n that	14	0	1.5 rep	3.17027 ns
141 it v n ADJ that	18	0	1.9 rep	4.07607 *
142 it v-link ADJ wh	42	1	4.5 rep	4.30199 *
143 N as to wh	46	1	4.9 rep	5.02374 *
144 the N be -ing	2166	199	231.9 rep	5.45552 *
145 v it ADJ that	25	0	2.7 rep	5.66121 *
146 ADJ toward/towards n	29	0	3.1 rep	6.56701 *
147 there v-link nothing ADJ about n	30	0	3.2 rep	6.79346 **
148 it v n N to-inf	34	0	3.6 rep	7.69926 **
149 v it ADJ for n to-inf	42	0	4.5 rep	9.51086 **

150 it v-link N -ing	139	5	14.9 rep	9.62066 **
151 under N	1376	112	147.3 rep	10.2387 **
152 V by amount	653	42	69.9 rep	14.33025 ***
153 v it ADJ to-inf	116	2	12.4 rep	14.54616 ***
154 it v-link ADJ if	65	0	7 rep	14.71925 ***
155 it v-link ADJ -ing	68	0	7.3 rep	15.39861 ****
156 ADJ over n	72	0	7.7 rep	16.30442 ****
157 ADJ on n	633	32	67.8 rep	25.72775 *****
158 it v-link ADJ for n to-inf	120	0	12.8 rep	27.17425 *****
159 poss N be that	173	1	18.5 rep	31.11814 *****
160 N towards n	241	3	25.8 rep	35.02343 *****
161 N among pl-n	225	2	24.1 rep	36.56331 *****
162 poss N be -ing	534	17	57.2 rep	42.39343 *****
163 poss N be to-inf	260	1	27.8 rep	50.00372 *****
164 ADJ by n	285	1	30.5 rep	55.48146 *****
165 the N be to-inf	536	10	57.4 rep	64.36494 *****
166 N behind n	303	0	32.4 rep	68.61709 *****
167 the N be that	698	17	74.7 rep	70.30094 *****
168 ADJ wh	734	19	78.6 rep	70.47296 *****
169 it v-link ADJ that	388	2	41.5 rep	71.29069 *****
170 ADJ at n	554	6	59.3 rep	84.67663 *****
171 N against n	480	3	51.4 rep	84.99778 *****
172 it v-link N to-inf	773	9	82.7 rep	115.19457 *****
173 ADJ from n	775	5	83 rep	136.3275 *****

174 ADJ about n	908	8	97.2 rep	147.94247 *****
175 N into n	2408	95	257.8 rep	147.99968 *****
176 it v-link ADJ to-inf	1384	28	148.2 rep	158.38159 *****
177 without N	841	3	90 rep	163.38978 *****
178 ADJ with n	1275	12	136.5 rep	203.81603 *****
179 ADJ -ing	1321	13	141.4 rep	208.32146 *****
180 out of N	2158	42	231 rep	252.90094 *****
181 ADJ as n	2345	38	251 rep	303.69697 *****
182 N over n	1554	5	166.4 rep	305.8228 *****
183 ADJ for n	2554	44	273.4 rep	320.56535 *****
184 N by n	2649	42	283.6 rep	346.78836 *****
185 ADJ in n	3791	94	405.8 rep	376.87605 *****
186 N between pl-n	3476	61	372.1 rep	432.10383 *****
187 ADJ that	3089	28	330.7 rep	499.45404 *****
188 into N	8320	334	890.6 rep	499.84914 *****
189 ADJ of n	4106	74	439.5 rep	503.13375 *****
190 N about n	3599	43	385.3 rep	531.57565 *****
191 N from n	5793	155	620.1 rep	541.79447 *****
192 ADJ to n	6352	125	680 rep	740.1507 *****
193 N as n	5390	61	577 rep	812.18587 *****
194 N at n	6181	61	661.7 rep	974.82468 *****
195 ADJ to-inf	9430	196	1009.5 rep	1062.80053 *****
196 v-link ADJ	10749	236	1150.7 rep	1168.86623 *****
197 N to n	13575	315	1453.2 rep	1421.13066 *****

198 N on n	9683	116	1036.6 rep	1430.53602 *****
199 N with n	9290	89	994.5 rep	1479.5018 *****
200 from N	15276	381	1635.3 rep	1515.68917 *****
201 n ADJ	11748	182	1257.6 rep	1558.17029 *****
202 by N	13889	291	1486.8 rep	1558.84796 *****
203 N for n	13520	185	1447.3 rep	1896.3879 *****
204 N to-inf	20294	418	2172.5 rep	2305.94822 *****
205 on N	24177	415	2588.1 rep	3054.50273 *****
206 at N	22655	327	2425.2 rep	3111.0988 *****
207 N in n	31947	717	3419.9 rep	3438.23376 *****
208 with N	26644	274	2852.2 rep	4164.59139 *****
209 to N	35772	711	3829.4 rep	4169.85632 *****
210 N that	43988	994	4708.9 rep	4724.4538 *****
211 num N	43610	599	4668.4 rep	6145.55381 *****
212 poss N	54076	638	5788.8 rep	8107.45138 *****
213 in N	86268	1716	9234.9 rep	10164.15354 *****
214 a N	85398	1042	9141.8 rep	12726.87767 *****
215 of N	128176	2422	13721.1 rep	15713.92443 *****
216 N of n	130447	2408	13964.2 rep	16214.40673 *****
217 det ADJ n	163242	3361	17474.9 rep	19157.92335 *****
218 n N	171404	3740	18348.7 rep	19410.24432 *****
219 the N	257119	6517	27524.4 rep	26664.02741 *****
220 ADJ n	300860	5927	32206.8 rep	37452.93903 *****

Appendix 5: Table 5.4. Physical science

pattern	MOOC	Physic-sci	Exp.freq	ASSOC.	COLL.STR.LOGL	SIGNIF
1 num N	43610	12563	8749.1	attr	1925.41173	****
2 n N	171404	41263	34387.4	attr	1741.21442	****
3 at N	22655	6606	4545.1	attr	1070.97622	****
4 the N	257119	57828	51583.7	attr	1002.7779	****
5 of N	128176	28692	25714.9	attr	437.69233	****

6 V toward/towards n	721	358	144.6 attr	313.30739	****
7 the N be -ing	2166	749	434.5 attr	247.77084	****
8 N on n	9683	2560	1942.6 attr	229.56415	****
9 V adv	75601	16733	15167.2 attr	202.23382	****
10 from N	15276	3771	3064.7 attr	194.19162	****
11 N at n	6181	1692	1240 attr	190.7807	****
12 N of n	130447	28018	26170.5 attr	167.41304	****
13 V amount	8873	2265	1780.1 attr	155.88517	****
14 on N	24177	5615	4850.4 attr	146.45615	****
15 V at n	14012	3288	2811.1 attr	97.72667	****
16 N over n	1554	472	311.8 attr	92.7025	****
17 v-link ADJ	10749	2560	2156.5 attr	90.76709	****
18 poss N	54076	11731	10848.8 attr	89.55364	****
19 ADJ to n	6352	1573	1274.4 attr	83.18144	****
20 V off n	1000	323	200.6 attr	82.68974	****
21 n ADJ	11748	2739	2356.9 attr	74.89409	****
22 V over n	1661	457	333.2 attr	53.0882	****
23 in N	86268	18119	17307.3 attr	48.42077	****
24 N between pl-n	3476	865	697.4 attr	47.78797	****
25 poss N be -ing	534	173	107.1 attr	44.81691	****
26 to N	35772	7618	7176.7 attr	33.83836	***
27 det ADJ n	163242	33587	32749.9 attr	28.05459	****
28 V around	1211	315	243 attr	25.03027	****
29 it v-link N -ing	139	49	27.9 attr	17.3077	***

30 N from n	5793	1280	1162.2 attr	14.60496 ***
31 N towards n	241	73	48.3 attr	14.1502 ***
32 V by amount	653	170	131 attr	13.59197 ***
33 V that	38971	8105	7818.4 attr	13.18505 ***
34 V n adv	22558	4744	4525.6 attr	13.12104 ***
35 it V to-inf	1525	360	305.9 attr	11.47036 ***
36 V out of n	1440	334	288.9 attr	8.49658 **
37 ADJ at n	554	139	111.1 attr	8.2532 **
38 V n toward n	41	16	8.2 attr	7.75255 **
39 out of N	2158	481	432.9 attr	6.5034 *
40 by N	13889	2907	2786.4 attr	6.48537 *
41 it v-link ADJ of n that	2	2	0.4 attr	6.42534 *
42 it V prep to-inf	124	36	24.9 attr	5.66117 *
43 V n -ing	3876	835	777.6 attr	5.211 *
44 N into n	2408	528	483.1 attr	5.10953 *
45 ADJ between pl-n	45	15	9 attr	4.33906 *
46 N as n	5390	1136	1081.4 attr	3.41823 ns
47 V and v	1	1	0.2 attr	3.21267 ns
48 there v-link nothing ADJ in n	1	1	0.2 attr	3.21267 ns
49 it V to n as if/though	3	2	0.6 attr	3.05409 ns
50 it v-link det N -ing	3	2	0.6 attr	3.05409 ns
51 there v-link something ADJ about n	12	5	2.4 attr	2.8976 ns
52 it V n before	6	3	1.2 attr	2.66376 ns
53 it v-link a adj N that	6	3	1.2 attr	2.66376 ns

ADJ against n	13	5	2.6 attr	2.32284 ns
55 V round n	14	5	2.8 attr	1.84474 ns
56 into N	8320	1715	1669.2 attr	1.56731 ns
57 it V when	47	13	9.4 attr	1.55865 ns
58 V way adv	57	15	11.4 attr	1.29731 ns
59 N in n	31947	6479	6409.3 attr	0.9561 ns
60 V n with adv	14	4	2.8 attr	0.57754 ns
61 it V n if	14	4	2.8 attr	0.57754 ns
62 ADJ over n	72	17	14.4 attr	0.54266 ns
63 it V like	1230	257	246.8 attr	0.52587 ns
64 V n onto n	96	22	19.3 attr	0.47166 ns
65 it v-link N to-inf	773	162	155.1 attr	0.38208 ns
66 the N be to-inf	536	113	107.5 attr	0.34341 ns
67 V between pl-n	241	52	48.3 attr	0.3385 ns
68 it V adj -ing	3	1	0.6 attr	0.28927 ns
69 there be det N in n	7	2	1.4 attr	0.28877 ns
70 ADJ toward/towards n	29	7	5.8 attr	0.28665 ns
71 it V to n that	55	12	11 attr	0.10354 ns
72 V pron-refl	30905	6220	6200.2 attr	0.07962 ns
73 V prep	120158	24141	24106.3 attr	0.06478 ns
74 V n among pl-n	4	1	0.8 attr	0.05751 ns
75 V onto n	229	47	45.9 attr	0.03028 ns
76 it v n N to-inf	34	7	6.8 attr	0.00583 ns
77 v it ADJ that	25	5	5 rep	0.00006 ns

78 it V n for n to-inf	51	10	10.2 rep	0.0066 ns
79 it V n when	17	3	3.4 rep	0.06382 ns
80 it V n that	334	65	67 rep	0.07584 ns
81 it v-link ADJ about n	7	1	1.4 rep	0.15809 ns
82 it V n to-inf	603	117	121 rep	0.16479 ns
83 ADJ n	300860	60264	60359.1 rep	0.20745 ns
84 V n out of n	499	96	100.1 rep	0.21337 ns
85 V n on n	4160	822	834.6 rep	0.23872 ns
86 V from n	8179	1621	1640.9 rep	0.30323 ns
87 ADJ wh	734	141	147.3 rep	0.33623 ns
88 the N be that	698	133	140 rep	0.44782 ns
89 it V adj if	1	0	0.2 rep	0.44784 ns
90 it V n adj that	1	0	0.2 rep	0.44784 ns
91 it v n as ADJ that	1	0	0.2 rep	0.44784 ns
92 it v-link ADJ for n that	1	0	0.2 rep	0.44784 ns
93 there v-link anything ADJ in n	1	0	0.2 rep	0.44784 ns
94 there v-link anything ADJ with n	1	0	0.2 rep	0.44784 ns
95 there v-link nothing ADJ in -ing	1	0	0.2 rep	0.44784 ns
96 it V n n to-inf	60	10	12 rep	0.45145 ns
97 N behind n	303	56	60.8 rep	0.48161 ns
98 it v-link det N that	9	1	1.8 rep	0.51643 ns
99 V across n	657	123	131.8 rep	0.74932 ns
100 V n over n	606	113	121.6 rep	0.77095 ns
101 it V adj to-inf	69	11	13.8 rep	0.7726 ns

102 V n off n	114	19	22.9 rep	0.85778 ns
103 it v-link ADJ of n to-inf	2	0	0.4 rep	0.89569 ns
104 it v-link ADJ for n to-inf	120	20	24.1 rep	0.90292 ns
105 v it ADJ for n to-inf	42	6	8.4 rep	0.94857 ns
106 v it ADJ to-inf	116	19	23.3 rep	1.03111 ns
107 so AUX n	348	62	69.8 rep	1.12745 ns
108 it V if	50	7	10 rep	1.24957 ns
109 there v-link nothing ADJ with -ing	3	0	0.6 rep	1.34353 ns
110 there v-link something ADJ with n	13	1	2.6 rep	1.53586 ns
111 poss N be that	173	28	34.7 rep	1.70926 ns
112 it v-link ADJ if	65	9	13 rep	1.7123 ns
113 there be det N to n	4	0	0.8 rep	1.79137 ns
114 V way prep	5	0	1 rep	2.23922 ns
115 it V adj when	5	0	1 rep	2.23922 ns
116 v it det N to-inf	5	0	1 rep	2.23922 ns
117 ADJ after v	5	0	1 rep	2.23922 ns
118 ADJ by n	285	47	57.2 rep	2.37793 ns
119 it V adj that	57	7	11.4 rep	2.41803 ns
120 it V n adj to-inf	6	0	1.2 rep	2.68706 ns
121 there v-link something ADJ in n	6	0	1.2 rep	2.68706 ns
122 V as if/as though/like	4045	768	811.5 rep	2.96311 ns
123 it v-link ADJ -ing	68	8	13.6 rep	3.31132 ns
124 ADJ as to wh	8	0	1.6 rep	3.58275 ns
125 there v-link nothing ADJ with n	8	0	1.6 rep	3.58275 ns

126 V against n	515	86	103.3	rep	3.80022	ns
127 it v-link det N to-inf	9	0	1.8	rep	4.03059	*
128 N against n	480	78	96.3	rep	4.58074	*
129 V n into n	2117	384	424.7	rep	5.00971	*
130 V through n	3715	691	745.3	rep	5.05052	*
131 V as to wh	12	0	2.4	rep	5.37412	*
132 neither AUX n	12	0	2.4	rep	5.37412	*
133 it v-link ADJ wh	42	3	8.4	rep	5.48916	*
134 it V as if/as though	86	9	17.3	rep	5.74636	*
135 it v n ADJ to-inf	13	0	2.6	rep	5.82197	*
136 V n between pl-n	477	75	95.7	rep	5.9435	*
137 ADJ of n	4106	761	823.8	rep	6.10691	*
138 there V n adv	36	2	7.2	rep	6.20378	*
139 it v-link ADJ to n that	14	0	2.8	rep	6.26981	*
140 ADJ on n	633	102	127	rep	6.49377	*
141 V n as adj	240	33	48.1	rep	6.53026	*
142 N as to wh	46	3	9.2	rep	6.71519	**
143 nor AUX n	47	3	9.4	rep	7.02965	**
144 there v-link nothing ADJ about n	30	1	6	rep	7.43147	**
145 V n on to n	17	0	3.4	rep	7.61335	**
146 it v n ADJ that	18	0	3.6	rep	8.0612	**
147 ADJ as n	2345	416	470.5	rep	8.1352	**
148 it V that	916	150	183.8	rep	8.16129	**
149 it V prep that	988	163	198.2	rep	8.21331	**

150 N by n	2649	473	531.4	rep	8.28288	**
151 V n at n	2749	489	551.5	rep	9.13832	**
152 it V to n like	74	5	14.8	rep	10.36411	**
153 V as adj	272	34	54.6	rep	10.85507	***
154 V n as to wh	25	0	5	rep	11.19612	***
155 ADJ that	3089	545	619.7	rep	11.64468	***
156 ADJ for n	2554	444	512.4	rep	11.83837	***
157 V like n	2439	422	489.3	rep	12.02456	***
158 V by -ing	1306	213	262	rep	12.07089	***
159 V on to n	428	56	85.9	rep	14.39549	***
160 ADJ in n	3791	668	760.6	rep	14.56663	***
161 ADJ -ing	1321	211	265	rep	14.57044	***
162 ADJ about n	908	137	182.2	rep	15.0164	***
163 V n by n	865	129	173.5	rep	15.3703	***
164 ADJ with n	1275	200	255.8	rep	16.17168	***
165 N for n	13520	2521	2712.4	rep	17.2797	***
166 poss N be to-inf	260	26	52.2	rep	19.28271	***
167 it v-link ADJ that	388	45	77.8	rep	19.72471	****
168 V n against n	327	34	65.6	rep	22.19024	****
169 V n from n	3477	588	697.6	rep	22.47459	****
170 V after n	532	65	106.7	rep	22.96246	****
171 V under n	557	68	111.7	rep	24.10602	****
172 ADJ from n	775	103	155.5	rep	24.46399	****
173 V into n	6492	1144	1302.4	rep	24.94476	****

174 N to n	13575	2482	2723.4 rep	27.51538 *****
175 it v-link ADJ to-inf	1384	200	277.7 rep	29.42867 ****
176 under N	1376	196	276.1 rep	31.55908 *****
177 V as n	5053	857	1013.7 rep	31.64478 *****
178 V wh	9865	1736	1979.1 rep	38.71109 *****
179 there V n	296	20	59.4 rep	41.45875 *****
180 without N	841	98	168.7 rep	42.16303 *****
181 ADJ to-inf	9430	1631	1891.9 rep	46.80788 *****
182 N among pl-n	225	9	45.1 rep	50.07574 *****
183 V n prep	30989	5714	6217.1 rep	52.50554 ****
184 V of n	4315	677	865.7 rep	54.69747 *****
185 V n wh	2811	409	563.9 rep	57.61101 *****
186 V on n	12623	2186	2532.5 rep	61.71812 *****
187 V adj	16797	2954	3369.8 rep	66.65978 *****
188 V -ing	8306	1373	1666.4 rep	67.92303 *****
189 a N	85398	16182	17132.7 rep	68.77364 ****
190 V n as n	2388	320	479.1 rep	72.84798 *****
191 there V n prep	185	1	37.1 rep	73.18302 *****
192 V n adj	4469	675	896.6 rep	73.49384 *****
193 N with n	9290	1531	1863.8 rep	78.22194 *****
194 with N	26644	4774	5345.4 rep	79.21798 *****
195 within N	1882	223	377.6 rep	89.69478 ****
196 V n for n	6064	926	1216.6 rep	92.94661 *****
197 V n with n	3903	549	783 rep	95.42842 *****

198 V wh- to-inf	1053	95	211.3 rep	96.05496	****
199 V inf	126215	23949	25321.5 rep	98.23506	****
200 V for n	8354	1322	1676 rep	99.36188	****
201 V pl-n	17558	2967	3522.5 rep	114.9315	****
202 V n of n	38504	6887	7724.8 rep	118.32928	****
203 V n inf	28797	5039	5777.3 rep	123.16701	****
204 N to-inf	20294	3410	4071.4 rep	141.27196	****
205 V n about n	2406	265	482.7 rep	141.42829	****
206 V n in n	12794	2033	2566.8 rep	147.55417	****
207 N about n	3599	444	722 rep	150.48095	****
208 V about n	12588	1982	2525.4 rep	155.78216	****
209 V n that	12715	1978	2550.9 rep	171.90882	****
210 N that	43988	7742	8825 rep	174.05629	****
211 V so/not	7129	980	1430.2 rep	194.57904	****
212 V with n	12945	1970	2597.1 rep	203.34261	****
213 V in n	29565	4941	5931.4 rep	218.31866	****
214 V n to n	7712	1016	1547.2 rep	252.86143	****
215 V n n	27908	4434	5599 rep	323.70703	****
216 V to n	26073	4043	5230.8 rep	362.09061	****
217 V n to-inf	15496	2066	3108.8 rep	484.78369	****
218 V to-inf	97124	16556	19485.2 rep	590.84798	****
219 V	218544	39215	43844.7 rep	674.04964	****
220 V n	156083	25344	31313.7 rep	1573.19863	****

Table 5.5 Social science

pattern	MOOC	Sosci-sci	Exp.freq	ASSOC.	COLL.STR.LOGL	SIGNIF
1 V	218544	44947	35740.2	attr	2874.36704	****
2 V n	156083	32615	25525.5	attr	2323.51853	****
3 V inf	126215	25876	20640.9	attr	1558.13202	****
4 V that	38971	9344	6373.2	attr	1509.08446	****
5 V to-inf	97124	19832	15883.4	attr	1141.47773	****
6 V prep	120158	23143	19650.4	attr	739.15609	****

7 V to n	26073	5945	4263.9	attr	729.2638 ****
8 V so/not	7129	2040	1165.9	attr	671.11965 *****
9 V in n	29565	6487	4835	attr	628.59012 *****
10 V n in n	12794	2965	2092.3	attr	396.82777 *****
11 V n to-inf	15496	3449	2534.2	attr	364.50865 *****
12 V n of n	38504	7585	6296.9	attr	303.29466 *****
13 V on n	12623	2796	2064.3	attr	286.33678 *****
14 V about n	12588	2772	2058.6	attr	273.41477 *****
15 V n prep	30989	6157	5067.9	attr	268.08385 *****
16 V adv	75601	14024	12363.6	attr	264.14508 *****
17 V n n	27908	5540	4564	attr	238.85495 *****
18 V for n	8354	1887	1366.2	attr	217.6839 *****
19 V under n	557	233	91.1	attr	202.32192 *****
20 V n on n	4160	1027	680.3	attr	188.5763 *****
21 V wh	9865	2106	1613.3	attr	167.71998 *****
22 V adj	16797	3379	2746.9	attr	165.20695 *****
23 V n for n	6064	1371	991.7	attr	158.9034 *****
24 V pl-n	17558	3490	2871.4	attr	151.93377 *****
25 V n to n	7712	1672	1261.2	attr	148.38682 *****
26 V with n	12945	2618	2117	attr	134.31423 *****
27 V n against n	327	136	53.5	attr	116.72104 *****
28 ADJ to-inf	9430	1930	1542.2	attr	109.99545 *****
29 N to-inf	20294	3780	3318.8	attr	74.44161 *****
30 V as n	5053	1054	826.4	attr	70.24163 *****

31 V n inf	28797	5240	4709.4	attr	70.08815 *****
32 V n adj	4469	938	730.9	attr	65.63673 *****
33 V against n	515	158	84.2	attr	64.69056 *****
34 V n wh	2811	613	459.7	attr	56.5016 *****
35 N among pl-n	225	81	36.8	attr	50.73082 *****
36 V wh- to-inf	1053	257	172.2	attr	44.66561 *****
37 V pron-refl	30905	5491	5054.1	attr	44.58873 *****
38 V at n	14012	2575	2291.5	attr	40.81364 *****
39 V from n	8179	1554	1337.6	attr	40.29737 *****
40 V n that	12715	2339	2079.4	attr	37.68937 *****
41 ADJ for n	2554	535	417.7	attr	36.83872 *****
42 V n with n	3903	777	638.3	attr	34.19474 *****
43 within N	1882	404	307.8	attr	33.38757 *****
44 V n as n	2388	497	390.5	attr	32.5048 *****
45 without N	841	202	137.5	attr	32.46927 *****
46 V n about n	2406	498	393.5	attr	31.14268 *****
47 it v-link ADJ to-inf	1384	300	226.3	attr	26.53148 *****
48 it V that	916	208	149.8	attr	24.69106 *****
49 V n over n	606	139	99.1	attr	17.48617 ****
50 V -ing	8306	1494	1358.3	attr	15.82663 ****
51 V of n	4315	801	705.7	attr	14.8974 ***
52 V after n	532	120	87	attr	13.6907 ***
53 ADJ about n	908	189	148.5	attr	12.36714 ***
54 v it ADJ to-inf	116	34	19	attr	12.07655 ***

55 V n as adj	240	60	39.2 attr	11.65208 ***
56 N against n	480	106	78.5 attr	10.60358 **
57 V on to n	428	96	70 attr	10.58621 **
58 V n from n	3477	640	568.6 attr	10.38532 **
59 V n out of n	499	109	81.6 attr	10.15184 **
60 V into n	6492	1157	1061.7 attr	10.01535 **
61 V way prep	5	4	0.8 attr	9.83884 **
62 ADJ against n	13	7	2.1 attr	9.54807 **
63 V n at n	2749	509	449.6 attr	9.09029 **
64 under N	1376	267	225 attr	8.93631 **
65 nor AUX n	47	16	7.7 attr	8.73067 **
66 ADJ of n	4106	741	671.5 attr	8.38772 **
67 V n adv	22558	3846	3689.1 attr	7.94754 **
68 V n into n	2117	394	346.2 attr	7.61959 **
69 V n by n	865	172	141.5 attr	7.4739 **
70 it V to n that	55	17	9 attr	7.1151 **
71 it V n for n to-inf	51	16	8.3 attr	6.99405 **
72 it V n n to-inf	60	18	9.8 attr	6.88225 **
73 V by -ing	1306	249	213.6 attr	6.73763 **
74 it v-link ADJ for n to-inf	120	30	19.6 attr	5.82579 *
75 it v n N to-inf	34	11	5.6 attr	5.24403 *
76 V as adj	272	59	44.5 attr	5.24045 *
77 V over n	1661	306	271.6 attr	5.03445 *
78 ADJ after v	5	3	0.8 attr	4.84846 *

79 there v-link nothing ADJ with n	8	4	1.3	attr	4.82394	*
80 so AUX n	348	72	56.9	attr	4.48402	*
81 V between pl-n	241	52	39.4	attr	4.45287	*
82 it V n to-inf	603	118	98.6	attr	4.33928	*
83 V n -ing	3876	680	633.9	attr	3.94249	*
84 v it ADJ for n to-inf	42	12	6.9	attr	3.91692	*
85 there v-link anything ADJ with n	1	1	0.2	attr	3.62142	ns
86 N about n	3599	628	588.6	attr	3.10634	ns
87 N in n	31947	5339	5224.5	attr	3.01095	ns
88 ADJ wh	734	136	120	attr	2.45387	ns
89 v-link ADJ	10749	1818	1757.9	attr	2.44535	ns
90 V n off n	114	25	18.6	attr	2.38963	ns
91 poss N be that	173	36	28.3	attr	2.34984	ns
92 neither AUX n	12	4	2	attr	2.06654	ns
93 V across n	657	121	107.4	attr	1.98012	ns
94 V n on to n	17	5	2.8	attr	1.79578	ns
95 v it det N to-inf	5	2	0.8	attr	1.58417	ns
96 it v-link ADJ wh	42	10	6.9	attr	1.53753	ns
97 V n between pl-n	477	88	78	attr	1.48119	ns
98 V by amount	653	118	106.8	attr	1.3695	ns
99 there V n	296	56	48.4	attr	1.36855	ns
00 it v-link ADJ of n to-inf	2	1	0.3	attr	1.20598	ns
01 it V n adj to-inf	6	2	1	attr	1.03327	ns
02 there v-link something ADJ in n	6	2	1	attr	1.03327	ns

103 ADJ that	3089	526	505.2	attr	1.01688 ns
104 it v-link N to-inf	773	136	126.4	attr	0.85211 ns
105 N towards n	241	44	39.4	attr	0.6196 ns
106 it V adj -ing	3	1	0.5	attr	0.51663 ns
107 it V to n as if/though	3	1	0.5	attr	0.51663 ns
there v-link nothing ADJ with -	3	1	0.5	attr	0.51663 ns
109 it v n ADJ to-inf	13	3	2.1	attr	0.39044 ns
110 it V as if/as though	86	16	14.1	attr	0.30755 ns
111 it V n that	334	58	54.6	attr	0.24582 ns
112 V n with adv	14	3	2.3	attr	0.24466 ns
113 v it ADJ that	25	5	4.1	attr	0.22995 ns
114 it v-link det N to-inf	9	2	1.5	attr	0.20817 ns
115 V n among pl-n	4	1	0.7	attr	0.19418 ns
116 there be det N to n	4	1	0.7	attr	0.19418 ns
117 the N be to-inf	536	91	87.7	attr	0.15098 ns
118 N for n	13520	2227	2211	attr	0.13821 ns
119 N with n	9290	1532	1519.3	attr	0.12768 ns
120 poss N	54076	8871	8843.5	attr	0.10415 ns
121 ADJ at n	554	93	90.6	attr	0.07549 ns
122 V way adv	57	10	9.3	attr	0.05791 ns
123 it v-link ADJ that	388	65	63.5	attr	0.04482 ns
124 it V n when	17	3	2.8	attr	0.02036 ns
125 it V when	47	8	7.7	attr	0.01514 ns

126 it v-link a adj N that	6	1	1	attr	0.00043	ns
127 V n as to wh	25	4	4.1	rep	0.0023	ns
128 it ∨ if	50	8	8.2	rep	0.0046	ns
129 poss N be to-inf	260	42	42.5	rep	0.00762	ns
130 it V adj to-inf	69	11	11.3	rep	0.00861	ns
131 there be det N in n	7	1	1.1	rep	0.02268	ns
132 it v-link ADJ about n	7	1	1.1	rep	0.02268	ns
133 V like n	2439	396	398.9	rep	0.02473	ns
134 V round n	14	2	2.3	rep	0.04536	ns
135 it v-link ADJ to n that	14	2	2.3	rep	0.04536	ns
136 V n toward n	41	6	6.7	rep	0.09128	ns
137 ADJ as to wh	8	1	1.3	rep	0.09314	ns
138 ADJ toward/towards n	29	4	4.7	rep	0.14538	ns
139 it v-link det N that	9	1	1.5	rep	0.19963	ns
140 it V adj that	57	8	9.3	rep	0.23324	ns
141 V and v	1	0	0.2	rep	0.35715	ns
142 it V adj if	1	0	0.2	rep	0.35715	ns
143 it V n adj that	1	0	0.2	rep	0.35715	ns
144 it v n as ADJ that	1	0	0.2	rep	0.35715	ns
145 it v-link ADJ for n that	1	0	0.2	rep	0.35715	ns
146 there v-link anything ADJ in n	1	0	0.2	rep	0.35715	ns
147 there v-link nothing ADJ in -ing	1	0	0.2	rep	0.35715	ns
148 there v-link nothing ADJ in n	1	0	0.2	rep	0.35715	ns
149 N behind n	303	45	49.6	rep	0.5129	ns

150	V as to wh	12	1	2	rep	0.66599	ns
151	there v-link something ADJ about n	12	1	2	rep	0.66599	ns
152	it v-link ADJ of n that	2	0	0.3	rep	0.7143	ns
153	there v-link something ADJ with n	13	1	2.1	rep	0.85628	ns
154	ADJ between pl-n	45	5	7.4	rep	0.99815	ns
155	ADJ in n	3791	597	620	rep	1.02913	ns
156	it V n if	14	1	2.3	rep	1.05943	ns
157	it v-link det N -ing	3	0	0.5	rep	1.07144	ns
158	V out of n	1440	221	235.5	rep	1.08522	ns
159	there V n prep	185	25	30.3	rep	1.14704	ns
160	ADJ by n	285	39	46.6	rep	1.55608	ns
161	the N be that	698	102	114.1	rep	1.59302	ns
162	ADJ over n	72	8	11.8	rep	1.59706	ns
163	it v-link ADJ if	65	7	10.6	rep	1.64835	ns
164	it V to-inf	1525	231	249.4	rep	1.65625	ns
165	it V prep to-inf	124	15	20.3	rep	1.77604	ns
166	it V adj when	5	0	0.8	rep	1.78574	ns
167	V as if/as though/like	4045	630	661.5	rep	1.82024	ns
168	V n onto n	96	11	15.7	rep	1.84283	ns
169	there V n adv	36	3	5.9	rep	1.99798	ns
170	it V n before	6	0	1	rep	2.14289	ns
171	N as to wh	46	4	7.5	rep	2.30552	ns

172 V onto n	229	29	37.5	rep	2.43642	ns
173 there v-link nothing ADJ about n	30	2	4.9	rep	2.5472	ns
174 it v-link ADJ -ing	68	6	11.1	rep	3.28449	ns
175 ADJ -ing	1321	191	216	rep	3.58421	ns
176 poss N be -ing	534	70	87.3	rep	4.35632	*
177 ADJ on n	633	82	103.5	rep	5.68435	*
178 V through n	3715	554	607.5	rep	5.7878	*
179 it v n ADJ that	18	0	2.9	rep	6.42868	*
180 V amount	8873	1358	1451.1	rep	7.28379	**
181 ADJ with n	1275	173	208.5	rep	7.59604	**
182 V off n	1000	127	163.5	rep	10.42628	**
183 it V to n like	74	3	12.1	rep	11.11254	***
184 it v-link N -ing	139	9	22.7	rep	12.34771	***
185 ADJ from n	775	91	126.7	rep	13.12672	***
186 N on n	9683	1450	1583.5	rep	13.82253	***
187 out of N	2158	287	352.9	rep	15.54645	****
188 it V like	1230	145	201.2	rep	20.39648	****
189 V around	1211	140	198	rep	22.24315	****
190 V toward/towards n	721	71	117.9	rep	25.3552	****
191 N as n	5390	740	881.5	rep	28.46697	****
192 ADJ as n	2345	284	383.5	rep	33.37707	****
193 in N	86268	13444	14108.1	rep	38.90308	****
194 N into n	2408	285	393.8	rep	39.08898	****
195 N by n	2649	318	433.2	rep	39.70806	****

196 N from n	5793	768	947.4	rep	42.96956	****
197 N over n	1554	163	254.1	rep	43.75526	****
198 with N	26644	3941	4357.3	rep	49.23759	****
199 N between pl-n	3476	421	568.5	rep	49.47311	****
200 N to n	13575	1898	2220	rep	58.43817	****
201 N that	43988	6542	7193.7	rep	73.38013	****
202 on N	24177	3464	3953.9	rep	75.69385	****
it V prep that	988	59	161.6	rep	98.53314	****
204 the N be -ing	2166	187	354.2	rep	110.57295	****
205 N at n	6181	718	1010.8	rep	110.94325	****
206 into N	8320	1005	1360.6	rep	120.47733	****
207 from N	15276	1977	2498.2	rep	138.81352	****
208 n ADJ	11748	1465	1921.2	rep	139.45822	****
209 by N	13889	1766	2271.4	rep	144.12438	****
210 to N	35772	4786	5850.1	rep	246.52893	****
211 ADJ to n	6352	550	1038.8	rep	322.30113	****
212 at N	22655	2585	3704.9	rep	446.83258	****
213 a N	85398	11687	13965.8	rep	478.16324	****
214 of N	128176	17655	20961.6	rep	678.70655	****
215 N of n	130447	17023	21333	rep	1148.96502	****
216 ADJ n	300860	41684	49202	rep	1578.53626	****
217 num N	43610	4152	7131.9	rep	1725.28992	****
218 n N	171404	21089	28031	rep	2330.2004	****
219 det ADJ n	163242	19158	26696.2	rep	2909.97717	****

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