Text and topology in in human interaction networks: differences among Erdös sectors and correlation of metrics (Supporting Information document)

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(Dated: 11 November 2015)

CONTENTS

This Supporting Information document exposes extensive measurements on interaction networks erived from email lists, Twitter, Participabr and IRC.

SI. MEASURES

A. General characteristics of activity distribution among participants

1. Snapshots of 1000 messages

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	g.	p.	i.	h.
N	116	62	46	8
$N_{\%}$	100.00	53.45	39.66	6.90
M	999.00	120.00	394.00	485.00
$M_{\%}$	100.00	12.01	39.44	48.55
Γ	205.00	58.00	96.00	51.00
$\Gamma_{\%}$	100.00	28.29	46.83	24.88
$\frac{\Gamma}{M}\%$	20.52	48.33	24.37	10.52
$\mu(\gamma)$	2.60	2.24	2.76	2.73
$\sigma(\gamma)$	0.49	0.43	0.43	0.45
$chars$	553435	68986	179933	304516
$chars_{\%}$	100.00	12.47	32.51	55.02
$\frac{spaces}{chars}$	15.60	15.25	15.70	15.61
$\frac{punct}{chars-spaces}$	6.74	6.51	6.33	7.03
$\frac{digits}{chars-spaces}$	1.48	1.89	1.56	1.34
$\frac{letters}{chars-spaces}$	89.92	89.66	90.23	89.80
$\frac{vogals}{letters}$	36.15	35.87	36.01	36.30
$\frac{uppercase}{letters}$	5.34	5.92	5.70	4.99
$tokens$	120402	14759	39269	66375
$tokens_{\%}$	100.00	12.26	32.61	55.13
$tokens \neq$	6.90	16.19	11.09	8.83
$\frac{knownw}{tokens}$	35.19	33.36	35.60	35.36
$\frac{knownw\neq}{knownw}$	10.01	28.86	17.44	13.89
$\frac{stopw}{knownw}$	100.10	99.35	98.18	101.40
$\frac{punct}{tokens}$	20.61	21.48	20.16	20.68
$\frac{contrac}{tokens}$	1.13	0.65	1.07	1.26
$\mu(\overline{tokens})$	3.81	3.88	3.79	3.80
$\sigma(\overline{tokens})$	2.86	3.13	2.87	2.79
$\mu(\overline{knownw})$	5.70	5.79	5.63	5.72
$\sigma(\overline{knownw})$	2.27	2.28	2.22	2.29
$\mu(\overline{knownw \neq})$	6.82	6.38	6.56	6.76
$\sigma(\overline{knownw \neq})$	2.57	2.41	2.46	2.52
$\mu(\overline{stopw})$	2.75	2.67	2.70	2.80
$\sigma(\overline{stopw})$	1.11	1.10	1.12	1.12
$sents$	4121	539	1382	2201
$sents_{\%}$	99.98	13.08	33.53	53.40
$\mu_S(chars)$	133.07	126.55	129.10	137.10
$\sigma_S(chars)$	126.47	169.03	125.80	113.96
$\mu_S(tokens)$	29.26	27.39	28.44	30.22
$\sigma_S(tokens)$	27.72	37.00	27.71	24.89
$\mu_S(knownw)$	9.19	8.08	8.97	9.59
$\sigma_S(knownw)$	8.01	7.85	8.38	7.78
$\mu_S(stopw)$	9.06	7.72	8.60	9.68
$\sigma_S(stopw)$	7.53	6.95	7.32	7.72
$\mu_S(puncts)$	6.06	5.89	5.75	6.30
$\sigma_S(puncts)$	9.83	14.68	9.47	8.47
$msgs$	999	120	394	485
$msgs_{\%}$	100.00	12.01	39.44	48.55
$\mu_M(sents)$	4.96	5.40	4.42	5.28
$\sigma_M(sents)$	5.51	4.58	4.30	6.48
$\mu_M(tokens)$	122.21	124.05	101.06	138.95
$\sigma_M(tokens)$	156.44	170.65	109.44	181.18
$\mu_M(knownw)$	38.43	36.65	31.92	44.17
$\sigma_M(knownw)$	46.12	38.27	37.08	53.24
$\mu_M(stopw)$	36.85	34.42	29.74	43.24
$\sigma_M(stopw)$	45.03	35.03	35.08	52.83
$\mu_M(puncts)$	26.39	27.23	21.28	30.33
$\sigma_M(puncts)$	48.68	63.42	25.34	57.68
$\mu_M(chars)$	551.97	573.65	455.12	625.27
$\sigma_M(chars)$	674.26	794.67	502.11	749.84

TABLE S1. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 0

	g.	p.	i.	h.
N	163	87	53	23
$N_{\%}$	100.00	53.37	32.52	14.11
M	1000.00	144.00	327.00	519.00
$M_{\%}$	100.00	14.55	33.03	52.42
Γ	274.00	67.00	99.00	108.00
$\Gamma_{\%}$	100.00	24.45	36.13	39.42
$\frac{\Gamma}{M}\%$	27.40	46.53	30.28	20.81
$\mu(\gamma)$	2.65	2.46	2.71	2.70
$\sigma(\gamma)$	0.48	0.50	0.46	0.46
$chars$	516456	86876	164545	265035
$chars_{\%}$	100.00	16.82	31.86	51.32
$\frac{spaces}{chars}$	13.36	12.80	13.32	13.57
$\frac{punct}{chars-spaces}$	9.10	9.87	8.45	9.25
$\frac{digits}{chars-spaces}$	2.37	3.59	1.54	2.48
$\frac{letters}{chars-spaces}$	86.53	83.66	88.22	86.43
$\frac{vogals}{letters}$	35.08	33.79	35.55	35.19
$\frac{uppercase}{letters}$	7.12	9.43	6.63	6.68
$tokens$	112922	20294	35087	57543
$tokens_{\%}$	100.00	17.97	31.07	50.96
$tokens \neq$	12.69	21.67	18.02	15.07
$\frac{knownw}{tokens}$	24.46	24.38	25.07	24.12
$\frac{knownw\neq}{knownw}$	7.22	15.54	10.01	10.01
$\frac{stopw}{knownw}$	34.71	29.69	33.41	37.33
$\frac{punct}{tokens}$	29.31	29.51	28.44	29.77
$\frac{contrac}{tokens}$	0.07	0.08	0.03	0.09
$\mu(\overline{tokens})$	3.89	3.66	3.99	3.91
$\sigma(\overline{tokens})$	3.04	2.97	3.05	3.06
$\mu(\overline{knownw})$	4.23	4.16	4.16	4.30
$\sigma(\overline{knownw})$	2.19	2.20	2.15	2.22
$\mu(\overline{knownw \neq})$	5.62	5.14	5.13	5.52
$\sigma(\overline{knownw \neq})$	2.45	2.44	2.38	2.43
$\mu(\overline{stopw})$	2.13	2.10	2.07	2.18
$\sigma(\overline{stopw})$	0.96	0.98	0.92	0.98
$sents$	4915	731	1575	2611
$sents_{\%}$	99.96	14.87	32.03	53.10
$\mu_S(chars)$	103.83	117.72	103.22	100.22
$\sigma_S(chars)$	129.32	183.79	113.99	118.82
$\mu_S(tokens)$	22.98	27.77	22.28	22.04
$\sigma_S(tokens)$	32.33	52.41	25.25	28.39
$\mu_S(knownw)$	4.64	5.16	4.67	4.47
$\sigma_S(knownw)$	6.67	8.71	6.12	6.32
$\mu_S(stopw)$	1.63	1.68	1.59	1.65
$\sigma_S(stopw)$	2.38	2.42	2.21	2.47
$\mu_S(puncts)$	6.74	8.20	6.34	6.56
$\sigma_S(puncts)$	11.58	20.18	8.42	9.74
$msgs$	990	144	327	519
$msgs_{\%}$	100.00	14.55	33.03	52.42
$\mu_M(sents)$	5.96	6.05	5.81	6.02
$\sigma_M(sents)$	2.97	3.83	2.73	2.84
$\mu_M(tokens)$	115.01	141.84	108.18	111.87
$\sigma_M(tokens)$	98.22	179.36	64.58	81.30
$\mu_M(knownw)$	23.97	27.06	23.39	23.47
$\sigma_M(knownw)$	17.82	24.77	13.77	17.69
$\mu_M(stopw)$	8.11	8.54	7.68	8.27
$\sigma_M(stopw)$	7.74	7.10	4.34	9.40
$\mu_M(puncts)$	33.51	41.69	30.56	33.11
$\sigma_M(puncts)$	30.96	58.92	19.90	24.31
$\mu_M(chars)$	521.57	603.14	503.16	510.55
$\sigma_M(chars)$	383.91	580.21	307.30	355.04

TABLE S2. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 2

	g.	**p.**	**i.**	**h.**
N	89	47	35	7
$N_{\%}$	100.00	52.81	39.33	7.87
M	1000.00	115.00	348.00	537.00
$M_{\%}$	100.00	11.50	34.80	53.70
Γ	254.00	87.00	104.00	63.00
$\Gamma_{\%}$	100.00	34.25	40.94	24.80
$\frac{\Gamma}{M}\%$	25.40	75.65	29.89	11.73
$\mu(\gamma)$	2.69	2.70	2.80	2.49
$\sigma(\gamma)$	0.46	0.46	0.40	0.50
$chars$	779504	92973	392241	294290
$chars_{\%}$	100.00	11.93	50.32	37.75
$\frac{spaces}{chars}$	16.04	14.72	16.51	15.84
$\frac{punct}{chars-spaces}$	7.55	7.92	7.72	7.20
$\frac{digits}{chars-spaces}$	2.72	2.85	3.54	1.61
$\frac{letters}{chars-spaces}$	87.71	87.17	86.76	89.14
$\frac{vogals}{letters}$	35.97	35.79	35.75	36.31
$\frac{uppercase}{letters}$	7.81	8.31	8.28	7.06
$tokens$	174202	21314	87883	65006
$tokens_{\%}$	100.00	12.24	50.45	37.32
$tokens \neq$	4.99	13.42	6.97	7.45
$\frac{knownw}{tokens}$	34.80	34.91	32.78	37.50
$\frac{knownw\neq}{knownw}$	7.66	22.59	11.65	12.04
$\frac{stopw}{knownw}$	83.48	77.42	82.70	86.24
$\frac{punct}{tokens}$	24.07	24.76	25.82	21.46
$\frac{contrac}{tokens}$	0.94	0.95	0.90	1.00
$\mu(\overline{tokens})$	3.68	3.64	3.65	3.73
$\sigma(\overline{tokens})$	2.97	2.97	3.12	2.74
$\mu(\overline{knownw})$	5.49	5.51	5.44	5.54
$\sigma(\overline{knownw})$	2.45	2.45	2.40	2.52
$\mu(\overline{knownw \neq})$	6.94	6.51	6.72	6.84
$\sigma(\overline{knownw \neq})$	2.55	2.50	2.46	2.55
$\mu(\overline{stopw})$	2.75	2.66	2.73	2.80
$\sigma(\overline{stopw})$	1.10	1.09	1.10	1.10
$sents$	6348	686	2713	2951
$sents_{\%}$	99.97	10.80	42.72	46.47
$\mu_S(chars)$	121.50	134.25	143.13	98.56
$\sigma_S(chars)$	295.18	265.25	407.73	131.22
$\mu_S(tokens)$	27.45	31.07	32.40	22.03
$\sigma_S(tokens)$	64.86	64.43	87.63	31.14
$\mu_S(knownw)$	7.54	8.53	8.41	6.50
$\sigma_S(knownw)$	11.07	13.07	13.58	7.24
$\mu_S(stopw)$	6.82	7.07	7.53	6.11
$\sigma_S(stopw)$	7.01	7.13	7.59	6.31
$\mu_S(puncts)$	6.61	7.70	8.37	4.73
$\sigma_S(puncts)$	29.24	27.80	40.30	12.66
$msgs$	1000	115	348	537
$msgs_{\%}$	100.00	11.50	34.80	53.70
$\mu_M(sents)$	7.25	6.87	8.65	6.43
$\sigma_M(sents)$	6.15	4.83	7.33	5.37
$\mu_M(tokens)$	176.08	187.21	255.09	122.50
$\sigma_M(tokens)$	264.15	245.50	374.55	138.47
$\mu_M(knownw)$	48.29	51.34	66.22	36.02
$\sigma_M(knownw)$	57.71	58.18	77.58	34.88
$\mu_M(stopw)$	42.78	41.57	57.86	33.26
$\sigma_M(stopw)$	47.13	38.80	62.87	31.85
$\mu_M(puncts)$	43.59	47.65	67.52	27.20
$\sigma_M(puncts)$	103.20	92.43	150.25	52.26
$\mu_M(chars)$	777.34	806.06	1123.88	546.63
$\sigma_M(chars)$	1226.60	1039.90	1807.09	568.07

TABLE S3. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 3

	g.	**p.**	**i.**	**h.**
N	519	463	44	12
$N_{\%}$	100.00	89.21	8.48	2.31
M	855.00	496.00	90.00	262.00
$M_{\%}$	100.00	58.49	10.61	30.90
Γ	633.00	492.00	58.00	83.00
$\Gamma_{\%}$	100.00	77.73	9.16	13.11
$\frac{\Gamma}{M}\%$	74.04	99.19	64.44	31.68
$\mu(\gamma)$	2.14	2.00	2.74	2.54
$\sigma(\gamma)$	0.35	0.00	0.44	0.50
$chars$	961793	697786	100398	163609
$chars_{\%}$	100.00	72.55	10.44	17.01
$\frac{spaces}{chars}$	15.27	14.88	14.78	17.20
$\frac{punct}{chars-spaces}$	11.18	11.62	13.59	7.69
$\frac{digits}{chars-spaces}$	4.36	4.55	3.10	4.33
$\frac{letters}{chars-spaces}$	81.88	81.11	81.13	85.74
$\frac{vogals}{letters}$	32.97	32.45	32.60	35.35
$\frac{uppercase}{letters}$	8.51	8.84	8.79	6.97
$tokens$	229941	169409	24494	36038
$tokens_{\%}$	100.00	73.67	10.65	15.67
$tokens \neq$	8.28	9.79	10.73	9.64
$\frac{knownw}{tokens}$	32.85	33.23	29.88	33.05
$\frac{knownw\neq}{knownw}$	12.10	14.80	17.11	16.42
$\frac{stopw}{knownw}$	62.19	57.64	57.60	86.50
$\frac{punct}{tokens}$	27.73	27.62	35.00	23.31
$\frac{contrac}{tokens}$	0.39	0.25	0.42	1.04
$\mu(\overline{tokens})$	3.49	3.46	3.42	3.68
$\sigma(\overline{tokens})$	2.69	2.60	3.15	2.76
$\mu(\overline{knownw})$	5.30	5.27	5.11	5.55
$\sigma(\overline{knownw})$	2.33	2.25	2.62	2.53
$\mu(\overline{knownw \neq})$	6.74	6.68	6.28	6.60
$\sigma(\overline{knownw \neq})$	2.41	2.37	2.51	2.46
$\mu(\overline{stopw})$	2.75	2.77	2.57	2.76
$\sigma(\overline{stopw})$	1.13	1.13	1.13	1.12
$sents$	5432	3644	456	1334
$sents_{\%}$	99.96	67.06	8.39	24.55
$\mu_S(chars)$	175.74	190.15	218.84	121.38
$\sigma_S(chars)$	615.66	725.84	476.49	150.15
$\mu_S(tokens)$	42.36	46.53	53.72	27.02
$\sigma_S(tokens)$	189.43	225.52	125.50	38.46
$\mu_S(knownw)$	11.93	13.23	14.35	7.52
$\sigma_S(knownw)$	34.29	39.87	31.67	8.68
$\mu_S(stopw)$	7.40	7.66	7.23	6.75
$\sigma_S(stopw)$	10.24	11.53	9.51	5.71
$\mu_S(puncts)$	11.77	12.88	18.81	6.30
$\sigma_S(puncts)$	79.41	94.36	55.23	16.28
$msgs$	848	496	90	262
$msgs_{\%}$	100.00	58.49	10.61	30.90
$\mu_M(sents)$	7.27	8.16	5.99	6.04
$\sigma_M(sents)$	8.59	10.48	4.54	4.49
$\mu_M(tokens)$	272.62	342.71	273.70	139.55
$\sigma_M(tokens)$	504.82	625.09	360.33	116.20
$\mu_M(knownw)$	76.78	97.46	73.24	38.85
$\sigma_M(knownw)$	112.68	136.28	89.23	30.78
$\mu_M(stopw)$	47.10	56.12	36.19	33.78
$\sigma_M(stopw)$	63.93	78.85	30.25	27.77
$\mu_M(puncts)$	76.32	95.30	96.40	33.50
$\sigma_M(puncts)$	210.38	262.51	157.44	40.44
$\mu_M(chars)$	1132.79	1405.79	1113.91	622.46
$\sigma_M(chars)$	1748.97	2128.22	1411.94	489.36

TABLE S4. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 6

	g.	p.	i.	h.
N	183	88	77	18
$N_{\%}$	100.00	48.09	42.08	9.84
M	1000.00	121.00	467.00	410.00
$M_{\%}$	100.00	12.12	46.79	41.08
Γ	221.00	45.00	105.00	71.00
$\Gamma_{\%}$	100.00	20.36	47.51	32.13
$\frac{\Gamma}{M}\%$	22.10	37.19	22.48	17.32
$\mu(\gamma)$	2.71	2.47	2.76	2.77
$\sigma(\gamma)$	0.46	0.50	0.43	0.42
$chars$	439032	65184	206313	167535
$chars_{\%}$	100.00	14.85	46.99	38.16
$\frac{spaces}{chars}$	14.97	14.05	15.18	15.07
$\frac{punct}{chars-spaces}$	8.16	8.30	8.30	7.94
$\frac{digits}{chars-spaces}$	4.50	6.32	4.77	3.44
$\frac{letters}{chars-spaces}$	85.37	83.42	84.94	86.67
$\frac{vogals}{letters}$	31.41	30.47	30.72	32.60
$\frac{uppercase}{letters}$	9.72	9.72	9.80	9.62
$tokens$	91012	14019	42962	34033
$tokens_{\%}$	100.00	15.40	47.20	37.39
$tokens \neq$	16.17	27.27	19.93	19.98
$\frac{knownw}{tokens}$	17.96	18.33	17.71	18.12
$\frac{knownw\neq}{knownw}$	10.99	29.04	14.85	15.37
$\frac{stopw}{knownw}$	36.02	33.59	34.77	38.55
$\frac{punct}{tokens}$	29.38	29.87	29.54	28.97
$\frac{contrac}{tokens}$	0.03	0.06	0.04	0.00
$\mu(\overline{tokens})$	4.02	3.92	3.99	4.10
$\sigma(\overline{tokens})$	3.62	3.54	3.61	3.68
$\mu(\overline{knownw})$	3.93	4.28	3.89	3.82
$\sigma(\overline{knownw})$	2.13	2.33	2.10	2.07
$\mu(\overline{knownw \neq})$	5.51	5.17	5.23	5.16
$\sigma(\overline{knownw \neq})$	2.46	2.36	2.41	2.44
$\mu(\overline{stopw})$	1.66	1.71	1.60	1.70
$\sigma(\overline{stopw})$	0.97	0.96	0.97	0.97
$sents$	3210	440	1629	1143
$sents_{\%}$	99.94	13.70	50.72	35.59
$\mu_S(chars)$	135.39	147.01	125.07	145.39
$\sigma_S(chars)$	169.22	188.21	151.99	182.34
$\mu_S(tokens)$	28.36	31.87	26.38	29.78
$\sigma_S(tokens)$	40.95	48.82	40.20	38.27
$\mu_S(knownw)$	4.31	4.65	3.89	4.77
$\sigma_S(knownw)$	7.08	7.71	6.26	7.83
$\mu_S(stopw)$	1.65	1.74	1.44	1.91
$\sigma_S(stopw)$	2.62	2.61	2.23	3.06
$\mu_S(puncts)$	8.34	9.53	7.80	8.63
$\sigma_S(puncts)$	14.82	17.79	15.27	12.66
$msgs$	998	121	467	410
$msgs_{\%}$	100.00	12.12	46.79	41.08
$\mu_M(sents)$	4.17	4.60	4.42	3.74
$\sigma_M(sents)$	3.36	4.57	3.25	3.01
$\mu_M(tokens)$	92.14	116.83	92.97	83.91
$\sigma_M(tokens)$	100.80	150.09	96.14	85.49
$\mu_M(knownw)$	14.82	17.85	14.56	14.22
$\sigma_M(knownw)$	18.18	26.13	15.96	17.60
$\mu_M(stopw)$	5.30	6.31	5.02	5.32
$\sigma_M(stopw)$	6.69	7.94	6.15	6.84
$\mu_M(puncts)$	26.82	34.69	27.21	24.05
$\sigma_M(puncts)$	32.43	49.03	31.90	25.81
$\mu_M(chars)$	439.89	538.64	441.75	408.62
$\sigma_M(chars)$	420.57	607.79	386.04	384.61

TABLE S5. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 7

	g.	p.	i.	h.
N	160	99	52	9
$N_{\%}$	100.00	61.88	32.50	5.62
M	990.00	128.00	315.00	544.00
$M_{\%}$	100.00	12.97	31.91	55.12
Γ	201.00	74.00	59.00	68.00
$\Gamma_{\%}$	100.00	36.82	29.35	33.83
$\frac{\Gamma}{M}\%$	20.30	57.81	18.73	12.50
$\mu(\gamma)$	2.64	2.28	2.88	2.82
$\sigma(\gamma)$	0.48	0.45	0.32	0.38
$chars$	572130	142137	143038	286955
$chars_{\%}$	100.00	24.84	25.00	50.16
$\frac{spaces}{chars}$	16.17	13.98	16.93	16.88
$\frac{punct}{chars-spaces}$	8.76	11.92	6.50	8.26
$\frac{digits}{chars-spaces}$	3.68	4.13	5.57	2.51
$\frac{letters}{chars-spaces}$	85.69	82.32	85.97	87.27
$\frac{vogals}{letters}$	34.45	30.60	35.36	35.86
$\frac{uppercase}{letters}$	8.02	18.81	4.19	4.69
$tokens$	131582	33585	30534	67464
$tokens_{\%}$	100.00	25.52	23.21	51.27
$tokens \neq$	8.02	13.94	15.78	8.03
$\frac{knownw}{tokens}$	33.87	34.18	33.73	33.78
$\frac{knownw\neq}{knownw}$	10.83	19.25	24.01	13.78
$\frac{stopw}{knownw}$	83.36	44.56	96.08	97.14
$\frac{punct}{tokens}$	24.84	31.17	19.20	24.24
$\frac{contrac}{tokens}$	1.28	0.26	1.31	1.77
$\mu(\overline{tokens})$	3.58	3.58	3.82	3.47
$\sigma(\overline{tokens})$	2.68	2.78	2.87	2.53
$\mu(\overline{knownw})$	5.33	5.05	5.52	5.39
$\sigma(\overline{knownw})$	2.25	2.32	2.22	2.21
$\mu(\overline{knownw \neq})$	6.62	6.22	6.42	6.57
$\sigma(\overline{knownw \neq})$	2.50	2.47	2.43	2.42
$\mu(\overline{stopw})$	2.78	2.71	2.78	2.80
$\sigma(\overline{stopw})$	1.12	1.10	1.11	1.13
$sents$	3806	594	942	2272
$sents_{\%}$	99.95	15.60	24.74	59.66
$\mu_S(chars)$	148.95	237.69	150.63	124.93
$\sigma_S(chars)$	300.68	599.82	296.40	135.40
$\mu_S(tokens)$	34.59	56.57	32.42	29.71
$\sigma_S(tokens)$	73.91	153.43	58.49	37.76
$\mu_S(knownw)$	9.95	12.59	9.93	9.26
$\sigma_S(knownw)$	13.49	25.38	9.10	9.99
$\mu_S(stopw)$	8.67	7.54	9.37	8.67
$\sigma_S(stopw)$	7.53	7.85	8.00	7.21
$\mu_S(puncts)$	8.60	17.65	6.23	7.22
$\sigma_S(puncts)$	30.25	65.09	19.34	15.62
$msgs$	987	128	315	544
$msgs_{\%}$	100.00	12.97	31.91	55.12
$\mu_M(sents)$	4.70	5.49	3.96	4.93
$\sigma_M(sents)$	4.56	5.58	3.14	4.91
$\mu_M(tokens)$	135.20	263.37	98.49	126.29
$\sigma_M(tokens)$	274.84	622.60	130.08	176.98
$\mu_M(knownw)$	38.96	58.70	30.24	39.37
$\sigma_M(knownw)$	55.82	99.18	30.62	51.57
$\mu_M(stopw)$	32.75	34.80	27.50	35.31
$\sigma_M(stopw)$	37.40	50.55	27.99	38.20
$\mu_M(puncts)$	34.85	82.50	19.91	32.28
$\sigma_M(puncts)$	108.12	258.67	37.96	62.93
$\mu_M(chars)$	577.08	1109.51	452.24	524.09
$\sigma_M(chars)$	1072.10	2365.00	638.17	674.52

TABLE S6. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 8

	g.	**p.**	**i.**	**h.**
N	349	266	76	7
$N_{\%}$	100.00	76.22	21.78	2.01
M	998.00	373.00	340.00	284.00
$M_{\%}$	100.00	37.41	34.10	28.49
Γ	549.00	337.00	207.00	5.00
$\Gamma_{\%}$	100.00	61.38	37.70	0.91
$\frac{\Gamma}{M}\%$	55.01	90.35	60.88	1.76
$\mu(\gamma)$	2.44	2.41	2.50	2.60
$\sigma(\gamma)$	0.50	0.49	0.50	0.49
$chars$	725760	264396	274737	186627
$chars_{\%}$	100.00	36.43	37.86	25.71
$\frac{spaces}{chars}$	17.14	17.36	16.94	17.13
$\frac{punct}{chars-spaces}$	6.51	7.19	6.71	5.27
$\frac{digits}{chars-spaces}$	4.11	5.77	4.36	1.38
$\frac{letters}{chars-spaces}$	87.32	84.94	86.95	91.23
$\frac{vogals}{letters}$	35.68	35.42	35.61	36.14
$\frac{uppercase}{letters}$	6.38	7.30	6.56	4.94
$tokens$	162131	59649	61984	40499
$tokens_{\%}$	100.00	36.79	38.23	24.98
$tokens \neq$	6.20	10.39	9.53	9.10
$\frac{knownw}{tokens}$	34.97	34.07	34.98	36.27
$\frac{knownw\neq}{knownw}$	7.98	14.82	13.65	15.80
$\frac{stopw}{knownw}$	92.35	85.69	88.19	107.72
$\frac{punct}{tokens}$	20.25	20.82	21.43	17.61
$\frac{contrac}{tokens}$	1.06	0.65	0.78	2.08
$\mu(\overline{tokens})$	3.63	3.59	3.61	3.74
$\sigma(\overline{tokens})$	2.59	2.65	2.61	2.49
$\mu(\overline{knownw})$	5.74	5.73	5.68	5.86
$\sigma(\overline{knownw})$	2.36	2.42	2.35	2.29
$\mu(\overline{knownw \neq})$	6.76	6.57	6.59	6.70
$\sigma(\overline{knownw \neq})$	2.61	2.58	2.52	2.49
$\mu(\overline{stopw})$	2.73	2.69	2.71	2.81
$\sigma(\overline{stopw})$	1.09	1.08	1.11	1.07
$sents$	5012	2037	2001	976
$sents_{\%}$	99.96	40.63	39.91	19.47
$\mu_S(chars)$	143.30	128.29	135.77	189.77
$\sigma_S(chars)$	178.91	170.13	182.16	182.23
$\mu_S(tokens)$	32.36	29.30	30.99	41.52
$\sigma_S(tokens)$	44.12	44.22	44.92	40.87
$\mu_S(knownw)$	9.48	8.05	9.09	13.23
$\sigma_S(knownw)$	9.92	7.60	9.88	12.90
$\mu_S(stopw)$	9.20	7.32	8.24	15.06
$\sigma_S(stopw)$	9.74	7.17	7.64	14.70
$\mu_S(puncts)$	6.57	6.11	6.65	7.33
$\sigma_S(puncts)$	14.07	12.54	16.99	9.74
$msgs$	997	373	340	284
$msgs_{\%}$	100.00	37.41	34.10	28.49
$\mu_M(sents)$	5.90	6.31	6.76	4.34
$\sigma_M(sents)$	5.83	5.27	7.24	4.06
$\mu_M(tokens)$	164.57	161.23	183.99	145.71
$\sigma_M(tokens)$	206.67	207.77	250.58	131.36
$\mu_M(knownw)$	48.33	44.41	54.13	46.53
$\sigma_M(knownw)$	54.25	45.15	67.74	45.82
$\mu_M(stopw)$	45.54	39.53	47.90	50.60
$\sigma_M(stopw)$	50.37	39.98	60.71	48.12
$\mu_M(puncts)$	34.68	34.36	40.52	28.12
$\sigma_M(puncts)$	54.17	53.39	69.72	25.61
$\mu_M(chars)$	725.53	707.30	806.14	652.95
$\sigma_M(chars)$	879.39	852.82	1075.45	601.20

TABLE S7. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 9

	g.	**p.**	**i.**	**h.**
N	216	123	83	10
$N_{\%}$	100.00	56.94	38.43	4.63
M	1000.00	171.00	484.00	345.00
$M_{\%}$	100.00	17.10	48.40	34.50
Γ	278.00	78.00	113.00	87.00
$\Gamma_{\%}$	100.00	28.06	40.65	31.29
$\frac{\Gamma}{M}\%$	27.80	45.61	23.35	25.22
$\mu(\gamma)$	2.52	2.50	2.51	2.54
$\sigma(\gamma)$	0.50	0.50	0.50	0.50
$chars$	623572	105938	358477	159157
$chars_{\%}$	100.00	16.99	57.49	25.52
$\frac{spaces}{chars}$	15.22	14.32	15.60	14.94
$\frac{punct}{chars-spaces}$	5.91	6.26	5.70	6.13
$\frac{digits}{chars-spaces}$	1.57	1.61	1.67	1.30
$\frac{letters}{chars-spaces}$	90.61	90.12	90.76	90.60
$\frac{vogals}{letters}$	37.71	37.52	37.72	37.82
$\frac{uppercase}{letters}$	4.06	4.23	3.90	4.31
$tokens$	130342	21927	73976	34440
$tokens_{\%}$	100.00	16.82	56.75	26.42
$tokens \neq$	7.44	18.16	9.11	11.16
$\frac{knownw}{tokens}$	35.53	36.94	35.06	35.63
$\frac{knownw\neq}{knownw}$	9.89	26.17	12.95	18.55
$\frac{stopw}{knownw}$	92.11	77.90	94.76	95.88
$\frac{punct}{tokens}$	20.06	21.39	19.69	19.99
$\frac{contrac}{tokens}$	0.78	0.62	0.58	1.30
$\mu(\overline{tokens})$	3.98	4.06	4.01	3.86
$\sigma(\overline{tokens})$	2.98	3.04	3.04	2.78
$\mu(\overline{knownw})$	6.00	6.05	6.06	5.82
$\sigma(\overline{knownw})$	2.64	2.72	2.67	2.53
$\mu(\overline{knownw \neq})$	6.86	6.60	6.74	6.66
$\sigma(\overline{knownw \neq})$	2.62	2.59	2.59	2.55
$\mu(\overline{stopw})$	2.78	2.74	2.78	2.81
$\sigma(\overline{stopw})$	1.07	1.07	1.07	1.05
$sents$	4844	764	2719	1363
$sents_{\%}$	99.96	15.77	56.11	28.13
$\mu_S(chars)$	127.23	137.24	130.19	115.52
$\sigma_S(chars)$	114.50	131.16	118.23	94.14
$\mu_S(tokens)$	26.92	28.71	27.21	25.28
$\sigma_S(tokens)$	27.29	30.06	28.90	21.70
$\mu_S(knownw)$	8.15	8.82	8.20	7.68
$\sigma_S(knownw)$	7.36	10.15	7.12	5.77
$\mu_S(stopw)$	7.89	7.39	8.10	7.75
$\sigma_S(stopw)$	6.68	6.93	6.82	6.22
$\mu_S(puncts)$	5.40	6.15	5.36	5.06
$\sigma_S(puncts)$	10.99	11.01	12.46	7.16
$msgs$	1000	171	484	345
$msgs_{\%}$	100.00	17.10	48.40	34.50
$\mu_M(sents)$	5.78	5.35	6.55	4.91
$\sigma_M(sents)$	7.20	6.39	8.92	4.10
$\mu_M(tokens)$	131.68	129.29	154.06	101.47
$\sigma_M(tokens)$	214.57	201.99	269.93	96.95
$\mu_M(knownw)$	40.01	39.77	46.53	30.97
$\sigma_M(knownw)$	67.19	67.00	83.26	31.52
$\mu_M(stopw)$	37.80	32.75	45.12	30.04
$\sigma_M(stopw)$	64.94	53.21	83.32	30.50
$\mu_M(puncts)$	27.17	28.26	30.99	21.28
$\sigma_M(puncts)$	47.56	47.81	58.95	22.18
$\mu_M(chars)$	622.09	618.25	739.37	459.46
$\sigma_M(chars)$	1054.80	1022.33	1322.30	456.30

TABLE S8. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 10

	g.	**p.**	**i.**	**h.**
N	76	48	22	6
$N_{\%}$	100.00	63.16	28.95	7.89
M	1000.00	99.00	337.00	564.00
$M_{\%}$	100.00	9.90	33.70	56.40
Γ	278.00	60.00	177.00	41.00
$\Gamma_{\%}$	100.00	21.58	63.67	14.75
$\frac{\Gamma}{M}\%$	27.80	60.61	52.52	7.27
$\mu(\gamma)$	2.67	2.45	2.75	2.63
$\sigma(\gamma)$	0.47	0.50	0.43	0.48
$chars$	1541843	94451	852580	594812
$chars_{\%}$	100.00	6.13	55.30	38.58
$\frac{spaces}{chars}$	16.56	16.49	16.91	16.07
$\frac{punct}{chars-spaces}$	4.05	4.68	4.49	3.31
$\frac{digits}{chars-spaces}$	1.09	1.47	1.34	0.69
$\frac{letters}{chars-spaces}$	92.63	91.54	91.76	94.03
$\frac{vogals}{letters}$	37.20	36.91	37.05	37.45
$\frac{uppercase}{letters}$	4.70	4.97	5.45	3.62
$tokens$	323627	19431	182163	122035
$tokens_{\%}$	100.00	6.00	56.29	37.71
$tokens \neq$	4.80	19.92	5.99	7.54
$\frac{knownw}{tokens}$	38.64	38.44	38.34	39.13
$\frac{knownw\neq}{knownw}$	7.57	33.61	9.97	13.15
$\frac{stopw}{knownw}$	100.77	93.03	95.39	109.85
$\frac{punct}{tokens}$	14.55	17.36	15.48	12.70
$\frac{contrac}{tokens}$	0.51	0.66	0.34	0.74
$\mu(\overline{tokens})$	3.90	3.97	3.82	4.02
$\sigma(\overline{tokens})$	2.69	2.82	2.66	2.70
$\mu(\overline{knownw})$	6.04	6.12	5.92	6.21
$\sigma(\overline{knownw})$	2.54	2.62	2.53	2.52
$\mu(\overline{knownw \neq})$	7.35	6.94	7.20	7.27
$\sigma(\overline{knownw \neq})$	2.68	2.64	2.67	2.63
$\mu(\overline{stopw})$	2.79	2.79	2.76	2.83
$\sigma(\overline{stopw})$	1.08	1.07	1.07	1.10
$sents$	13132	833	6894	5407
$sents_{\%}$	99.98	6.34	52.49	41.17
$\mu_S(chars)$	115.88	111.76	121.92	108.78
$\sigma_S(chars)$	92.51	90.71	96.30	87.16
$\mu_S(tokens)$	24.65	23.34	26.43	22.57
$\sigma_S(tokens)$	20.18	19.35	21.47	18.30
$\mu_S(knownw)$	7.77	7.13	7.93	7.65
$\sigma_S(knownw)$	6.13	5.77	6.36	5.87
$\mu_S(stopw)$	8.65	7.49	8.73	8.72
$\sigma_S(stopw)$	6.97	6.64	7.26	6.63
$\mu_S(puncts)$	3.59	4.06	4.09	2.87
$\sigma_S(puncts)$	5.14	5.15	5.43	4.63
$msgs$	1000	99	337	564
$msgs_{\%}$	100.00	9.90	33.70	56.40
$\mu_M(sents)$	14.09	9.26	21.39	10.57
$\sigma_M(sents)$	16.37	9.35	22.72	10.15
$\mu_M(tokens)$	325.77	197.90	542.84	218.51
$\sigma_M(tokens)$	422.68	197.20	607.01	217.38
$\mu_M(knownw)$	102.78	60.42	163.11	74.17
$\sigma_M(knownw)$	128.42	58.85	181.29	75.41
$\mu_M(stopw)$	113.05	62.70	177.92	83.13
$\sigma_M(stopw)$	141.87	64.40	199.76	85.21
$\mu_M(puncts)$	48.74	35.38	85.54	29.09
$\sigma_M(puncts)$	65.60	37.92	92.24	32.68
$\mu_M(chars)$	1539.83	952.44	2527.69	1052.66
$\sigma_M(chars)$	1981.30	946.94	2831.64	1063.39

TABLE S9. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 11

	g.	**p.**	**i.**	**h.**
N	255	148	99	8
$N_{\%}$	100.00	58.04	38.82	3.14
M	996.00	246.00	481.00	268.00
$M_{\%}$	100.00	24.72	48.34	26.93
Γ	528.00	214.00	203.00	111.00
$\Gamma_{\%}$	100.00	40.53	38.45	21.02
$\frac{\Gamma}{M}\%$	53.01	86.99	42.20	41.42
$\mu(\gamma)$	2.33	2.26	2.50	2.18
$\sigma(\gamma)$	0.47	0.44	0.50	0.38
$chars$	1087364	224263	566893	296208
$chars_{\%}$	100.00	20.62	52.13	27.24
$\frac{spaces}{chars}$	17.86	14.03	19.22	18.16
$\frac{punct}{chars-spaces}$	7.83	8.12	8.17	6.94
$\frac{digits}{chars-spaces}$	2.49	2.63	2.12	3.07
$\frac{letters}{chars-spaces}$	87.42	86.98	87.42	87.78
$\frac{vogals}{letters}$	35.97	35.97	36.15	35.64
$\frac{uppercase}{letters}$	6.66	6.70	6.35	7.20
$tokens$	228756	49905	117956	60895
$tokens_{\%}$	100.00	21.82	51.56	26.62
$tokens \neq$	4.59	9.91	5.69	8.83
$\frac{knownw}{tokens}$	35.86	35.21	35.55	36.98
$\frac{knownw\neq}{knownw}$	5.44	13.91	7.94	12.06
$\frac{stopw}{knownw}$	71.93	72.05	71.93	71.83
$\frac{punct}{tokens}$	26.63	27.23	27.41	24.62
$\frac{contrac}{tokens}$	0.47	0.45	0.48	0.45
$\mu(\overline{tokens})$	3.82	3.78	3.79	3.89
$\sigma(\overline{tokens})$	3.21	3.22	3.24	3.13
$\mu(\overline{knownw})$	5.78	5.77	5.75	5.83
$\sigma(\overline{knownw})$	2.37	2.34	2.40	2.34
$\mu(\overline{knownw \neq})$	6.92	6.62	6.86	6.89
$\sigma(\overline{knownw \neq})$	2.57	2.51	2.55	2.50
$\mu(\overline{stopw})$	2.71	2.65	2.71	2.75
$\sigma(\overline{stopw})$	1.08	1.07	1.09	1.08
$sents$	6942	1346	3512	2085
$sents_{\%}$	99.99	19.39	50.58	30.03
$\mu_S(chars)$	154.10	165.02	158.17	140.14
$\sigma_S(chars)$	326.53	405.60	335.87	241.83
$\mu_S(tokens)$	32.96	37.09	33.59	29.21
$\sigma_S(tokens)$	77.22	109.22	76.77	46.92
$\mu_S(knownw)$	10.00	10.89	10.29	8.92
$\sigma_S(knownw)$	19.47	24.24	20.86	12.19
$\mu_S(stopw)$	7.40	8.10	7.45	6.85
$\sigma_S(stopw)$	6.92	8.07	6.58	6.63
$\mu_S(puncts)$	8.78	10.11	9.21	7.20
$\sigma_S(puncts)$	37.58	51.10	39.10	20.90
$msgs$	995	246	481	268
$msgs_{\%}$	100.00	24.72	48.34	26.93
$\mu_M(sents)$	7.88	6.31	8.19	8.77
$\sigma_M(sents)$	8.56	4.80	10.04	8.17
$\mu_M(tokens)$	231.31	203.93	246.73	228.79
$\sigma_M(tokens)$	342.52	322.50	394.25	244.98
$\mu_M(knownw)$	70.23	59.91	75.62	70.03
$\sigma_M(knownw)$	94.74	77.28	111.29	73.91
$\mu_M(stopw)$	51.24	43.96	54.03	52.89
$\sigma_M(stopw)$	58.82	35.17	68.91	55.85
$\mu_M(puncts)$	62.31	56.19	68.41	56.97
$\sigma_M(puncts)$	144.45	139.69	171.74	80.59
$\mu_M(chars)$	1091.36	910.45	1176.93	1103.85
$\sigma_M(chars)$	1511.77	1232.84	1758.14	1224.29

TABLE S10. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 12

	g.	p.	i.	h.
N	410	376	23	11
$N_{\%}$	100.00	91.71	5.61	2.68
M	989.00	402.00	68.00	490.00
$M_{\%}$	100.00	41.88	7.08	51.04
Γ	534.00	387.00	22.00	125.00
$\Gamma_{\%}$	100.00	72.47	4.12	23.41
$\frac{\Gamma}{M}\%$	53.99	96.27	32.35	25.51
$\mu(\gamma)$	2.19	2.00	2.95	2.64
$\sigma(\gamma)$	0.39	0.00	0.21	0.48
$chars$	1130382	713909	47644	368829
$chars_{\%}$	100.00	63.16	4.21	32.63
$\frac{spaces}{chars}$	20.70	22.99	15.37	16.97
$\frac{punct}{chars-spaces}$	7.29	7.37	12.35	6.47
$\frac{digits}{chars-spaces}$	5.79	7.90	4.97	2.10
$\frac{letters}{chars-spaces}$	82.99	79.59	80.56	89.41
$\frac{vogals}{letters}$	32.09	29.59	34.41	35.82
$\frac{uppercase}{letters}$	7.95	10.35	5.18	4.44
$tokens$	222663	135704	10229	76731
$tokens_{\%}$	100.00	60.95	4.59	34.46
$tokens \neq$	19.97	28.75	20.23	8.65
$\frac{knownw}{tokens}$	27.19	21.84	29.92	36.31
$\frac{knownw\neq}{knownw}$	11.42	14.58	34.89	13.63
$\frac{stopw}{knownw}$	79.03	57.14	83.04	101.88
$\frac{punct}{tokens}$	20.58	21.27	27.81	18.39
$\frac{contrac}{tokens}$	0.62	0.10	0.67	1.53
$\mu(\overline{tokens})$	3.97	4.01	3.86	3.91
$\sigma(\overline{tokens})$	3.62	3.95	3.81	2.92
$\mu(\overline{knownw})$	5.12	4.62	5.29	5.64
$\sigma(\overline{knownw})$	2.48	2.49	2.54	2.33
$\mu(\overline{knownw \neq})$	6.62	6.07	6.26	6.98
$\sigma(\overline{knownw \neq})$	2.61	2.56	2.50	2.52
$\mu(\overline{stopw})$	2.78	2.71	2.71	2.82
$\sigma(\overline{stopw})$	1.09	1.04	1.09	1.12
$sents$	5869	2449	305	3117
$sents_{\%}$	99.97	41.71	5.20	53.09
$\mu_S(chars)$	188.11	283.01	154.72	116.69
$\sigma_S(chars)$	352.94	502.79	262.25	129.90
$\mu_S(tokens)$	37.95	55.43	33.55	24.63
$\sigma_S(tokens)$	98.13	145.73	53.12	27.39
$\mu_S(knownw)$	8.23	8.07	8.96	8.28
$\sigma_S(knownw)$	14.83	20.78	11.58	7.87
$\mu_S(stopw)$	7.13	5.95	7.30	8.03
$\sigma_S(stopw)$	6.57	6.92	6.55	6.13
$\mu_S(puncts)$	7.82	11.81	9.34	4.54
$\sigma_S(puncts)$	30.78	45.23	21.91	10.28
$msgs$	960	402	68	490
$msgs_{\%}$	100.00	41.88	7.08	51.04
$\mu_M(sents)$	7.04	7.03	5.43	7.28
$\sigma_M(sents)$	9.94	8.07	5.16	11.67
$\mu_M(tokens)$	233.62	338.31	151.68	159.09
$\sigma_M(tokens)$	441.81	582.91	175.60	289.66
$\mu_M(knownw)$	50.82	49.35	40.71	53.43
$\sigma_M(knownw)$	87.75	80.13	46.79	97.43
$\mu_M(stopw)$	43.05	36.23	32.32	50.13
$\sigma_M(stopw)$	76.87	49.45	41.79	96.04
$\mu_M(puncts)$	49.20	72.18	42.87	31.21
$\sigma_M(puncts)$	110.62	152.16	62.51	60.61
$\mu_M(chars)$	1175.54	1775.50	699.03	749.44
$\sigma_M(chars)$	1736.65	2037.58	814.73	1379.21

TABLE S11. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 13

	g.	p.	i.	h.
N	332	134	189	9
$N_{\%}$	100.00	40.36	56.93	2.71
M	995.00	190.00	639.00	166.00
$M_{\%}$	100.00	19.10	64.22	16.68
Γ	603.00	187.00	397.00	19.00
$\Gamma_{\%}$	100.00	31.01	65.84	3.15
$\frac{\Gamma}{M}\%$	60.60	98.42	62.13	11.45
$\mu(\gamma)$	2.31	2.01	2.44	2.47
$\sigma(\gamma)$	0.46	0.10	0.50	0.50
$chars$	900140	250570	548772	100798
$chars_{\%}$	100.00	27.84	60.97	11.20
$\frac{spaces}{chars}$	18.22	16.45	18.60	20.59
$\frac{punct}{chars-spaces}$	6.12	6.38	6.15	5.22
$\frac{digits}{chars-spaces}$	4.17	3.34	4.60	3.92
$\frac{letters}{chars-spaces}$	87.46	87.84	87.02	88.89
$\frac{vogals}{letters}$	35.08	33.43	35.58	36.65
$\frac{uppercase}{letters}$	8.68	13.67	7.01	4.94
$tokens$	197570	55525	120380	21667
$tokens_{\%}$	100.00	28.10	60.93	10.97
$tokens \neq$	6.59	12.62	7.25	16.04
$\frac{knownw}{tokens}$	35.68	36.92	35.10	35.73
$\frac{knownw\neq}{knownw}$	8.42	17.62	10.35	26.55
$\frac{stopw}{knownw}$	86.63	75.21	89.36	101.98
$\frac{punct}{tokens}$	19.45	20.06	19.76	16.15
$\frac{contrac}{tokens}$	0.64	0.36	0.70	1.03
$\mu(\overline{tokens})$	3.65	3.69	3.63	3.62
$\sigma(\overline{tokens})$	2.57	2.59	2.58	2.46
$\mu(\overline{knownw})$	5.55	5.51	5.57	5.52
$\sigma(\overline{knownw})$	2.39	2.47	2.37	2.28
$\mu(\overline{knownw \neq})$	6.81	6.61	6.73	6.51
$\sigma(\overline{knownw \neq})$	2.60	2.58	2.55	2.45
$\mu(\overline{stopw})$	2.78	2.77	2.79	2.75
$\sigma(\overline{stopw})$	1.08	1.06	1.09	1.09
$sents$	6903	1782	4292	831
$sents_{\%}$	99.97	25.81	62.16	12.03
$\mu_S(chars)$	128.78	139.09	126.25	119.47
$\sigma_S(chars)$	192.81	214.36	180.30	204.92
$\mu_S(tokens)$	28.62	31.17	28.05	26.07
$\sigma_S(tokens)$	45.63	54.05	43.34	36.11
$\mu_S(knownw)$	8.23	8.56	8.07	8.35
$\sigma_S(knownw)$	10.45	12.33	9.87	8.78
$\mu_S(stopw)$	7.56	6.96	7.61	8.53
$\sigma_S(stopw)$	7.28	6.56	7.18	8.92
$\mu_S(puncts)$	5.57	6.26	5.54	4.21
$\sigma_S(puncts)$	14.86	21.55	12.51	5.14
$msgs$	995	190	639	166
$msgs_{\%}$	100.00	19.10	64.22	16.68
$\mu_M(sents)$	7.83	10.26	7.60	5.92
$\sigma_M(sents)$	6.99	8.86	6.60	4.97
$\mu_M(tokens)$	200.16	293.52	190.02	132.33
$\sigma_M(tokens)$	233.62	359.51	195.06	133.31
$\mu_M(knownw)$	57.52	80.52	54.64	42.25
$\sigma_M(knownw)$	63.04	95.41	53.36	39.68
$\mu_M(stopw)$	51.97	64.96	50.62	42.30
$\sigma_M(stopw)$	51.67	65.12	48.83	40.97
$\mu_M(puncts)$	39.91	59.69	38.58	22.42
$\sigma_M(puncts)$	64.02	115.26	46.13	20.18
$\mu_M(chars)$	902.93	1317.38	856.96	605.54
$\sigma_M(chars)$	1004.60	1459.03	860.78	683.61

TABLE S12. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 15

	g.	**p.**	**i.**	**h.**
N	252	120	117	15
$N_{\%}$	100.00	47.62	46.43	5.95
M	979.00	142.00	381.00	447.00
$M_{\%}$	100.00	14.64	39.28	46.08
Γ	353.00	125.00	148.00	80.00
$\Gamma_{\%}$	100.00	35.41	41.93	22.66
$\frac{\Gamma}{M}\%$	36.06	88.03	38.85	17.90
$\mu(\gamma)$	2.30	2.02	2.50	2.38
$\sigma(\gamma)$	0.46	0.15	0.50	0.48
$chars$	971223	302606	349078	319539
$chars_{\%}$	100.00	31.16	35.94	32.90
$\frac{spaces}{chars}$	15.04	12.84	16.99	15.00
$\frac{punct}{chars-spaces}$	11.70	15.58	10.68	9.03
$\frac{digits}{chars-spaces}$	3.48	5.50	2.56	2.51
$\frac{letters}{chars-spaces}$	82.66	76.87	84.64	86.18
$\frac{vogals}{letters}$	33.79	31.85	34.02	35.23
$\frac{uppercase}{letters}$	8.00	11.04	6.67	6.77
$tokens$	230107	75532	82217	72358
$tokens_{\%}$	100.00	32.82	35.73	31.45
$tokens \neq$	5.76	8.96	7.63	8.41
$\frac{knownw}{tokens}$	32.92	34.10	32.19	32.52
$\frac{knownw\neq}{knownw}$	7.15	11.55	11.52	13.24
$\frac{stopw}{knownw}$	68.99	47.55	74.65	86.08
$\frac{punct}{tokens}$	29.62	33.78	28.97	26.03
$\frac{contrac}{tokens}$	0.68	0.29	0.80	0.95
$\mu(\overline{tokens})$	3.51	3.42	3.45	3.67
$\sigma(\overline{tokens})$	2.78	2.49	2.89	2.92
$\mu(\overline{knownw})$	5.12	4.99	4.99	5.43
$\sigma(\overline{knownw})$	2.45	2.28	2.54	2.50
$\mu(\overline{knownw \neq})$	6.83	6.55	6.60	6.72
$\sigma(\overline{knownw \neq})$	2.61	2.58	2.54	2.56
$\mu(\overline{stopw})$	2.77	2.76	2.74	2.80
$\sigma(\overline{stopw})$	1.13	1.12	1.14	1.13
$sents$	6339	1406	2253	2682
$sents_{\%}$	99.97	22.17	35.53	42.30
$\mu_S(chars)$	151.67	213.71	153.37	117.59
$\sigma_S(chars)$	517.60	998.27	312.12	160.51
$\mu_S(tokens)$	36.32	53.76	36.52	26.99
$\sigma_S(tokens)$	148.95	283.35	98.71	43.75
$\mu_S(knownw)$	10.34	15.07	10.46	7.76
$\sigma_S(knownw)$	46.23	89.72	28.22	12.02
$\mu_S(stopw)$	7.16	7.30	7.61	6.70
$\sigma_S(stopw)$	7.24	8.44	7.06	6.66
$\mu_S(puncts)$	10.78	18.19	10.60	7.03
$\sigma_S(puncts)$	66.89	126.63	46.36	17.92
$msgs$	970	142	381	447
$msgs_{\%}$	100.00	14.64	39.28	46.08
$\mu_M(sents)$	7.48	10.82	6.82	6.97
$\sigma_M(sents)$	12.86	20.48	5.30	14.05
$\mu_M(tokens)$	239.09	533.75	217.79	163.65
$\sigma_M(tokens)$	500.31	1021.12	288.34	327.74
$\mu_M(knownw)$	68.18	149.68	62.45	47.18
$\sigma_M(knownw)$	145.82	315.73	82.84	77.74
$\mu_M(stopw)$	46.18	71.75	44.36	39.60
$\sigma_M(stopw)$	69.81	134.44	41.53	55.76
$\mu_M(puncts)$	71.92	181.29	64.26	43.70
$\sigma_M(puncts)$	204.52	428.20	124.45	121.15
$\mu_M(chars)$	999.15	2129.11	913.90	712.85
$\sigma_M(chars)$	1904.00	3769.90	1033.08	1395.90

TABLE S13. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 16

	g.	**p.**	**i.**	**h.**
N	125	63	43	19
$N_{\%}$	100.00	50.40	34.40	15.20
M	1000.00	109.00	318.00	573.00
$M_{\%}$	100.00	10.90	31.80	57.30
Γ	150.00	42.00	53.00	55.00
$\Gamma_{\%}$	100.00	28.00	35.33	36.67
$\frac{\Gamma}{M}\%$	15.00	38.53	16.67	9.60
$\mu(\gamma)$	2.80	2.76	2.81	2.82
$\sigma(\gamma)$	0.40	0.43	0.39	0.39
$chars$	630149	70362	246202	313585
$chars_{\%}$	100.00	11.17	39.07	49.76
$\frac{spaces}{chars}$	14.32	13.65	14.12	14.62
$\frac{punct}{chars-spaces}$	9.88	9.18	9.71	10.18
$\frac{digits}{chars-spaces}$	5.91	5.66	6.89	5.20
$\frac{letters}{chars-spaces}$	82.33	83.46	81.58	82.68
$\frac{vogals}{letters}$	34.56	34.58	34.13	34.89
$\frac{uppercase}{letters}$	7.86	8.33	8.36	7.37
$tokens$	150381	16681	59347	74354
$tokens_{\%}$	100.00	11.09	39.46	49.44
$tokens \neq$	5.94	16.98	8.28	7.89
$\frac{knownw}{tokens}$	30.57	31.42	30.36	30.55
$\frac{knownw\neq}{knownw}$	7.83	27.57	12.35	11.52
$\frac{stopw}{knownw}$	70.72	67.87	67.76	73.72
$\frac{punct}{tokens}$	29.22	28.61	29.79	28.90
$\frac{contrac}{tokens}$	0.57	0.64	0.48	0.63
$\mu(\overline{tokens})$	3.52	3.58	3.50	3.53
$\sigma(\overline{tokens})$	3.03	2.99	3.03	3.04
$\mu(\overline{knownw})$	5.32	5.63	5.28	5.28
$\sigma(\overline{knownw})$	2.25	2.43	2.21	2.24
$\mu(\overline{knownw \neq})$	6.65	6.37	6.32	6.60
$\sigma(\overline{knownw \neq})$	2.55	2.54	2.42	2.52
$\mu(\overline{stopw})$	2.74	2.70	2.74	2.76
$\sigma(\overline{stopw})$	1.08	1.10	1.09	1.07
$sents$	3392	454	1212	1728
$sents_{\%}$	99.94	13.38	35.71	50.91
$\mu_S(chars)$	184.48	153.80	201.79	180.18
$\sigma_S(chars)$	382.59	220.74	355.59	430.57
$\mu_S(tokens)$	44.34	36.76	48.98	43.03
$\sigma_S(tokens)$	103.46	60.52	93.38	117.92
$\mu_S(knownw)$	11.30	9.30	12.14	11.23
$\sigma_S(knownw)$	19.21	12.32	18.16	21.26
$\mu_S(stopw)$	8.51	6.84	8.93	8.64
$\sigma_S(stopw)$	8.74	6.34	10.33	7.97
$\mu_S(puncts)$	12.96	10.53	14.60	12.44
$\sigma_S(puncts)$	47.47	26.66	39.23	56.16
$msgs$	1000	109	318	573
$msgs_{\%}$	100.00	10.90	31.80	57.30
$\mu_M(sents)$	4.32	5.10	4.75	3.93
$\sigma_M(sents)$	4.46	5.05	5.01	3.94
$\mu_M(tokens)$	151.53	154.29	187.84	130.86
$\sigma_M(tokens)$	299.60	323.47	361.27	251.31
$\mu_M(knownw)$	38.82	39.06	46.74	34.38
$\sigma_M(knownw)$	58.92	55.27	75.26	47.75
$\mu_M(stopw)$	28.52	28.23	33.64	25.74
$\sigma_M(stopw)$	30.87	22.48	39.72	25.87
$\mu_M(puncts)$	44.81	44.77	56.50	38.33
$\sigma_M(puncts)$	123.69	144.09	135.01	111.88
$\mu_M(chars)$	628.93	644.19	772.97	546.08
$\sigma_M(chars)$	1142.63	1136.70	1424.91	942.09

TABLE S14. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 17

	g.	**p.**	**i.**	**h.**
N	111	77	27	7
$N_{\%}$	100.00	69.37	24.32	6.31
M	996.00	91.00	259.00	646.00
$M_{\%}$	100.00	9.14	26.00	64.86
Γ	294.00	62.00	49.00	183.00
$\Gamma_{\%}$	100.00	21.09	16.67	62.24
$\frac{\Gamma}{M}\%$	29.52	68.13	18.92	28.33
$\mu(\gamma)$	2.55	2.29	2.73	2.59
$\sigma(\gamma)$	0.50	0.45	0.44	0.49
$chars$	922859	99269	226361	597229
$chars_{\%}$	100.00	10.76	24.53	64.72
$\frac{spaces}{chars}$	17.04	13.67	18.51	17.04
$\frac{punct}{chars-spaces}$	6.76	13.59	6.65	5.62
$\frac{digits}{chars-spaces}$	2.36	3.79	3.96	1.52
$\frac{letters}{chars-spaces}$	88.56	78.20	87.15	90.88
$\frac{vogals}{letters}$	36.04	33.40	35.91	36.49
$\frac{uppercase}{letters}$	6.13	8.48	6.69	5.58
$tokens$	202425	25043	48812	128571
$tokens_{\%}$	100.00	12.37	24.11	63.52
$tokens \neq$	6.31	14.26	13.04	6.46
$\frac{knownw}{tokens}$	34.42	33.71	33.81	34.78
$\frac{knownw\neq}{knownw}$	8.17	24.15	17.69	9.76
$\frac{stopw}{knownw}$	97.44	56.61	92.84	106.84
$\frac{punct}{tokens}$	20.32	31.97	20.61	17.94
$\frac{contrac}{tokens}$	0.89	0.39	0.68	1.06
$\mu(\overline{tokens})$	3.69	3.27	3.69	3.78
$\sigma(\overline{tokens})$	2.61	2.50	2.62	2.63
$\mu(\overline{knownw})$	5.48	4.94	5.42	5.61
$\sigma(\overline{knownw})$	2.27	2.40	2.22	2.24
$\mu(\overline{knownw \neq})$	6.86	6.34	6.49	6.88
$\sigma(\overline{knownw \neq})$	2.59	2.55	2.49	2.53
$\mu(\overline{stopw})$	2.79	2.68	2.77	2.80
$\sigma(\overline{stopw})$	1.10	1.11	1.11	1.10
$sents$	6903	455	1644	4806
$sents_{\%}$	99.97	6.59	23.81	69.60
$\mu_S(chars)$	132.48	216.70	136.39	123.12
$\sigma_S(chars)$	221.56	583.55	217.04	146.10
$\mu_S(tokens)$	29.34	55.06	29.70	26.77
$\sigma_S(tokens)$	57.98	173.03	44.25	35.38
$\mu_S(knownw)$	9.01	15.73	8.76	8.46
$\sigma_S(knownw)$	14.99	44.84	10.26	9.57
$\mu_S(stopw)$	8.85	9.27	8.42	8.96
$\sigma_S(stopw)$	8.26	9.98	8.16	8.10
$\mu_S(puncts)$	5.98	17.62	6.13	4.82
$\sigma_S(puncts)$	24.58	78.82	15.61	13.48
$msgs$	996	91	259	646
$msgs_{\%}$	100.00	9.14	26.00	64.86
$\mu_M(sents)$	7.83	5.86	7.29	8.33
$\sigma_M(sents)$	8.20	5.55	7.99	8.53
$\mu_M(tokens)$	205.31	276.57	190.04	201.39
$\sigma_M(tokens)$	271.08	413.07	248.48	252.35
$\mu_M(knownw)$	63.08	79.02	56.02	63.67
$\sigma_M(knownw)$	79.93	107.75	71.93	78.00
$\mu_M(stopw)$	60.74	46.00	53.12	65.87
$\sigma_M(stopw)$	72.63	49.37	68.03	76.51
$\mu_M(puncts)$	43.20	89.12	40.15	37.95
$\sigma_M(puncts)$	87.55	192.34	66.22	67.24
$\mu_M(chars)$	924.07	1089.49	872.41	921.48
$\sigma_M(chars)$	1165.79	1382.27	1173.69	1126.51

TABLE S15. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 18

	g.	**p.**	**i.**	**h.**
N	127	69	44	14
$N_{\%}$	100.00	54.33	34.65	11.02
M	999.00	119.00	299.00	581.00
$M_{\%}$	100.00	11.91	29.93	58.16
Γ	319.00	70.00	106.00	143.00
$\Gamma_{\%}$	100.00	21.94	33.23	44.83
$\frac{\Gamma}{M}\%$	31.93	58.82	35.45	24.61
$\mu(\gamma)$	2.51	2.40	2.60	2.49
$\sigma(\gamma)$	0.50	0.49	0.49	0.50
$chars$	514624	89224	112807	312593
$chars_{\%}$	100.00	17.34	21.92	60.74
$\frac{spaces}{chars}$	16.58	14.99	16.15	17.19
$\frac{punct}{chars-spaces}$	6.41	12.34	6.81	4.53
$\frac{digits}{chars-spaces}$	1.16	2.14	1.30	0.82
$\frac{letters}{chars-spaces}$	90.45	83.38	89.92	92.71
$\frac{vogals}{letters}$	35.55	32.93	35.03	36.43
$\frac{uppercase}{letters}$	5.95	8.15	6.18	5.28
$tokens$	115465	21717	25302	68446
$tokens_{\%}$	100.00	18.81	21.91	59.28
$tokens \neq$	7.53	14.88	14.94	8.49
$\frac{knownw}{tokens}$	34.41	31.21	33.61	35.72
$\frac{knownw\neq}{knownw}$	12.24	25.00	26.19	15.44
$\frac{stopw}{knownw}$	107.64	71.42	102.50	119.47
$\frac{punct}{tokens}$	19.49	31.70	20.79	15.13
$\frac{contrac}{tokens}$	1.55	0.73	1.41	1.86
$\mu(\overline{tokens})$	3.64	3.42	3.66	3.71
$\sigma(\overline{tokens})$	2.56	2.73	2.67	2.46
$\mu(\overline{knownw})$	5.61	5.21	5.51	5.75
$\sigma(\overline{knownw})$	2.35	2.52	2.30	2.30
$\mu(\overline{knownw \neq})$	6.83	6.29	6.39	6.85
$\sigma(\overline{knownw \neq})$	2.55	2.49	2.43	2.50
$\mu(\overline{stopw})$	2.72	2.66	2.69	2.74
$\sigma(\overline{stopw})$	1.12	1.11	1.14	1.11
$sents$	4373	474	880	3021
$sents_{\%}$	99.95	10.83	20.11	69.05
$\mu_S(chars)$	116.42	186.74	126.84	102.28
$\sigma_S(chars)$	169.64	394.16	128.03	106.96
$\mu_S(tokens)$	26.41	45.86	28.76	22.66
$\sigma_S(tokens)$	47.75	122.75	29.65	24.53
$\mu_S(knownw)$	8.09	11.80	8.60	7.36
$\sigma_S(knownw)$	9.68	18.64	8.37	7.58
$\mu_S(stopw)$	8.59	9.00	8.62	8.50
$\sigma_S(stopw)$	8.18	8.68	7.78	8.19
$\mu_S(puncts)$	5.15	14.56	5.98	3.43
$\sigma_S(puncts)$	21.53	60.83	10.40	6.48
$msgs$	999	119	299	581
$msgs_{\%}$	100.00	11.91	29.93	58.16
$\mu_M(sents)$	5.33	4.92	3.89	6.16
$\sigma_M(sents)$	6.04	6.77	3.46	6.73
$\mu_M(tokens)$	117.63	184.12	86.10	120.23
$\sigma_M(tokens)$	199.33	450.51	83.32	147.48
$\mu_M(knownw)$	36.12	47.47	25.84	39.08
$\sigma_M(knownw)$	55.92	110.52	26.68	49.18
$\mu_M(stopw)$	36.89	35.31	24.87	43.41
$\sigma_M(stopw)$	50.33	62.86	28.15	54.96
$\mu_M(puncts)$	24.35	59.23	18.83	20.04
$\sigma_M(puncts)$	75.30	203.57	20.36	27.66
$\mu_M(chars)$	512.61	747.73	375.55	534.98
$\sigma_M(chars)$	797.73	1653.93	370.41	664.71

TABLE S16. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 19

2. Snapshots of 2000 messages

	g.	p.	i.	h.
N	149	81	58	10
$N_{\%}$	100.00	54.36	38.93	6.71
M	2000.00	186.00	822.00	992.00
$M_{\%}$	100.00	9.30	41.10	49.60
Γ	347.00	70.00	212.00	65.00
$\Gamma_{\%}$	100.00	20.17	61.10	18.73
$\frac{\Gamma}{M}\%$	17.35	37.63	25.79	6.55
$\mu(\gamma)$	2.76	2.56	2.80	2.88
$\sigma(\gamma)$	0.42	0.50	0.40	0.33
$chars$	1146214	114115	497484	534615
$chars_{\%}$	100.00	9.96	43.40	46.64
$\frac{spaces}{chars}$	16.04	15.37	16.71	15.56
$\frac{punct}{chars-spaces}$	6.90	8.24	7.04	6.47
$\frac{digits}{chars-spaces}$	1.07	1.20	1.06	1.06
$\frac{letters}{chars-spaces}$	90.17	88.42	90.02	90.67
$\frac{vogals}{letters}$	36.50	35.91	36.49	36.64
$\frac{uppercase}{letters}$	4.90	6.89	4.86	4.52
$tokens$	247646	24599	106855	116193
$tokens_{\%}$	100.00	9.93	43.15	46.92
$tokens \neq$	4.51	13.61	6.70	6.33
$\frac{knownw}{tokens}$	35.66	34.84	35.34	36.12
$\frac{knownw\neq}{knownw}$	6.48	22.48	10.66	9.85
$\frac{stopw}{knownw}$	98.11	90.53	97.56	100.15
$\frac{punct}{tokens}$	21.23	24.01	21.65	20.26
$\frac{contrac}{tokens}$	1.15	0.71	1.06	1.33
$\mu(\overline{tokens})$	3.81	3.84	3.81	3.82
$\sigma(\overline{tokens})$	2.81	2.97	2.85	2.75
$\mu(\overline{knownw})$	5.73	5.86	5.73	5.70
$\sigma(\overline{knownw})$	2.25	2.25	2.28	2.22
$\mu(\overline{knownw \neq})$	6.99	6.54	6.85	6.85
$\sigma(\overline{knownw \neq})$	2.53	2.41	2.53	2.46
$\mu(\overline{stopw})$	2.76	2.72	2.72	2.79
$\sigma(\overline{stopw})$	1.11	1.14	1.11	1.09
$sents$	8487	890	3760	3839
$sents_{\%}$	99.98	10.48	44.29	45.22
$\mu_S(chars)$	133.80	126.94	130.91	138.16
$\sigma_S(chars)$	340.26	171.05	489.22	121.35
$\mu_S(tokens)$	29.21	27.71	28.43	30.32
$\sigma_S(tokens)$	65.83	39.31	93.22	26.64
$\mu_S(knownw)$	9.37	8.52	9.08	9.84
$\sigma_S(knownw)$	12.31	7.80	15.99	8.35
$\mu_S(stopw)$	9.06	7.47	8.62	9.86
$\sigma_S(stopw)$	8.47	6.69	9.10	8.12
$\mu_S(puncts)$	6.23	6.71	6.16	6.18
$\sigma_S(puncts)$	28.34	18.95	40.65	8.62
$msgs$	2000	186	822	992
$msgs_{\%}$	100.00	9.30	41.10	49.60
$\mu_M(sents)$	5.11	5.72	5.49	4.68
$\sigma_M(sents)$	9.33	8.99	12.92	4.67
$\mu_M(tokens)$	125.53	133.51	131.60	119.00
$\sigma_M(tokens)$	259.49	288.74	357.60	118.63
$\mu_M(knownw)$	40.26	41.17	42.06	38.60
$\sigma_M(knownw)$	72.41	84.93	95.40	40.89
$\mu_M(stopw)$	37.90	35.41	38.91	37.53
$\sigma_M(stopw)$	54.68	52.86	66.73	42.58
$\mu_M(puncts)$	27.86	32.71	29.56	25.55
$\sigma_M(puncts)$	95.60	111.25	136.53	25.47
$\mu_M(chars)$	571.03	612.19	603.15	536.70
$\sigma_M(chars)$	1233.47	1381.41	1703.99	548.91

TABLE S17. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 0

	g.	**p.**	**i.**	**h.**
N	308	169	118	21
$N_{\%}$	100.00	54.87	38.31	6.82
M	1999.00	277.00	956.00	745.00
$M_{\%}$	100.00	14.00	48.33	37.66
Γ	590.00	126.00	311.00	153.00
$\Gamma_{\%}$	100.00	21.36	52.71	25.93
$\frac{\Gamma}{M}\%$	29.51	45.49	32.53	20.54
$\mu(\gamma)$	2.63	2.48	2.68	2.67
$\sigma(\gamma)$	0.48	0.50	0.47	0.47
$chars$	1088548	144189	547262	397097
$chars_{\%}$	100.00	13.25	50.27	36.48
$\frac{spaces}{chars}$	13.70	13.54	13.66	13.80
$\frac{punct}{chars-spaces}$	9.26	9.61	8.86	9.68
$\frac{digits}{chars-spaces}$	2.96	2.11	2.92	3.33
$\frac{letters}{chars-spaces}$	85.86	86.24	86.26	85.16
$\frac{vogals}{letters}$	35.45	35.14	35.53	35.45
$\frac{uppercase}{letters}$	7.09	8.03	6.94	6.95
$tokens$	239129	31279	120073	87779
$tokens_{\%}$	100.00	13.08	50.21	36.71
$tokens \neq$	9.86	20.45	12.50	12.96
$\frac{knownw}{tokens}$	23.86	24.60	24.20	23.14
$\frac{knownw \neq}{knownw}$	4.69	13.39	6.05	7.28
$\frac{stopw}{knownw}$	34.68	33.73	34.22	35.70
$\frac{punct}{tokens}$	29.79	29.42	28.97	31.05
$\frac{contrac}{tokens}$	0.04	0.05	0.03	0.05
$\mu(\overline{tokens})$	3.85	3.91	3.86	3.83
$\sigma(\overline{tokens})$	3.04	3.21	3.01	3.02
$\mu(\overline{knownw})$	4.12	4.03	4.10	4.18
$\sigma(\overline{knownw})$	2.14	2.14	2.17	2.10
$\mu(\overline{knownw \neq})$	5.59	5.03	5.37	5.34
$\sigma(\overline{knownw \neq})$	2.41	2.32	2.34	2.37
$\mu(\overline{stopw})$	2.06	2.10	2.04	2.08
$\sigma(\overline{stopw})$	0.96	1.00	0.96	0.94
$sents$	10287	1407	5036	3846
$sents_{\%}$	99.98	13.67	48.95	37.38
$\mu_S(chars)$	104.53	101.36	107.50	101.76
$\sigma_S(chars)$	191.06	110.05	169.26	235.95
$\mu_S(tokens)$	23.25	22.24	23.85	22.83
$\sigma_S(tokens)$	47.10	26.75	40.97	58.92
$\mu_S(knownw)$	4.59	4.48	4.76	4.42
$\sigma_S(knownw)$	7.20	5.93	7.70	6.93
$\mu_S(stopw)$	1.59	1.46	1.65	1.57
$\sigma_S(stopw)$	2.40	2.29	2.51	2.29
$\mu_S(puncts)$	6.93	6.54	6.91	7.09
$\sigma_S(puncts)$	17.78	10.01	15.37	22.35
$msgs$	1978	277	956	745
$msgs_{\%}$	100.00	14.00	48.33	37.66
$\mu_M(sents)$	6.19	6.06	6.26	6.16
$\sigma_M(sents)$	3.49	3.81	3.84	2.84
$\mu_M(tokens)$	121.82	113.81	126.51	118.78
$\sigma_M(tokens)$	117.10	73.74	108.11	139.03
$\mu_M(knownw)$	24.84	23.62	26.00	23.80
$\sigma_M(knownw)$	17.94	14.60	19.70	16.56
$\mu_M(stopw)$	8.29	7.40	8.71	8.08
$\sigma_M(stopw)$	5.27	4.75	5.88	4.53
$\mu_M(puncts)$	36.07	33.27	36.43	36.65
$\sigma_M(puncts)$	41.09	23.54	36.87	50.29
$\mu_M(chars)$	550.26	520.45	572.39	532.94
$\sigma_M(chars)$	502.46	340.76	477.30	577.53

TABLE S18. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 2

	g.	**p.**	**i.**	**h.**
N	180	122	52	6
$N_{\%}$	100.00	67.78	28.89	3.33
M	2000.00	274.00	636.00	1090.00
$M_{\%}$	100.00	13.70	31.80	54.50
Γ	446.00	143.00	157.00	146.00
$\Gamma_{\%}$	100.00	32.06	35.20	32.74
$\frac{\Gamma}{M}\%$	22.30	52.19	24.69	13.39
$\mu(\gamma)$	2.73	2.77	2.84	2.58
$\sigma(\gamma)$	0.44	0.42	0.37	0.49
$chars$	1315736	212215	488036	615485
$chars_{\%}$	100.00	16.13	37.09	46.78
$\frac{spaces}{chars}$	15.04	15.59	14.95	14.93
$\frac{punct}{chars-spaces}$	7.52	7.33	7.71	7.43
$\frac{digits}{chars-spaces}$	2.62	2.61	3.39	2.00
$\frac{letters}{chars-spaces}$	87.60	88.09	86.97	87.94
$\frac{vogals}{letters}$	35.92	36.12	35.79	35.95
$\frac{uppercase}{letters}$	8.11	7.91	8.27	8.05
$tokens$	301818	48463	113578	139778
$tokens_{\%}$	100.00	16.06	37.63	46.31
$tokens \neq$	4.84	9.89	6.41	7.13
$\frac{knownw}{tokens}$	35.21	35.30	34.09	36.09
$\frac{knownw \neq}{knownw}$	6.11	16.12	10.72	9.02
$\frac{stopw}{knownw}$	82.02	82.67	82.49	81.44
$\frac{punct}{tokens}$	23.30	23.53	24.64	22.14
$\frac{contrac}{tokens}$	0.78	0.79	0.90	0.69
$\mu(\overline{tokens})$	3.63	3.62	3.58	3.67
$\sigma(\overline{tokens})$	2.76	2.84	2.80	2.70
$\mu(\overline{knownw})$	5.52	5.51	5.47	5.56
$\sigma(\overline{knownw})$	2.39	2.39	2.33	2.43
$\mu(\overline{knownw \neq})$	6.97	6.56	6.78	6.92
$\sigma(\overline{knownw \neq})$	2.58	2.47	2.49	2.56
$\mu(\overline{stopw})$	2.78	2.72	2.74	2.84
$\sigma(\overline{stopw})$	1.09	1.08	1.09	1.09
$sents$	12233	1917	4211	6106
$sents_{\%}$	99.99	15.67	34.42	49.91
$\mu_S(chars)$	106.30	109.26	114.66	99.58
$\sigma_S(chars)$	181.63	136.43	200.90	179.78
$\mu_S(tokens)$	24.68	25.28	26.98	22.90
$\sigma_S(tokens)$	48.86	34.44	54.41	48.59
$\mu_S(knownw)$	7.00	7.17	7.42	6.65
$\sigma_S(knownw)$	9.87	7.93	9.89	10.38
$\mu_S(stopw)$	6.04	6.17	6.41	5.74
$\sigma_S(stopw)$	6.29	6.07	6.08	6.48
$\mu_S(puncts)$	5.75	5.95	6.65	5.07
$\sigma_S(puncts)$	20.62	13.92	23.74	20.03
$msgs$	2000	274	636	1090
$msgs_{\%}$	100.00	13.70	31.80	54.50
$\mu_M(sents)$	7.09	7.94	7.59	6.58
$\sigma_M(sents)$	5.62	5.93	5.68	5.45
$\mu_M(tokens)$	152.26	178.49	180.37	129.27
$\sigma_M(tokens)$	252.69	209.23	253.03	260.06
$\mu_M(knownw)$	43.16	50.64	49.62	37.50
$\sigma_M(knownw)$	47.08	52.97	48.49	43.82
$\mu_M(stopw)$	36.54	42.61	41.86	31.90
$\sigma_M(stopw)$	35.99	40.73	36.45	33.72
$\mu_M(puncts)$	36.37	43.04	45.64	29.29
$\sigma_M(puncts)$	93.56	77.23	107.27	87.95
$\mu_M(chars)$	656.35	772.59	765.20	563.62
$\sigma_M(chars)$	886.58	854.25	928.82	858.20

TABLE S19. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 3

	g.	p.	i.	h.
N	201	98	86	17
$N_{\%}$	100.00	48.76	42.79	8.46
M	1274.00	151.00	607.00	514.00
$M_{\%}$	100.00	11.87	47.72	40.41
Γ	256.00	56.00	145.00	55.00
$\Gamma_{\%}$	100.00	21.88	56.64	21.48
$\frac{\Gamma}{M}\%$	20.09	37.09	23.89	10.70
$\mu(\gamma)$	2.73	2.52	2.77	2.85
$\sigma(\gamma)$	0.44	0.50	0.42	0.35
$chars$	656548	106449	279581	270518
$chars_{\%}$	100.00	16.21	42.58	41.20
$\frac{spaces}{chars}$	15.20	14.80	15.07	15.48
$\frac{punct}{chars-spaces}$	7.11	5.85	7.30	7.40
$\frac{digits}{chars-spaces}$	3.66	2.30	3.40	4.46
$\frac{letters}{chars-spaces}$	87.26	89.89	87.29	86.19
$\frac{vogals}{letters}$	32.40	33.48	31.39	33.03
$\frac{uppercase}{letters}$	8.00	7.60	7.33	8.88
$tokens$	133676	21745	56924	55009
$tokens_{\%}$	100.00	16.27	42.58	41.15
$tokens \neq$	14.94	25.04	18.89	17.54
$\frac{knownw}{tokens}$	20.48	28.94	18.46	19.22
$\frac{knownw\neq}{knownw}$	11.51	31.27	13.01	11.23
$\frac{stopw}{knownw}$	49.44	73.29	47.22	37.46
$\frac{punct}{tokens}$	25.99	21.22	26.57	27.27
$\frac{contrac}{tokens}$	0.14	0.50	0.06	0.08
$\mu(\overline{tokens})$	4.08	4.09	4.09	4.08
$\sigma(\overline{tokens})$	3.44	3.15	3.48	3.50
$\mu(\overline{knownw})$	4.29	5.30	4.13	3.85
$\sigma(\overline{knownw})$	2.37	2.45	2.42	2.09
$\mu(\overline{knownw \neq})$	6.07	6.22	5.40	5.10
$\sigma(\overline{knownw \neq})$	2.56	2.50	2.46	2.39
$\mu(\overline{stopw})$	2.15	2.70	1.92	1.81
$\sigma(\overline{stopw})$	1.19	1.17	1.09	1.08
$sents$	5346	1001	2301	2046
$sents_{\%}$	99.96	18.72	43.03	38.26
$\mu_S(chars)$	121.40	105.29	119.71	131.06
$\sigma_S(chars)$	173.47	100.96	146.91	221.70
$\mu_S(tokens)$	25.02	21.73	24.76	26.90
$\sigma_S(tokens)$	35.63	21.49	34.60	41.66
$\mu_S(knownw)$	4.33	5.34	3.89	4.31
$\sigma_S(knownw)$	5.95	5.23	6.23	5.90
$\mu_S(stopw)$	2.27	3.99	1.96	1.79
$\sigma_S(stopw)$	3.32	4.40	3.21	2.45
$\mu_S(puncts)$	6.51	4.61	6.59	7.34
$\sigma_S(puncts)$	12.23	6.94	12.89	13.34
$msgs$	1272	151	607	514
$msgs_{\%}$	100.00	11.87	47.72	40.41
$\mu_M(sents)$	5.14	7.56	4.72	4.92
$\sigma_M(sents)$	9.82	26.16	4.03	4.07
$\mu_M(tokens)$	105.95	145.41	94.49	107.88
$\sigma_M(tokens)$	192.95	478.80	95.12	116.10
$\mu_M(knownw)$	18.88	36.24	15.39	17.91
$\sigma_M(knownw)$	71.84	201.30	18.07	19.46
$\mu_M(stopw)$	9.54	26.20	7.42	7.14
$\sigma_M(stopw)$	59.87	170.62	11.66	8.09
$\mu_M(puncts)$	27.47	31.28	24.98	29.29
$\sigma_M(puncts)$	37.59	66.30	29.33	34.28
$\mu_M(chars)$	515.98	704.07	460.52	526.22
$\sigma_M(chars)$	955.93	2397.08	447.87	567.75

TABLE S20. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 7

	g.	p.	i.	h.
N	172	110	40	22
$N_{\%}$	100.00	63.95	23.26	12.79
M	885.00	145.00	236.00	503.00
$M_{\%}$	100.00	16.40	26.70	56.90
Γ	169.00	65.00	47.00	57.00
$\Gamma_{\%}$	100.00	38.46	27.81	33.73
$\frac{\Gamma}{M}\%$	19.10	44.83	19.92	11.33
$\mu(\gamma)$	2.63	2.37	2.79	2.79
$\sigma(\gamma)$	0.48	0.48	0.41	0.41
$chars$	421928	88544	108566	224818
$chars_{\%}$	100.00	20.99	25.73	53.28
$\frac{spaces}{chars}$	15.91	15.30	15.97	16.12
$\frac{punct}{chars-spaces}$	7.00	7.02	6.99	7.00
$\frac{digits}{chars-spaces}$	3.21	4.95	2.88	2.68
$\frac{letters}{chars-spaces}$	87.89	86.19	88.25	88.40
$\frac{vogals}{letters}$	35.40	35.00	35.17	35.67
$\frac{uppercase}{letters}$	5.46	6.61	5.72	4.88
$tokens$	93974	19552	23746	50676
$tokens_{\%}$	100.00	20.81	25.27	53.93
$tokens \neq$	9.48	20.97	15.33	10.73
$\frac{knownw}{tokens}$	34.38	33.13	35.10	34.53
$\frac{knownw\neq}{knownw}$	13.66	33.50	24.69	17.42
$\frac{stopw}{knownw}$	95.70	87.94	95.18	98.82
$\frac{punct}{tokens}$	21.31	21.81	20.70	21.41
$\frac{contrac}{tokens}$	1.50	0.94	1.58	1.69
$\mu(\overline{tokens})$	3.70	3.77	3.77	3.65
$\sigma(\overline{tokens})$	2.81	2.88	2.98	2.70
$\mu(\overline{knownw})$	5.52	5.70	5.49	5.47
$\sigma(\overline{knownw})$	2.24	2.35	2.19	2.22
$\mu(\overline{knownw \neq})$	6.65	6.42	6.35	6.46
$\sigma(\overline{knownw \neq})$	2.50	2.46	2.39	2.42
$\mu(\overline{stopw})$	2.80	2.78	2.79	2.81
$\sigma(\overline{stopw})$	1.13	1.11	1.14	1.13
$sents$	3197	626	752	1821
$sents_{\%}$	99.94	19.57	23.51	56.92
$\mu_S(chars)$	130.58	139.95	143.04	122.08
$\sigma_S(chars)$	151.19	182.47	158.82	134.57
$\mu_S(tokens)$	29.40	31.24	31.58	27.84
$\sigma_S(tokens)$	33.88	40.76	34.27	30.89
$\mu_S(knownw)$	9.14	8.91	10.11	8.81
$\sigma_S(knownw)$	9.13	10.02	9.10	8.79
$\mu_S(stopw)$	8.60	8.08	9.36	8.47
$\sigma_S(stopw)$	7.72	8.63	7.91	7.28
$\mu_S(puncts)$	6.27	6.82	6.54	5.97
$\sigma_S(puncts)$	12.14	13.79	13.09	11.07
$msgs$	884	145	236	503
$msgs_{\%}$	100.00	16.40	26.70	56.90
$\mu_M(sents)$	4.51	5.19	4.14	4.48
$\sigma_M(sents)$	4.19	5.25	3.33	4.18
$\mu_M(tokens)$	108.20	136.45	102.52	102.72
$\sigma_M(tokens)$	119.27	159.06	101.87	112.08
$\mu_M(knownw)$	33.83	39.05	33.07	32.68
$\sigma_M(knownw)$	36.10	43.03	32.80	35.25
$\mu_M(stopw)$	30.39	34.38	28.94	29.93
$\sigma_M(stopw)$	33.34	38.85	30.07	32.99
$\mu_M(puncts)$	24.27	30.71	22.44	23.28
$\sigma_M(puncts)$	34.04	48.35	28.14	31.24
$\mu_M(chars)$	475.02	608.93	457.81	444.49
$\sigma_M(chars)$	523.80	680.06	468.75	489.43

TABLE S21. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 8

	g.	**p.**	**i.**	**h.**
N	149	80	61	8
$N_{\%}$	100.00	53.69	40.94	5.37
M	776.00	103.00	316.00	357.00
$M_{\%}$	100.00	13.27	40.72	46.01
Γ	274.00	47.00	81.00	146.00
$\Gamma_{\%}$	100.00	17.15	29.56	53.28
$\frac{\Gamma}{M}\%$	35.31	45.63	25.63	40.90
$\mu(\gamma)$	2.30	2.21	2.48	2.23
$\sigma(\gamma)$	0.46	0.41	0.50	0.42
$chars$	969730	488982	199190	281558
$chars_{\%}$	100.00	50.42	20.54	29.03
$\frac{spaces}{chars}$	13.64	12.22	15.06	15.11
$\frac{punct}{chars-spaces}$	10.36	15.13	5.32	5.37
$\frac{digits}{chars-spaces}$	2.88	4.80	1.17	0.64
$\frac{letters}{chars-spaces}$	85.43	79.38	91.58	91.94
$\frac{vogals}{letters}$	32.43	25.66	38.24	38.81
$\frac{uppercase}{letters}$	11.48	19.99	3.61	3.84
$tokens$	232263	133192	41533	57539
$tokens_{\%}$	100.00	57.35	17.88	24.77
$tokens \neq$	8.21	9.99	12.08	9.97
$\frac{knownw}{tokens}$	35.40	34.02	36.86	37.55
$\frac{knownw\neq}{knownw}$	7.56	7.22	19.66	15.85
$\frac{stopw}{knownw}$	52.09	16.21	96.73	95.72
$\frac{punct}{tokens}$	27.96	35.25	18.43	17.96
$\frac{contrac}{tokens}$	0.36	0.07	0.84	0.68
$\mu(\overline{tokens})$	3.56	3.21	4.00	4.07
$\sigma(\overline{tokens})$	2.66	2.42	2.88	2.87
$\mu(\overline{knownw})$	5.05	4.20	6.03	6.13
$\sigma(\overline{knownw})$	2.54	2.18	2.61	2.56
$\mu(\overline{knownw \neq})$	6.78	6.21	6.81	6.92
$\sigma(\overline{knownw \neq})$	2.64	2.59	2.60	2.61
$\mu(\overline{stopw})$	2.74	2.57	2.78	2.78
$\sigma(\overline{stopw})$	1.08	1.13	1.08	1.06
$sents$	5084	1319	1517	2250
$sents_{\%}$	99.96	25.93	29.83	44.24
$\mu_S(chars)$	188.70	366.26	130.10	123.96
$\sigma_S(chars)$	1353.45	2642.17	117.43	111.11
$\mu_S(tokens)$	45.69	100.99	27.39	25.58
$\sigma_S(tokens)$	422.92	826.72	25.64	24.68
$\mu_S(knownw)$	11.54	20.40	8.72	8.25
$\sigma_S(knownw)$	72.65	141.68	7.73	7.41
$\mu_S(stopw)$	7.52	4.86	8.74	8.24
$\sigma_S(stopw)$	7.89	8.62	7.50	7.30
$\mu_S(puncts)$	12.78	35.60	5.05	4.60
$\sigma_S(puncts)$	191.43	374.64	8.47	8.16
$msgs$	776	103	316	357
$msgs_{\%}$	100.00	13.27	40.72	46.01
$\mu_M(sents)$	7.49	13.67	5.73	7.26
$\sigma_M(sents)$	31.78	85.39	6.02	6.82
$\mu_M(tokens)$	300.69	1294.27	132.87	162.59
$\sigma_M(tokens)$	3300.48	8985.97	156.94	175.05
$\mu_M(knownw)$	76.14	261.61	42.30	52.58
$\sigma_M(knownw)$	630.29	1713.00	52.30	54.85
$\mu_M(stopw)$	48.87	61.83	41.61	51.56
$\sigma_M(stopw)$	129.14	325.73	52.84	55.37
$\mu_M(puncts)$	84.77	456.76	25.34	30.06
$\sigma_M(puncts)$	1320.11	3600.05	32.80	42.29
$\mu_M(chars)$	1248.17	4746.09	628.80	787.20
$\sigma_M(chars)$	11483.70	31226.23	761.31	856.46

TABLE S22. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 10

	g.	**p.**	**i.**	**h.**
N	68	42	20	6
$N_{\%}$	100.00	61.76	29.41	8.82
M	642.00	79.00	265.00	298.00
$M_{\%}$	100.00	12.31	41.28	46.42
Γ	148.00	39.00	100.00	9.00
$\Gamma_{\%}$	100.00	26.35	67.57	6.08
$\frac{\Gamma}{M}\%$	23.05	49.37	37.74	3.02
$\mu(\gamma)$	2.61	2.41	2.69	2.56
$\sigma(\gamma)$	0.49	0.49	0.46	0.50
$chars$	935187	72511	468195	394481
$chars_{\%}$	100.00	7.75	50.06	42.18
$\frac{spaces}{chars}$	16.18	16.15	16.53	15.76
$\frac{punct}{chars-spaces}$	4.78	4.83	4.74	4.82
$\frac{digits}{chars-spaces}$	1.16	1.06	1.15	1.19
$\frac{letters}{chars-spaces}$	91.79	91.77	91.84	91.74
$\frac{vogals}{letters}$	36.86	36.82	36.84	36.89
$\frac{uppercase}{letters}$	5.29	5.28	5.41	5.15
$tokens$	200495	15393	99958	85146
$tokens_{\%}$	100.00	7.68	49.86	42.47
$tokens \neq$	5.78	19.55	8.78	8.24
$\frac{knownw}{tokens}$	38.25	38.61	38.60	37.78
$\frac{knownw\neq}{knownw}$	9.29	35.42	14.07	14.90
$\frac{stopw}{knownw}$	95.08	97.83	93.27	96.74
$\frac{punct}{tokens}$	16.89	17.06	16.57	17.24
$\frac{contrac}{tokens}$	0.51	0.94	0.44	0.51
$\mu(\overline{tokens})$	3.84	3.87	3.84	3.83
$\sigma(\overline{tokens})$	2.74	2.74	2.69	2.80
$\mu(\overline{knownw})$	5.93	6.03	5.91	5.94
$\sigma(\overline{knownw})$	2.57	2.49	2.57	2.57
$\mu(\overline{knownw \neq})$	7.29	6.83	7.19	7.14
$\sigma(\overline{knownw \neq})$	2.69	2.60	2.69	2.65
$\mu(\overline{stopw})$	2.78	2.76	2.78	2.78
$\sigma(\overline{stopw})$	1.11	1.07	1.10	1.12
$sents$	7697	590	3772	3337
$sents_{\%}$	99.97	7.66	48.99	43.34
$\mu_S(chars)$	119.96	121.06	122.39	116.95
$\sigma_S(chars)$	99.66	100.73	100.05	98.94
$\mu_S(tokens)$	26.05	26.10	26.51	25.52
$\sigma_S(tokens)$	23.06	21.98	23.19	23.09
$\mu_S(knownw)$	8.00	8.02	8.04	7.95
$\sigma_S(knownw)$	6.57	6.99	6.62	6.44
$\mu_S(stopw)$	8.48	8.80	8.60	8.28
$\sigma_S(stopw)$	7.07	7.66	7.25	6.74
$\mu_S(puncts)$	4.41	4.46	4.40	4.40
$\sigma_S(puncts)$	6.84	5.97	6.47	7.38
$msgs$	642	79	265	298
$msgs_{\%}$	100.00	12.31	41.28	46.42
$\mu_M(sents)$	12.93	8.25	15.17	12.18
$\sigma_M(sents)$	14.62	8.27	15.19	15.04
$\mu_M(tokens)$	314.51	197.11	379.42	287.90
$\sigma_M(tokens)$	372.21	217.94	387.37	379.90
$\mu_M(knownw)$	96.73	60.51	115.25	89.87
$\sigma_M(knownw)$	113.72	70.00	119.12	115.09
$\mu_M(stopw)$	101.25	65.18	121.96	92.40
$\sigma_M(stopw)$	121.57	75.98	126.83	123.27
$\mu_M(puncts)$	54.36	35.08	64.19	50.73
$\sigma_M(puncts)$	62.93	36.68	64.42	65.48
$\mu_M(chars)$	1454.81	915.65	1764.81	1322.06
$\sigma_M(chars)$	1705.27	1020.58	1787.75	1722.31

TABLE S23. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 11

	g.	**p.**	**i.**	**h.**
N	210	80	120	10
$N_{\%}$	100.00	38.10	57.14	4.76
M	490.00	111.00	284.00	95.00
$M_{\%}$	100.00	22.65	57.96	19.39
Γ	294.00	107.00	171.00	16.00
$\Gamma_{\%}$	100.00	36.39	58.16	5.44
$\frac{\Gamma}{M}\%$	60.00	96.40	60.21	16.84
$\mu(\gamma)$	2.31	2.00	2.47	2.62
$\sigma(\gamma)$	0.46	0.00	0.50	0.48
$chars$	548406	167975	298740	81691
$chars_{\%}$	100.00	30.63	54.47	14.90
$\frac{spaces}{chars}$	18.18	19.47	17.35	18.52
$\frac{punct}{chars-spaces}$	5.87	5.21	6.21	5.96
$\frac{digits}{chars-spaces}$	4.26	4.50	4.32	3.53
$\frac{letters}{chars-spaces}$	87.63	87.95	87.26	88.34
$\frac{vogals}{letters}$	35.88	36.14	35.65	36.20
$\frac{uppercase}{letters}$	6.86	7.57	6.84	5.52
$tokens$	119676	36648	65345	17684
$tokens_{\%}$	100.00	30.62	54.60	14.78
$tokens \neq$	7.17	12.06	9.20	17.06
$\frac{knownw}{tokens}$	36.04	35.44	36.35	36.15
$\frac{knownw\neq}{knownw}$	10.17	18.69	13.92	28.44
$\frac{stopw}{knownw}$	81.82	76.91	82.86	87.95
$\frac{punct}{tokens}$	19.23	17.37	20.22	19.44
$\frac{contrac}{tokens}$	0.77	0.64	0.87	0.63
$\mu(\overline{tokens})$	3.67	3.61	3.70	3.68
$\sigma(\overline{tokens})$	2.55	2.47	2.61	2.50
$\mu(\overline{knownw})$	5.50	5.24	5.63	5.58
$\sigma(\overline{knownw})$	2.41	2.49	2.39	2.30
$\mu(\overline{knownw \neq})$	6.68	6.37	6.64	6.35
$\sigma(\overline{knownw \neq})$	2.61	2.60	2.54	2.47
$\mu(\overline{stopw})$	2.77	2.76	2.78	2.77
$\sigma(\overline{stopw})$	1.08	1.06	1.08	1.08
$sents$	4112	1161	2385	568
$sents_{\%}$	99.95	28.22	57.97	13.81
$\mu_S(chars)$	131.80	143.10	123.71	142.18
$\sigma_S(chars)$	160.02	169.79	125.28	243.75
$\mu_S(tokens)$	29.11	31.57	27.41	31.14
$\sigma_S(tokens)$	35.08	37.80	26.95	53.73
$\mu_S(knownw)$	8.64	9.03	8.18	9.75
$\sigma_S(knownw)$	9.19	8.24	7.00	16.18
$\mu_S(stopw)$	7.52	7.48	7.21	8.86
$\sigma_S(stopw)$	7.42	6.69	6.30	11.72
$\mu_S(puncts)$	5.61	5.49	5.55	6.06
$\sigma_S(puncts)$	10.41	9.83	8.94	15.83
$msgs$	490	111	284	95
$msgs_{\%}$	100.00	22.65	57.96	19.39
$\mu_M(sents)$	9.28	11.29	9.27	6.96
$\sigma_M(sents)$	10.08	11.09	10.01	8.45
$\mu_M(tokens)$	246.46	332.53	232.48	187.68
$\sigma_M(tokens)$	339.87	472.19	300.97	227.60
$\mu_M(knownw)$	73.19	95.14	69.46	58.69
$\sigma_M(knownw)$	92.11	125.30	80.92	70.90
$\mu_M(stopw)$	62.43	77.40	59.81	52.75
$\sigma_M(stopw)$	62.25	63.25	60.89	62.08
$\mu_M(puncts)$	48.85	59.48	48.53	37.38
$\sigma_M(puncts)$	78.51	84.49	81.95	55.74
$\mu_M(chars)$	1116.57	1510.50	1049.00	858.29
$\sigma_M(chars)$	1452.95	1975.69	1289.54	1046.40

TABLE S24. Messages sizes in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 15

B. POS tags and wordnet synsets

1. Snapshots of 1000 messages

	g.	p.	i.	h.
NOUN	25.93	26.15	26.78	25.37
X	0.11	0.15	0.14	0.08
ADP	12.13	12.09	11.42	12.56
DET	11.88	11.86	11.66	12.01
VERB	21.95	22.21	21.96	21.89
ADJ	5.76	5.52	5.76	5.81
ADV	7.46	6.89	7.24	7.71
PRT	3.97	4.38	3.95	3.89
PRON	6.91	6.98	7.27	6.69
NUM	0.59	0.58	0.65	0.55
CONJ	3.32	3.19	3.18	3.43
PUNC	0.00	0.00	0.00	0.00
N	54.72	54.68	54.13	55.09
ADJ	11.33	10.98	11.14	11.51
VERB	6.34	6.03	5.92	6.65
ADV	27.61	28.30	28.81	26.75
POS	32.80	31.20	33.19	32.92
POS!	96.28	96.20	96.27	96.29

TABLE S25. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 0

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	72.60	73.68	71.37	73.10
physical_entity.n.01	27.40	26.32	28.63	26.90
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	21.88	23.98	21.56	21.64
communication.n.02	20.47	20.40	19.80	20.88
object.n.01	15.50	14.09	15.72	15.66
measure.n.02	12.98	13.06	13.51	12.65
attribute.n.02	7.24	6.63	6.28	7.93
causal_agent.n.01	6.50	6.23	7.21	6.14
group.n.01	6.41	6.63	6.77	6.15
matter.n.03	4.39	5.36	4.63	4.05
relation.n.01	3.60	2.98	3.46	3.81
process.n.06	0.53	0.36	0.57	0.54
thing.n.12	0.48	0.28	0.50	0.51
set.n.02	0.02	0.00	0.00	0.03
total	100.00	100.00	100.00	100.00
cognition.n.01	15.35	16.31	14.56	15.61
whole.n.02	13.18	12.38	13.64	13.07
event.n.01	13.04	15.36	13.15	12.50
definite_quantity.n.01	12.99	13.02	13.16	12.88
message.n.02	11.91	10.47	11.25	12.59
person.n.01	8.44	8.24	9.24	8.02
location.n.01	5.87	5.10	5.97	5.96
written_communication.n.01	4.78	4.14	4.20	5.26
substance.n.01	4.42	5.79	5.07	3.75
state.n.02	3.92	3.99	3.69	4.04
collection.n.01	3.49	3.35	3.36	3.60
part.n.01	2.62	1.86	2.71	2.72
total	100.00	100.00	100.00	100.00

TABLE S26. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 0

	g.	p.	i.	h.
public.a.01	29.61	26.04	31.73	28.98
like.a.01	13.21	20.71	10.95	13.16
new.a.01	11.82	8.88	15.77	9.93
different.a.01	7.62	5.92	7.05	8.31
chief.s.01	7.24	4.73	8.16	7.16
certain.a.02	5.78	5.33	5.01	6.35
first.a.01	4.70	7.10	3.90	4.73
good.a.01	4.38	7.10	3.53	4.39
able.a.01	4.38	7.69	4.64	3.58
specific.a.01	3.88	0.59	4.27	4.27
many.a.01	3.75	4.14	3.15	4.04
particular.s.01	3.62	1.78	1.86	5.08
total	100.00	100.00	100.00	100.00

TABLE S27. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 0

	g.	p.	i.	h.
make.v.03	12.80	10.22	10.85	14.68
act.v.01	12.40	16.38	12.64	11.31
think.v.03	11.93	9.96	11.13	12.90
move.v.02	11.63	14.94	13.48	9.65
change.v.01	9.78	11.27	8.31	10.39
travel.v.01	8.14	9.17	8.17	7.88
get.v.01	7.23	9.70	8.45	5.85
change.v.02	6.90	5.24	8.22	6.44
use.v.01	5.93	4.33	6.39	6.01
desire.v.01	4.70	3.41	4.46	5.15
perceive.v.01	4.37	4.19	4.51	4.32
necessitate.v.01	4.19	1.18	3.38	5.42
total	100.00	100.00	100.00	100.00
evaluate.v.02	18.66	15.22	17.74	20.04
interact.v.01	12.74	16.27	11.76	12.60
put.v.01	12.55	18.11	13.73	10.54
create_verbally.v.01	11.74	5.51	6.95	16.29
try.v.01	7.51	12.07	8.91	5.57
state.v.01	7.20	6.56	6.06	8.08
see.v.01	6.82	6.04	6.86	6.97
change_magnitude.v.01	6.14	4.20	6.95	6.03
send.v.01	4.77	3.41	8.11	2.87
look.v.02	4.70	4.99	5.17	4.34
keep.v.03	3.64	3.67	4.63	2.99
attach.v.01	3.52	3.94	3.12	3.69
total	100.00	100.00	100.00	100.00
communicate.v.02	18.72	24.21	18.91	17.42
write.v.01	18.24	8.33	11.80	24.09
think.v.01	11.32	7.14	11.65	12.05
install.v.01	10.35	21.83	11.65	7.11
increase.v.01	9.39	6.35	11.50	8.84
rate.v.01	6.29	5.56	8.62	5.11
expect.v.01	5.66	5.56	4.84	6.15
save.v.02	4.50	3.57	6.66	3.47
name.v.01	4.35	2.78	3.63	5.11
run.v.01	3.82	7.54	4.08	2.86
repair.v.01	3.77	2.78	2.57	4.68
read.v.01	3.58	4.37	4.08	3.12
total	100.00	100.00	100.00	100.00
inform.v.01	25.68	31.48	19.44	29.23
add.v.01	17.19	14.81	16.92	17.88
upgrade.v.01	12.60	12.96	14.39	11.15
record.v.01	9.08	8.33	11.11	7.69
submit.v.01	6.54	4.63	9.09	5.00
assume.v.01	4.59	8.33	1.77	5.96
see.v.05	4.39	1.85	5.05	4.42
post.v.01	4.30	8.33	5.05	2.88
overlap.v.01	4.30	1.85	5.05	4.23
think.v.02	4.00	2.78	5.05	3.46
replace.v.01	3.71	1.85	3.54	4.23
talk.v.02	3.61	2.78	3.54	3.85
total	100.00	100.00	100.00	100.00

TABLE S28. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 0

	g.	p.	i.	h.
besides.r.02	14.39	17.70	20.88	10.40
still.r.01	12.06	5.31	16.50	11.09
possibly.r.01	10.33	10.62	9.76	10.57
well.r.01	9.93	9.73	8.42	10.75
already.r.01	8.00	20.35	4.38	7.45
even.r.01	6.99	6.19	7.41	6.93
yet.r.01	6.89	6.19	6.73	7.11
however.r.01	6.59	9.73	7.74	5.37
probably.r.01	6.38	5.31	4.71	7.45
truly.r.01	6.28	7.08	4.04	7.28
quite.r.01	6.08	0.88	4.38	7.97
actually.r.01	6.08	0.88	5.05	7.63
total	100.00	100.00	100.00	100.00

TABLE S29. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 0

	g.	p.	i.	h.
NOUN	66.26	68.10	68.43	64.31
X	0.22	0.23	0.25	0.19
ADP	10.92	8.85	11.08	11.52
DET	4.89	4.07	4.72	5.27
VERB	8.61	8.90	7.76	9.03
ADJ	2.28	3.20	1.87	2.22
ADV	0.77	0.95	0.43	0.92
PRT	3.93	3.38	3.95	4.10
PRON	0.68	0.58	0.37	0.91
NUM	1.13	1.43	0.91	1.15
CONJ	0.32	0.31	0.22	0.38
PUNC	0.00	0.00	0.00	0.00
N	87.54	86.77	89.05	86.90
ADJ	3.25	4.25	2.68	3.24
VERB	0.33	0.26	0.17	0.45
ADV	8.88	8.72	8.11	9.41
POS	22.53	22.94	22.42	22.44
POS!	96.32	95.68	96.34	96.55

TABLE S30. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 2

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	64.39	63.56	62.39	65.94
physical_entity.n.01	35.61	36.44	37.61	34.06
total	100.00	100.00	100.00	100.00
communication.n.02	25.51	20.57	26.92	26.41
matter.n.03	17.08	18.61	17.92	16.00
psychological_feature.n.01	16.36	13.39	16.75	17.18
measure.n.02	11.84	14.90	8.72	12.69
causal_agent.n.01	9.52	7.85	9.96	9.85
object.n.01	8.59	9.41	9.39	7.80
attribute.n.02	7.97	10.10	7.45	7.53
relation.n.01	1.47	2.65	1.24	1.19
group.n.01	1.24	1.96	1.31	0.94
thing.n.12	0.22	0.30	0.20	0.20
process.n.06	0.20	0.27	0.13	0.21
total	100.00	100.00	100.00	100.00
message.n.02	23.94	17.84	25.54	25.06
substance.n.01	15.75	18.15	16.15	14.67
definite_quantity.n.01	11.46	14.60	8.73	12.09
event.n.01	11.00	9.95	11.31	11.17
person.n.01	10.16	8.59	10.50	10.49
whole.n.02	7.39	7.98	8.07	6.76
cognition.n.01	6.67	5.04	6.64	7.26
property.n.02	5.79	7.92	5.43	5.28
substance.n.07	2.48	2.49	2.77	2.29
state.n.02	2.24	2.38	2.11	2.28
location.n.01	1.58	2.24	1.64	1.31
signal.n.01	1.53	2.80	1.12	1.35
total	100.00	100.00	100.00	100.00

TABLE S31. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 2

	g.	p.	i.	h.
apt.s.01	20.96	21.13	30.61	16.74
net.a.01	12.63	14.08	6.12	14.98
capable.s.02	11.62	7.04	17.35	10.57
local.a.01	9.34	28.17	5.10	5.29
all_right.s.01	7.58	2.82	4.08	10.57
free.a.01	7.32	7.04	9.18	6.61
chief.s.01	6.31	9.86	9.18	3.96
best.a.01	6.06	2.82	3.06	8.37
anti.a.01	5.05	0.00	4.08	7.05
unstable.a.01	4.80	1.41	6.12	5.29
common.a.01	4.29	4.23	4.08	4.41
difficult.a.01	4.04	1.41	1.02	6.17
total	100.00	100.00	100.00	100.00

TABLE S32. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 2

	g.	p.	i.	h.
act.v.01	58.75	49.08	64.83	58.71
move.v.02	8.36	8.90	7.03	8.92
travel.v.01	6.96	8.59	7.22	6.24
think.v.03	4.38	5.52	2.85	4.84
change.v.02	4.32	4.91	4.75	3.87
get.v.01	4.10	3.68	4.56	3.98
make.v.03	3.14	3.07	0.19	4.84
change.v.01	3.03	4.29	3.23	2.47
have.v.01	2.02	1.84	0.76	2.80
remove.v.01	1.91	2.45	2.09	1.61
make.v.01	1.68	3.99	1.71	0.86
designate.v.01	1.35	3.68	0.76	0.86
total	100.00	100.00	100.00	100.00
interact.v.01	72.55	68.27	85.42	67.35
evaluate.v.02	5.11	7.21	3.39	5.40
send.v.01	3.72	3.37	3.12	4.11
put.v.01	3.43	4.33	2.34	3.73
create_verbally.v.01	3.36	3.85	0.00	4.88
keep.v.03	2.63	2.88	1.04	3.34
change_magnitude.v.01	2.04	0.96	1.56	2.57
label.v.01	1.75	5.77	1.04	1.03
destroy.v.01	1.53	0.00	0.00	2.70
try.v.01	1.31	1.44	1.82	1.03
state.v.01	1.31	1.92	0.26	1.67
give.v.03	1.24	0.00	0.00	2.19
total	100.00	100.00	100.00	100.00
communicate.v.02	78.79	65.58	90.11	76.91
write.v.01	3.65	3.72	0.00	5.59
save.v.02	2.78	2.33	1.10	3.82
install.v.01	2.62	3.72	1.10	3.09
think.v.01	2.22	0.93	0.82	3.38
increase.v.01	2.14	0.93	1.65	2.79
name.v.01	1.91	5.58	1.10	1.18
rate.v.01	1.83	1.86	1.92	1.76
deny.v.01	1.11	4.65	1.10	0.00
convey.v.03	1.03	4.19	0.27	0.44
confront.v.02	0.95	5.12	0.00	0.15
read.v.01	0.95	1.40	0.82	0.88
total	100.00	100.00	100.00	100.00
reach.v.04	83.64	73.49	89.17	83.22
record.v.01	3.11	3.01	1.14	4.28
inform.v.01	3.02	9.64	2.85	1.32
see.v.05	2.22	1.20	0.85	3.29
upgrade.v.01	2.04	2.41	1.99	1.97
add.v.01	1.87	0.60	0.85	2.80
communicate.v.01	0.98	5.42	0.28	0.16
power.v.01	0.89	0.00	0.00	1.64
overlap.v.01	0.80	0.60	1.14	0.66
network.v.01	0.53	0.60	1.14	0.16
acknowledge.v.06	0.44	3.01	0.00	0.00
permit.v.01	0.44	0.00	0.57	0.49
total	100.00	100.00	100.00	100.00

TABLE S33. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 2

	g.	p.	i.	h.
never.r.01	11.90	14.29	25.00	7.41
right.r.01	9.52	0.00	12.50	11.11
typically.r.01	9.52	0.00	12.50	11.11
soon.r.01	9.52	0.00	0.00	14.81
back.r.01	9.52	28.57	12.50	3.70
enough.r.01	7.14	14.29	12.50	3.70
forward.r.01	7.14	14.29	25.00	0.00
newly.r.01	7.14	0.00	0.00	11.11
by_and_large.r.01	7.14	0.00	0.00	11.11
precisely.r.01	7.14	14.29	0.00	7.41
besides.r.02	7.14	14.29	0.00	7.41
possibly.r.01	7.14	0.00	0.00	11.11
total	100.00	100.00	100.00	100.00

TABLE S34. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 2

	g.	p.	i.	h.
NOUN	30.58	31.89	30.73	30.03
X	0.13	0.13	0.17	0.08
ADP	11.89	11.48	12.20	11.63
DET	11.22	10.32	10.44	12.39
VERB	21.53	21.46	21.42	21.69
ADJ	5.76	5.79	5.67	5.85
ADV	6.36	6.01	6.48	6.32
PRT	3.76	3.89	3.60	3.91
PRON	5.77	5.82	5.96	5.54
NUM	0.80	0.83	0.81	0.78
CONJ	2.20	2.39	2.51	1.78
PUNC	0.00	0.00	0.00	0.00
N	59.89	60.13	61.10	58.31
ADJ	10.45	10.18	10.30	10.73
VERB	5.14	4.34	4.88	5.70
ADV	24.52	25.34	23.72	25.27
POS	33.31	33.40	32.08	34.93
POS!	93.78	93.50	93.33	94.44

TABLE S35. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 3

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	67.98	66.55	68.94	67.20
physical_entity.n.01	32.02	33.45	31.06	32.80
total	100.00	100.00	100.00	100.00
measure.n.02	19.35	18.06	22.53	15.62
psychological_feature.n.01	19.18	17.33	17.58	21.87
object.n.01	19.12	20.32	19.00	18.88
communication.n.02	16.42	18.50	16.52	15.62
causal_agent.n.01	7.03	7.83	6.67	7.23
attribute.n.02	6.84	6.45	6.35	7.60
matter.n.03	4.73	4.34	4.43	5.24
relation.n.01	3.14	2.99	3.10	3.25
group.n.01	3.05	3.22	2.85	3.24
thing.n.12	0.72	0.47	0.60	0.95
process.n.06	0.43	0.49	0.35	0.50
set.n.02	0.00	0.00	0.01	0.00
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	20.32	18.85	23.84	16.08
event.n.01	17.52	15.87	15.24	21.13
whole.n.02	13.89	16.33	12.16	15.38
person.n.01	8.57	9.34	8.07	9.00
message.n.02	6.86	10.20	6.48	6.23
cognition.n.01	6.48	5.30	6.57	6.76
message.n.01	5.74	5.59	6.01	5.44
location.n.01	4.81	5.16	4.25	5.45
land.n.04	4.50	2.89	6.42	2.47
substance.n.01	4.21	4.10	3.84	4.74
written_communication.n.01	3.86	3.24	3.91	4.00
state.n.02	3.25	3.12	3.22	3.32
total	100.00	100.00	100.00	100.00

TABLE S36. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 3

	g.	p.	i.	h.
net.a.01	39.36	41.85	32.52	46.15
like.a.01	11.52	9.23	14.79	8.68
new.a.01	10.06	8.31	12.24	8.24
general.a.01	7.31	16.62	8.03	3.19
high.a.01	7.05	4.00	5.58	9.78
certain.a.02	3.90	1.85	3.04	5.60
compact.a.01	3.63	4.00	3.33	3.85
good.a.01	3.59	0.92	3.33	4.84
chief.s.01	3.50	2.15	5.88	1.32
all_right.s.01	3.46	4.92	4.51	1.76
first.a.01	3.41	2.46	3.04	4.18
able.a.01	3.19	3.69	3.72	2.42
total	100.00	100.00	100.00	100.00

TABLE S37. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 3

	g.	p.	i.	h.
act.v.01	12.91	12.06	13.10	12.98
transfer.v.05	12.35	11.71	9.27	15.85
travel.v.01	11.35	14.39	12.02	9.67
move.v.02	9.37	8.13	11.16	7.84
think.v.03	9.32	8.31	8.88	10.12
get.v.01	8.65	10.01	9.38	7.45
use.v.01	7.83	7.33	7.05	8.83
change.v.01	6.55	7.15	6.26	6.66
make.v.03	6.49	4.65	7.86	5.59
perceive.v.01	6.09	8.04	5.47	6.13
be.v.01	4.60	4.74	5.00	4.13
change.v.02	4.50	3.49	4.56	4.75
total	100.00	100.00	100.00	100.00
give.v.03	22.13	20.99	17.03	27.68
interact.v.01	11.33	9.29	11.89	11.40
evaluate.v.02	10.55	10.26	11.35	9.82
see.v.01	9.85	12.82	8.88	9.92
travel_rapidly.v.01	8.85	12.66	10.38	6.12
try.v.01	7.56	8.81	7.04	7.70
put.v.01	6.77	6.57	7.67	5.92
state.v.01	5.79	5.13	6.21	5.57
look.v.02	5.03	5.45	6.02	3.90
reason.v.03	4.27	2.88	3.54	5.43
send.v.01	4.12	2.88	5.73	2.86
keep.v.03	3.76	2.24	4.27	3.70
total	100.00	100.00	100.00	100.00
support.v.02	30.92	31.97	22.96	38.91
communicate.v.02	15.73	15.03	16.60	15.02
run.v.01	13.96	21.58	16.01	9.65
think.v.01	5.49	3.28	6.21	5.37
calculate.v.01	5.25	3.01	4.49	6.69
read.v.01	4.82	1.91	7.11	3.27
expect.v.01	4.52	6.56	4.56	3.89
install.v.01	4.22	6.56	4.94	2.80
rebuild.v.01	4.05	0.55	5.39	3.66
increase.v.01	3.78	3.01	3.74	4.05
save.v.02	3.68	2.46	4.04	3.66
name.v.01	3.58	4.10	3.96	3.04
total	100.00	100.00	100.00	100.00
sponsor.v.01	52.35	53.42	43.18	59.88
inform.v.01	17.39	16.44	19.97	15.45
record.v.01	6.23	4.11	7.59	5.63
add.v.01	3.80	2.74	5.06	2.99
enumerate.v.01	3.46	8.22	4.08	1.68
assume.v.01	2.83	5.48	3.09	1.92
think.v.02	2.78	3.65	2.95	2.40
talk.v.02	2.66	1.37	3.80	2.04
unify.v.01	2.32	0.91	1.97	2.99
address.v.01	2.21	1.83	2.67	1.92
write.v.07	2.04	0.00	3.09	1.68
roll_up.v.02	1.93	1.83	2.53	1.44
total	100.00	100.00	100.00	100.00

TABLE S38. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 3

	g.	p.	i.	h.
besides.r.02	17.44	16.94	20.15	14.65
well.r.01	16.85	12.10	12.52	22.66
still.r.01	9.77	9.68	12.70	6.64
possibly.r.01	9.44	11.29	9.62	8.79
truly.r.01	8.42	11.29	9.26	6.84
even.r.01	6.99	9.68	7.80	5.47
merely.r.01	6.66	6.45	3.09	10.55
never.r.01	5.98	4.84	6.53	5.66
however.r.01	4.80	5.65	5.08	4.30
right.r.01	4.72	5.65	3.27	6.05
far.r.01	4.63	2.42	4.17	5.66
back.r.01	4.30	4.03	5.81	2.73
total	100.00	100.00	100.00	100.00

TABLE S39. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 3

	g.	p.	i.	h.
NOUN	36.79	38.77	37.07	28.71
X	0.12	0.13	0.16	0.06
ADP	9.40	8.90	9.28	11.49
DET	9.40	9.22	8.42	10.61
VERB	20.44	19.91	19.61	22.99
ADJ	6.54	6.61	6.62	6.19
ADV	5.40	5.45	4.04	5.91
PRT	2.59	2.34	2.60	3.62
PRON	5.70	5.27	6.80	6.86
NUM	1.17	0.91	3.36	1.10
CONJ	2.43	2.48	2.05	2.46
PUNC	0.00	0.00	0.00	0.00
N	63.15	63.92	65.34	58.18
ADJ	10.16	9.99	10.07	11.02
VERB	4.13	4.27	2.25	4.65
ADV	22.55	21.81	22.34	26.15
POS	32.19	32.43	29.91	32.61
POS!	90.96	90.01	92.74	94.47

TABLE S40. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 6

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	67.29	67.15	69.53	66.45
physical_entity.n.01	32.71	32.85	30.47	33.55
total	100.00	100.00	100.00	100.00
measure.n.02	16.62	14.03	30.39	20.30
object.n.01	16.44	16.23	14.39	18.97
psychological_feature.n.01	14.19	12.65	17.44	19.83
attribute.n.02	13.83	16.65	4.93	5.57
communication.n.02	13.76	14.04	9.57	15.22
matter.n.03	7.17	7.65	8.19	4.02
causal_agent.n.01	6.61	6.33	5.60	8.79
group.n.01	5.33	5.86	4.18	3.44
relation.n.01	3.56	3.92	3.03	2.08
thing.n.12	1.54	1.52	1.92	1.33
process.n.06	0.94	1.11	0.38	0.44
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	17.70	14.35	34.59	21.71
whole.n.02	13.01	12.91	9.75	15.79
property.n.02	10.26	13.50	1.75	0.98
event.n.01	9.61	9.00	10.93	11.51
person.n.01	8.15	7.93	6.57	10.26
cognition.n.01	8.04	7.06	9.58	11.62
substance.n.01	7.60	8.16	8.99	3.98
location.n.01	6.94	7.30	6.77	5.32
message.n.02	6.21	5.43	5.07	10.66
signal.n.01	5.54	7.37	0.30	0.60
state.n.02	4.18	4.32	3.23	4.20
written_communication.n.01	2.76	2.67	2.49	3.38
total	100.00	100.00	100.00	100.00

TABLE S41. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 6

	g.	p.	i.	h.
common.a.01	13.82	4.97	49.83	6.22
net.a.01	13.31	19.50	3.75	8.44
new.a.01	11.37	13.79	5.12	11.11
like.a.01	9.88	8.57	7.85	13.56
small.a.01	8.14	11.93	4.10	4.00
mobile.s.01	7.11	0.12	0.68	23.78
glib.s.01	7.04	1.49	26.28	4.44
mathematical.a.01	7.04	0.00	0.68	23.78
good.a.01	6.59	10.31	1.02	3.56
great.s.01	5.49	9.69	0.68	1.11
contrary.s.01	5.17	9.94	0.00	0.00
strong.a.01	5.04	9.69	0.00	0.00
total	100.00	100.00	100.00	100.00

TABLE S42. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 6

	g.	p.	i.	h.
act.v.01	18.48	19.60	12.17	17.84
change.v.02	11.91	14.88	2.11	6.12
travel.v.01	11.03	11.41	10.26	10.01
express.v.02	10.69	13.73	2.92	3.42
move.v.02	9.45	10.35	6.94	7.42
think.v.03	7.50	7.36	5.63	9.13
make.v.03	6.41	4.58	10.36	11.19
change.v.01	6.37	5.92	3.62	9.72
be.v.01	5.15	5.35	5.53	4.12
include.v.01	4.58	0.96	27.87	5.01
get.v.01	4.36	4.05	4.12	5.71
use.v.01	4.08	1.82	8.45	10.31
total	100.00	100.00	100.00	100.00
interact.v.01	22.05	20.59	22.22	30.77
state.v.01	19.87	22.64	8.71	8.95
reorient.v.03	11.41	14.26	0.30	0.00
evaluate.v.02	10.37	8.88	11.41	18.84
give.v.03	5.93	5.61	3.30	9.26
cover.v.03	5.14	6.44	0.00	0.00
keep.v.03	5.00	1.53	30.93	12.40
put.v.01	4.73	3.97	7.51	7.85
set_about.v.01	4.73	5.89	0.00	0.16
see.v.01	3.86	3.40	4.50	6.28
come.v.01	3.46	4.00	1.20	1.41
label.v.01	3.44	2.78	9.91	4.08
total	100.00	100.00	100.00	100.00
communicate.v.02	31.91	29.87	33.18	42.48
align.v.01	17.50	22.22	0.45	0.00
cross.v.05	7.86	10.00	0.00	0.00
confront.v.02	7.25	9.19	0.00	0.22
think.v.01	7.13	6.19	5.45	13.05
name.v.01	5.28	4.33	15.00	5.75
answer.v.01	4.58	5.58	0.45	1.11
store.v.01	4.23	0.36	30.45	12.61
cut.v.01	3.95	4.69	0.91	1.33
increase.v.01	3.63	2.67	3.18	9.07
support.v.02	3.34	3.40	3.64	2.88
run.v.01	3.34	1.50	7.27	11.50
total	100.00	100.00	100.00	100.00
inform.v.01	31.45	36.65	28.21	17.45
talk.v.02	9.73	14.21	0.00	1.87
roll_up.v.02	8.46	0.81	33.85	16.51
telecommunicate.v.01	7.40	0.20	1.03	33.33
ask.v.01	7.26	9.44	3.59	2.80
sponsor.v.01	7.00	8.53	4.10	4.05
communicate.v.01	5.80	7.51	5.13	0.93
record.v.01	5.33	2.23	18.46	6.85
talk.v.01	5.20	7.31	0.51	1.56
add.v.01	4.60	2.34	3.08	12.46
admit.v.01	4.33	6.60	0.00	0.00
believe.v.01	3.46	4.16	2.05	2.18
total	100.00	100.00	100.00	100.00

TABLE S43. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 6

	g.	p.	i.	h.
besides.r.02	14.94	12.00	20.00	26.67
well.r.01	14.83	15.41	6.67	14.67
therefore.r.01	11.15	13.33	6.67	2.67
still.r.01	7.47	5.93	17.78	11.33
truly.r.01	7.36	6.37	11.11	10.67
right.r.01	6.90	8.15	4.44	2.00
even.r.01	6.44	6.22	0.00	9.33
never.r.01	6.32	6.67	4.44	5.33
indeed.r.01	6.21	8.00	0.00	0.00
always.r.01	6.21	6.81	0.00	5.33
however.r.01	6.21	5.48	11.11	8.00
long.r.01	5.98	5.63	17.78	4.00
total	100.00	100.00	100.00	100.00

TABLE S44. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 6

	g.	p.	i.	h.
NOUN	56.40	54.28	58.04	55.29
X	2.83	2.74	2.65	3.08
ADP	2.94	3.00	2.44	3.52
DET	14.58	12.50	14.72	15.24
VERB	9.65	12.30	9.00	9.38
ADJ	7.82	7.93	7.93	7.64
ADV	1.33	2.10	1.15	1.24
PRT	1.82	1.95	1.59	2.04
PRON	1.06	0.58	1.08	1.23
NUM	1.30	2.19	1.15	1.12
CONJ	0.27	0.44	0.24	0.22
PUNC	0.00	0.00	0.00	0.00
N	83.39	81.57	84.30	83.07
ADJ	9.76	8.97	9.77	10.14
VERB	0.23	0.50	0.21	0.14
ADV	6.61	8.97	5.73	6.65
POS	19.19	21.39	19.14	18.34
POS!	89.88	90.25	88.84	91.09

TABLE S45. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 7

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	70.20	73.68	69.46	69.56
physical_entity.n.01	29.80	26.32	30.54	30.44
total	100.00	100.00	100.00	100.00
measure.n.02	23.39	33.06	22.93	19.43
communication.n.02	20.63	17.29	20.43	22.48
object.n.01	12.53	13.16	12.46	12.32
attribute.n.02	12.07	9.64	11.95	13.38
matter.n.03	9.30	6.33	10.17	9.54
psychological_feature.n.01	6.99	6.70	7.11	6.98
causal_agent.n.01	6.46	5.11	6.53	7.00
group.n.01	4.63	4.13	4.51	5.01
relation.n.01	2.49	2.86	2.52	2.27
thing.n.12	0.97	0.61	1.04	1.06
process.n.06	0.54	1.10	0.35	0.52
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	24.93	35.01	24.85	20.45
written_communication.n.01	18.51	13.92	18.93	20.05
whole.n.02	11.08	12.50	11.06	10.45
shape.n.02	9.74	7.13	9.61	11.09
substance.n.01	8.65	5.76	9.12	9.34
person.n.01	5.81	5.03	5.70	6.31
event.n.01	5.17	4.93	5.26	5.16
social_group.n.01	4.50	2.93	4.58	5.09
state.n.02	3.27	3.66	3.01	3.42
cognition.n.01	2.97	2.98	3.06	2.85
message.n.02	2.76	3.37	2.49	2.85
location.n.01	2.62	2.78	2.32	2.93
total	100.00	100.00	100.00	100.00

TABLE S46. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 7

	g.	p.	i.	h.
public.a.01	87.23	84.15	83.72	92.50
apt.s.01	2.44	4.92	3.60	0.19
net.a.01	2.29	2.73	3.76	0.38
all_right.s.01	1.25	0.55	0.63	2.25
ill.a.01	1.18	1.64	0.94	1.31
free.a.01	0.89	1.64	1.25	0.19
excess.s.01	0.89	1.09	0.47	1.31
chinese.a.01	0.81	0.00	1.72	0.00
available.a.01	0.81	1.64	0.31	1.13
local.a.01	0.74	1.09	0.78	0.56
new.a.01	0.74	0.55	1.25	0.19
logical.a.01	0.74	0.00	1.56	0.00
total	100.00	100.00	100.00	100.00

TABLE S47. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 7

	g.	p.	i.	h.
change.v.01	23.49	12.64	26.42	27.45
move.v.02	14.29	16.67	13.71	13.33
act.v.01	10.16	13.22	8.70	9.80
make.v.03	9.89	8.62	8.36	12.55
think.v.03	8.38	5.75	4.35	14.90
change.v.02	7.83	4.02	11.04	6.67
get.v.01	6.46	10.34	7.69	2.35
travel.v.01	4.95	7.47	3.34	5.10
make.v.01	3.98	6.32	4.35	1.96
necessitate.v.01	3.71	9.77	2.34	1.18
use.v.01	3.57	4.60	3.68	2.75
express.v.02	3.30	0.57	6.02	1.96
total	100.00	100.00	100.00	100.00
damage.v.01	23.63	13.75	23.32	27.86
put.v.01	13.08	16.25	14.51	10.45
evaluate.v.02	12.45	11.25	6.22	18.91
interact.v.01	11.60	21.25	9.84	9.45
create_verbally.v.01	10.76	8.75	8.29	13.93
state.v.01	5.06	1.25	9.33	2.49
modify.v.01	4.85	1.25	7.25	3.98
keep.v.03	4.43	2.50	6.74	2.99
end.v.02	4.22	3.75	8.29	0.50
travel_rapidly.v.01	3.38	5.00	3.63	2.49
establish.v.01	3.38	5.00	1.04	4.98
send.v.01	3.16	10.00	1.55	1.99
total	100.00	100.00	100.00	100.00
mar.v.01	27.86	17.46	28.48	30.94
communicate.v.02	12.94	23.81	11.39	10.50
write.v.01	12.69	11.11	10.13	15.47
install.v.01	12.44	19.05	13.29	9.39
think.v.01	7.71	1.59	0.00	16.57
save.v.02	4.73	1.59	8.23	2.76
update.v.01	4.48	1.59	8.23	2.21
run.v.01	3.98	6.35	4.43	2.76
read.v.01	3.48	7.94	1.90	3.31
rate.v.01	3.48	4.76	3.80	2.76
name.v.01	3.23	4.76	2.53	3.31
break.v.10	2.99	0.00	7.59	0.00
total	100.00	100.00	100.00	100.00
inform.v.01	15.79	7.69	19.70	14.63
record.v.01	14.29	3.85	19.70	12.20
carry.v.04	13.53	50.00	0.00	12.20
upgrade.v.01	10.53	11.54	9.09	12.20
interrupt.v.01	9.02	0.00	18.18	0.00
communicate.v.01	7.52	3.85	6.06	12.20
adhere.v.06	7.52	3.85	1.52	19.51
enumerate.v.01	5.26	0.00	10.61	0.00
promise.v.01	4.51	0.00	3.03	9.76
grow.v.02	4.51	3.85	3.03	7.32
operate.v.03	3.76	11.54	3.03	0.00
add.v.01	3.76	3.85	6.06	0.00
total	100.00	100.00	100.00	100.00

TABLE S48. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 7

	g.	p.	i.	h.
already.r.01	16.67	0.00	40.00	0.00
back.r.01	16.67	11.11	20.00	20.00
practically.r.01	12.50	33.33	0.00	0.00
even.r.01	8.33	22.22	0.00	0.00
forward.r.01	8.33	0.00	0.00	40.00
normally.r.01	8.33	0.00	20.00	0.00
probably.r.01	8.33	11.11	10.00	0.00
early_on.r.01	4.17	11.11	0.00	0.00
half.r.01	4.17	0.00	0.00	20.00
fast.r.01	4.17	0.00	10.00	0.00
downriver.r.01	4.17	11.11	0.00	0.00
automatically.r.01	4.17	0.00	0.00	20.00
total	100.00	100.00	100.00	100.00

TABLE S49. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 7

	g.	p.	i.	h.
NOUN	29.48	50.18	25.27	23.74
X	0.22	0.77	0.11	0.06
ADP	11.36	8.17	12.04	12.24
DET	10.26	8.06	11.49	10.51
VERB	21.12	14.57	22.56	22.90
ADJ	5.57	5.45	5.39	5.70
ADV	7.91	3.25	8.33	9.43
PRT	3.64	2.52	4.10	3.85
PRON	6.54	4.32	6.65	7.30
NUM	1.26	0.85	1.15	1.46
CONJ	2.64	1.85	2.89	2.81
PUNC	0.00	0.00	0.00	0.00
N	58.79	74.97	55.29	52.55
ADJ	10.09	8.16	10.31	10.93
VERB	7.04	2.31	7.68	9.04
ADV	24.08	14.56	26.71	27.48
POS	32.49	31.70	33.31	32.51
POS!	94.77	92.59	94.88	95.81

TABLE S50. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 8

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	67.39	68.44	66.19	67.24
physical_entity.n.01	32.61	31.56	33.81	32.76
total	100.00	100.00	100.00	100.00
measure.n.02	22.88	17.29	24.47	25.97
object.n.01	21.16	17.57	23.71	22.41
communication.n.02	13.54	17.03	10.92	12.41
psychological_feature.n.01	13.32	8.53	16.27	15.20
attribute.n.02	9.51	16.37	6.92	6.03
matter.n.03	6.26	8.51	4.21	5.70
group.n.01	5.28	6.79	5.05	4.34
causal_agent.n.01	4.14	4.33	4.91	3.62
relation.n.01	2.85	2.44	2.56	3.28
process.n.06	0.56	0.60	0.60	0.52
thing.n.12	0.49	0.54	0.37	0.51
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	23.27	14.48	25.58	27.81
whole.n.02	21.80	15.43	24.55	24.57
event.n.01	9.33	6.16	11.39	10.38
cognition.n.01	7.07	5.05	8.25	7.80
substance.n.01	6.39	9.15	4.51	5.51
message.n.02	6.24	4.17	6.34	7.53
property.n.02	5.74	13.97	2.20	2.14
signal.n.01	4.60	13.03	0.62	1.10
location.n.01	4.28	7.08	4.16	2.53
person.n.01	4.24	5.28	4.66	3.37
written_communication.n.01	3.57	3.26	4.07	3.53
state.n.02	3.48	2.93	3.67	3.73
total	100.00	100.00	100.00	100.00

TABLE S51. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 8

	g.	p.	i.	h.
like.a.01	19.42	4.18	24.00	24.70
new.a.01	15.73	6.43	20.36	18.18
public.a.01	13.64	34.08	6.55	6.97
initial.s.01	10.03	37.62	0.36	1.06
good.a.01	7.46	3.86	10.18	8.03
certain.a.02	5.70	2.57	6.91	6.67
least.a.01	5.30	3.22	2.91	7.27
last.s.01	5.30	1.93	10.55	4.70
old.a.01	4.49	0.32	6.18	5.76
much.a.01	4.33	1.29	4.73	5.61
current.a.01	4.33	1.29	4.00	5.91
different.a.01	4.25	3.22	3.27	5.15
total	100.00	100.00	100.00	100.00

TABLE S52. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 8

	g.	p.	i.	h.
act.v.01	13.53	24.89	12.55	11.14
change.v.01	11.27	6.14	13.45	11.63
think.v.03	9.88	5.81	11.25	10.31
make.v.03	9.72	8.00	7.76	10.96
move.v.02	9.54	7.79	10.09	9.74
change.v.02	9.02	16.12	8.41	7.54
travel.v.01	7.61	5.15	8.21	7.97
get.v.01	7.50	7.57	7.12	7.64
make.v.01	6.09	4.61	5.17	6.84
use.v.01	6.01	5.59	7.18	5.63
be.v.01	5.69	4.61	4.20	6.57
express.v.02	4.13	3.73	4.59	4.04
total	100.00	100.00	100.00	100.00
evaluate.v.02	16.78	8.00	18.74	18.08
interact.v.01	14.90	18.50	18.01	12.77
construct.v.01	13.52	5.50	8.35	17.54
state.v.01	9.24	8.50	10.40	8.95
put.v.01	8.52	6.75	8.49	8.95
change_magnitude.v.01	6.96	2.75	9.52	6.92
see.v.01	6.16	5.75	7.03	5.91
look.v.02	5.65	4.25	5.12	6.21
keep.v.03	4.71	5.25	5.27	4.36
better.v.02	4.68	2.00	3.66	5.73
try.v.01	4.53	3.50	5.27	4.47
set_about.v.01	4.35	29.25	0.15	0.12
total	100.00	100.00	100.00	100.00
communicate.v.02	24.48	19.35	30.71	23.81
think.v.01	12.21	3.81	14.47	14.75
increase.v.01	11.34	2.72	15.99	12.89
confront.v.02	7.40	31.88	0.25	0.23
repair.v.01	6.97	1.63	5.08	10.10
align.v.01	6.54	28.88	0.00	0.00
test.v.01	5.92	1.36	8.38	6.74
install.v.01	5.61	3.00	5.58	6.74
update.v.01	5.24	0.82	3.55	7.90
expect.v.01	4.99	1.63	4.31	6.74
run.v.01	4.93	3.81	6.35	4.76
interrupt.v.04	4.38	1.09	5.33	5.34
total	100.00	100.00	100.00	100.00
inform.v.01	27.03	42.22	27.16	23.87
add.v.01	19.43	7.78	20.99	20.95
roll_up.v.02	8.88	12.22	7.41	9.01
record.v.01	7.46	10.00	7.41	6.98
propose.v.01	6.31	3.33	3.70	8.33
address.v.01	5.41	11.11	2.88	5.63
talk.v.02	4.76	4.44	6.17	4.05
unify.v.01	4.50	2.22	2.88	5.86
ask.v.01	4.25	3.33	5.35	3.83
hang.v.02	4.25	0.00	8.64	2.70
think.v.02	3.99	1.11	2.88	5.18
talk.v.01	3.73	2.22	4.53	3.60
total	100.00	100.00	100.00	100.00

TABLE S53. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 8

	g.	p.	i.	h.
upriver.r.01	14.74	7.69	10.88	16.86
besides.r.02	12.45	20.51	18.73	9.30
truly.r.01	12.14	8.97	12.39	12.33
still.r.01	8.27	3.85	6.65	9.30
well.r.01	8.20	14.10	8.46	7.56
possibly.r.01	8.04	3.85	7.55	8.60
probably.r.01	8.04	6.41	7.85	8.26
actually.r.01	6.86	2.56	6.95	7.21
even.r.01	6.15	12.82	7.85	4.88
already.r.01	6.15	7.69	6.34	5.93
back.r.01	4.57	6.41	4.83	4.30
alternatively.r.01	4.41	5.13	1.51	5.47
total	100.00	100.00	100.00	100.00

TABLE S54. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 8

	g.	p.	i.	h.
NOUN	29.04	31.04	29.93	25.39
X	0.17	0.22	0.16	0.13
ADP	11.97	11.09	11.46	13.74
DET	11.52	11.09	11.46	12.13
VERB	21.76	21.55	21.35	22.58
ADJ	5.64	5.64	6.01	5.14
ADV	6.13	5.39	6.17	6.97
PRT	3.74	3.70	3.87	3.61
PRON	6.22	6.19	6.04	6.50
NUM	0.66	0.71	0.60	0.68
CONJ	3.14	3.37	2.94	3.12
PUNC	0.00	0.00	0.00	0.00
N	59.96	61.65	60.48	56.67
ADJ	10.30	10.26	10.61	9.89
VERB	4.74	3.61	4.92	6.11
ADV	25.00	24.48	23.98	27.34
POS	34.04	33.85	34.40	33.78
POS!	91.76	89.59	93.02	93.13

TABLE S55. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 9

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	70.91	69.83	72.34	70.27
physical_entity.n.01	29.09	30.17	27.66	29.73
total	100.00	100.00	100.00	100.00
measure.n.02	20.49	23.16	21.91	13.83
communication.n.02	17.50	16.17	16.78	20.84
psychological_feature.n.01	16.33	15.20	16.14	18.46
object.n.01	16.20	15.42	15.69	18.32
group.n.01	8.13	7.61	8.51	8.34
causal_agent.n.01	7.03	8.48	6.40	5.72
attribute.n.02	6.30	5.55	7.14	6.10
matter.n.03	4.53	5.13	4.22	4.06
relation.n.01	2.14	2.11	1.84	2.69
process.n.06	0.67	0.55	0.65	0.90
thing.n.12	0.66	0.58	0.69	0.72
set.n.02	0.02	0.02	0.02	0.00
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	21.67	24.92	23.07	14.06
whole.n.02	13.86	13.27	12.72	16.76
event.n.01	12.36	12.35	11.86	13.22
message.n.02	9.15	8.56	8.75	10.78
person.n.01	8.04	10.01	7.20	6.32
cognition.n.01	7.28	6.12	7.26	9.20
collection.n.01	6.40	5.10	7.11	7.28
written_communication.n.01	5.66	4.78	5.24	7.80
location.n.01	4.97	4.76	5.44	4.48
substance.n.01	4.12	4.39	3.95	3.97
property.n.02	3.25	2.56	3.88	3.31
state.n.02	3.23	3.17	3.53	2.83
total	100.00	100.00	100.00	100.00

TABLE S56. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 9

	g.	p.	i.	h.
aeriform.s.02	42.62	45.67	47.65	25.45
like.a.01	10.23	11.26	9.62	9.41
capable.s.02	7.16	7.18	7.16	7.12
new.a.01	6.19	5.20	3.64	13.74
possible.a.01	5.80	5.82	5.05	7.38
able.a.01	5.36	5.45	4.81	6.36
different.a.01	4.24	2.10	5.40	6.11
first.a.01	4.04	3.47	4.11	5.09
net.a.01	3.85	3.47	3.05	6.36
local.a.01	3.75	7.05	1.64	1.53
certain.a.02	3.46	1.36	3.52	7.63
good.a.01	3.31	1.98	4.34	3.82
total	100.00	100.00	100.00	100.00

TABLE S57. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 9

	g.	p.	i.	h.
act.v.01	15.34	17.48	14.36	13.91
make.v.03	12.76	11.31	12.37	15.12
move.v.02	11.59	12.47	12.10	9.77
use.v.01	11.05	10.78	11.02	11.43
travel.v.01	8.91	9.62	9.04	7.83
think.v.03	8.44	6.87	8.60	10.22
change.v.01	7.15	6.80	7.55	7.07
get.v.01	5.82	7.47	6.07	3.38
perceive.v.01	5.63	4.93	5.97	6.08
change.v.02	5.18	4.37	5.46	5.85
express.v.02	4.25	3.81	3.61	5.67
be.v.01	3.89	4.09	3.84	3.69
total	100.00	100.00	100.00	100.00
interact.v.01	16.34	17.57	14.29	17.43
re-create.v.01	13.25	12.34	13.35	14.29
evaluate.v.02	11.94	10.39	12.85	12.75
put.v.01	9.46	9.51	9.86	8.88
try.v.01	8.26	9.89	9.17	5.00
state.v.01	7.65	6.74	6.61	10.17
see.v.01	6.75	6.30	6.30	7.91
travel_rapidly.v.01	6.64	7.62	6.24	5.89
send.v.01	6.55	6.80	7.30	5.25
keep.v.03	5.64	5.86	6.24	4.60
interpret.v.01	3.79	2.33	3.74	5.73
look.v.02	3.72	4.66	4.05	2.10
total	100.00	100.00	100.00	100.00
communicate.v.02	24.18	27.29	21.20	24.24
represent.v.09	20.71	20.42	20.61	21.18
run.v.01	10.53	12.60	9.86	8.94
think.v.01	7.52	5.73	8.97	7.83
install.v.01	6.09	9.79	4.34	3.92
save.v.02	5.59	5.42	5.62	5.75
read.v.01	5.45	3.33	5.52	7.83
increase.v.01	5.12	3.54	6.11	5.75
expect.v.01	4.08	3.02	4.83	4.41
declare.v.01	3.87	3.85	4.14	3.55
salvage.v.01	3.44	2.40	5.13	2.57
write.v.01	3.40	2.60	3.65	4.04
total	100.00	100.00	100.00	100.00
capture.v.01	32.49	31.01	32.69	34.15
inform.v.01	25.21	25.79	21.79	28.83
record.v.01	8.94	8.23	9.13	9.61
add.v.01	7.22	4.91	8.17	9.00
roll_up.v.02	4.64	6.33	5.29	1.64
address.v.01	3.50	4.91	3.69	1.43
promise.v.01	3.38	2.06	4.01	4.29
filter.v.01	3.38	2.53	3.21	4.70
see.v.05	3.21	4.11	3.21	2.04
write.v.02	3.04	3.64	3.21	2.04
propose.v.01	2.58	3.64	2.40	1.43
balance.v.01	2.41	2.85	3.21	0.82
total	100.00	100.00	100.00	100.00

TABLE S58. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 9

	g.	p.	i.	h.
besides.r.02	18.01	18.22	20.60	15.10
probably.r.01	11.86	7.06	12.04	14.85
however.r.01	11.13	11.15	10.88	11.39
possibly.r.01	10.59	6.69	12.50	11.14
well.r.01	8.69	8.18	6.48	11.39
still.r.01	7.24	11.15	7.64	4.21
truly.r.01	7.06	7.81	7.41	6.19
even.r.01	6.61	8.55	6.71	5.20
alternatively.r.01	5.70	6.32	5.09	5.94
presently.r.02	4.89	5.95	2.31	6.93
already.r.01	4.25	3.72	3.70	5.20
actually.r.01	3.98	5.20	4.63	2.48
total	100.00	100.00	100.00	100.00

TABLE S59. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 9

	g.	p.	i.	h.
NOUN	27.24	31.29	27.43	24.40
X	0.45	0.57	0.43	0.40
ADP	12.51	12.06	12.89	12.00
DET	11.53	10.68	12.02	10.99
VERB	21.56	20.17	20.86	23.88
ADJ	6.93	7.46	6.91	6.64
ADV	6.23	5.31	6.22	6.80
PRT	3.79	3.21	3.74	4.23
PRON	6.32	5.49	6.05	7.38
NUM	0.55	0.44	0.58	0.54
CONJ	2.91	3.32	2.86	2.75
PUNC	0.00	0.00	0.00	0.00
N	56.34	59.23	57.54	51.90
ADJ	12.98	13.43	13.01	12.62
VERB	5.64	4.83	5.48	6.54
ADV	25.03	22.51	23.98	28.94
POS	34.29	35.13	34.06	34.23
POS!	95.66	95.28	95.78	95.65

TABLE S60. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 10

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	74.15	73.32	74.41	74.15
physical_entity.n.01	25.85	26.68	25.59	25.85
total	100.00	100.00	100.00	100.00
communication.n.02	25.33	24.73	24.16	28.56
psychological_feature.n.01	17.56	16.71	18.06	17.01
measure.n.02	16.95	15.84	17.81	15.75
object.n.01	10.29	11.52	10.46	8.99
causal_agent.n.01	8.57	8.65	9.23	6.94
matter.n.03	6.08	5.76	5.01	8.87
attribute.n.02	5.44	6.97	5.36	4.46
group.n.01	4.97	6.27	4.76	4.49
relation.n.01	3.89	2.78	4.25	3.87
process.n.06	0.50	0.44	0.54	0.47
thing.n.12	0.40	0.31	0.35	0.57
set.n.02	0.01	0.02	0.00	0.02
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	15.54	14.38	16.48	14.16
event.n.01	14.28	14.47	13.98	14.85
message.n.02	12.88	13.36	11.82	15.05
person.n.01	10.99	11.26	11.73	9.03
cognition.n.01	8.70	7.76	9.50	7.48
whole.n.02	7.46	7.64	7.95	6.17
substance.n.01	6.43	6.53	5.57	8.41
indication.n.01	5.73	5.08	5.50	6.79
location.n.01	5.40	6.80	5.08	5.13
language.n.01	5.05	4.58	5.89	3.38
fundamental_quantity.n.01	3.89	4.40	3.86	3.60
written_communication.n.01	3.64	3.73	2.65	5.95
total	100.00	100.00	100.00	100.00

TABLE S61. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 10

	g.	p.	i.	h.
new.a.01	14.99	21.46	15.05	11.45
like.a.01	13.96	14.17	12.78	15.77
english.a.01	13.55	12.96	10.92	18.14
net.a.01	9.99	2.02	16.78	3.24
free.a.01	7.60	9.72	6.66	7.99
capable.s.02	6.23	8.10	9.19	0.43
personal.a.01	6.02	0.40	2.13	15.33
many.a.01	5.75	8.10	5.86	4.32
good.a.01	5.61	6.07	4.93	6.48
possible.a.01	5.54	4.05	7.32	3.46
japanese.a.01	5.41	0.81	2.66	12.31
public.a.01	5.34	12.15	5.73	1.08
total	100.00	100.00	100.00	100.00

TABLE S62. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 10

	g.	p.	i.	h.
act.v.01	25.76	30.57	26.60	22.09
move.v.02	10.01	8.40	8.67	13.01
change.v.01	9.43	9.15	11.13	6.71
think.v.03	9.35	9.58	10.26	7.72
make.v.01	6.61	4.52	7.80	5.60
change.v.02	6.08	7.10	5.25	7.01
use.v.01	5.84	4.74	5.28	7.31
get.v.01	5.70	3.23	5.01	8.02
travel.v.01	5.57	5.27	5.82	5.30
make.v.03	5.54	5.06	6.00	4.99
satisfy.v.02	5.09	7.97	4.47	4.79
express.v.02	5.01	4.41	3.72	7.46
total	100.00	100.00	100.00	100.00
interact.v.01	35.10	38.23	36.72	30.74
evaluate.v.02	11.63	9.68	12.71	10.83
please.v.01	8.66	12.35	7.73	8.30
state.v.01	8.52	6.84	6.43	12.93
send.v.01	7.03	8.01	4.82	10.22
help.v.01	5.26	5.34	5.65	4.54
see.v.01	5.17	4.34	5.08	5.76
modify.v.01	4.77	3.67	3.06	8.21
change_magnitude.v.01	3.79	5.84	3.84	2.62
look.v.02	3.79	1.67	5.65	1.75
put.v.01	3.24	2.17	4.10	2.36
take.v.01	3.05	1.84	4.20	1.75
total	100.00	100.00	100.00	100.00
communicate.v.02	51.85	62.09	54.02	43.70
think.v.01	8.26	5.77	9.13	7.99
update.v.01	6.43	5.22	4.02	10.86
increase.v.01	5.41	8.79	5.57	3.62
place.v.12	4.35	3.02	6.27	1.87
note.v.01	3.99	1.37	1.16	9.74
coincide.v.01	3.83	3.02	3.87	4.12
convey.v.03	3.38	1.65	4.80	1.87
expect.v.01	3.34	2.20	4.41	2.12
write.v.01	3.22	2.20	4.18	2.12
send.v.02	3.01	0.55	0.23	8.61
declare.v.01	2.93	4.12	2.32	3.37
total	100.00	100.00	100.00	100.00
inform.v.01	53.16	55.21	57.02	45.60
add.v.01	6.44	8.33	6.87	4.75
overlap.v.01	5.17	3.82	5.20	5.81
talk.v.02	4.73	7.64	5.10	2.64
communicate.v.01	4.57	2.08	6.45	2.64
ask.v.01	4.35	3.82	3.43	6.16
mail.v.01	4.07	0.69	0.31	12.15
see.v.05	3.91	4.51	4.58	2.46
fund-raise.v.01	3.74	1.74	4.27	3.87
propose.v.01	3.63	4.86	2.71	4.58
talk.v.01	3.14	3.82	1.98	4.75
permit.v.01	3.08	3.47	2.08	4.58
total	100.00	100.00	100.00	100.00

TABLE S63. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 10

	g.	p.	i.	h.
besides.r.02	18.06	35.25	17.16	12.64
still.r.01	12.77	12.23	17.16	6.74
probably.r.01	10.98	5.76	3.16	24.16
well.r.01	10.08	9.35	10.45	9.83
already.r.01	9.28	8.63	7.69	11.80
freely.r.01	6.39	1.44	7.50	6.74
yet.r.01	6.39	5.76	5.72	7.58
however.r.01	6.09	3.60	8.09	4.21
presently.r.02	5.79	2.88	8.68	2.81
soon.r.01	5.39	5.04	4.93	6.18
even.r.01	4.49	4.32	4.73	4.21
always.r.01	4.29	5.76	4.73	3.09
total	100.00	100.00	100.00	100.00

TABLE S64. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 10

	g.	p.	i.	h.
NOUN	26.68	27.92	28.60	23.87
X	0.30	0.33	0.30	0.29
ADP	14.64	14.18	15.05	14.14
DET	13.35	13.12	13.24	13.52
VERB	18.52	18.73	17.58	19.77
ADJ	7.60	7.57	7.73	7.42
ADV	6.95	6.69	6.43	7.69
PRT	2.97	2.51	2.82	3.23
PRON	5.31	4.84	4.35	6.67
NUM	0.75	0.83	0.83	0.63
CONJ	2.95	3.29	3.06	2.76
PUNC	0.00	0.00	0.00	0.00
N	56.31	57.68	58.82	52.33
ADJ	15.07	14.47	14.96	15.33
VERB	7.08	6.95	6.55	7.91
ADV	21.53	20.91	19.67	24.43
POS	37.05	36.59	37.17	36.94
POS!	95.60	94.99	95.42	95.96

TABLE S65. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 11

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	69.95	69.58	67.25	74.56
physical_entity.n.01	30.05	30.42	32.75	25.44
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	18.82	18.16	16.63	22.64
communication.n.02	17.90	19.06	16.11	20.73
measure.n.02	14.71	15.89	16.13	12.09
object.n.01	13.09	12.60	14.13	11.41
causal_agent.n.01	9.36	11.58	9.58	8.62
relation.n.01	6.87	6.41	7.05	6.65
attribute.n.02	5.93	5.85	5.62	6.47
group.n.01	5.71	4.22	5.72	5.96
matter.n.03	5.22	4.83	6.30	3.45
thing.n.12	1.85	1.00	2.31	1.21
process.n.06	0.54	0.41	0.43	0.75
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	14.47	15.13	16.49	10.87
cognition.n.01	13.49	11.42	11.41	17.47
person.n.01	12.11	14.75	12.25	11.40
event.n.01	10.75	11.32	9.92	12.07
location.n.01	7.80	6.43	9.00	5.97
whole.n.02	7.62	8.55	7.33	7.96
part.n.01	6.90	6.24	7.21	6.48
language.n.01	6.63	6.27	6.49	6.95
message.n.02	6.62	7.49	6.32	6.99
substance.n.01	5.65	4.27	6.97	3.63
written_communication.n.01	4.69	4.74	3.53	6.68
fundamental_quantity.n.01	3.26	3.40	3.09	3.52
total	100.00	100.00	100.00	100.00

TABLE S66. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 11

	g.	p.	i.	h.
hebraic.a.02	16.73	13.04	16.97	16.91
biblical.a.01	11.92	17.87	12.62	9.81
like.a.01	10.37	9.18	8.96	12.91
historical.a.01	9.59	2.42	13.57	4.08
many.a.01	8.02	8.21	7.01	9.66
late.a.01	7.67	2.42	9.59	5.28
different.a.01	7.27	10.14	5.75	9.36
first.a.01	6.73	6.28	6.92	6.49
public.a.01	6.52	13.53	5.02	7.92
ancient.s.01	5.99	9.18	7.51	2.94
linguistic.a.01	4.68	2.42	2.81	8.15
good.a.01	4.52	5.31	3.26	6.49
total	100.00	100.00	100.00	100.00

TABLE S67. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 11

	g.	p.	i.	h.
act.v.01	22.50	27.89	22.84	21.36
think.v.03	14.72	12.25	14.49	15.33
express.v.02	9.49	10.39	9.81	8.98
travel.v.01	8.90	6.53	9.75	8.19
make.v.03	7.56	8.75	7.82	7.09
be.v.01	6.18	7.12	6.10	6.14
move.v.02	5.98	5.95	5.66	6.36
perceive.v.01	5.36	4.20	5.49	5.35
change.v.01	5.06	4.78	5.08	5.08
make.v.01	4.99	3.50	4.56	5.72
understand.v.01	4.73	4.08	3.87	5.86
know.v.01	4.53	4.55	4.52	4.54
total	100.00	100.00	100.00	100.00
interact.v.01	27.78	34.13	28.75	25.66
evaluate.v.02	16.29	11.56	15.29	18.23
state.v.01	14.22	15.96	14.10	14.13
see.v.01	6.67	4.40	6.85	6.75
create_verbally.v.01	5.67	6.24	6.48	4.57
look.v.02	5.65	6.06	5.56	5.71
interpret.v.01	5.46	4.22	4.31	7.09
associate.v.01	5.31	5.50	5.58	4.93
put.v.01	3.32	2.20	3.06	3.82
take.v.01	3.27	4.40	2.96	3.51
come.v.01	3.20	2.39	3.45	3.01
label.v.01	3.15	2.94	3.61	2.60
total	100.00	100.00	100.00	100.00
communicate.v.02	39.61	48.09	41.11	36.51
think.v.01	11.33	7.65	10.95	12.34
write.v.01	8.57	9.29	9.83	6.89
read.v.01	7.69	5.74	6.03	10.07
think_of.v.04	6.29	6.01	6.78	5.72
accept.v.01	5.43	4.37	4.91	6.23
declare.v.01	4.74	5.19	3.58	6.15
name.v.01	4.71	4.37	5.38	3.92
expect.v.01	4.37	3.83	4.07	4.82
supply.v.01	2.56	2.46	1.74	3.60
increase.v.01	2.36	0.82	2.52	2.39
note.v.01	2.33	2.19	3.11	1.37
total	100.00	100.00	100.00	100.00
inform.v.01	43.63	50.84	45.37	40.11
talk.v.02	10.21	12.61	9.06	11.39
mention.v.01	10.18	9.24	10.62	9.73
see.v.05	7.23	5.04	7.89	6.66
propose.v.01	6.28	6.72	4.19	9.06
believe.v.01	5.30	3.36	5.51	5.33
talk.v.01	4.54	2.10	5.36	3.80
ask.v.01	3.38	2.94	3.02	3.93
add.v.01	2.64	1.26	2.88	2.53
suit.v.01	2.56	0.84	2.24	3.26
assume.v.01	2.19	1.68	2.00	2.53
ignore.v.01	1.87	3.36	1.85	1.67
total	100.00	100.00	100.00	100.00

TABLE S68. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 11

	g.	p.	i.	h.
besides.r.02	15.56	22.98	13.75	16.48
even.r.01	13.82	12.42	13.29	14.53
well.r.01	11.71	6.83	13.75	10.23
truly.r.01	7.96	4.97	6.57	9.77
possibly.r.01	7.53	11.18	8.48	6.09
never.r.01	7.27	2.48	10.24	4.84
however.r.01	7.13	6.21	5.73	8.67
therefore.r.01	6.80	12.42	7.64	5.23
far.r.01	6.65	7.45	6.42	6.80
still.r.01	5.49	6.21	4.05	6.88
wholly.r.01	5.05	2.48	5.19	5.23
back.r.01	5.02	4.35	4.89	5.23
total	100.00	100.00	100.00	100.00

TABLE S69. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 11

	g.	p.	i.	h.
NOUN	35.49	36.22	35.21	35.46
X	0.15	0.18	0.16	0.12
ADP	10.86	10.76	10.98	10.72
DET	11.01	11.57	10.73	11.08
VERB	21.22	20.38	21.07	22.16
ADJ	5.36	5.14	5.52	5.26
ADV	4.78	4.75	4.79	4.78
PRT	3.35	3.20	3.38	3.42
PRON	4.83	4.56	5.15	4.46
NUM	0.55	0.81	0.51	0.44
CONJ	2.38	2.44	2.50	2.12
PUNC	0.00	0.00	0.00	0.00
N	61.95	64.00	61.42	61.32
ADJ	9.52	8.94	9.95	9.19
VERB	3.29	2.87	3.40	3.40
ADV	25.24	24.20	25.23	26.09
POS	33.08	33.08	32.57	34.07
POS!	95.99	94.86	96.65	95.69

TABLE S70. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 12

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	65.96	67.12	65.58	65.70
physical_entity.n.01	34.04	32.88	34.42	34.30
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	25.04	26.84	24.50	24.55
object.n.01	23.29	23.61	23.02	23.51
communication.n.02	14.69	13.21	14.88	15.56
measure.n.02	11.12	13.15	10.81	10.01
causal_agent.n.01	6.53	5.55	6.86	6.72
group.n.01	6.07	5.04	6.11	6.85
attribute.n.02	6.06	5.70	6.37	5.80
matter.n.03	3.16	2.71	3.38	3.13
relation.n.01	2.99	3.19	2.93	2.92
thing.n.12	0.53	0.72	0.51	0.42
process.n.06	0.53	0.29	0.64	0.52
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
event.n.01	22.04	23.59	21.42	21.87
whole.n.02	16.85	16.57	16.24	18.20
definite_quantity.n.01	11.27	13.77	11.02	9.64
cognition.n.01	8.82	9.38	8.90	8.21
person.n.01	7.95	6.75	8.39	8.12
message.n.02	7.76	6.17	8.11	8.41
location.n.01	5.61	4.82	5.78	5.94
collection.n.01	5.03	3.84	5.06	5.95
land.n.04	4.86	4.91	5.60	3.46
state.n.02	3.45	3.86	3.21	3.56
written_communication.n.01	3.38	3.59	3.16	3.61
substance.n.01	3.00	2.75	3.11	3.02
total	100.00	100.00	100.00	100.00

TABLE S71. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 12

	g.	p.	i.	h.
public.a.01	27.60	16.40	25.87	39.95
new.a.01	16.10	24.26	12.72	17.16
internal.a.01	13.07	15.88	16.56	3.35
chief.s.01	10.92	16.06	11.04	6.70
like.a.01	9.35	7.85	10.30	8.45
able.a.01	4.30	5.24	3.97	4.29
capable.s.02	3.68	3.49	4.84	1.34
certain.a.02	3.31	3.66	3.04	3.62
good.a.01	3.14	1.92	2.98	4.42
true.a.01	3.04	1.75	3.10	3.89
different.a.01	2.90	1.92	3.16	3.08
available.a.01	2.59	1.57	2.42	3.75
total	100.00	100.00	100.00	100.00

TABLE S72. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 12

	g.	p.	i.	h.
make.v.03	16.17	14.94	15.37	18.50
act.v.01	14.12	13.52	14.44	14.02
change.v.01	12.80	14.90	11.91	12.76
travel.v.01	10.25	11.26	10.05	9.85
move.v.02	8.08	8.46	7.89	8.11
change.v.02	7.76	7.24	7.10	9.31
use.v.01	7.35	7.03	8.05	6.35
think.v.03	6.53	5.57	7.11	6.25
get.v.01	5.91	5.69	7.08	4.04
necessitate.v.01	3.91	4.52	3.67	3.85
be.v.01	3.82	4.14	4.00	3.25
satisfy.v.02	3.30	2.72	3.33	3.69
total	100.00	100.00	100.00	100.00
interact.v.01	16.38	15.81	16.54	16.53
construct.v.01	13.92	12.54	12.79	17.22
evaluate.v.02	9.48	6.19	11.06	9.10
change_magnitude.v.01	8.50	6.96	8.43	9.86
travel_rapidly.v.01	7.10	8.16	7.89	4.72
put.v.01	7.03	9.02	6.05	7.29
try.v.01	6.84	7.90	6.67	6.32
please.v.01	6.80	5.58	6.63	8.12
empty.v.01	6.32	8.51	7.68	1.94
follow.v.01	6.25	8.59	3.71	9.24
state.v.01	5.76	5.15	6.45	4.93
keep.v.03	5.61	5.58	6.09	4.72
total	100.00	100.00	100.00	100.00
communicate.v.02	23.25	23.42	22.58	24.50
increase.v.01	12.78	10.66	12.33	15.52
run.v.01	10.78	12.50	11.64	7.54
hollow.v.02	9.59	13.03	11.32	3.10
think.v.01	6.91	3.55	9.14	5.10
update.v.01	6.57	6.84	4.09	11.53
save.v.02	6.04	6.05	6.38	5.32
supply.v.01	5.59	3.68	5.58	7.21
name.v.01	5.14	5.00	5.15	5.21
manipulate.v.02	5.08	0.53	5.53	7.98
write.v.01	4.49	3.29	4.57	5.32
decide.v.02	3.78	11.45	1.70	1.66
total	100.00	100.00	100.00	100.00
inform.v.01	26.68	29.54	26.16	25.52
add.v.01	18.57	16.63	16.95	23.60
core.v.01	15.07	21.66	17.36	4.90
record.v.01	9.49	10.07	9.78	8.39
operate.v.03	7.89	0.44	8.48	12.59
see.v.05	4.34	2.84	5.79	2.45
write.v.07	3.77	0.88	3.75	6.12
propose.v.01	3.01	1.53	3.59	2.97
ask.v.01	2.88	2.19	2.36	4.55
roll_up.v.02	2.88	3.94	2.77	2.27
dispose.v.01	2.79	5.47	1.14	4.20
encase.v.01	2.62	4.81	1.87	2.45
total	100.00	100.00	100.00	100.00

TABLE S73. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 12

	g.	p.	i.	h.
besides.r.02	18.93	17.28	20.85	16.60
well.r.01	11.15	9.26	11.88	11.07
even.r.01	8.36	6.79	8.52	9.09
however.r.01	8.13	6.79	7.62	9.88
still.r.01	7.78	6.79	6.28	11.07
presently.r.02	7.32	9.88	7.62	5.14
possibly.r.01	7.20	4.32	8.97	5.93
already.r.01	7.20	6.17	8.97	4.74
truly.r.01	6.97	11.11	4.93	7.91
actually.r.01	5.81	4.32	6.73	5.14
alternatively.r.01	5.57	6.17	4.04	7.91
automatically.r.01	5.57	11.11	3.59	5.53
total	100.00	100.00	100.00	100.00

TABLE S74. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 12

	g.	p.	i.	h.
NOUN	34.47	47.45	29.72	24.21
X	0.41	0.72	0.09	0.19
ADP	11.11	9.60	11.46	12.33
DET	11.03	10.31	10.62	11.66
VERB	18.35	12.49	22.54	22.79
ADJ	5.82	5.44	5.98	6.12
ADV	6.39	3.69	6.30	8.64
PRT	3.07	2.52	3.34	3.50
PRON	5.68	4.11	6.44	6.91
NUM	0.80	0.93	0.96	0.67
CONJ	2.86	2.75	2.55	2.99
PUNC	0.00	0.00	0.00	0.00
N	65.34	78.71	58.75	50.98
ADJ	10.04	7.86	10.57	12.45
VERB	4.82	2.10	4.06	7.98
ADV	19.80	11.33	26.63	28.59
POS	26.11	21.59	28.66	33.77
POS!	93.55	91.91	92.64	95.60

TABLE S75. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 13

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	65.35	60.71	76.03	72.05
physical_entity.n.01	34.65	39.29	23.97	27.95
total	100.00	100.00	100.00	100.00
measure.n.02	20.33	22.06	31.22	15.88
object.n.01	16.09	17.04	12.01	14.95
psychological_feature.n.01	15.00	10.36	17.70	22.74
communication.n.02	12.90	10.72	12.65	16.75
matter.n.03	10.37	13.69	6.04	5.15
attribute.n.02	9.07	9.90	6.50	7.95
causal_agent.n.01	6.80	7.23	4.12	6.40
group.n.01	4.70	4.68	4.24	4.80
relation.n.01	3.34	3.00	3.66	3.89
thing.n.12	0.89	0.93	0.64	0.86
process.n.06	0.49	0.39	1.16	0.59
set.n.02	0.02	0.00	0.06	0.04
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	22.18	24.31	35.19	16.40
whole.n.02	14.23	14.15	12.65	14.59
event.n.01	10.57	8.25	13.32	14.59
substance.n.01	10.26	13.15	6.77	5.28
cognition.n.01	8.39	4.51	9.30	15.60
person.n.01	8.14	8.13	5.28	8.54
property.n.02	6.08	7.46	2.90	3.90
location.n.01	5.37	6.09	2.31	4.43
message.n.02	4.56	3.33	6.03	6.68
signal.n.01	4.06	5.37	0.67	2.02
written_communication.n.01	3.53	1.92	4.61	6.41
substance.n.07	2.64	3.33	0.97	1.56
total	100.00	100.00	100.00	100.00

TABLE S76. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 13

	g.	p.	i.	h.
like.a.01	18.14	7.70	30.61	30.00
new.a.01	16.09	12.48	16.33	20.58
first.a.01	9.36	10.02	4.08	9.04
strong.a.01	8.46	15.87	0.00	0.00
public.a.01	7.39	8.78	22.45	4.23
better.a.01	7.22	9.86	2.04	4.42
incorrect.a.01	6.57	4.47	6.12	9.23
many.a.01	6.08	7.55	2.04	4.62
solid.s.01	5.34	9.71	0.00	0.38
up-to-the-minute.s.01	5.17	8.78	4.08	0.77
small.a.01	5.17	2.47	2.04	8.85
good.a.01	5.01	2.31	10.20	7.88
total	100.00	100.00	100.00	100.00

TABLE S77. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 13

	g.	p.	i.	h.
act.v.01	15.19	17.31	12.88	14.51
think.v.03	13.76	11.88	9.13	15.02
change.v.01	11.54	9.39	11.24	12.50
travel.v.01	8.48	7.05	12.18	8.73
move.v.02	8.28	14.16	6.32	5.94
make.v.03	8.18	4.99	11.71	9.20
change.v.02	7.86	9.77	6.09	7.21
use.v.01	6.48	2.44	7.49	8.12
get.v.01	6.05	7.54	7.96	5.22
make.v.01	5.96	3.85	6.32	6.83
be.v.01	4.46	2.55	6.56	5.08
transfer.v.05	3.76	9.06	2.11	1.64
total	100.00	100.00	100.00	100.00
evaluate.v.02	24.66	24.81	16.42	25.44
interact.v.01	21.34	28.44	12.94	19.42
state.v.01	7.50	8.70	5.47	7.23
better.v.02	6.28	4.16	6.97	7.03
give.v.03	5.94	12.99	4.48	3.34
keep.v.03	5.43	2.86	6.97	6.27
construct.v.01	5.29	1.04	7.96	6.68
see.v.01	5.16	2.99	10.95	5.41
put.v.01	4.72	4.42	5.97	4.70
look.v.02	4.68	1.82	11.44	5.11
try.v.01	4.58	5.32	6.97	4.05
change_state.v.01	4.44	2.47	3.48	5.31
total	100.00	100.00	100.00	100.00
communicate.v.02	27.85	34.93	19.67	25.44
think.v.01	14.00	6.62	14.75	17.21
expect.v.01	12.51	19.87	9.02	9.56
repair.v.01	6.47	0.33	9.84	8.90
supply.v.01	5.85	11.92	7.38	3.01
increase.v.01	5.80	1.82	9.84	7.21
align.v.01	5.42	18.21	0.00	0.22
name.v.01	5.03	3.31	15.57	4.85
write.v.01	4.46	1.66	3.28	5.81
save.v.02	4.46	1.32	8.20	5.51
match.v.05	4.12	0.00	0.00	6.32
integrate.v.03	4.03	0.00	2.46	5.96
total	100.00	100.00	100.00	100.00
inform.v.01	33.16	34.71	27.66	32.74
add.v.01	9.50	1.93	23.40	12.38
record.v.01	8.18	2.20	21.28	10.32
balance.v.01	7.56	0.00	0.00	11.83
think.v.02	7.56	17.08	2.13	3.16
unify.v.01	7.39	0.00	6.38	11.14
restrain.v.01	5.45	16.25	0.00	0.41
mention.v.01	4.75	0.83	2.13	6.88
see.v.05	4.57	6.06	6.38	3.71
offer.v.01	4.40	13.22	0.00	0.28
overlap.v.01	3.96	2.48	4.26	4.68
talk.v.02	3.52	5.23	6.38	2.48
total	100.00	100.00	100.00	100.00

TABLE S78. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 13

	g.	p.	i.	h.
truly.r.01	13.05	5.91	10.87	14.81
besides.r.02	11.42	11.83	13.04	11.23
actually.r.01	10.17	1.61	10.87	12.10
back.r.01	8.83	31.72	0.00	4.07
possibly.r.01	8.06	2.15	13.04	9.14
even.r.01	8.06	10.22	10.87	7.41
still.r.01	7.87	4.84	6.52	8.64
well.r.01	7.39	10.75	10.87	6.42
already.r.01	6.72	4.30	6.52	7.28
alternatively.r.01	6.33	3.76	8.70	6.79
right.r.01	6.24	7.53	6.52	5.93
never.r.01	5.85	5.38	2.17	6.17
total	100.00	100.00	100.00	100.00

TABLE S79. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 13

	g.	p.	i.	h.
NOUN	31.95	38.90	29.85	26.68
X	0.15	0.35	0.08	0.06
ADP	11.47	10.42	11.68	12.82
DET	11.57	10.71	11.81	12.29
VERB	21.13	18.84	21.99	22.03
ADJ	4.89	4.55	4.97	5.25
ADV	5.39	4.25	5.57	7.07
PRT	3.83	3.43	3.99	3.92
PRON	5.84	5.09	6.10	6.27
NUM	1.00	0.85	1.08	0.88
CONJ	2.78	2.61	2.88	2.71
PUNC	0.00	0.00	0.00	0.00
N	63.62	67.80	62.91	56.66
ADJ	8.56	7.77	8.65	10.09
VERB	4.51	3.43	4.64	6.60
ADV	23.31	21.01	23.79	26.65
POS	35.11	35.23	35.18	34.41
POS!	93.54	94.80	93.25	91.99

TABLE S80. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 15

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	65.82	65.11	66.56	63.41
physical_entity.n.01	34.18	34.89	33.44	36.59
total	100.00	100.00	100.00	100.00
measure.n.02	23.47	18.80	26.32	20.18
object.n.01	15.72	15.88	15.18	18.59
psychological_feature.n.01	14.74	14.81	14.64	15.13
causal_agent.n.01	11.16	11.24	11.51	8.69
communication.n.02	10.75	12.44	9.77	11.67
attribute.n.02	8.97	9.10	8.80	9.64
group.n.01	5.37	6.58	4.89	4.55
matter.n.03	5.27	6.11	4.75	5.87
relation.n.01	2.53	3.37	2.15	2.25
process.n.06	1.50	1.23	1.58	1.80
thing.n.12	0.53	0.42	0.41	1.63
set.n.02	0.00	0.01	0.00	0.00
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	22.37	17.99	24.78	20.63
whole.n.02	15.46	14.26	15.37	19.94
person.n.01	13.67	14.16	13.81	11.15
event.n.01	12.95	13.29	12.67	13.74
cognition.n.01	6.00	5.89	6.00	6.35
substance.n.01	5.20	6.45	4.43	6.26
state.n.02	4.82	5.40	4.51	4.93
message.n.02	4.72	4.72	4.68	5.06
fundamental_quantity.n.01	4.29	3.81	4.93	1.67
location.n.01	4.26	5.53	3.58	4.68
written_communication.n.01	3.29	3.82	2.95	3.79
social_group.n.01	2.96	4.67	2.29	1.80
total	100.00	100.00	100.00	100.00

TABLE S81. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 15

	g.	p.	i.	h.
capable.s.02	19.86	22.45	21.84	0.00
new.a.01	15.56	19.58	13.41	20.13
like.a.01	13.73	10.44	13.31	24.68
able.a.01	8.92	11.23	8.33	7.14
certain.a.02	7.02	4.70	7.38	10.39
good.a.01	5.88	2.61	6.70	8.44
full.a.01	5.38	6.27	5.46	2.60
net.a.01	5.06	5.48	4.89	5.19
spare.s.01	4.81	1.04	6.42	3.25
all_right.s.01	4.81	5.48	4.21	7.14
best.a.01	4.49	3.92	4.89	3.25
local.a.01	4.49	6.79	3.16	7.79
total	100.00	100.00	100.00	100.00

TABLE S82. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 15

	g.	p.	i.	h.
act.v.01	16.39	17.43	16.18	15.40
travel.v.01	12.12	11.83	12.55	10.58
move.v.02	11.58	13.27	11.74	7.53
make.v.03	9.11	7.01	9.34	12.10
change.v.01	9.00	10.73	8.09	10.07
use.v.01	8.75	8.06	8.95	9.14
think.v.03	8.15	6.40	8.69	8.97
get.v.01	7.15	7.75	7.27	5.41
change.v.02	5.60	7.05	4.83	6.51
connect.v.01	4.19	4.03	4.37	3.64
express.v.02	4.01	3.42	3.86	5.84
perceive.v.01	3.94	3.02	4.12	4.82
total	100.00	100.00	100.00	100.00
interact.v.01	19.70	21.82	18.60	21.01
evaluate.v.02	13.45	11.09	14.37	13.45
travel_rapidly.v.01	10.67	10.55	11.10	8.91
state.v.01	8.01	7.00	7.68	11.43
send.v.01	7.99	10.45	8.53	0.84
put.v.01	7.97	8.45	7.50	9.24
create_verbally.v.01	7.08	5.09	7.01	11.09
try.v.01	5.88	6.73	5.62	5.55
see.v.01	5.66	3.36	6.26	7.06
attach.v.01	5.30	4.18	5.80	5.04
handle.v.04	4.22	3.00	4.55	4.87
give.v.03	4.08	8.27	2.99	1.51
total	100.00	100.00	100.00	100.00
communicate.v.02	28.72	33.14	27.41	26.56
run.v.01	16.95	16.50	17.82	13.80
write.v.01	11.24	7.97	11.25	17.19
manipulate.v.02	6.66	4.55	7.31	7.55
think.v.01	6.24	4.41	6.68	7.55
read.v.01	5.50	3.13	6.00	7.55
convey.v.03	4.58	6.26	4.74	0.78
increase.v.01	4.30	3.84	4.23	5.47
rate.v.01	4.05	5.41	3.88	2.34
save.v.02	4.05	3.98	4.00	4.43
expect.v.01	3.91	2.28	4.23	5.47
supply.v.01	3.81	8.53	2.46	1.30
total	100.00	100.00	100.00	100.00
inform.v.01	30.69	38.28	29.29	21.28
operate.v.03	11.66	7.42	12.71	15.43
talk.v.02	8.12	5.02	9.53	7.45
record.v.01	7.13	6.70	6.95	9.04
upgrade.v.01	7.01	8.85	6.65	4.79
write.v.07	6.51	7.18	5.86	8.51
add.v.01	5.95	4.78	5.76	9.57
permit.v.01	5.58	3.83	6.36	5.32
communicate.v.01	5.52	8.13	5.16	1.60
see.v.05	4.53	4.55	4.67	3.72
replace.v.01	3.84	2.39	3.87	6.91
propose.v.01	3.47	2.87	3.18	6.38
total	100.00	100.00	100.00	100.00

TABLE S83. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 15

	g.	p.	i.	h.
besides.r.02	19.73	31.72	18.36	13.11
well.r.01	11.93	13.44	11.26	13.11
back.r.01	9.69	9.14	10.19	8.20
still.r.01	9.33	8.06	8.45	14.21
actually.r.01	8.16	5.38	8.58	9.29
however.r.01	7.17	9.68	7.64	2.73
even.r.01	6.91	6.45	5.90	11.48
originally.r.01	6.28	1.08	8.98	0.55
truly.r.01	5.74	2.69	5.63	9.29
presently.r.02	5.38	6.45	5.50	3.83
never.r.01	4.84	5.38	4.69	4.92
possibly.r.01	4.84	0.54	4.83	9.29
total	100.00	100.00	100.00	100.00

TABLE S84. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 15

	g.	p.	i.	h.
NOUN	36.15	49.76	32.28	28.41
X	0.63	0.94	0.67	0.33
ADP	10.52	8.22	10.98	12.05
DET	9.62	7.84	9.88	10.90
VERB	20.13	15.74	21.14	22.88
ADJ	4.93	4.10	5.17	5.40
ADV	6.15	3.75	6.76	7.60
PRT	3.36	2.52	3.95	3.46
PRON	5.07	3.98	5.72	5.33
NUM	1.04	1.11	1.02	1.01
CONJ	2.38	2.04	2.43	2.63
PUNC	0.00	0.00	0.00	0.00
N	65.42	77.22	60.81	56.34
ADJ	8.23	5.58	9.40	10.11
VERB	4.17	2.04	4.72	6.12
ADV	22.19	15.16	25.08	27.43
POS	31.20	34.47	29.46	29.76
POS!	94.12	95.14	93.10	94.05

TABLE S85. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 16

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	70.25	72.62	69.35	67.44
physical_entity.n.01	29.75	27.38	30.65	32.56
total	100.00	100.00	100.00	100.00
measure.n.02	22.32	16.98	30.43	21.31
communication.n.02	18.13	25.33	10.70	15.20
object.n.01	17.34	16.45	17.68	18.41
psychological_feature.n.01	12.96	8.55	15.22	17.53
attribute.n.02	9.75	14.44	5.63	6.98
matter.n.03	6.61	6.65	6.59	6.57
causal_agent.n.01	4.65	3.46	5.31	5.82
group.n.01	3.94	3.82	4.87	3.01
relation.n.01	3.15	3.49	2.50	3.39
thing.n.12	0.71	0.40	0.67	1.27
process.n.06	0.44	0.43	0.41	0.49
set.n.02	0.00	0.00	0.00	0.02
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	24.09	17.56	33.93	23.03
whole.n.02	13.85	9.13	16.60	18.47
signal.n.01	9.57	20.30	1.16	1.73
event.n.01	9.05	6.41	9.55	12.93
substance.n.01	6.82	6.86	6.64	6.95
property.n.02	6.56	12.46	2.18	1.95
cognition.n.01	6.14	3.57	8.23	7.92
location.n.01	6.06	9.76	3.38	3.06
person.n.01	5.41	3.96	6.16	6.95
message.n.02	5.32	4.25	5.24	7.24
written_communication.n.01	3.57	2.71	3.48	5.13
state.n.02	3.57	3.02	3.45	4.64
total	100.00	100.00	100.00	100.00

TABLE S86. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 16

	g.	p.	i.	h.
like.a.01	12.92	12.06	13.44	12.77
new.a.01	11.22	11.35	7.66	14.89
inactive.s.10	10.57	7.09	10.00	12.77
common.a.01	10.24	1.06	12.66	11.95
net.a.01	9.92	20.21	5.78	9.49
local.a.01	9.85	4.96	13.59	8.18
chief.s.01	9.00	22.34	8.75	3.11
different.a.01	6.00	4.61	7.34	5.24
current.a.01	5.48	2.13	5.47	7.04
certain.a.02	5.02	5.32	5.31	4.58
dynamic.a.01	4.89	6.03	5.31	3.93
possible.a.01	4.89	2.84	4.69	6.06
total	100.00	100.00	100.00	100.00

TABLE S87. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 16

	g.	p.	i.	h.
act.v.01	15.58	27.48	11.12	11.63
make.v.03	11.61	7.65	13.79	12.20
move.v.02	11.05	12.13	10.73	10.61
think.v.03	10.57	7.86	11.89	11.15
use.v.01	9.54	5.55	10.90	11.00
travel.v.01	8.32	7.98	8.60	8.27
change.v.01	7.61	5.14	7.92	9.08
make.v.01	6.52	7.40	5.48	6.98
change.v.02	5.41	5.88	4.85	5.66
get.v.01	5.02	6.46	4.77	4.23
be.v.01	4.66	4.32	4.71	4.85
exist.v.01	4.11	2.14	5.25	4.35
total	100.00	100.00	100.00	100.00
interact.v.01	14.04	16.20	12.32	14.29
evaluate.v.02	13.13	7.94	14.39	15.69
put.v.01	13.05	10.80	13.84	13.87
construct.v.01	9.82	6.75	11.02	10.83
check.v.01	7.17	1.75	8.63	9.67
set_about.v.01	7.08	26.45	0.11	0.06
coexist.v.02	7.06	3.97	9.34	6.87
state.v.01	6.66	5.32	7.38	6.87
keep.v.03	6.28	3.97	8.20	5.90
associate.v.01	6.13	5.88	7.11	5.23
try.v.01	4.93	5.64	5.05	4.26
give.v.03	4.66	5.32	2.61	6.45
total	100.00	100.00	100.00	100.00
communicate.v.02	20.79	22.33	18.18	22.61
install.v.01	11.88	7.44	12.44	15.01
confront.v.02	11.31	39.98	0.17	0.10
coincide.v.01	11.27	6.00	14.75	11.61
think.v.01	7.13	3.72	8.92	7.91
increase.v.01	7.07	3.96	7.03	9.76
run.v.01	6.12	3.24	7.20	7.30
store.v.01	5.79	3.96	7.72	5.04
expect.v.01	5.08	2.52	5.49	6.78
repair.v.01	4.74	1.92	5.23	6.58
declare.v.01	4.51	2.88	5.32	4.93
write.v.01	4.31	2.04	7.55	2.36
total	100.00	100.00	100.00	100.00
inform.v.01	25.74	36.44	20.28	25.97
overlap.v.01	19.76	14.12	23.75	18.34
add.v.01	11.48	8.19	10.83	14.12
roll_up.v.02	10.06	9.32	12.36	7.79
record.v.01	7.16	4.24	8.33	7.47
communicate.v.01	4.08	7.63	3.19	3.08
think.v.02	3.96	0.85	6.11	3.25
promise.v.01	3.85	4.80	4.72	2.27
believe.v.01	3.67	5.08	2.78	3.90
propose.v.01	3.55	1.98	3.47	4.55
assume.v.01	3.37	3.39	1.39	5.68
talk.v.02	3.31	3.95	2.78	3.57
total	100.00	100.00	100.00	100.00

TABLE S88. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 16

	g.	p.	i.	h.
besides.r.02	13.75	19.35	12.53	12.56
well.r.01	10.51	8.60	12.04	9.91
even.r.01	9.74	5.91	8.35	12.56
still.r.01	9.65	9.14	11.06	8.59
truly.r.01	8.60	6.99	11.79	6.39
already.r.01	8.40	13.44	6.63	7.93
alternatively.r.01	7.93	6.45	6.88	9.47
possibly.r.01	7.64	4.30	7.37	9.25
however.r.01	6.59	2.15	6.63	8.37
actually.r.01	6.40	3.23	7.13	7.05
first.r.01	5.54	12.90	4.42	3.52
always.r.01	5.25	7.53	5.16	4.41
total	100.00	100.00	100.00	100.00

TABLE S89. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 16

	g.	p.	i.	h.
NOUN	34.67	36.42	35.75	33.45
X	0.11	0.14	0.10	0.11
ADP	10.41	10.58	10.06	10.64
DET	9.53	8.75	9.38	9.81
VERB	21.88	21.08	22.01	21.95
ADJ	5.79	5.32	5.84	5.85
ADV	5.71	5.17	5.62	5.90
PRT	3.18	3.27	3.17	3.18
PRON	5.32	5.58	4.89	5.59
NUM	0.95	1.01	0.73	1.11
CONJ	2.46	2.68	2.45	2.42
PUNC	0.00	0.00	0.00	0.00
N	62.99	65.96	62.19	62.89
ADJ	9.30	7.99	9.54	9.43
VERB	3.72	3.45	3.71	3.79
ADV	24.00	22.60	24.57	23.89
POS	30.52	32.32	29.55	30.89
POS!	92.74	94.96	92.45	92.46

TABLE S90. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 17

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	64.42	66.92	63.85	64.23
physical_entity.n.01	35.58	33.08	36.15	35.77
total	100.00	100.00	100.00	100.00
measure.n.02	22.91	23.80	22.36	23.10
object.n.01	20.04	21.24	19.00	20.53
psychological_feature.n.01	15.92	16.62	15.04	16.40
communication.n.02	11.21	12.66	11.77	10.44
causal_agent.n.01	8.87	7.37	9.51	8.75
attribute.n.02	7.55	7.06	7.14	7.97
matter.n.03	5.52	3.01	6.93	5.08
group.n.01	4.05	4.19	4.46	3.71
relation.n.01	2.78	2.59	3.08	2.60
thing.n.12	0.73	0.62	0.54	0.89
process.n.06	0.43	0.84	0.17	0.51
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	24.06	25.44	22.94	24.56
whole.n.02	19.02	20.68	17.99	19.38
event.n.01	11.84	12.89	12.39	11.17
person.n.01	10.03	8.36	10.85	9.81
cognition.n.01	6.79	6.66	5.24	7.99
message.n.02	6.19	6.39	6.79	5.69
substance.n.01	6.03	2.86	7.65	5.59
location.n.01	3.84	3.23	4.03	3.84
state.n.02	3.67	4.86	3.50	3.51
written_communication.n.01	3.47	3.93	3.69	3.20
shape.n.02	2.61	1.76	2.37	2.99
collection.n.01	2.46	2.93	2.55	2.27
total	100.00	100.00	100.00	100.00

TABLE S91. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 17

	g.	p.	i.	h.
public.a.01	29.35	12.42	42.72	19.01
new.a.01	10.96	13.66	9.21	12.20
like.a.01	10.28	12.42	9.61	10.50
capable.s.02	8.48	4.35	9.88	7.94
net.a.01	7.93	1.24	1.34	16.45
virtual.s.01	5.76	6.83	4.67	6.67
able.a.01	5.33	6.21	5.74	4.68
certain.a.02	5.20	4.35	3.74	6.95
available.a.01	4.46	6.83	4.14	4.26
all_right.s.01	4.33	18.63	3.07	2.41
false.a.01	4.15	4.97	3.34	4.82
true.a.01	3.78	8.07	2.54	4.11
total	100.00	100.00	100.00	100.00

TABLE S92. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 17

	g.	p.	i.	h.
move.v.02	14.30	17.34	14.72	13.27
act.v.01	13.53	15.72	13.65	12.93
change.v.01	12.37	14.50	13.34	11.11
travel.v.01	10.87	9.76	10.74	11.23
make.v.03	9.60	7.99	9.44	10.09
use.v.01	7.38	5.42	7.22	7.96
think.v.03	7.11	8.27	5.70	7.99
change.v.02	6.78	6.23	7.11	6.63
connect.v.01	5.16	5.56	6.15	4.26
get.v.01	4.66	4.47	5.24	4.23
perceive.v.01	4.37	2.98	3.82	5.12
necessitate.v.01	3.88	1.76	2.87	5.18
total	100.00	100.00	100.00	100.00
put.v.01	16.24	24.23	16.10	14.47
interact.v.01	12.17	13.01	12.06	12.07
evaluate.v.02	11.23	11.22	8.64	13.45
try.v.01	10.14	12.76	10.66	9.07
travel_rapidly.v.01	9.25	6.12	9.20	10.03
change_magnitude.v.01	8.77	6.89	8.71	9.25
see.v.01	6.79	4.08	5.85	8.23
state.v.01	5.33	5.10	4.95	5.77
keep.v.03	5.21	4.85	6.97	3.78
send.v.01	5.16	3.57	5.85	4.92
spice.v.01	4.87	2.04	6.41	4.20
attach.v.01	4.84	6.12	4.60	4.74
total	100.00	100.00	100.00	100.00
communicate.v.02	16.93	17.25	16.61	17.12
install.v.01	15.82	22.18	17.82	12.42
run.v.01	14.32	8.45	14.52	15.71
increase.v.01	13.48	9.15	13.64	14.49
hollow.v.02	6.87	17.61	4.73	5.83
think.v.01	6.56	7.04	4.29	8.37
save.v.02	6.47	4.93	8.91	4.80
write.v.01	4.52	1.41	5.94	4.14
name.v.01	4.48	3.87	3.30	5.64
expect.v.01	4.12	3.17	3.63	4.80
repair.v.01	3.28	2.46	2.64	4.05
update.v.01	3.15	2.46	3.96	2.63
total	100.00	100.00	100.00	100.00
inform.v.01	22.22	24.48	22.05	21.73
add.v.01	21.85	17.48	22.50	22.54
core.v.01	14.35	34.97	9.77	12.47
record.v.01	13.52	9.79	18.41	10.26
grow.v.02	6.11	0.00	5.45	8.45
overlap.v.01	3.70	1.40	3.41	4.63
operate.v.03	3.24	2.10	2.50	4.23
assume.v.01	3.24	3.50	2.50	3.82
propose.v.01	3.06	4.20	2.95	2.82
configure.v.01	3.06	1.40	3.41	3.22
ask.v.01	2.96	0.00	2.73	4.02
enumerate.v.01	2.69	0.70	4.32	1.81
total	100.00	100.00	100.00	100.00

TABLE S93. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 17

	g.	p.	i.	h.
besides.r.02	19.65	18.06	22.68	17.66
still.r.01	13.58	11.11	15.99	12.25
possibly.r.01	8.24	9.72	10.04	6.55
well.r.01	8.24	6.94	5.20	10.83
yet.r.01	7.66	4.17	8.18	7.98
manually.r.01	7.23	6.94	8.18	6.55
already.r.01	7.08	4.17	5.20	9.12
however.r.01	7.08	8.33	8.18	5.98
first.r.01	6.36	11.11	4.46	6.84
probably.r.01	5.20	6.94	3.72	5.98
truly.r.01	5.06	8.33	4.09	5.13
presently.r.02	4.62	4.17	4.09	5.13
total	100.00	100.00	100.00	100.00

TABLE S94. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 17

	g.	p.	i.	h.
NOUN	26.73	42.95	28.30	23.87
X	0.21	0.16	0.39	0.16
ADP	11.91	8.93	11.61	12.44
DET	11.99	9.30	11.25	12.63
VERB	21.60	17.03	21.58	22.25
ADJ	6.31	6.38	6.25	6.33
ADV	7.49	5.11	7.32	7.89
PRT	3.86	2.56	3.70	4.10
PRON	6.08	4.29	5.87	6.41
NUM	0.84	1.01	0.81	0.82
CONJ	2.98	2.30	2.91	3.10
PUNC	0.00	0.00	0.00	0.00
N	56.20	71.61	56.96	52.63
ADJ	12.07	8.90	11.66	12.89
VERB	6.81	3.60	6.34	7.67
ADV	24.93	15.89	25.04	26.81
POS	32.94	35.77	32.14	32.70
POS!	95.54	95.29	94.63	95.93

TABLE S95. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 18

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	68.59	61.52	71.79	69.36
physical_entity.n.01	31.41	38.48	28.21	30.64
total	100.00	100.00	100.00	100.00
communication.n.02	19.73	19.37	19.64	19.88
object.n.01	19.19	24.69	16.18	18.81
measure.n.02	17.16	14.34	20.05	16.81
psychological_feature.n.01	16.04	9.55	17.45	17.36
attribute.n.02	8.43	11.56	7.82	7.77
matter.n.03	5.20	8.23	4.58	4.57
causal_agent.n.01	4.83	3.52	5.26	5.03
group.n.01	4.50	3.76	4.36	4.77
relation.n.01	2.71	2.90	2.45	2.76
thing.n.12	1.34	1.25	1.62	1.25
process.n.06	0.85	0.79	0.58	0.98
set.n.02	0.02	0.03	0.01	0.01
total	100.00	100.00	100.00	100.00
whole.n.02	17.85	24.14	14.38	17.26
definite_quantity.n.01	17.36	14.62	20.22	17.08
event.n.01	12.45	7.21	14.41	13.31
cognition.n.01	8.10	4.21	8.34	9.23
message.n.02	7.35	4.20	7.16	8.42
location.n.01	6.16	5.08	5.94	6.58
person.n.01	6.06	3.67	6.76	6.54
written_communication.n.01	5.73	2.69	6.76	6.27
substance.n.01	5.43	8.35	4.79	4.77
property.n.02	5.23	10.84	4.72	3.66
indication.n.01	4.41	2.58	4.58	4.92
signal.n.01	3.87	12.42	1.92	1.95
total	100.00	100.00	100.00	100.00

TABLE S96. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 18

	g.	p.	i.	h.
like.a.01	18.51	13.16	17.00	19.52
new.a.01	11.41	15.79	13.20	10.41
good.a.01	8.80	7.89	6.94	9.46
able.a.01	7.68	4.61	7.16	8.16
possible.a.01	7.44	6.58	9.84	6.80
first.a.01	7.44	8.55	8.28	7.07
free.a.01	6.96	9.21	5.37	7.21
net.a.01	6.86	11.84	6.26	6.53
different.a.01	6.81	3.95	6.71	7.14
certain.a.02	6.52	1.32	7.16	6.87
much.a.01	5.85	8.55	5.82	5.58
small.a.01	5.70	8.55	6.26	5.24
total	100.00	100.00	100.00	100.00

TABLE S97. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 18

	g.	p.	i.	h.
act.v.01	13.98	20.77	14.58	12.86
use.v.01	10.96	7.34	10.89	11.46
think.v.03	10.39	9.45	10.52	10.47
change.v.01	10.12	6.59	11.72	10.01
make.v.03	9.01	5.72	8.44	9.65
change.v.02	8.87	22.26	8.86	7.10
move.v.02	7.83	6.59	7.84	7.99
travel.v.01	7.34	5.60	7.93	7.36
make.v.01	6.74	4.35	5.95	7.35
express.v.02	5.16	5.35	5.30	5.09
desire.v.01	4.87	2.49	4.61	5.27
necessitate.v.01	4.73	3.48	3.37	5.39
total	100.00	100.00	100.00	100.00
interact.v.01	20.35	30.03	21.33	18.96
evaluate.v.02	16.42	17.25	17.96	15.78
state.v.01	10.80	13.42	10.95	10.46
change_magnitude.v.01	7.59	7.67	6.63	7.92
create_verbally.v.01	7.35	4.15	5.57	8.33
keep.v.03	7.05	2.56	8.07	7.17
put.v.01	6.70	2.88	4.90	7.75
interpret.v.01	6.02	7.03	5.19	6.21
attach.v.01	5.22	1.92	5.76	5.38
see.v.01	4.61	6.71	5.67	4.01
manage.v.02	4.07	3.51	4.13	4.12
label.v.01	3.82	2.88	3.84	3.91
total	100.00	100.00	100.00	100.00
communicate.v.02	26.18	23.92	29.28	25.48
think.v.01	13.38	9.14	16.27	13.15
write.v.01	10.33	3.49	8.20	12.39
increase.v.01	9.67	5.91	9.05	10.60
read.v.01	7.93	4.57	7.07	8.87
store.v.01	6.22	0.81	7.64	6.73
name.v.01	5.29	2.42	5.66	5.71
align.v.01	4.70	36.56	0.42	0.20
declare.v.01	4.51	4.30	5.09	4.33
expect.v.01	4.44	2.69	4.10	4.89
encode.v.01	3.68	5.65	3.82	3.26
tag.v.01	3.68	0.54	3.39	4.38
total	100.00	100.00	100.00	100.00
inform.v.01	28.44	46.83	23.25	27.98
add.v.01	17.67	11.11	17.09	18.72
record.v.01	7.30	3.97	8.12	7.43
write.v.02	6.62	2.38	12.89	4.88
talk.v.01	5.46	7.14	5.04	5.39
ask.v.01	5.39	8.73	5.32	4.98
mention.v.01	5.18	4.76	1.96	6.41
think.v.02	5.12	3.17	5.32	5.29
propose.v.01	4.84	3.17	6.72	4.37
code.v.01	4.77	0.79	4.76	5.29
talk.v.02	4.71	0.79	5.60	4.88
see.v.05	4.50	7.14	3.92	4.37
total	100.00	100.00	100.00	100.00

TABLE S98. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 18

	g.	p.	i.	h.
besides.r.02	18.75	13.21	19.69	18.91
possibly.r.01	12.20	16.04	12.02	11.96
already.r.01	10.87	9.43	9.46	11.38
well.r.01	10.55	10.38	9.21	10.94
even.r.01	8.84	5.66	6.14	9.86
still.r.01	8.74	10.38	7.93	8.84
truly.r.01	7.35	3.77	9.97	6.88
probably.r.01	5.91	5.66	7.67	5.43
merely.r.01	4.42	5.66	4.09	4.42
yet.r.01	4.42	8.49	4.60	4.06
back.r.01	4.05	8.49	4.86	3.48
presently.r.02	3.89	2.83	4.35	3.84
total	100.00	100.00	100.00	100.00

TABLE S99. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 18

	g.	p.	i.	h.
NOUN	23.66	37.14	24.27	20.55
X	0.07	0.12	0.13	0.04
ADP	12.04	10.91	11.90	12.33
DET	11.37	8.67	11.04	12.07
VERB	23.68	19.70	23.75	24.52
ADJ	6.00	5.73	6.12	6.02
ADV	7.52	5.26	7.19	8.12
PRT	4.04	3.17	3.75	4.32
PRON	7.88	5.48	8.07	8.34
NUM	0.73	1.02	0.64	0.70
CONJ	2.99	2.81	3.14	2.98
PUNC	0.00	0.00	0.00	0.00
N	50.77	65.98	50.30	46.59
ADJ	12.33	9.61	12.56	13.03
VERB	6.91	3.17	6.29	8.20
ADV	29.99	21.23	30.85	32.19
POS	32.18	29.88	31.24	33.25
POS!	96.07	95.33	96.06	96.29

TABLE S100. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 19

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	71.94	69.50	68.22	74.32
physical_entity.n.01	28.06	30.50	31.78	25.68
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	18.80	14.77	16.29	21.37
measure.n.02	15.96	19.14	15.46	14.86
communication.n.02	14.51	18.04	13.85	13.34
object.n.01	13.57	13.49	16.72	12.42
group.n.01	10.55	6.21	11.29	12.02
attribute.n.02	8.62	8.47	8.27	8.82
causal_agent.n.01	7.67	4.50	8.83	8.52
matter.n.03	5.43	11.34	5.13	3.16
relation.n.01	3.48	2.87	3.04	3.89
process.n.06	0.84	0.56	0.38	1.13
thing.n.12	0.55	0.61	0.73	0.45
set.n.02	0.01	0.00	0.00	0.02
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	16.12	22.17	15.61	13.99
event.n.01	14.53	12.15	12.61	16.19
whole.n.02	12.31	12.30	15.80	10.96
cognition.n.01	9.32	7.45	7.43	10.78
person.n.01	9.26	5.79	10.58	10.08
message.n.02	8.83	9.71	7.90	8.85
collection.n.01	7.68	3.91	8.02	8.99
substance.n.01	5.70	12.74	5.21	3.17
state.n.02	5.42	2.79	5.46	6.42
location.n.01	3.88	4.45	3.68	3.74
social_group.n.01	3.61	2.69	3.97	3.83
written_communication.n.01	3.34	3.85	3.72	3.01
total	100.00	100.00	100.00	100.00

TABLE S101. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 19

	g.	p.	i.	h.
new.a.01	19.22	31.50	13.06	18.79
like.a.01	18.24	6.50	20.18	20.13
public.a.01	10.06	22.00	17.51	4.59
excess.s.01	9.36	1.50	12.17	10.07
good.a.01	9.29	8.50	6.53	10.51
old.a.01	5.38	4.00	3.86	6.26
many.a.01	5.17	4.50	5.04	5.37
current.a.01	5.03	3.00	5.93	5.15
certain.a.02	4.96	3.00	3.56	5.93
first.a.01	4.47	7.50	4.15	3.91
much.a.01	4.40	4.00	3.56	4.81
small.a.01	4.40	4.00	4.45	4.47
total	100.00	100.00	100.00	100.00

TABLE S102. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 19

	g.	p.	i.	h.
act.v.01	14.04	14.34	11.91	14.74
think.v.03	13.35	8.66	12.53	14.54
move.v.02	9.79	12.02	9.84	9.35
change.v.02	9.70	8.27	9.15	10.16
make.v.03	9.66	10.47	10.67	9.15
travel.v.01	8.23	9.17	8.60	7.92
make.v.01	7.55	10.85	10.12	6.00
change.v.01	6.99	7.11	8.33	6.50
use.v.01	5.64	5.43	5.99	5.56
get.v.01	5.44	5.17	4.89	5.68
desire.v.01	5.25	4.13	4.54	5.71
express.v.02	4.36	4.39	3.44	4.68
total	100.00	100.00	100.00	100.00
evaluate.v.02	23.05	17.16	21.63	24.51
interact.v.01	16.87	21.89	14.37	16.84
put.v.01	9.65	12.13	12.86	8.17
state.v.01	8.95	10.06	7.56	9.22
construct.v.01	6.99	8.58	9.08	6.03
change_magnitude.v.01	5.76	6.80	4.84	5.88
choose.v.01	5.36	5.92	3.78	5.78
modify.v.01	5.19	3.85	6.20	5.08
see.v.01	4.82	4.73	4.99	4.78
take.v.01	4.49	1.18	4.39	5.08
try.v.01	4.46	5.03	4.69	4.29
re-create.v.01	4.42	2.66	5.60	4.33
total	100.00	100.00	100.00	100.00
communicate.v.02	23.79	29.52	19.12	24.36
think.v.01	20.09	14.54	19.82	21.17
increase.v.01	8.48	10.13	6.91	8.72
update.v.01	6.83	5.29	8.06	6.69
install.v.01	6.58	11.01	11.52	4.12
accept.v.01	5.81	3.08	3.46	7.08
bend.v.01	5.81	5.29	6.45	5.68
stage.v.01	5.65	2.64	6.91	5.76
repair.v.01	4.52	4.41	6.22	3.97
write.v.01	4.32	4.41	5.30	3.97
supply.v.01	4.16	7.05	3.23	3.97
read.v.01	3.96	2.64	3.00	4.51
total	100.00	100.00	100.00	100.00
inform.v.01	24.55	35.48	27.78	21.81
add.v.01	14.18	15.32	15.15	13.72
arch.v.01	10.66	9.68	14.14	9.88
see.v.05	8.28	7.26	6.06	9.05
believe.v.01	7.33	2.42	6.06	8.50
submit.v.01	6.95	5.65	8.08	6.86
ask.v.01	5.61	2.42	5.56	6.17
mention.v.01	4.95	3.23	2.53	5.90
roll_up.v.02	4.76	7.26	9.09	3.16
propose.v.01	4.66	4.84	3.03	5.08
talk.v.02	4.28	0.81	1.52	5.62
write.v.02	3.81	5.65	1.01	4.25
total	100.00	100.00	100.00	100.00

TABLE S103. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 19

	g.	p.	i.	h.
besides.r.02	18.67	23.81	18.97	17.98
well.r.01	12.51	11.90	14.36	12.08
truly.r.01	10.80	7.14	9.74	11.52
possibly.r.01	9.89	9.52	10.77	9.69
still.r.01	9.49	14.29	8.72	9.13
already.r.01	7.27	8.33	8.72	6.74
even.r.01	6.46	5.95	3.59	7.30
actually.r.01	5.85	4.76	6.67	5.76
enough.r.01	5.25	2.38	2.05	6.46
probably.r.01	5.15	7.14	5.13	4.92
presently.r.02	4.34	1.19	5.13	4.49
anyhow.r.01	4.34	3.57	6.15	3.93
total	100.00	100.00	100.00	100.00

TABLE S104. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 19

2. Snapshots of 2000 messages

	g.	p.	i.	h.
NOUN	26.96	28.90	27.06	26.50
X	0.11	0.12	0.05	0.16
ADP	11.76	10.71	11.31	12.36
DET	12.02	11.93	11.88	12.17
VERB	22.08	22.46	22.47	21.65
ADJ	5.77	6.32	5.91	5.54
ADV	7.14	6.48	6.82	7.56
PRT	4.03	3.59	4.23	3.95
PRON	6.45	6.07	6.67	6.34
NUM	0.61	0.53	0.64	0.60
CONJ	3.06	2.90	2.97	3.17
PUNC	0.00	0.00	0.00	0.00
N	55.99	56.82	55.68	56.11
ADJ	11.39	11.68	11.76	11.00
VERB	5.80	4.84	5.49	6.29
ADV	26.81	26.66	27.08	26.60
POS	33.33	33.50	33.24	33.37
POS!	96.05	95.82	96.11	96.05

TABLE S105. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 0

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	72.60	73.68	71.37	73.10
physical_entity.n.01	27.40	26.32	28.63	26.90
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	21.88	23.98	21.56	21.64
communication.n.02	20.47	20.40	19.80	20.88
object.n.01	15.50	14.09	15.72	15.66
measure.n.02	12.98	13.06	13.51	12.65
attribute.n.02	7.24	6.63	6.28	7.93
causal_agent.n.01	6.50	6.23	7.21	6.14
group.n.01	6.41	6.63	6.77	6.15
matter.n.03	4.39	5.36	4.63	4.05
relation.n.01	3.60	2.98	3.46	3.81
process.n.06	0.53	0.36	0.57	0.54
thing.n.12	0.48	0.28	0.50	0.51
set.n.02	0.02	0.00	0.00	0.03
total	100.00	100.00	100.00	100.00
cognition.n.01	15.35	16.31	14.56	15.61
whole.n.02	13.18	12.38	13.64	13.07
event.n.01	13.04	15.36	13.15	12.50
definite_quantity.n.01	12.99	13.02	13.16	12.88
message.n.02	11.91	10.47	11.25	12.59
person.n.01	8.44	8.24	9.24	8.02
location.n.01	5.87	5.10	5.97	5.96
written_communication.n.01	4.78	4.14	4.20	5.26
substance.n.01	4.42	5.79	5.07	3.75
state.n.02	3.92	3.99	3.69	4.04
collection.n.01	3.49	3.35	3.36	3.60
part.n.01	2.62	1.86	2.71	2.72
total	100.00	100.00	100.00	100.00

TABLE S106. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 0

	g.	p.	i.	h.
public.a.01	29.61	26.04	31.73	28.98
like.a.01	13.21	20.71	10.95	13.16
new.a.01	11.82	8.88	15.77	9.93
different.a.01	7.62	5.92	7.05	8.31
chief.s.01	7.24	4.73	8.16	7.16
certain.a.02	5.78	5.33	5.01	6.35
first.a.01	4.70	7.10	3.90	4.73
good.a.01	4.38	7.10	3.53	4.39
able.a.01	4.38	7.69	4.64	3.58
specific.a.01	3.88	0.59	4.27	4.27
many.a.01	3.75	4.14	3.15	4.04
particular.s.01	3.62	1.78	1.86	5.08
total	100.00	100.00	100.00	100.00

TABLE S107. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 0

	g.	p.	i.	h.
make.v.03	12.80	10.22	10.85	14.68
act.v.01	12.40	16.38	12.64	11.31
think.v.03	11.93	9.96	11.13	12.90
move.v.02	11.63	14.94	13.48	9.65
change.v.01	9.78	11.27	8.31	10.39
travel.v.01	8.14	9.17	8.17	7.88
get.v.01	7.23	9.70	8.45	5.85
change.v.02	6.90	5.24	8.22	6.44
use.v.01	5.93	4.33	6.39	6.01
desire.v.01	4.70	3.41	4.46	5.15
perceive.v.01	4.37	4.19	4.51	4.32
necessitate.v.01	4.19	1.18	3.38	5.42
total	100.00	100.00	100.00	100.00
evaluate.v.02	18.66	15.22	17.74	20.04
interact.v.01	12.74	16.27	11.76	12.60
put.v.01	12.55	18.11	13.73	10.54
create_verbally.v.01	11.74	5.51	6.95	16.29
try.v.01	7.51	12.07	8.91	5.57
state.v.01	7.20	6.56	6.06	8.08
see.v.01	6.82	6.04	6.86	6.97
change_magnitude.v.01	6.14	4.20	6.95	6.03
send.v.01	4.77	3.41	8.11	2.87
look.v.02	4.70	4.99	5.17	4.34
keep.v.03	3.64	3.67	4.63	2.99
attach.v.01	3.52	3.94	3.12	3.69
total	100.00	100.00	100.00	100.00
communicate.v.02	18.72	24.21	18.91	17.42
write.v.01	18.24	8.33	11.80	24.09
think.v.01	11.32	7.14	11.65	12.05
install.v.01	10.35	21.83	11.65	7.11
increase.v.01	9.39	6.35	11.50	8.84
rate.v.01	6.29	5.56	8.62	5.11
expect.v.01	5.66	5.56	4.84	6.15
save.v.02	4.50	3.57	6.66	3.47
name.v.01	4.35	2.78	3.63	5.11
run.v.01	3.82	7.54	4.08	2.86
repair.v.01	3.77	2.78	2.57	4.68
read.v.01	3.58	4.37	4.08	3.12
total	100.00	100.00	100.00	100.00
inform.v.01	25.68	31.48	19.44	29.23
add.v.01	17.19	14.81	16.92	17.88
upgrade.v.01	12.60	12.96	14.39	11.15
record.v.01	9.08	8.33	11.11	7.69
submit.v.01	6.54	4.63	9.09	5.00
assume.v.01	4.59	8.33	1.77	5.96
see.v.05	4.39	1.85	5.05	4.42
post.v.01	4.30	8.33	5.05	2.88
overlap.v.01	4.30	1.85	5.05	4.23
think.v.02	4.00	2.78	5.05	3.46
replace.v.01	3.71	1.85	3.54	4.23
talk.v.02	3.61	2.78	3.54	3.85
total	100.00	100.00	100.00	100.00

TABLE S108. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 0

	g.	p.	i.	h.
besides.r.02	14.39	17.70	20.88	10.40
still.r.01	12.06	5.31	16.50	11.09
possibly.r.01	10.33	10.62	9.76	10.57
well.r.01	9.93	9.73	8.42	10.75
already.r.01	8.00	20.35	4.38	7.45
even.r.01	6.99	6.19	7.41	6.93
yet.r.01	6.89	6.19	6.73	7.11
however.r.01	6.59	9.73	7.74	5.37
probably.r.01	6.38	5.31	4.71	7.45
truly.r.01	6.28	7.08	4.04	7.28
quite.r.01	6.08	0.88	4.38	7.97
actually.r.01	6.08	0.88	5.05	7.63
total	100.00	100.00	100.00	100.00

TABLE S109. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 0

	g.	p.	i.	h.
NOUN	67.69	69.77	67.72	66.86
X	0.28	0.35	0.26	0.28
ADP	10.99	10.55	10.39	11.99
DET	4.79	4.26	4.78	5.00
VERB	7.63	7.53	7.71	7.57
ADJ	1.99	1.60	2.10	1.99
ADV	0.69	0.53	0.74	0.67
PRT	3.87	3.36	3.98	3.89
PRON	0.65	0.57	0.67	0.66
NUM	1.22	1.28	1.40	0.93
CONJ	0.21	0.18	0.25	0.16
PUNC	0.00	0.00	0.00	0.00
N	89.12	89.85	88.81	89.30
ADJ	2.85	2.40	2.85	3.00
VERB	0.25	0.17	0.29	0.22
ADV	7.78	7.58	8.04	7.48
POS	22.18	22.01	22.40	21.93
POS!	95.60	95.07	95.35	96.14

TABLE S110. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 2

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	64.39	63.56	62.39	65.94
physical_entity.n.01	35.61	36.44	37.61	34.06
total	100.00	100.00	100.00	100.00
communication.n.02	25.51	20.57	26.92	26.41
matter.n.03	17.08	18.61	17.92	16.00
psychological_feature.n.01	16.36	13.39	16.75	17.18
measure.n.02	11.84	14.90	8.72	12.69
causal_agent.n.01	9.52	7.85	9.96	9.85
object.n.01	8.59	9.41	9.39	7.80
attribute.n.02	7.97	10.10	7.45	7.53
relation.n.01	1.47	2.65	1.24	1.19
group.n.01	1.24	1.96	1.31	0.94
thing.n.12	0.22	0.30	0.20	0.20
process.n.06	0.20	0.27	0.13	0.21
total	100.00	100.00	100.00	100.00
message.n.02	23.94	17.84	25.54	25.06
substance.n.01	15.75	18.15	16.15	14.67
definite_quantity.n.01	11.46	14.60	8.73	12.09
event.n.01	11.00	9.95	11.31	11.17
person.n.01	10.16	8.59	10.50	10.49
whole.n.02	7.39	7.98	8.07	6.76
cognition.n.01	6.67	5.04	6.64	7.26
property.n.02	5.79	7.92	5.43	5.28
substance.n.07	2.48	2.49	2.77	2.29
state.n.02	2.24	2.38	2.11	2.28
location.n.01	1.58	2.24	1.64	1.31
signal.n.01	1.53	2.80	1.12	1.35
total	100.00	100.00	100.00	100.00

TABLE S111. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 2

	g.	p.	i.	h.
apt.s.01	20.96	21.13	30.61	16.74
net.a.01	12.63	14.08	6.12	14.98
capable.s.02	11.62	7.04	17.35	10.57
local.a.01	9.34	28.17	5.10	5.29
all_right.s.01	7.58	2.82	4.08	10.57
free.a.01	7.32	7.04	9.18	6.61
chief.s.01	6.31	9.86	9.18	3.96
best.a.01	6.06	2.82	3.06	8.37
anti.a.01	5.05	0.00	4.08	7.05
unstable.a.01	4.80	1.41	6.12	5.29
common.a.01	4.29	4.23	4.08	4.41
difficult.a.01	4.04	1.41	1.02	6.17
total	100.00	100.00	100.00	100.00

TABLE S112. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 2

	g.	p.	i.	h.
act.v.01	58.75	49.08	64.83	58.71
move.v.02	8.36	8.90	7.03	8.92
travel.v.01	6.96	8.59	7.22	6.24
think.v.03	4.38	5.52	2.85	4.84
change.v.02	4.32	4.91	4.75	3.87
get.v.01	4.10	3.68	4.56	3.98
make.v.03	3.14	3.07	0.19	4.84
change.v.01	3.03	4.29	3.23	2.47
have.v.01	2.02	1.84	0.76	2.80
remove.v.01	1.91	2.45	2.09	1.61
make.v.01	1.68	3.99	1.71	0.86
designate.v.01	1.35	3.68	0.76	0.86
total	100.00	100.00	100.00	100.00
interact.v.01	72.55	68.27	85.42	67.35
evaluate.v.02	5.11	7.21	3.39	5.40
send.v.01	3.72	3.37	3.12	4.11
put.v.01	3.43	4.33	2.34	3.73
create_verbally.v.01	3.36	3.85	0.00	4.88
keep.v.03	2.63	2.88	1.04	3.34
change_magnitude.v.01	2.04	0.96	1.56	2.57
label.v.01	1.75	5.77	1.04	1.03
destroy.v.01	1.53	0.00	0.00	2.70
try.v.01	1.31	1.44	1.82	1.03
state.v.01	1.31	1.92	0.26	1.67
give.v.03	1.24	0.00	0.00	2.19
total	100.00	100.00	100.00	100.00
communicate.v.02	78.79	65.58	90.11	76.91
write.v.01	3.65	3.72	0.00	5.59
save.v.02	2.78	2.33	1.10	3.82
install.v.01	2.62	3.72	1.10	3.09
think.v.01	2.22	0.93	0.82	3.38
increase.v.01	2.14	0.93	1.65	2.79
name.v.01	1.91	5.58	1.10	1.18
rate.v.01	1.83	1.86	1.92	1.76
deny.v.01	1.11	4.65	1.10	0.00
convey.v.03	1.03	4.19	0.27	0.44
confront.v.02	0.95	5.12	0.00	0.15
read.v.01	0.95	1.40	0.82	0.88
total	100.00	100.00	100.00	100.00
reach.v.04	83.64	73.49	89.17	83.22
record.v.01	3.11	3.01	1.14	4.28
inform.v.01	3.02	9.64	2.85	1.32
see.v.05	2.22	1.20	0.85	3.29
upgrade.v.01	2.04	2.41	1.99	1.97
add.v.01	1.87	0.60	0.85	2.80
communicate.v.01	0.98	5.42	0.28	0.16
power.v.01	0.89	0.00	0.00	1.64
overlap.v.01	0.80	0.60	1.14	0.66
network.v.01	0.53	0.60	1.14	0.16
acknowledge.v.06	0.44	3.01	0.00	0.00
permit.v.01	0.44	0.00	0.57	0.49
total	100.00	100.00	100.00	100.00

TABLE S113. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 2

	g.	p.	i.	h.
never.r.01	11.90	14.29	25.00	7.41
right.r.01	9.52	0.00	12.50	11.11
typically.r.01	9.52	0.00	12.50	11.11
soon.r.01	9.52	0.00	0.00	14.81
back.r.01	9.52	28.57	12.50	3.70
enough.r.01	7.14	14.29	12.50	3.70
forward.r.01	7.14	14.29	25.00	0.00
newly.r.01	7.14	0.00	0.00	11.11
by_and_large.r.01	7.14	0.00	0.00	11.11
precisely.r.01	7.14	14.29	0.00	7.41
besides.r.02	7.14	14.29	0.00	7.41
possibly.r.01	7.14	0.00	0.00	11.11
total	100.00	100.00	100.00	100.00

TABLE S114. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 2

	g.	p.	i.	h.
NOUN	29.79	30.11	29.87	29.61
X	0.12	0.12	0.20	0.05
ADP	11.19	11.40	11.29	11.04
DET	10.92	10.48	10.19	11.62
VERB	21.65	21.34	21.64	21.76
ADJ	6.91	6.79	6.37	7.36
ADV	6.55	6.01	6.73	6.59
PRT	3.76	3.68	3.70	3.84
PRON	5.91	6.34	6.52	5.30
NUM	0.52	0.58	0.53	0.49
CONJ	2.69	3.15	2.95	2.34
PUNC	0.00	0.00	0.00	0.00
N	57.64	58.43	58.70	56.54
ADJ	12.30	12.26	11.26	13.13
VERB	5.18	4.39	5.04	5.58
ADV	24.87	24.92	25.00	24.76
POS	33.82	34.28	33.13	34.22
POS!	93.24	94.20	92.79	93.27

TABLE S115. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 3

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	67.98	66.55	68.94	67.20
physical_entity.n.01	32.02	33.45	31.06	32.80
total	100.00	100.00	100.00	100.00
measure.n.02	19.35	18.06	22.53	15.62
psychological_feature.n.01	19.18	17.33	17.58	21.87
object.n.01	19.12	20.32	19.00	18.88
communication.n.02	16.42	18.50	16.52	15.62
causal_agent.n.01	7.03	7.83	6.67	7.23
attribute.n.02	6.84	6.45	6.35	7.60
matter.n.03	4.73	4.34	4.43	5.24
relation.n.01	3.14	2.99	3.10	3.25
group.n.01	3.05	3.22	2.85	3.24
thing.n.12	0.72	0.47	0.60	0.95
process.n.06	0.43	0.49	0.35	0.50
set.n.02	0.00	0.00	0.01	0.00
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	20.32	18.85	23.84	16.08
event.n.01	17.52	15.87	15.24	21.13
whole.n.02	13.89	16.33	12.16	15.38
person.n.01	8.57	9.34	8.07	9.00
message.n.02	6.86	10.20	6.48	6.23
cognition.n.01	6.48	5.30	6.57	6.76
message.n.01	5.74	5.59	6.01	5.44
location.n.01	4.81	5.16	4.25	5.45
land.n.04	4.50	2.89	6.42	2.47
substance.n.01	4.21	4.10	3.84	4.74
written_communication.n.01	3.86	3.24	3.91	4.00
state.n.02	3.25	3.12	3.22	3.32
total	100.00	100.00	100.00	100.00

TABLE S116. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 3

	g.	p.	i.	h.
net.a.01	39.36	41.85	32.52	46.15
like.a.01	11.52	9.23	14.79	8.68
new.a.01	10.06	8.31	12.24	8.24
general.a.01	7.31	16.62	8.03	3.19
high.a.01	7.05	4.00	5.58	9.78
certain.a.02	3.90	1.85	3.04	5.60
compact.a.01	3.63	4.00	3.33	3.85
good.a.01	3.59	0.92	3.33	4.84
chief.s.01	3.50	2.15	5.88	1.32
all_right.s.01	3.46	4.92	4.51	1.76
first.a.01	3.41	2.46	3.04	4.18
able.a.01	3.19	3.69	3.72	2.42
total	100.00	100.00	100.00	100.00

TABLE S117. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 3

	g.	p.	i.	h.
act.v.01	12.91	12.06	13.10	12.98
transfer.v.05	12.35	11.71	9.27	15.85
travel.v.01	11.35	14.39	12.02	9.67
move.v.02	9.37	8.13	11.16	7.84
think.v.03	9.32	8.31	8.88	10.12
get.v.01	8.65	10.01	9.38	7.45
use.v.01	7.83	7.33	7.05	8.83
change.v.01	6.55	7.15	6.26	6.66
make.v.03	6.49	4.65	7.86	5.59
perceive.v.01	6.09	8.04	5.47	6.13
be.v.01	4.60	4.74	5.00	4.13
change.v.02	4.50	3.49	4.56	4.75
total	100.00	100.00	100.00	100.00
give.v.03	22.13	20.99	17.03	27.68
interact.v.01	11.33	9.29	11.89	11.40
evaluate.v.02	10.55	10.26	11.35	9.82
see.v.01	9.85	12.82	8.88	9.92
travel_rapidly.v.01	8.85	12.66	10.38	6.12
try.v.01	7.56	8.81	7.04	7.70
put.v.01	6.77	6.57	7.67	5.92
state.v.01	5.79	5.13	6.21	5.57
look.v.02	5.03	5.45	6.02	3.90
reason.v.03	4.27	2.88	3.54	5.43
send.v.01	4.12	2.88	5.73	2.86
keep.v.03	3.76	2.24	4.27	3.70
total	100.00	100.00	100.00	100.00
support.v.02	30.92	31.97	22.96	38.91
communicate.v.02	15.73	15.03	16.60	15.02
run.v.01	13.96	21.58	16.01	9.65
think.v.01	5.49	3.28	6.21	5.37
calculate.v.01	5.25	3.01	4.49	6.69
read.v.01	4.82	1.91	7.11	3.27
expect.v.01	4.52	6.56	4.56	3.89
install.v.01	4.22	6.56	4.94	2.80
rebuild.v.01	4.05	0.55	5.39	3.66
increase.v.01	3.78	3.01	3.74	4.05
save.v.02	3.68	2.46	4.04	3.66
name.v.01	3.58	4.10	3.96	3.04
total	100.00	100.00	100.00	100.00
sponsor.v.01	52.35	53.42	43.18	59.88
inform.v.01	17.39	16.44	19.97	15.45
record.v.01	6.23	4.11	7.59	5.63
add.v.01	3.80	2.74	5.06	2.99
enumerate.v.01	3.46	8.22	4.08	1.68
assume.v.01	2.83	5.48	3.09	1.92
think.v.02	2.78	3.65	2.95	2.40
talk.v.02	2.66	1.37	3.80	2.04
unify.v.01	2.32	0.91	1.97	2.99
address.v.01	2.21	1.83	2.67	1.92
write.v.07	2.04	0.00	3.09	1.68
roll_up.v.02	1.93	1.83	2.53	1.44
total	100.00	100.00	100.00	100.00

TABLE S118. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 3

	g.	p.	i.	h.
besides.r.02	17.44	16.94	20.15	14.65
well.r.01	16.85	12.10	12.52	22.66
still.r.01	9.77	9.68	12.70	6.64
possibly.r.01	9.44	11.29	9.62	8.79
truly.r.01	8.42	11.29	9.26	6.84
even.r.01	6.99	9.68	7.80	5.47
merely.r.01	6.66	6.45	3.09	10.55
never.r.01	5.98	4.84	6.53	5.66
however.r.01	4.80	5.65	5.08	4.30
right.r.01	4.72	5.65	3.27	6.05
far.r.01	4.63	2.42	4.17	5.66
back.r.01	4.30	4.03	5.81	2.73
total	100.00	100.00	100.00	100.00

TABLE S119. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 3

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	67.29	67.15	69.53	66.45
physical_entity.n.01	32.71	32.85	30.47	33.55
total	100.00	100.00	100.00	100.00
measure.n.02	16.62	14.03	30.39	20.30
object.n.01	16.44	16.23	14.39	18.97
psychological_feature.n.01	14.19	12.65	17.44	19.83
attribute.n.02	13.83	16.65	4.93	5.57
communication.n.02	13.76	14.04	9.57	15.22
matter.n.03	7.17	7.65	8.19	4.02
causal_agent.n.01	6.61	6.33	5.60	8.79
group.n.01	5.33	5.86	4.18	3.44
relation.n.01	3.56	3.92	3.03	2.08
thing.n.12	1.54	1.52	1.92	1.33
process.n.06	0.94	1.11	0.38	0.44
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	17.70	14.35	34.59	21.71
whole.n.02	13.01	12.91	9.75	15.79
property.n.02	10.26	13.50	1.75	0.98
event.n.01	9.61	9.00	10.93	11.51
person.n.01	8.15	7.93	6.57	10.26
cognition.n.01	8.04	7.06	9.58	11.62
substance.n.01	7.60	8.16	8.99	3.98
location.n.01	6.94	7.30	6.77	5.32
message.n.02	6.21	5.43	5.07	10.66
signal.n.01	5.54	7.37	0.30	0.60
state.n.02	4.18	4.32	3.23	4.20
written_communication.n.01	2.76	2.67	2.49	3.38
total	100.00	100.00	100.00	100.00

TABLE S120. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 6

	g.	p.	i.	h.
common.a.01	13.82	4.97	49.83	6.22
net.a.01	13.31	19.50	3.75	8.44
new.a.01	11.37	13.79	5.12	11.11
like.a.01	9.88	8.57	7.85	13.56
small.a.01	8.14	11.93	4.10	4.00
mobile.s.01	7.11	0.12	0.68	23.78
glib.s.01	7.04	1.49	26.28	4.44
mathematical.a.01	7.04	0.00	0.68	23.78
good.a.01	6.59	10.31	1.02	3.56
great.s.01	5.49	9.69	0.68	1.11
contrary.s.01	5.17	9.94	0.00	0.00
strong.a.01	5.04	9.69	0.00	0.00
total	100.00	100.00	100.00	100.00

TABLE S121. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 6

	g.	p.	i.	h.
act.v.01	18.48	19.60	12.17	17.84
change.v.02	11.91	14.88	2.11	6.12
travel.v.01	11.03	11.41	10.26	10.01
express.v.02	10.69	13.73	2.92	3.42
move.v.02	9.45	10.35	6.94	7.42
think.v.03	7.50	7.36	5.63	9.13
make.v.03	6.41	4.58	10.36	11.19
change.v.01	6.37	5.92	3.62	9.72
be.v.01	5.15	5.35	5.53	4.12
include.v.01	4.58	0.96	27.87	5.01
get.v.01	4.36	4.05	4.12	5.71
use.v.01	4.08	1.82	8.45	10.31
total	100.00	100.00	100.00	100.00
interact.v.01	22.05	20.59	22.22	30.77
state.v.01	19.87	22.64	8.71	8.95
reorient.v.03	11.41	14.26	0.30	0.00
evaluate.v.02	10.37	8.88	11.41	18.84
give.v.03	5.93	5.61	3.30	9.26
cover.v.03	5.14	6.44	0.00	0.00
keep.v.03	5.00	1.53	30.93	12.40
put.v.01	4.73	3.97	7.51	7.85
set_about.v.01	4.73	5.89	0.00	0.16
see.v.01	3.86	3.40	4.50	6.28
come.v.01	3.46	4.00	1.20	1.41
label.v.01	3.44	2.78	9.91	4.08
total	100.00	100.00	100.00	100.00
communicate.v.02	31.91	29.87	33.18	42.48
align.v.01	17.50	22.22	0.45	0.00
cross.v.05	7.86	10.00	0.00	0.00
confront.v.02	7.25	9.19	0.00	0.22
think.v.01	7.13	6.19	5.45	13.05
name.v.01	5.28	4.33	15.00	5.75
answer.v.01	4.58	5.58	0.45	1.11
store.v.01	4.23	0.36	30.45	12.61
cut.v.01	3.95	4.69	0.91	1.33
increase.v.01	3.63	2.67	3.18	9.07
support.v.02	3.34	3.40	3.64	2.88
run.v.01	3.34	1.50	7.27	11.50
total	100.00	100.00	100.00	100.00
inform.v.01	31.45	36.65	28.21	17.45
talk.v.02	9.73	14.21	0.00	1.87
roll_up.v.02	8.46	0.81	33.85	16.51
telecommunicate.v.01	7.40	0.20	1.03	33.33
ask.v.01	7.26	9.44	3.59	2.80
sponsor.v.01	7.00	8.53	4.10	4.05
communicate.v.01	5.80	7.51	5.13	0.93
record.v.01	5.33	2.23	18.46	6.85
talk.v.01	5.20	7.31	0.51	1.56
add.v.01	4.60	2.34	3.08	12.46
admit.v.01	4.33	6.60	0.00	0.00
believe.v.01	3.46	4.16	2.05	2.18
total	100.00	100.00	100.00	100.00

TABLE S122. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 6

	g.	**p.**	**i.**	**h.**
besides.r.02	14.94	12.00	20.00	26.67
well.r.01	14.83	15.41	6.67	14.67
therefore.r.01	11.15	13.33	6.67	2.67
still.r.01	7.47	5.93	17.78	11.33
truly.r.01	7.36	6.37	11.11	10.67
right.r.01	6.90	8.15	4.44	2.00
even.r.01	6.44	6.22	0.00	9.33
never.r.01	6.32	6.67	4.44	5.33
indeed.r.01	6.21	8.00	0.00	0.00
always.r.01	6.21	6.81	0.00	5.33
however.r.01	6.21	5.48	11.11	8.00
long.r.01	5.98	5.63	17.78	4.00
total	100.00	100.00	100.00	100.00

TABLE S123. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 6

	g.	p.	i.	h.
NOUN	50.02	36.19	51.37	58.95
X	2.18	0.72	2.58	2.85
ADP	5.00	9.49	3.74	2.99
DET	14.25	12.45	15.96	13.78
VERB	12.19	17.23	11.42	9.23
ADJ	6.34	7.17	6.22	5.85
ADV	3.01	5.87	2.15	1.77
PRT	2.38	3.74	2.15	1.61
PRON	2.32	3.94	1.74	1.72
NUM	0.87	0.88	0.97	0.74
CONJ	1.44	2.31	1.71	0.52
PUNC	0.00	0.00	0.00	0.00
N	79.24	64.89	81.82	85.24
ADJ	8.97	11.91	8.27	7.93
VERB	1.52	4.61	0.96	0.25
ADV	10.26	18.59	8.95	6.59
POS	20.05	28.22	18.48	18.45
POS!	90.68	93.17	90.00	89.93

TABLE S124. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 7

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	70.20	73.68	69.46	69.56
physical_entity.n.01	29.80	26.32	30.54	30.44
total	100.00	100.00	100.00	100.00
measure.n.02	23.39	33.06	22.93	19.43
communication.n.02	20.63	17.29	20.43	22.48
object.n.01	12.53	13.16	12.46	12.32
attribute.n.02	12.07	9.64	11.95	13.38
matter.n.03	9.30	6.33	10.17	9.54
psychological_feature.n.01	6.99	6.70	7.11	6.98
causal_agent.n.01	6.46	5.11	6.53	7.00
group.n.01	4.63	4.13	4.51	5.01
relation.n.01	2.49	2.86	2.52	2.27
thing.n.12	0.97	0.61	1.04	1.06
process.n.06	0.54	1.10	0.35	0.52
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	24.93	35.01	24.85	20.45
written_communication.n.01	18.51	13.92	18.93	20.05
whole.n.02	11.08	12.50	11.06	10.45
shape.n.02	9.74	7.13	9.61	11.09
substance.n.01	8.65	5.76	9.12	9.34
person.n.01	5.81	5.03	5.70	6.31
event.n.01	5.17	4.93	5.26	5.16
social_group.n.01	4.50	2.93	4.58	5.09
state.n.02	3.27	3.66	3.01	3.42
cognition.n.01	2.97	2.98	3.06	2.85
message.n.02	2.76	3.37	2.49	2.85
location.n.01	2.62	2.78	2.32	2.93
total	100.00	100.00	100.00	100.00

TABLE S125. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 7

	g.	p.	i.	h.
public.a.01	87.23	84.15	83.72	92.50
apt.s.01	2.44	4.92	3.60	0.19
net.a.01	2.29	2.73	3.76	0.38
all_right.s.01	1.25	0.55	0.63	2.25
ill.a.01	1.18	1.64	0.94	1.31
free.a.01	0.89	1.64	1.25	0.19
excess.s.01	0.89	1.09	0.47	1.31
chinese.a.01	0.81	0.00	1.72	0.00
available.a.01	0.81	1.64	0.31	1.13
local.a.01	0.74	1.09	0.78	0.56
new.a.01	0.74	0.55	1.25	0.19
logical.a.01	0.74	0.00	1.56	0.00
total	100.00	100.00	100.00	100.00

TABLE S126. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 7

	g.	p.	i.	h.
change.v.01	23.49	12.64	26.42	27.45
move.v.02	14.29	16.67	13.71	13.33
act.v.01	10.16	13.22	8.70	9.80
make.v.03	9.89	8.62	8.36	12.55
think.v.03	8.38	5.75	4.35	14.90
change.v.02	7.83	4.02	11.04	6.67
get.v.01	6.46	10.34	7.69	2.35
travel.v.01	4.95	7.47	3.34	5.10
make.v.01	3.98	6.32	4.35	1.96
necessitate.v.01	3.71	9.77	2.34	1.18
use.v.01	3.57	4.60	3.68	2.75
express.v.02	3.30	0.57	6.02	1.96
total	100.00	100.00	100.00	100.00
damage.v.01	23.63	13.75	23.32	27.86
put.v.01	13.08	16.25	14.51	10.45
evaluate.v.02	12.45	11.25	6.22	18.91
interact.v.01	11.60	21.25	9.84	9.45
create_verbally.v.01	10.76	8.75	8.29	13.93
state.v.01	5.06	1.25	9.33	2.49
modify.v.01	4.85	1.25	7.25	3.98
keep.v.03	4.43	2.50	6.74	2.99
end.v.02	4.22	3.75	8.29	0.50
travel_rapidly.v.01	3.38	5.00	3.63	2.49
establish.v.01	3.38	5.00	1.04	4.98
send.v.01	3.16	10.00	1.55	1.99
total	100.00	100.00	100.00	100.00
mar.v.01	27.86	17.46	28.48	30.94
communicate.v.02	12.94	23.81	11.39	10.50
write.v.01	12.69	11.11	10.13	15.47
install.v.01	12.44	19.05	13.29	9.39
think.v.01	7.71	1.59	0.00	16.57
save.v.02	4.73	1.59	8.23	2.76
update.v.01	4.48	1.59	8.23	2.21
run.v.01	3.98	6.35	4.43	2.76
read.v.01	3.48	7.94	1.90	3.31
rate.v.01	3.48	4.76	3.80	2.76
name.v.01	3.23	4.76	2.53	3.31
break.v.10	2.99	0.00	7.59	0.00
total	100.00	100.00	100.00	100.00
inform.v.01	15.79	7.69	19.70	14.63
record.v.01	14.29	3.85	19.70	12.20
carry.v.04	13.53	50.00	0.00	12.20
upgrade.v.01	10.53	11.54	9.09	12.20
interrupt.v.01	9.02	0.00	18.18	0.00
communicate.v.01	7.52	3.85	6.06	12.20
adhere.v.06	7.52	3.85	1.52	19.51
enumerate.v.01	5.26	0.00	10.61	0.00
promise.v.01	4.51	0.00	3.03	9.76
grow.v.02	4.51	3.85	3.03	7.32
operate.v.03	3.76	11.54	3.03	0.00
add.v.01	3.76	3.85	6.06	0.00
total	100.00	100.00	100.00	100.00

TABLE S127. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 7

	g.	p.	i.	h.
already.r.01	16.67	0.00	40.00	0.00
back.r.01	16.67	11.11	20.00	20.00
practically.r.01	12.50	33.33	0.00	0.00
even.r.01	8.33	22.22	0.00	0.00
forward.r.01	8.33	0.00	0.00	40.00
normally.r.01	8.33	0.00	20.00	0.00
probably.r.01	8.33	11.11	10.00	0.00
early_on.r.01	4.17	11.11	0.00	0.00
half.r.01	4.17	0.00	0.00	20.00
fast.r.01	4.17	0.00	10.00	0.00
downriver.r.01	4.17	11.11	0.00	0.00
automatically.r.01	4.17	0.00	0.00	20.00
total	100.00	100.00	100.00	100.00

TABLE S128. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 7

	g.	p.	i.	h.
NOUN	25.23	28.31	25.47	24.03
X	0.16	0.15	0.17	0.16
ADP	12.08	12.02	11.89	12.19
DET	10.86	10.97	11.19	10.67
VERB	22.54	20.94	22.98	22.89
ADJ	5.91	6.57	5.37	5.94
ADV	8.57	6.81	8.55	9.20
PRT	3.87	3.58	3.91	3.95
PRON	6.86	6.14	6.92	7.07
NUM	1.10	1.21	0.96	1.13
CONJ	2.82	3.29	2.58	2.76
PUNC	0.00	0.00	0.00	0.00
N	54.21	59.68	53.62	52.34
ADJ	11.11	11.20	10.48	11.37
VERB	7.98	5.58	7.98	8.93
ADV	26.70	23.54	27.92	27.36
POS	33.08	33.52	33.22	32.84
POS!	95.58	94.89	95.58	95.85

TABLE S129. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 8

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	67.39	68.44	66.19	67.24
physical_entity.n.01	32.61	31.56	33.81	32.76
total	100.00	100.00	100.00	100.00
measure.n.02	22.88	17.29	24.47	25.97
object.n.01	21.16	17.57	23.71	22.41
communication.n.02	13.54	17.03	10.92	12.41
psychological_feature.n.01	13.32	8.53	16.27	15.20
attribute.n.02	9.51	16.37	6.92	6.03
matter.n.03	6.26	8.51	4.21	5.70
group.n.01	5.28	6.79	5.05	4.34
causal_agent.n.01	4.14	4.33	4.91	3.62
relation.n.01	2.85	2.44	2.56	3.28
process.n.06	0.56	0.60	0.60	0.52
thing.n.12	0.49	0.54	0.37	0.51
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	23.27	14.48	25.58	27.81
whole.n.02	21.80	15.43	24.55	24.57
event.n.01	9.33	6.16	11.39	10.38
cognition.n.01	7.07	5.05	8.25	7.80
substance.n.01	6.39	9.15	4.51	5.51
message.n.02	6.24	4.17	6.34	7.53
property.n.02	5.74	13.97	2.20	2.14
signal.n.01	4.60	13.03	0.62	1.10
location.n.01	4.28	7.08	4.16	2.53
person.n.01	4.24	5.28	4.66	3.37
written_communication.n.01	3.57	3.26	4.07	3.53
state.n.02	3.48	2.93	3.67	3.73
total	100.00	100.00	100.00	100.00

TABLE S130. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 8

	g.	p.	i.	h.
like.a.01	19.42	4.18	24.00	24.70
new.a.01	15.73	6.43	20.36	18.18
public.a.01	13.64	34.08	6.55	6.97
initial.s.01	10.03	37.62	0.36	1.06
good.a.01	7.46	3.86	10.18	8.03
certain.a.02	5.70	2.57	6.91	6.67
least.a.01	5.30	3.22	2.91	7.27
last.s.01	5.30	1.93	10.55	4.70
old.a.01	4.49	0.32	6.18	5.76
much.a.01	4.33	1.29	4.73	5.61
current.a.01	4.33	1.29	4.00	5.91
different.a.01	4.25	3.22	3.27	5.15
total	100.00	100.00	100.00	100.00

TABLE S131. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 8

	g.	p.	i.	h.
act.v.01	13.53	24.89	12.55	11.14
change.v.01	11.27	6.14	13.45	11.63
think.v.03	9.88	5.81	11.25	10.31
make.v.03	9.72	8.00	7.76	10.96
move.v.02	9.54	7.79	10.09	9.74
change.v.02	9.02	16.12	8.41	7.54
travel.v.01	7.61	5.15	8.21	7.97
get.v.01	7.50	7.57	7.12	7.64
make.v.01	6.09	4.61	5.17	6.84
use.v.01	6.01	5.59	7.18	5.63
be.v.01	5.69	4.61	4.20	6.57
express.v.02	4.13	3.73	4.59	4.04
total	100.00	100.00	100.00	100.00
evaluate.v.02	16.78	8.00	18.74	18.08
interact.v.01	14.90	18.50	18.01	12.77
construct.v.01	13.52	5.50	8.35	17.54
state.v.01	9.24	8.50	10.40	8.95
put.v.01	8.52	6.75	8.49	8.95
change_magnitude.v.01	6.96	2.75	9.52	6.92
see.v.01	6.16	5.75	7.03	5.91
look.v.02	5.65	4.25	5.12	6.21
keep.v.03	4.71	5.25	5.27	4.36
better.v.02	4.68	2.00	3.66	5.73
try.v.01	4.53	3.50	5.27	4.47
set_about.v.01	4.35	29.25	0.15	0.12
total	100.00	100.00	100.00	100.00
communicate.v.02	24.48	19.35	30.71	23.81
think.v.01	12.21	3.81	14.47	14.75
increase.v.01	11.34	2.72	15.99	12.89
confront.v.02	7.40	31.88	0.25	0.23
repair.v.01	6.97	1.63	5.08	10.10
align.v.01	6.54	28.88	0.00	0.00
test.v.01	5.92	1.36	8.38	6.74
install.v.01	5.61	3.00	5.58	6.74
update.v.01	5.24	0.82	3.55	7.90
expect.v.01	4.99	1.63	4.31	6.74
run.v.01	4.93	3.81	6.35	4.76
interrupt.v.04	4.38	1.09	5.33	5.34
total	100.00	100.00	100.00	100.00
inform.v.01	27.03	42.22	27.16	23.87
add.v.01	19.43	7.78	20.99	20.95
roll_up.v.02	8.88	12.22	7.41	9.01
record.v.01	7.46	10.00	7.41	6.98
propose.v.01	6.31	3.33	3.70	8.33
address.v.01	5.41	11.11	2.88	5.63
talk.v.02	4.76	4.44	6.17	4.05
unify.v.01	4.50	2.22	2.88	5.86
ask.v.01	4.25	3.33	5.35	3.83
hang.v.02	4.25	0.00	8.64	2.70
think.v.02	3.99	1.11	2.88	5.18
talk.v.01	3.73	2.22	4.53	3.60
total	100.00	100.00	100.00	100.00

TABLE S132. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 8

	g.	p.	i.	h.
upriver.r.01	14.74	7.69	10.88	16.86
besides.r.02	12.45	20.51	18.73	9.30
truly.r.01	12.14	8.97	12.39	12.33
still.r.01	8.27	3.85	6.65	9.30
well.r.01	8.20	14.10	8.46	7.56
possibly.r.01	8.04	3.85	7.55	8.60
probably.r.01	8.04	6.41	7.85	8.26
actually.r.01	6.86	2.56	6.95	7.21
even.r.01	6.15	12.82	7.85	4.88
already.r.01	6.15	7.69	6.34	5.93
back.r.01	4.57	6.41	4.83	4.30
alternatively.r.01	4.41	5.13	1.51	5.47
total	100.00	100.00	100.00	100.00

TABLE S133. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 8

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	70.91	69.83	72.34	70.27
physical_entity.n.01	29.09	30.17	27.66	29.73
total	100.00	100.00	100.00	100.00
measure.n.02	20.49	23.16	21.91	13.83
communication.n.02	17.50	16.17	16.78	20.84
psychological_feature.n.01	16.33	15.20	16.14	18.46
object.n.01	16.20	15.42	15.69	18.32
group.n.01	8.13	7.61	8.51	8.34
causal_agent.n.01	7.03	8.48	6.40	5.72
attribute.n.02	6.30	5.55	7.14	6.10
matter.n.03	4.53	5.13	4.22	4.06
relation.n.01	2.14	2.11	1.84	2.69
process.n.06	0.67	0.55	0.65	0.90
thing.n.12	0.66	0.58	0.69	0.72
set.n.02	0.02	0.02	0.02	0.00
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	21.67	24.92	23.07	14.06
whole.n.02	13.86	13.27	12.72	16.76
event.n.01	12.36	12.35	11.86	13.22
message.n.02	9.15	8.56	8.75	10.78
person.n.01	8.04	10.01	7.20	6.32
cognition.n.01	7.28	6.12	7.26	9.20
collection.n.01	6.40	5.10	7.11	7.28
written_communication.n.01	5.66	4.78	5.24	7.80
location.n.01	4.97	4.76	5.44	4.48
substance.n.01	4.12	4.39	3.95	3.97
property.n.02	3.25	2.56	3.88	3.31
state.n.02	3.23	3.17	3.53	2.83
total	100.00	100.00	100.00	100.00

TABLE S134. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 9

	g.	p.	i.	h.
aeriform.s.02	42.62	45.67	47.65	25.45
like.a.01	10.23	11.26	9.62	9.41
capable.s.02	7.16	7.18	7.16	7.12
new.a.01	6.19	5.20	3.64	13.74
possible.a.01	5.80	5.82	5.05	7.38
able.a.01	5.36	5.45	4.81	6.36
different.a.01	4.24	2.10	5.40	6.11
first.a.01	4.04	3.47	4.11	5.09
net.a.01	3.85	3.47	3.05	6.36
local.a.01	3.75	7.05	1.64	1.53
certain.a.02	3.46	1.36	3.52	7.63
good.a.01	3.31	1.98	4.34	3.82
total	100.00	100.00	100.00	100.00

TABLE S135. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 9

	g.	p.	i.	h.
act.v.01	15.34	17.48	14.36	13.91
make.v.03	12.76	11.31	12.37	15.12
move.v.02	11.59	12.47	12.10	9.77
use.v.01	11.05	10.78	11.02	11.43
travel.v.01	8.91	9.62	9.04	7.83
think.v.03	8.44	6.87	8.60	10.22
change.v.01	7.15	6.80	7.55	7.07
get.v.01	5.82	7.47	6.07	3.38
perceive.v.01	5.63	4.93	5.97	6.08
change.v.02	5.18	4.37	5.46	5.85
express.v.02	4.25	3.81	3.61	5.67
be.v.01	3.89	4.09	3.84	3.69
total	100.00	100.00	100.00	100.00
interact.v.01	16.34	17.57	14.29	17.43
re-create.v.01	13.25	12.34	13.35	14.29
evaluate.v.02	11.94	10.39	12.85	12.75
put.v.01	9.46	9.51	9.86	8.88
try.v.01	8.26	9.89	9.17	5.00
state.v.01	7.65	6.74	6.61	10.17
see.v.01	6.75	6.30	6.30	7.91
travel_rapidly.v.01	6.64	7.62	6.24	5.89
send.v.01	6.55	6.80	7.30	5.25
keep.v.03	5.64	5.86	6.24	4.60
interpret.v.01	3.79	2.33	3.74	5.73
look.v.02	3.72	4.66	4.05	2.10
total	100.00	100.00	100.00	100.00
communicate.v.02	24.18	27.29	21.20	24.24
represent.v.09	20.71	20.42	20.61	21.18
run.v.01	10.53	12.60	9.86	8.94
think.v.01	7.52	5.73	8.97	7.83
install.v.01	6.09	9.79	4.34	3.92
save.v.02	5.59	5.42	5.62	5.75
read.v.01	5.45	3.33	5.52	7.83
increase.v.01	5.12	3.54	6.11	5.75
expect.v.01	4.08	3.02	4.83	4.41
declare.v.01	3.87	3.85	4.14	3.55
salvage.v.01	3.44	2.40	5.13	2.57
write.v.01	3.40	2.60	3.65	4.04
total	100.00	100.00	100.00	100.00
capture.v.01	32.49	31.01	32.69	34.15
inform.v.01	25.21	25.79	21.79	28.83
record.v.01	8.94	8.23	9.13	9.61
add.v.01	7.22	4.91	8.17	9.00
roll_up.v.02	4.64	6.33	5.29	1.64
address.v.01	3.50	4.91	3.69	1.43
promise.v.01	3.38	2.06	4.01	4.29
filter.v.01	3.38	2.53	3.21	4.70
see.v.05	3.21	4.11	3.21	2.04
write.v.02	3.04	3.64	3.21	2.04
propose.v.01	2.58	3.64	2.40	1.43
balance.v.01	2.41	2.85	3.21	0.82
total	100.00	100.00	100.00	100.00

TABLE S136. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 9

	g.	**p.**	**i.**	**h.**
besides.r.02	18.01	18.22	20.60	15.10
probably.r.01	11.86	7.06	12.04	14.85
however.r.01	11.13	11.15	10.88	11.39
possibly.r.01	10.59	6.69	12.50	11.14
well.r.01	8.69	8.18	6.48	11.39
still.r.01	7.24	11.15	7.64	4.21
truly.r.01	7.06	7.81	7.41	6.19
even.r.01	6.61	8.55	6.71	5.20
alternatively.r.01	5.70	6.32	5.09	5.94
presently.r.02	4.89	5.95	2.31	6.93
already.r.01	4.25	3.72	3.70	5.20
actually.r.01	3.98	5.20	4.63	2.48
total	100.00	100.00	100.00	100.00

TABLE S137. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 9

	g.	p.	i.	h.
NOUN	44.31	69.47	25.80	26.15
X	2.29	4.76	0.62	0.39
ADP	9.35	4.87	12.61	12.61
DET	8.22	4.19	11.26	11.06
VERB	15.09	6.37	21.77	21.20
ADJ	6.11	4.71	7.06	7.17
ADV	4.42	1.52	6.43	6.59
PRT	2.78	1.06	4.11	3.99
PRON	4.83	2.00	6.78	6.98
NUM	0.45	0.24	0.59	0.61
CONJ	2.16	0.81	2.98	3.27
PUNC	0.00	0.00	0.00	0.00
N	70.53	86.13	54.38	53.79
ADJ	10.25	6.64	14.13	14.02
VERB	3.39	0.87	5.74	6.27
ADV	15.83	6.36	25.75	25.92
POS	30.41	27.25	34.20	34.97
POS!	91.58	88.04	95.47	95.76

TABLE S138. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 10

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	74.15	73.32	74.41	74.15
physical_entity.n.01	25.85	26.68	25.59	25.85
total	100.00	100.00	100.00	100.00
communication.n.02	25.33	24.73	24.16	28.56
psychological_feature.n.01	17.56	16.71	18.06	17.01
measure.n.02	16.95	15.84	17.81	15.75
object.n.01	10.29	11.52	10.46	8.99
causal_agent.n.01	8.57	8.65	9.23	6.94
matter.n.03	6.08	5.76	5.01	8.87
attribute.n.02	5.44	6.97	5.36	4.46
group.n.01	4.97	6.27	4.76	4.49
relation.n.01	3.89	2.78	4.25	3.87
process.n.06	0.50	0.44	0.54	0.47
thing.n.12	0.40	0.31	0.35	0.57
set.n.02	0.01	0.02	0.00	0.02
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	15.54	14.38	16.48	14.16
event.n.01	14.28	14.47	13.98	14.85
message.n.02	12.88	13.36	11.82	15.05
person.n.01	10.99	11.26	11.73	9.03
cognition.n.01	8.70	7.76	9.50	7.48
whole.n.02	7.46	7.64	7.95	6.17
substance.n.01	6.43	6.53	5.57	8.41
indication.n.01	5.73	5.08	5.50	6.79
location.n.01	5.40	6.80	5.08	5.13
language.n.01	5.05	4.58	5.89	3.38
fundamental_quantity.n.01	3.89	4.40	3.86	3.60
written_communication.n.01	3.64	3.73	2.65	5.95
total	100.00	100.00	100.00	100.00

TABLE S139. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 10

	g.	p.	i.	h.
new.a.01	14.99	21.46	15.05	11.45
like.a.01	13.96	14.17	12.78	15.77
english.a.01	13.55	12.96	10.92	18.14
net.a.01	9.99	2.02	16.78	3.24
free.a.01	7.60	9.72	6.66	7.99
capable.s.02	6.23	8.10	9.19	0.43
personal.a.01	6.02	0.40	2.13	15.33
many.a.01	5.75	8.10	5.86	4.32
good.a.01	5.61	6.07	4.93	6.48
possible.a.01	5.54	4.05	7.32	3.46
japanese.a.01	5.41	0.81	2.66	12.31
public.a.01	5.34	12.15	5.73	1.08
total	100.00	100.00	100.00	100.00

TABLE S140. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 10

	g.	p.	i.	h.
act.v.01	25.76	30.57	26.60	22.09
move.v.02	10.01	8.40	8.67	13.01
change.v.01	9.43	9.15	11.13	6.71
think.v.03	9.35	9.58	10.26	7.72
make.v.01	6.61	4.52	7.80	5.60
change.v.02	6.08	7.10	5.25	7.01
use.v.01	5.84	4.74	5.28	7.31
get.v.01	5.70	3.23	5.01	8.02
travel.v.01	5.57	5.27	5.82	5.30
make.v.03	5.54	5.06	6.00	4.99
satisfy.v.02	5.09	7.97	4.47	4.79
express.v.02	5.01	4.41	3.72	7.46
total	100.00	100.00	100.00	100.00
interact.v.01	35.10	38.23	36.72	30.74
evaluate.v.02	11.63	9.68	12.71	10.83
please.v.01	8.66	12.35	7.73	8.30
state.v.01	8.52	6.84	6.43	12.93
send.v.01	7.03	8.01	4.82	10.22
help.v.01	5.26	5.34	5.65	4.54
see.v.01	5.17	4.34	5.08	5.76
modify.v.01	4.77	3.67	3.06	8.21
change_magnitude.v.01	3.79	5.84	3.84	2.62
look.v.02	3.79	1.67	5.65	1.75
put.v.01	3.24	2.17	4.10	2.36
take.v.01	3.05	1.84	4.20	1.75
total	100.00	100.00	100.00	100.00
communicate.v.02	51.85	62.09	54.02	43.70
think.v.01	8.26	5.77	9.13	7.99
update.v.01	6.43	5.22	4.02	10.86
increase.v.01	5.41	8.79	5.57	3.62
place.v.12	4.35	3.02	6.27	1.87
note.v.01	3.99	1.37	1.16	9.74
coincide.v.01	3.83	3.02	3.87	4.12
convey.v.03	3.38	1.65	4.80	1.87
expect.v.01	3.34	2.20	4.41	2.12
write.v.01	3.22	2.20	4.18	2.12
send.v.02	3.01	0.55	0.23	8.61
declare.v.01	2.93	4.12	2.32	3.37
total	100.00	100.00	100.00	100.00
inform.v.01	53.16	55.21	57.02	45.60
add.v.01	6.44	8.33	6.87	4.75
overlap.v.01	5.17	3.82	5.20	5.81
talk.v.02	4.73	7.64	5.10	2.64
communicate.v.01	4.57	2.08	6.45	2.64
ask.v.01	4.35	3.82	3.43	6.16
mail.v.01	4.07	0.69	0.31	12.15
see.v.05	3.91	4.51	4.58	2.46
fund-raise.v.01	3.74	1.74	4.27	3.87
propose.v.01	3.63	4.86	2.71	4.58
talk.v.01	3.14	3.82	1.98	4.75
permit.v.01	3.08	3.47	2.08	4.58
total	100.00	100.00	100.00	100.00

TABLE S141. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 10

	g.	p.	i.	h.
besides.r.02	18.06	35.25	17.16	12.64
still.r.01	12.77	12.23	17.16	6.74
probably.r.01	10.98	5.76	3.16	24.16
well.r.01	10.08	9.35	10.45	9.83
already.r.01	9.28	8.63	7.69	11.80
freely.r.01	6.39	1.44	7.50	6.74
yet.r.01	6.39	5.76	5.72	7.58
however.r.01	6.09	3.60	8.09	4.21
presently.r.02	5.79	2.88	8.68	2.81
soon.r.01	5.39	5.04	4.93	6.18
even.r.01	4.49	4.32	4.73	4.21
always.r.01	4.29	5.76	4.73	3.09
total	100.00	100.00	100.00	100.00

TABLE S142. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 10

	g.	p.	i.	h.
NOUN	27.50	26.30	27.88	27.27
X	0.37	0.23	0.39	0.37
ADP	13.99	13.62	14.41	13.56
DET	12.48	12.96	12.66	12.17
VERB	18.70	19.93	18.29	18.97
ADJ	8.24	7.56	8.35	8.23
ADV	6.93	6.93	6.73	7.16
PRT	2.88	3.17	2.80	2.93
PRON	5.06	5.57	4.51	5.60
NUM	0.81	0.62	0.89	0.76
CONJ	3.05	3.10	3.09	2.98
PUNC	0.00	0.00	0.00	0.00
N	56.06	54.83	56.74	55.48
ADJ	16.20	15.23	16.22	16.34
VERB	6.87	6.95	6.81	6.94
ADV	20.87	22.99	20.23	21.24
POS	36.24	36.32	36.62	35.78
POS!	95.17	95.67	94.70	95.65

TABLE S143. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 11

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	69.95	69.58	67.25	74.56
physical_entity.n.01	30.05	30.42	32.75	25.44
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	18.82	18.16	16.63	22.64
communication.n.02	17.90	19.06	16.11	20.73
measure.n.02	14.71	15.89	16.13	12.09
object.n.01	13.09	12.60	14.13	11.41
causal_agent.n.01	9.36	11.58	9.58	8.62
relation.n.01	6.87	6.41	7.05	6.65
attribute.n.02	5.93	5.85	5.62	6.47
group.n.01	5.71	4.22	5.72	5.96
matter.n.03	5.22	4.83	6.30	3.45
thing.n.12	1.85	1.00	2.31	1.21
process.n.06	0.54	0.41	0.43	0.75
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	14.47	15.13	16.49	10.87
cognition.n.01	13.49	11.42	11.41	17.47
person.n.01	12.11	14.75	12.25	11.40
event.n.01	10.75	11.32	9.92	12.07
location.n.01	7.80	6.43	9.00	5.97
whole.n.02	7.62	8.55	7.33	7.96
part.n.01	6.90	6.24	7.21	6.48
language.n.01	6.63	6.27	6.49	6.95
message.n.02	6.62	7.49	6.32	6.99
substance.n.01	5.65	4.27	6.97	3.63
written_communication.n.01	4.69	4.74	3.53	6.68
fundamental_quantity.n.01	3.26	3.40	3.09	3.52
total	100.00	100.00	100.00	100.00

TABLE S144. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 11

	g.	p.	i.	h.
hebraic.a.02	16.73	13.04	16.97	16.91
biblical.a.01	11.92	17.87	12.62	9.81
like.a.01	10.37	9.18	8.96	12.91
historical.a.01	9.59	2.42	13.57	4.08
many.a.01	8.02	8.21	7.01	9.66
late.a.01	7.67	2.42	9.59	5.28
different.a.01	7.27	10.14	5.75	9.36
first.a.01	6.73	6.28	6.92	6.49
public.a.01	6.52	13.53	5.02	7.92
ancient.s.01	5.99	9.18	7.51	2.94
linguistic.a.01	4.68	2.42	2.81	8.15
good.a.01	4.52	5.31	3.26	6.49
total	100.00	100.00	100.00	100.00

TABLE S145. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 11

	g.	p.	i.	h.
act.v.01	22.50	27.89	22.84	21.36
think.v.03	14.72	12.25	14.49	15.33
express.v.02	9.49	10.39	9.81	8.98
travel.v.01	8.90	6.53	9.75	8.19
make.v.03	7.56	8.75	7.82	7.09
be.v.01	6.18	7.12	6.10	6.14
move.v.02	5.98	5.95	5.66	6.36
perceive.v.01	5.36	4.20	5.49	5.35
change.v.01	5.06	4.78	5.08	5.08
make.v.01	4.99	3.50	4.56	5.72
understand.v.01	4.73	4.08	3.87	5.86
know.v.01	4.53	4.55	4.52	4.54
total	100.00	100.00	100.00	100.00
interact.v.01	27.78	34.13	28.75	25.66
evaluate.v.02	16.29	11.56	15.29	18.23
state.v.01	14.22	15.96	14.10	14.13
see.v.01	6.67	4.40	6.85	6.75
create_verbally.v.01	5.67	6.24	6.48	4.57
look.v.02	5.65	6.06	5.56	5.71
interpret.v.01	5.46	4.22	4.31	7.09
associate.v.01	5.31	5.50	5.58	4.93
put.v.01	3.32	2.20	3.06	3.82
take.v.01	3.27	4.40	2.96	3.51
come.v.01	3.20	2.39	3.45	3.01
label.v.01	3.15	2.94	3.61	2.60
total	100.00	100.00	100.00	100.00
communicate.v.02	39.61	48.09	41.11	36.51
think.v.01	11.33	7.65	10.95	12.34
write.v.01	8.57	9.29	9.83	6.89
read.v.01	7.69	5.74	6.03	10.07
think_of.v.04	6.29	6.01	6.78	5.72
accept.v.01	5.43	4.37	4.91	6.23
declare.v.01	4.74	5.19	3.58	6.15
name.v.01	4.71	4.37	5.38	3.92
expect.v.01	4.37	3.83	4.07	4.82
supply.v.01	2.56	2.46	1.74	3.60
increase.v.01	2.36	0.82	2.52	2.39
note.v.01	2.33	2.19	3.11	1.37
total	100.00	100.00	100.00	100.00
inform.v.01	43.63	50.84	45.37	40.11
talk.v.02	10.21	12.61	9.06	11.39
mention.v.01	10.18	9.24	10.62	9.73
see.v.05	7.23	5.04	7.89	6.66
propose.v.01	6.28	6.72	4.19	9.06
believe.v.01	5.30	3.36	5.51	5.33
talk.v.01	4.54	2.10	5.36	3.80
ask.v.01	3.38	2.94	3.02	3.93
add.v.01	2.64	1.26	2.88	2.53
suit.v.01	2.56	0.84	2.24	3.26
assume.v.01	2.19	1.68	2.00	2.53
ignore.v.01	1.87	3.36	1.85	1.67
total	100.00	100.00	100.00	100.00

TABLE S146. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 11

	g.	p.	i.	h.
besides.r.02	15.56	22.98	13.75	16.48
even.r.01	13.82	12.42	13.29	14.53
well.r.01	11.71	6.83	13.75	10.23
truly.r.01	7.96	4.97	6.57	9.77
possibly.r.01	7.53	11.18	8.48	6.09
never.r.01	7.27	2.48	10.24	4.84
however.r.01	7.13	6.21	5.73	8.67
therefore.r.01	6.80	12.42	7.64	5.23
far.r.01	6.65	7.45	6.42	6.80
still.r.01	5.49	6.21	4.05	6.88
wholly.r.01	5.05	2.48	5.19	5.23
back.r.01	5.02	4.35	4.89	5.23
total	100.00	100.00	100.00	100.00

TABLE S147. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 11

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	65.96	67.12	65.58	65.70
physical_entity.n.01	34.04	32.88	34.42	34.30
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	25.04	26.84	24.50	24.55
object.n.01	23.29	23.61	23.02	23.51
communication.n.02	14.69	13.21	14.88	15.56
measure.n.02	11.12	13.15	10.81	10.01
causal_agent.n.01	6.53	5.55	6.86	6.72
group.n.01	6.07	5.04	6.11	6.85
attribute.n.02	6.06	5.70	6.37	5.80
matter.n.03	3.16	2.71	3.38	3.13
relation.n.01	2.99	3.19	2.93	2.92
thing.n.12	0.53	0.72	0.51	0.42
process.n.06	0.53	0.29	0.64	0.52
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
event.n.01	22.04	23.59	21.42	21.87
whole.n.02	16.85	16.57	16.24	18.20
definite_quantity.n.01	11.27	13.77	11.02	9.64
cognition.n.01	8.82	9.38	8.90	8.21
person.n.01	7.95	6.75	8.39	8.12
message.n.02	7.76	6.17	8.11	8.41
location.n.01	5.61	4.82	5.78	5.94
collection.n.01	5.03	3.84	5.06	5.95
land.n.04	4.86	4.91	5.60	3.46
state.n.02	3.45	3.86	3.21	3.56
written_communication.n.01	3.38	3.59	3.16	3.61
substance.n.01	3.00	2.75	3.11	3.02
total	100.00	100.00	100.00	100.00

TABLE S148. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 12

	g.	p.	i.	h.
public.a.01	27.60	16.40	25.87	39.95
new.a.01	16.10	24.26	12.72	17.16
internal.a.01	13.07	15.88	16.56	3.35
chief.s.01	10.92	16.06	11.04	6.70
like.a.01	9.35	7.85	10.30	8.45
able.a.01	4.30	5.24	3.97	4.29
capable.s.02	3.68	3.49	4.84	1.34
certain.a.02	3.31	3.66	3.04	3.62
good.a.01	3.14	1.92	2.98	4.42
true.a.01	3.04	1.75	3.10	3.89
different.a.01	2.90	1.92	3.16	3.08
available.a.01	2.59	1.57	2.42	3.75
total	100.00	100.00	100.00	100.00

TABLE S149. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 12

	g.	p.	i.	h.
make.v.03	16.17	14.94	15.37	18.50
act.v.01	14.12	13.52	14.44	14.02
change.v.01	12.80	14.90	11.91	12.76
travel.v.01	10.25	11.26	10.05	9.85
move.v.02	8.08	8.46	7.89	8.11
change.v.02	7.76	7.24	7.10	9.31
use.v.01	7.35	7.03	8.05	6.35
think.v.03	6.53	5.57	7.11	6.25
get.v.01	5.91	5.69	7.08	4.04
necessitate.v.01	3.91	4.52	3.67	3.85
be.v.01	3.82	4.14	4.00	3.25
satisfy.v.02	3.30	2.72	3.33	3.69
total	100.00	100.00	100.00	100.00
interact.v.01	16.38	15.81	16.54	16.53
construct.v.01	13.92	12.54	12.79	17.22
evaluate.v.02	9.48	6.19	11.06	9.10
change_magnitude.v.01	8.50	6.96	8.43	9.86
travel_rapidly.v.01	7.10	8.16	7.89	4.72
put.v.01	7.03	9.02	6.05	7.29
try.v.01	6.84	7.90	6.67	6.32
please.v.01	6.80	5.58	6.63	8.12
empty.v.01	6.32	8.51	7.68	1.94
follow.v.01	6.25	8.59	3.71	9.24
state.v.01	5.76	5.15	6.45	4.93
keep.v.03	5.61	5.58	6.09	4.72
total	100.00	100.00	100.00	100.00
communicate.v.02	23.25	23.42	22.58	24.50
increase.v.01	12.78	10.66	12.33	15.52
run.v.01	10.78	12.50	11.64	7.54
hollow.v.02	9.59	13.03	11.32	3.10
think.v.01	6.91	3.55	9.14	5.10
update.v.01	6.57	6.84	4.09	11.53
save.v.02	6.04	6.05	6.38	5.32
supply.v.01	5.59	3.68	5.58	7.21
name.v.01	5.14	5.00	5.15	5.21
manipulate.v.02	5.08	0.53	5.53	7.98
write.v.01	4.49	3.29	4.57	5.32
decide.v.02	3.78	11.45	1.70	1.66
total	100.00	100.00	100.00	100.00
inform.v.01	26.68	29.54	26.16	25.52
add.v.01	18.57	16.63	16.95	23.60
core.v.01	15.07	21.66	17.36	4.90
record.v.01	9.49	10.07	9.78	8.39
operate.v.03	7.89	0.44	8.48	12.59
see.v.05	4.34	2.84	5.79	2.45
write.v.07	3.77	0.88	3.75	6.12
propose.v.01	3.01	1.53	3.59	2.97
ask.v.01	2.88	2.19	2.36	4.55
roll_up.v.02	2.88	3.94	2.77	2.27
dispose.v.01	2.79	5.47	1.14	4.20
encase.v.01	2.62	4.81	1.87	2.45
total	100.00	100.00	100.00	100.00

TABLE S150. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 12

	g.	**p.**	**i.**	**h.**
besides.r.02	18.93	17.28	20.85	16.60
well.r.01	11.15	9.26	11.88	11.07
even.r.01	8.36	6.79	8.52	9.09
however.r.01	8.13	6.79	7.62	9.88
still.r.01	7.78	6.79	6.28	11.07
presently.r.02	7.32	9.88	7.62	5.14
possibly.r.01	7.20	4.32	8.97	5.93
already.r.01	7.20	6.17	8.97	4.74
truly.r.01	6.97	11.11	4.93	7.91
actually.r.01	5.81	4.32	6.73	5.14
alternatively.r.01	5.57	6.17	4.04	7.91
automatically.r.01	5.57	11.11	3.59	5.53
total	100.00	100.00	100.00	100.00

TABLE S151. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 12

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	65.35	60.71	76.03	72.05
physical_entity.n.01	34.65	39.29	23.97	27.95
total	100.00	100.00	100.00	100.00
measure.n.02	20.33	22.06	31.22	15.88
object.n.01	16.09	17.04	12.01	14.95
psychological_feature.n.01	15.00	10.36	17.70	22.74
communication.n.02	12.90	10.72	12.65	16.75
matter.n.03	10.37	13.69	6.04	5.15
attribute.n.02	9.07	9.90	6.50	7.95
causal_agent.n.01	6.80	7.23	4.12	6.40
group.n.01	4.70	4.68	4.24	4.80
relation.n.01	3.34	3.00	3.66	3.89
thing.n.12	0.89	0.93	0.64	0.86
process.n.06	0.49	0.39	1.16	0.59
set.n.02	0.02	0.00	0.06	0.04
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	22.18	24.31	35.19	16.40
whole.n.02	14.23	14.15	12.65	14.59
event.n.01	10.57	8.25	13.32	14.59
substance.n.01	10.26	13.15	6.77	5.28
cognition.n.01	8.39	4.51	9.30	15.60
person.n.01	8.14	8.13	5.28	8.54
property.n.02	6.08	7.46	2.90	3.90
location.n.01	5.37	6.09	2.31	4.43
message.n.02	4.56	3.33	6.03	6.68
signal.n.01	4.06	5.37	0.67	2.02
written_communication.n.01	3.53	1.92	4.61	6.41
substance.n.07	2.64	3.33	0.97	1.56
total	100.00	100.00	100.00	100.00

TABLE S152. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 13

	g.	p.	i.	h.
like.a.01	18.14	7.70	30.61	30.00
new.a.01	16.09	12.48	16.33	20.58
first.a.01	9.36	10.02	4.08	9.04
strong.a.01	8.46	15.87	0.00	0.00
public.a.01	7.39	8.78	22.45	4.23
better.a.01	7.22	9.86	2.04	4.42
incorrect.a.01	6.57	4.47	6.12	9.23
many.a.01	6.08	7.55	2.04	4.62
solid.s.01	5.34	9.71	0.00	0.38
up-to-the-minute.s.01	5.17	8.78	4.08	0.77
small.a.01	5.17	2.47	2.04	8.85
good.a.01	5.01	2.31	10.20	7.88
total	100.00	100.00	100.00	100.00

TABLE S153. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 13

	g.	p.	i.	h.
act.v.01	15.19	17.31	12.88	14.51
think.v.03	13.76	11.88	9.13	15.02
change.v.01	11.54	9.39	11.24	12.50
travel.v.01	8.48	7.05	12.18	8.73
move.v.02	8.28	14.16	6.32	5.94
make.v.03	8.18	4.99	11.71	9.20
change.v.02	7.86	9.77	6.09	7.21
use.v.01	6.48	2.44	7.49	8.12
get.v.01	6.05	7.54	7.96	5.22
make.v.01	5.96	3.85	6.32	6.83
be.v.01	4.46	2.55	6.56	5.08
transfer.v.05	3.76	9.06	2.11	1.64
total	100.00	100.00	100.00	100.00
evaluate.v.02	24.66	24.81	16.42	25.44
interact.v.01	21.34	28.44	12.94	19.42
state.v.01	7.50	8.70	5.47	7.23
better.v.02	6.28	4.16	6.97	7.03
give.v.03	5.94	12.99	4.48	3.34
keep.v.03	5.43	2.86	6.97	6.27
construct.v.01	5.29	1.04	7.96	6.68
see.v.01	5.16	2.99	10.95	5.41
put.v.01	4.72	4.42	5.97	4.70
look.v.02	4.68	1.82	11.44	5.11
try.v.01	4.58	5.32	6.97	4.05
change_state.v.01	4.44	2.47	3.48	5.31
total	100.00	100.00	100.00	100.00
communicate.v.02	27.85	34.93	19.67	25.44
think.v.01	14.00	6.62	14.75	17.21
expect.v.01	12.51	19.87	9.02	9.56
repair.v.01	6.47	0.33	9.84	8.90
supply.v.01	5.85	11.92	7.38	3.01
increase.v.01	5.80	1.82	9.84	7.21
align.v.01	5.42	18.21	0.00	0.22
name.v.01	5.03	3.31	15.57	4.85
write.v.01	4.46	1.66	3.28	5.81
save.v.02	4.46	1.32	8.20	5.51
match.v.05	4.12	0.00	0.00	6.32
integrate.v.03	4.03	0.00	2.46	5.96
total	100.00	100.00	100.00	100.00
inform.v.01	33.16	34.71	27.66	32.74
add.v.01	9.50	1.93	23.40	12.38
record.v.01	8.18	2.20	21.28	10.32
balance.v.01	7.56	0.00	0.00	11.83
think.v.02	7.56	17.08	2.13	3.16
unify.v.01	7.39	0.00	6.38	11.14
restrain.v.01	5.45	16.25	0.00	0.41
mention.v.01	4.75	0.83	2.13	6.88
see.v.05	4.57	6.06	6.38	3.71
offer.v.01	4.40	13.22	0.00	0.28
overlap.v.01	3.96	2.48	4.26	4.68
talk.v.02	3.52	5.23	6.38	2.48
total	100.00	100.00	100.00	100.00

TABLE S154. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 13

	g.	**p.**	**i.**	**h.**
truly.r.01	13.05	5.91	10.87	14.81
besides.r.02	11.42	11.83	13.04	11.23
actually.r.01	10.17	1.61	10.87	12.10
back.r.01	8.83	31.72	0.00	4.07
possibly.r.01	8.06	2.15	13.04	9.14
even.r.01	8.06	10.22	10.87	7.41
still.r.01	7.87	4.84	6.52	8.64
well.r.01	7.39	10.75	10.87	6.42
already.r.01	6.72	4.30	6.52	7.28
alternatively.r.01	6.33	3.76	8.70	6.79
right.r.01	6.24	7.53	6.52	5.93
never.r.01	5.85	5.38	2.17	6.17
total	100.00	100.00	100.00	100.00

TABLE S155. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 13

	g.	p.	i.	h.
NOUN	32.59	35.11	31.91	30.26
X	0.31	0.77	0.11	0.15
ADP	11.64	10.74	11.88	12.49
DET	11.35	11.09	11.44	11.52
VERB	20.83	20.15	21.18	20.82
ADJ	5.27	4.97	5.30	5.78
ADV	5.41	5.03	5.57	5.53
PRT	3.34	3.06	3.40	3.69
PRON	5.25	5.31	5.07	5.78
NUM	0.94	0.81	1.00	1.00
CONJ	3.06	2.94	3.14	2.99
PUNC	0.00	0.00	0.00	0.00
N	64.11	65.46	63.91	62.21
ADJ	9.08	8.59	9.02	10.28
VERB	4.28	4.20	4.28	4.43
ADV	22.53	21.75	22.78	23.08
POS	35.11	33.25	36.14	35.12
POS!	94.46	93.24	95.01	94.77

TABLE S156. Percentage of synsets with each of the POS tags used by Wordnet. The last lines give the percentage of words considered from all of the tokens (POS) and from the words with synset (POS!). The tokens not considered are punctuations, unrecognized words, words without synsets, stopwords and words for which Wordnet has no synset tagged with POS tags . Values for each Erdös sectors are in the columns **p.** for periphery, **i.** for intermediary, **h.** for hubs. TAG: 15

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	65.82	65.11	66.56	63.41
physical_entity.n.01	34.18	34.89	33.44	36.59
total	100.00	100.00	100.00	100.00
measure.n.02	23.47	18.80	26.32	20.18
object.n.01	15.72	15.88	15.18	18.59
psychological_feature.n.01	14.74	14.81	14.64	15.13
causal_agent.n.01	11.16	11.24	11.51	8.69
communication.n.02	10.75	12.44	9.77	11.67
attribute.n.02	8.97	9.10	8.80	9.64
group.n.01	5.37	6.58	4.89	4.55
matter.n.03	5.27	6.11	4.75	5.87
relation.n.01	2.53	3.37	2.15	2.25
process.n.06	1.50	1.23	1.58	1.80
thing.n.12	0.53	0.42	0.41	1.63
set.n.02	0.00	0.01	0.00	0.00
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	22.37	17.99	24.78	20.63
whole.n.02	15.46	14.26	15.37	19.94
person.n.01	13.67	14.16	13.81	11.15
event.n.01	12.95	13.29	12.67	13.74
cognition.n.01	6.00	5.89	6.00	6.35
substance.n.01	5.20	6.45	4.43	6.26
state.n.02	4.82	5.40	4.51	4.93
message.n.02	4.72	4.72	4.68	5.06
fundamental_quantity.n.01	4.29	3.81	4.93	1.67
location.n.01	4.26	5.53	3.58	4.68
written_communication.n.01	3.29	3.82	2.95	3.79
social_group.n.01	2.96	4.67	2.29	1.80
total	100.00	100.00	100.00	100.00

TABLE S157. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 15

	g.	p.	i.	h.
capable.s.02	19.86	22.45	21.84	0.00
new.a.01	15.56	19.58	13.41	20.13
like.a.01	13.73	10.44	13.31	24.68
able.a.01	8.92	11.23	8.33	7.14
certain.a.02	7.02	4.70	7.38	10.39
good.a.01	5.88	2.61	6.70	8.44
full.a.01	5.38	6.27	5.46	2.60
net.a.01	5.06	5.48	4.89	5.19
spare.s.01	4.81	1.04	6.42	3.25
all_right.s.01	4.81	5.48	4.21	7.14
best.a.01	4.49	3.92	4.89	3.25
local.a.01	4.49	6.79	3.16	7.79
total	100.00	100.00	100.00	100.00

TABLE S158. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 15

	g.	p.	i.	h.
act.v.01	16.39	17.43	16.18	15.40
travel.v.01	12.12	11.83	12.55	10.58
move.v.02	11.58	13.27	11.74	7.53
make.v.03	9.11	7.01	9.34	12.10
change.v.01	9.00	10.73	8.09	10.07
use.v.01	8.75	8.06	8.95	9.14
think.v.03	8.15	6.40	8.69	8.97
get.v.01	7.15	7.75	7.27	5.41
change.v.02	5.60	7.05	4.83	6.51
connect.v.01	4.19	4.03	4.37	3.64
express.v.02	4.01	3.42	3.86	5.84
perceive.v.01	3.94	3.02	4.12	4.82
total	100.00	100.00	100.00	100.00
interact.v.01	19.70	21.82	18.60	21.01
evaluate.v.02	13.45	11.09	14.37	13.45
travel_rapidly.v.01	10.67	10.55	11.10	8.91
state.v.01	8.01	7.00	7.68	11.43
send.v.01	7.99	10.45	8.53	0.84
put.v.01	7.97	8.45	7.50	9.24
create_verbally.v.01	7.08	5.09	7.01	11.09
try.v.01	5.88	6.73	5.62	5.55
see.v.01	5.66	3.36	6.26	7.06
attach.v.01	5.30	4.18	5.80	5.04
handle.v.04	4.22	3.00	4.55	4.87
give.v.03	4.08	8.27	2.99	1.51
total	100.00	100.00	100.00	100.00
communicate.v.02	28.72	33.14	27.41	26.56
run.v.01	16.95	16.50	17.82	13.80
write.v.01	11.24	7.97	11.25	17.19
manipulate.v.02	6.66	4.55	7.31	7.55
think.v.01	6.24	4.41	6.68	7.55
read.v.01	5.50	3.13	6.00	7.55
convey.v.03	4.58	6.26	4.74	0.78
increase.v.01	4.30	3.84	4.23	5.47
rate.v.01	4.05	5.41	3.88	2.34
save.v.02	4.05	3.98	4.00	4.43
expect.v.01	3.91	2.28	4.23	5.47
supply.v.01	3.81	8.53	2.46	1.30
total	100.00	100.00	100.00	100.00
inform.v.01	30.69	38.28	29.29	21.28
operate.v.03	11.66	7.42	12.71	15.43
talk.v.02	8.12	5.02	9.53	7.45
record.v.01	7.13	6.70	6.95	9.04
upgrade.v.01	7.01	8.85	6.65	4.79
write.v.07	6.51	7.18	5.86	8.51
add.v.01	5.95	4.78	5.76	9.57
permit.v.01	5.58	3.83	6.36	5.32
communicate.v.01	5.52	8.13	5.16	1.60
see.v.05	4.53	4.55	4.67	3.72
replace.v.01	3.84	2.39	3.87	6.91
propose.v.01	3.47	2.87	3.18	6.38
total	100.00	100.00	100.00	100.00

TABLE S159. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 15

	g.	p.	i.	h.
besides.r.02	19.73	31.72	18.36	13.11
well.r.01	11.93	13.44	11.26	13.11
back.r.01	9.69	9.14	10.19	8.20
still.r.01	9.33	8.06	8.45	14.21
actually.r.01	8.16	5.38	8.58	9.29
however.r.01	7.17	9.68	7.64	2.73
even.r.01	6.91	6.45	5.90	11.48
originally.r.01	6.28	1.08	8.98	0.55
truly.r.01	5.74	2.69	5.63	9.29
presently.r.02	5.38	6.45	5.50	3.83
never.r.01	4.84	5.38	4.69	4.92
possibly.r.01	4.84	0.54	4.83	9.29
total	100.00	100.00	100.00	100.00

TABLE S160. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 15

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	70.25	72.62	69.35	67.44
physical_entity.n.01	29.75	27.38	30.65	32.56
total	100.00	100.00	100.00	100.00
measure.n.02	22.32	16.98	30.43	21.31
communication.n.02	18.13	25.33	10.70	15.20
object.n.01	17.34	16.45	17.68	18.41
psychological_feature.n.01	12.96	8.55	15.22	17.53
attribute.n.02	9.75	14.44	5.63	6.98
matter.n.03	6.61	6.65	6.59	6.57
causal_agent.n.01	4.65	3.46	5.31	5.82
group.n.01	3.94	3.82	4.87	3.01
relation.n.01	3.15	3.49	2.50	3.39
thing.n.12	0.71	0.40	0.67	1.27
process.n.06	0.44	0.43	0.41	0.49
set.n.02	0.00	0.00	0.00	0.02
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	24.09	17.56	33.93	23.03
whole.n.02	13.85	9.13	16.60	18.47
signal.n.01	9.57	20.30	1.16	1.73
event.n.01	9.05	6.41	9.55	12.93
substance.n.01	6.82	6.86	6.64	6.95
property.n.02	6.56	12.46	2.18	1.95
cognition.n.01	6.14	3.57	8.23	7.92
location.n.01	6.06	9.76	3.38	3.06
person.n.01	5.41	3.96	6.16	6.95
message.n.02	5.32	4.25	5.24	7.24
written_communication.n.01	3.57	2.71	3.48	5.13
state.n.02	3.57	3.02	3.45	4.64
total	100.00	100.00	100.00	100.00

TABLE S161. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 16

	g.	p.	i.	h.
like.a.01	12.92	12.06	13.44	12.77
new.a.01	11.22	11.35	7.66	14.89
inactive.s.10	10.57	7.09	10.00	12.77
common.a.01	10.24	1.06	12.66	11.95
net.a.01	9.92	20.21	5.78	9.49
local.a.01	9.85	4.96	13.59	8.18
chief.s.01	9.00	22.34	8.75	3.11
different.a.01	6.00	4.61	7.34	5.24
current.a.01	5.48	2.13	5.47	7.04
certain.a.02	5.02	5.32	5.31	4.58
dynamic.a.01	4.89	6.03	5.31	3.93
possible.a.01	4.89	2.84	4.69	6.06
total	100.00	100.00	100.00	100.00

TABLE S162. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 16

	g.	p.	i.	h.
act.v.01	15.58	27.48	11.12	11.63
make.v.03	11.61	7.65	13.79	12.20
move.v.02	11.05	12.13	10.73	10.61
think.v.03	10.57	7.86	11.89	11.15
use.v.01	9.54	5.55	10.90	11.00
travel.v.01	8.32	7.98	8.60	8.27
change.v.01	7.61	5.14	7.92	9.08
make.v.01	6.52	7.40	5.48	6.98
change.v.02	5.41	5.88	4.85	5.66
get.v.01	5.02	6.46	4.77	4.23
be.v.01	4.66	4.32	4.71	4.85
exist.v.01	4.11	2.14	5.25	4.35
total	100.00	100.00	100.00	100.00
interact.v.01	14.04	16.20	12.32	14.29
evaluate.v.02	13.13	7.94	14.39	15.69
put.v.01	13.05	10.80	13.84	13.87
construct.v.01	9.82	6.75	11.02	10.83
check.v.01	7.17	1.75	8.63	9.67
set_about.v.01	7.08	26.45	0.11	0.06
coexist.v.02	7.06	3.97	9.34	6.87
state.v.01	6.66	5.32	7.38	6.87
keep.v.03	6.28	3.97	8.20	5.90
associate.v.01	6.13	5.88	7.11	5.23
try.v.01	4.93	5.64	5.05	4.26
give.v.03	4.66	5.32	2.61	6.45
total	100.00	100.00	100.00	100.00
communicate.v.02	20.79	22.33	18.18	22.61
install.v.01	11.88	7.44	12.44	15.01
confront.v.02	11.31	39.98	0.17	0.10
coincide.v.01	11.27	6.00	14.75	11.61
think.v.01	7.13	3.72	8.92	7.91
increase.v.01	7.07	3.96	7.03	9.76
run.v.01	6.12	3.24	7.20	7.30
store.v.01	5.79	3.96	7.72	5.04
expect.v.01	5.08	2.52	5.49	6.78
repair.v.01	4.74	1.92	5.23	6.58
declare.v.01	4.51	2.88	5.32	4.93
write.v.01	4.31	2.04	7.55	2.36
total	100.00	100.00	100.00	100.00
inform.v.01	25.74	36.44	20.28	25.97
overlap.v.01	19.76	14.12	23.75	18.34
add.v.01	11.48	8.19	10.83	14.12
roll_up.v.02	10.06	9.32	12.36	7.79
record.v.01	7.16	4.24	8.33	7.47
communicate.v.01	4.08	7.63	3.19	3.08
think.v.02	3.96	0.85	6.11	3.25
promise.v.01	3.85	4.80	4.72	2.27
believe.v.01	3.67	5.08	2.78	3.90
propose.v.01	3.55	1.98	3.47	4.55
assume.v.01	3.37	3.39	1.39	5.68
talk.v.02	3.31	3.95	2.78	3.57
total	100.00	100.00	100.00	100.00

TABLE S163. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 16

	g.	**p.**	**i.**	**h.**
besides.r.02	13.75	19.35	12.53	12.56
well.r.01	10.51	8.60	12.04	9.91
even.r.01	9.74	5.91	8.35	12.56
still.r.01	9.65	9.14	11.06	8.59
truly.r.01	8.60	6.99	11.79	6.39
already.r.01	8.40	13.44	6.63	7.93
alternatively.r.01	7.93	6.45	6.88	9.47
possibly.r.01	7.64	4.30	7.37	9.25
however.r.01	6.59	2.15	6.63	8.37
actually.r.01	6.40	3.23	7.13	7.05
first.r.01	5.54	12.90	4.42	3.52
always.r.01	5.25	7.53	5.16	4.41
total	100.00	100.00	100.00	100.00

TABLE S164. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 16

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	64.42	66.92	63.85	64.23
physical_entity.n.01	35.58	33.08	36.15	35.77
total	100.00	100.00	100.00	100.00
measure.n.02	22.91	23.80	22.36	23.10
object.n.01	20.04	21.24	19.00	20.53
psychological_feature.n.01	15.92	16.62	15.04	16.40
communication.n.02	11.21	12.66	11.77	10.44
causal_agent.n.01	8.87	7.37	9.51	8.75
attribute.n.02	7.55	7.06	7.14	7.97
matter.n.03	5.52	3.01	6.93	5.08
group.n.01	4.05	4.19	4.46	3.71
relation.n.01	2.78	2.59	3.08	2.60
thing.n.12	0.73	0.62	0.54	0.89
process.n.06	0.43	0.84	0.17	0.51
set.n.02	0.00	0.00	0.00	0.01
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	24.06	25.44	22.94	24.56
whole.n.02	19.02	20.68	17.99	19.38
event.n.01	11.84	12.89	12.39	11.17
person.n.01	10.03	8.36	10.85	9.81
cognition.n.01	6.79	6.66	5.24	7.99
message.n.02	6.19	6.39	6.79	5.69
substance.n.01	6.03	2.86	7.65	5.59
location.n.01	3.84	3.23	4.03	3.84
state.n.02	3.67	4.86	3.50	3.51
written_communication.n.01	3.47	3.93	3.69	3.20
shape.n.02	2.61	1.76	2.37	2.99
collection.n.01	2.46	2.93	2.55	2.27
total	100.00	100.00	100.00	100.00

TABLE S165. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 17

	g.	p.	i.	h.
public.a.01	29.35	12.42	42.72	19.01
new.a.01	10.96	13.66	9.21	12.20
like.a.01	10.28	12.42	9.61	10.50
capable.s.02	8.48	4.35	9.88	7.94
net.a.01	7.93	1.24	1.34	16.45
virtual.s.01	5.76	6.83	4.67	6.67
able.a.01	5.33	6.21	5.74	4.68
certain.a.02	5.20	4.35	3.74	6.95
available.a.01	4.46	6.83	4.14	4.26
all_right.s.01	4.33	18.63	3.07	2.41
false.a.01	4.15	4.97	3.34	4.82
true.a.01	3.78	8.07	2.54	4.11
total	100.00	100.00	100.00	100.00

TABLE S166. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 17

	g.	p.	i.	h.
move.v.02	14.30	17.34	14.72	13.27
act.v.01	13.53	15.72	13.65	12.93
change.v.01	12.37	14.50	13.34	11.11
travel.v.01	10.87	9.76	10.74	11.23
make.v.03	9.60	7.99	9.44	10.09
use.v.01	7.38	5.42	7.22	7.96
think.v.03	7.11	8.27	5.70	7.99
change.v.02	6.78	6.23	7.11	6.63
connect.v.01	5.16	5.56	6.15	4.26
get.v.01	4.66	4.47	5.24	4.23
perceive.v.01	4.37	2.98	3.82	5.12
necessitate.v.01	3.88	1.76	2.87	5.18
total	100.00	100.00	100.00	100.00
put.v.01	16.24	24.23	16.10	14.47
interact.v.01	12.17	13.01	12.06	12.07
evaluate.v.02	11.23	11.22	8.64	13.45
try.v.01	10.14	12.76	10.66	9.07
travel_rapidly.v.01	9.25	6.12	9.20	10.03
change_magnitude.v.01	8.77	6.89	8.71	9.25
see.v.01	6.79	4.08	5.85	8.23
state.v.01	5.33	5.10	4.95	5.77
keep.v.03	5.21	4.85	6.97	3.78
send.v.01	5.16	3.57	5.85	4.92
spice.v.01	4.87	2.04	6.41	4.20
attach.v.01	4.84	6.12	4.60	4.74
total	100.00	100.00	100.00	100.00
communicate.v.02	16.93	17.25	16.61	17.12
install.v.01	15.82	22.18	17.82	12.42
run.v.01	14.32	8.45	14.52	15.71
increase.v.01	13.48	9.15	13.64	14.49
hollow.v.02	6.87	17.61	4.73	5.83
think.v.01	6.56	7.04	4.29	8.37
save.v.02	6.47	4.93	8.91	4.80
write.v.01	4.52	1.41	5.94	4.14
name.v.01	4.48	3.87	3.30	5.64
expect.v.01	4.12	3.17	3.63	4.80
repair.v.01	3.28	2.46	2.64	4.05
update.v.01	3.15	2.46	3.96	2.63
total	100.00	100.00	100.00	100.00
inform.v.01	22.22	24.48	22.05	21.73
add.v.01	21.85	17.48	22.50	22.54
core.v.01	14.35	34.97	9.77	12.47
record.v.01	13.52	9.79	18.41	10.26
grow.v.02	6.11	0.00	5.45	8.45
overlap.v.01	3.70	1.40	3.41	4.63
operate.v.03	3.24	2.10	2.50	4.23
assume.v.01	3.24	3.50	2.50	3.82
propose.v.01	3.06	4.20	2.95	2.82
configure.v.01	3.06	1.40	3.41	3.22
ask.v.01	2.96	0.00	2.73	4.02
enumerate.v.01	2.69	0.70	4.32	1.81
total	100.00	100.00	100.00	100.00

TABLE S167. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 17

	g.	**p.**	**i.**	**h.**
besides.r.02	19.65	18.06	22.68	17.66
still.r.01	13.58	11.11	15.99	12.25
possibly.r.01	8.24	9.72	10.04	6.55
well.r.01	8.24	6.94	5.20	10.83
yet.r.01	7.66	4.17	8.18	7.98
manually.r.01	7.23	6.94	8.18	6.55
already.r.01	7.08	4.17	5.20	9.12
however.r.01	7.08	8.33	8.18	5.98
first.r.01	6.36	11.11	4.46	6.84
probably.r.01	5.20	6.94	3.72	5.98
truly.r.01	5.06	8.33	4.09	5.13
presently.r.02	4.62	4.17	4.09	5.13
total	100.00	100.00	100.00	100.00

TABLE S168. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 17

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	68.59	61.52	71.79	69.36
physical_entity.n.01	31.41	38.48	28.21	30.64
total	100.00	100.00	100.00	100.00
communication.n.02	19.73	19.37	19.64	19.88
object.n.01	19.19	24.69	16.18	18.81
measure.n.02	17.16	14.34	20.05	16.81
psychological_feature.n.01	16.04	9.55	17.45	17.36
attribute.n.02	8.43	11.56	7.82	7.77
matter.n.03	5.20	8.23	4.58	4.57
causal_agent.n.01	4.83	3.52	5.26	5.03
group.n.01	4.50	3.76	4.36	4.77
relation.n.01	2.71	2.90	2.45	2.76
thing.n.12	1.34	1.25	1.62	1.25
process.n.06	0.85	0.79	0.58	0.98
set.n.02	0.02	0.03	0.01	0.01
total	100.00	100.00	100.00	100.00
whole.n.02	17.85	24.14	14.38	17.26
definite_quantity.n.01	17.36	14.62	20.22	17.08
event.n.01	12.45	7.21	14.41	13.31
cognition.n.01	8.10	4.21	8.34	9.23
message.n.02	7.35	4.20	7.16	8.42
location.n.01	6.16	5.08	5.94	6.58
person.n.01	6.06	3.67	6.76	6.54
written_communication.n.01	5.73	2.69	6.76	6.27
substance.n.01	5.43	8.35	4.79	4.77
property.n.02	5.23	10.84	4.72	3.66
indication.n.01	4.41	2.58	4.58	4.92
signal.n.01	3.87	12.42	1.92	1.95
total	100.00	100.00	100.00	100.00

TABLE S169. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 18

	g.	p.	i.	h.
like.a.01	18.51	13.16	17.00	19.52
new.a.01	11.41	15.79	13.20	10.41
good.a.01	8.80	7.89	6.94	9.46
able.a.01	7.68	4.61	7.16	8.16
possible.a.01	7.44	6.58	9.84	6.80
first.a.01	7.44	8.55	8.28	7.07
free.a.01	6.96	9.21	5.37	7.21
net.a.01	6.86	11.84	6.26	6.53
different.a.01	6.81	3.95	6.71	7.14
certain.a.02	6.52	1.32	7.16	6.87
much.a.01	5.85	8.55	5.82	5.58
small.a.01	5.70	8.55	6.26	5.24
total	100.00	100.00	100.00	100.00

TABLE S170. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 18

	g.	p.	i.	h.
act.v.01	13.98	20.77	14.58	12.86
use.v.01	10.96	7.34	10.89	11.46
think.v.03	10.39	9.45	10.52	10.47
change.v.01	10.12	6.59	11.72	10.01
make.v.03	9.01	5.72	8.44	9.65
change.v.02	8.87	22.26	8.86	7.10
move.v.02	7.83	6.59	7.84	7.99
travel.v.01	7.34	5.60	7.93	7.36
make.v.01	6.74	4.35	5.95	7.35
express.v.02	5.16	5.35	5.30	5.09
desire.v.01	4.87	2.49	4.61	5.27
necessitate.v.01	4.73	3.48	3.37	5.39
total	100.00	100.00	100.00	100.00
interact.v.01	20.35	30.03	21.33	18.96
evaluate.v.02	16.42	17.25	17.96	15.78
state.v.01	10.80	13.42	10.95	10.46
change_magnitude.v.01	7.59	7.67	6.63	7.92
create_verbally.v.01	7.35	4.15	5.57	8.33
keep.v.03	7.05	2.56	8.07	7.17
put.v.01	6.70	2.88	4.90	7.75
interpret.v.01	6.02	7.03	5.19	6.21
attach.v.01	5.22	1.92	5.76	5.38
see.v.01	4.61	6.71	5.67	4.01
manage.v.02	4.07	3.51	4.13	4.12
label.v.01	3.82	2.88	3.84	3.91
total	100.00	100.00	100.00	100.00
communicate.v.02	26.18	23.92	29.28	25.48
think.v.01	13.38	9.14	16.27	13.15
write.v.01	10.33	3.49	8.20	12.39
increase.v.01	9.67	5.91	9.05	10.60
read.v.01	7.93	4.57	7.07	8.87
store.v.01	6.22	0.81	7.64	6.73
name.v.01	5.29	2.42	5.66	5.71
align.v.01	4.70	36.56	0.42	0.20
declare.v.01	4.51	4.30	5.09	4.33
expect.v.01	4.44	2.69	4.10	4.89
encode.v.01	3.68	5.65	3.82	3.26
tag.v.01	3.68	0.54	3.39	4.38
total	100.00	100.00	100.00	100.00
inform.v.01	28.44	46.83	23.25	27.98
add.v.01	17.67	11.11	17.09	18.72
record.v.01	7.30	3.97	8.12	7.43
write.v.02	6.62	2.38	12.89	4.88
talk.v.01	5.46	7.14	5.04	5.39
ask.v.01	5.39	8.73	5.32	4.98
mention.v.01	5.18	4.76	1.96	6.41
think.v.02	5.12	3.17	5.32	5.29
propose.v.01	4.84	3.17	6.72	4.37
code.v.01	4.77	0.79	4.76	5.29
talk.v.02	4.71	0.79	5.60	4.88
see.v.05	4.50	7.14	3.92	4.37
total	100.00	100.00	100.00	100.00

TABLE S171. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 18

	g.	**p.**	**i.**	**h.**
besides.r.02	18.75	13.21	19.69	18.91
possibly.r.01	12.20	16.04	12.02	11.96
already.r.01	10.87	9.43	9.46	11.38
well.r.01	10.55	10.38	9.21	10.94
even.r.01	8.84	5.66	6.14	9.86
still.r.01	8.74	10.38	7.93	8.84
truly.r.01	7.35	3.77	9.97	6.88
probably.r.01	5.91	5.66	7.67	5.43
merely.r.01	4.42	5.66	4.09	4.42
yet.r.01	4.42	8.49	4.60	4.06
back.r.01	4.05	8.49	4.86	3.48
presently.r.02	3.89	2.83	4.35	3.84
total	100.00	100.00	100.00	100.00

TABLE S172. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 18

	g.	p.	i.	h.
entity.n.01	100.00	100.00	100.00	100.00
total	100.00	100.00	100.00	100.00
abstraction.n.06	71.94	69.50	68.22	74.32
physical_entity.n.01	28.06	30.50	31.78	25.68
total	100.00	100.00	100.00	100.00
psychological_feature.n.01	18.80	14.77	16.29	21.37
measure.n.02	15.96	19.14	15.46	14.86
communication.n.02	14.51	18.04	13.85	13.34
object.n.01	13.57	13.49	16.72	12.42
group.n.01	10.55	6.21	11.29	12.02
attribute.n.02	8.62	8.47	8.27	8.82
causal_agent.n.01	7.67	4.50	8.83	8.52
matter.n.03	5.43	11.34	5.13	3.16
relation.n.01	3.48	2.87	3.04	3.89
process.n.06	0.84	0.56	0.38	1.13
thing.n.12	0.55	0.61	0.73	0.45
set.n.02	0.01	0.00	0.00	0.02
total	100.00	100.00	100.00	100.00
definite_quantity.n.01	16.12	22.17	15.61	13.99
event.n.01	14.53	12.15	12.61	16.19
whole.n.02	12.31	12.30	15.80	10.96
cognition.n.01	9.32	7.45	7.43	10.78
person.n.01	9.26	5.79	10.58	10.08
message.n.02	8.83	9.71	7.90	8.85
collection.n.01	7.68	3.91	8.02	8.99
substance.n.01	5.70	12.74	5.21	3.17
state.n.02	5.42	2.79	5.46	6.42
location.n.01	3.88	4.45	3.68	3.74
social_group.n.01	3.61	2.69	3.97	3.83
written_communication.n.01	3.34	3.85	3.72	3.01
total	100.00	100.00	100.00	100.00

TABLE S173. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 19

	g.	p.	i.	h.
new.a.01	19.22	31.50	13.06	18.79
like.a.01	18.24	6.50	20.18	20.13
public.a.01	10.06	22.00	17.51	4.59
excess.s.01	9.36	1.50	12.17	10.07
good.a.01	9.29	8.50	6.53	10.51
old.a.01	5.38	4.00	3.86	6.26
many.a.01	5.17	4.50	5.04	5.37
current.a.01	5.03	3.00	5.93	5.15
certain.a.02	4.96	3.00	3.56	5.93
first.a.01	4.47	7.50	4.15	3.91
much.a.01	4.40	4.00	3.56	4.81
small.a.01	4.40	4.00	4.45	4.47
total	100.00	100.00	100.00	100.00

TABLE S174. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 19

	g.	p.	i.	h.
act.v.01	14.04	14.34	11.91	14.74
think.v.03	13.35	8.66	12.53	14.54
move.v.02	9.79	12.02	9.84	9.35
change.v.02	9.70	8.27	9.15	10.16
make.v.03	9.66	10.47	10.67	9.15
travel.v.01	8.23	9.17	8.60	7.92
make.v.01	7.55	10.85	10.12	6.00
change.v.01	6.99	7.11	8.33	6.50
use.v.01	5.64	5.43	5.99	5.56
get.v.01	5.44	5.17	4.89	5.68
desire.v.01	5.25	4.13	4.54	5.71
express.v.02	4.36	4.39	3.44	4.68
total	100.00	100.00	100.00	100.00
evaluate.v.02	23.05	17.16	21.63	24.51
interact.v.01	16.87	21.89	14.37	16.84
put.v.01	9.65	12.13	12.86	8.17
state.v.01	8.95	10.06	7.56	9.22
construct.v.01	6.99	8.58	9.08	6.03
change_magnitude.v.01	5.76	6.80	4.84	5.88
choose.v.01	5.36	5.92	3.78	5.78
modify.v.01	5.19	3.85	6.20	5.08
see.v.01	4.82	4.73	4.99	4.78
take.v.01	4.49	1.18	4.39	5.08
try.v.01	4.46	5.03	4.69	4.29
re-create.v.01	4.42	2.66	5.60	4.33
total	100.00	100.00	100.00	100.00
communicate.v.02	23.79	29.52	19.12	24.36
think.v.01	20.09	14.54	19.82	21.17
increase.v.01	8.48	10.13	6.91	8.72
update.v.01	6.83	5.29	8.06	6.69
install.v.01	6.58	11.01	11.52	4.12
accept.v.01	5.81	3.08	3.46	7.08
bend.v.01	5.81	5.29	6.45	5.68
stage.v.01	5.65	2.64	6.91	5.76
repair.v.01	4.52	4.41	6.22	3.97
write.v.01	4.32	4.41	5.30	3.97
supply.v.01	4.16	7.05	3.23	3.97
read.v.01	3.96	2.64	3.00	4.51
total	100.00	100.00	100.00	100.00
inform.v.01	24.55	35.48	27.78	21.81
add.v.01	14.18	15.32	15.15	13.72
arch.v.01	10.66	9.68	14.14	9.88
see.v.05	8.28	7.26	6.06	9.05
believe.v.01	7.33	2.42	6.06	8.50
submit.v.01	6.95	5.65	8.08	6.86
ask.v.01	5.61	2.42	5.56	6.17
mention.v.01	4.95	3.23	2.53	5.90
roll_up.v.02	4.76	7.26	9.09	3.16
propose.v.01	4.66	4.84	3.03	5.08
talk.v.02	4.28	0.81	1.52	5.62
write.v.02	3.81	5.65	1.01	4.25
total	100.00	100.00	100.00	100.00

TABLE S175. Counts for the most incident synsets three step from the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). TAG: 19

	g.	**p.**	**i.**	**h.**
besides.r.02	18.67	23.81	18.97	17.98
well.r.01	12.51	11.90	14.36	12.08
truly.r.01	10.80	7.14	9.74	11.52
possibly.r.01	9.89	9.52	10.77	9.69
still.r.01	9.49	14.29	8.72	9.13
already.r.01	7.27	8.33	8.72	6.74
even.r.01	6.46	5.95	3.59	7.30
actually.r.01	5.85	4.76	6.67	5.76
enough.r.01	5.25	2.38	2.05	6.46
probably.r.01	5.15	7.14	5.13	4.92
presently.r.02	4.34	1.19	5.13	4.49
anyhow.r.01	4.34	3.57	6.15	3.93
total	100.00	100.00	100.00	100.00

TABLE S176. Counts for the most incident synsets at the semantic roots in each Erdös sector (**p.** for periphery, **i.** for intermediary, **h.** for hubs). Yes. TAG: 19

C. Differentiation of the texts from Erdös sectors

1. Snapshots of 1000 messages

	g.	p.	i.	h.
g.	0.000	1.973	1.130	1.596
	0.000	0.017	0.007	0.008
p.	1.973	0.000	1.782	2.738
	0.017	0.000	0.017	0.025
i.	1.130	1.782	0.000	2.243
	0.007	0.017	0.000	0.014
h.	1.596	2.738	2.243	0.000
	0.008	0.025	0.014	0.000

TABLE S177. KS distances on size of tokens. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	1.353	1.893	1.259
	0.000	0.022	0.020	0.011
p.	1.353	0.000	2.123	1.013
	0.022	0.000	0.037	0.017
i.	1.893	2.123	0.000	2.671
	0.020	0.037	0.000	0.030
h.	1.259	1.013	2.671	0.000
	0.011	0.017	0.030	0.000

TABLE S178. KS distances on size of known words. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	1.809	1.038	1.487
	0.000	0.083	0.032	0.039
p.	1.809	0.000	1.326	2.522
	0.083	0.000	0.067	0.121
i.	1.038	1.326	0.000	2.089
	0.032	0.067	0.000	0.072
h.	1.487	2.522	2.089	0.000
	0.039	0.121	0.072	0.000

TABLE S179. KS distances on size of sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	1.283	1.028	1.023
	0.000	0.059	0.032	0.027
p.	1.283	0.000	0.897	1.691
	0.059	0.000	0.046	0.081
i.	1.028	0.897	0.000	1.718
	0.032	0.046	0.000	0.059
h.	1.023	1.691	1.718	0.000
	0.027	0.081	0.059	0.000

TABLE S180. KS distances on use of adjectives on sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	2.146	0.274	0.860
	0.000	0.098	0.009	0.023
p.	2.146	0.000	1.975	2.518
	0.098	0.000	0.100	0.121
i.	0.274	1.975	0.000	0.804
	0.009	0.100	0.000	0.028
h.	0.860	2.518	0.804	0.000
	0.023	0.121	0.028	0.000

TABLE S181. KS distances on use of substantives on sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	1.761	0.900	1.402
	0.000	0.081	0.028	0.037
p.	1.761	0.000	1.199	2.449
	0.081	0.000	0.061	0.118
i.	0.900	1.199	0.000	1.894
	0.028	0.061	0.000	0.065
h.	1.402	2.449	1.894	0.000
	0.037	0.118	0.065	0.000

TABLE S182. KS distances on use of punctuations on sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	0.592	1.230	1.065
	0.000	0.057	0.073	0.059
p.	0.592	0.000	0.902	0.908
	0.057	0.000	0.094	0.093
i.	1.230	0.902	0.000	1.947
	0.073	0.094	0.000	0.132
h.	1.065	0.908	1.947	0.000
	0.059	0.093	0.132	0.000

TABLE S183. KS distances on use of number of characters in messages. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	1.208 0.105	0.364 0.021	0.707 0.034
p.	1.208 0.105	0.000 0.000	1.241 0.120	1.471 0.134
i.	0.364 0.021	1.241 0.120	0.000 0.000	0.714 0.045
h.	0.707 0.034	1.471 0.134	0.714 0.045	0.000 0.000

TABLE S184. KS distances on use of verbs in each 100 tokens.
TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	4.805	2.739	0.612
	0.000	0.037	0.017	0.003
p.	4.805	0.000	5.970	4.871
	0.037	0.000	0.053	0.040
i.	2.739	5.970	0.000	2.210
	0.017	0.053	0.000	0.015
h.	0.612	4.871	2.210	0.000
	0.003	0.040	0.015	0.000

TABLE S185. KS distances on size of tokens. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	1.098	1.613	0.853
	0.000	0.019	0.022	0.010
p.	1.098	0.000	1.936	0.713
	0.019	0.000	0.039	0.013
i.	1.613	1.936	0.000	2.105
	0.022	0.039	0.000	0.031
h.	0.853	0.713	2.105	0.000
	0.010	0.013	0.031	0.000

TABLE S186. KS distances on size of known words. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.775	0.760	0.594
	0.000	0.031	0.022	0.014
p.	0.775	0.000	0.884	0.964
	0.031	0.000	0.040	0.040
i.	0.760	0.884	0.000	0.981
	0.022	0.040	0.000	0.031
h.	0.594	0.964	0.981	0.000
	0.014	0.040	0.031	0.000

TABLE S187. KS distances on size of sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.467	0.510	0.151
	0.000	0.018	0.015	0.004
p.	0.467	0.000	0.743	0.355
	0.018	0.000	0.033	0.015
i.	0.510	0.743	0.000	0.577
	0.015	0.033	0.000	0.018
h.	0.151	0.355	0.577	0.000
	0.004	0.015	0.018	0.000

TABLE S188. KS distances on use of adjectives on sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	1.072	0.997	0.754
	0.000	0.043	0.029	0.018
p.	1.072	0.000	1.056	1.233
	0.043	0.000	0.047	0.052
i.	0.997	1.056	0.000	1.462
	0.029	0.047	0.000	0.047
h.	0.754	1.233	1.462	0.000
	0.018	0.052	0.047	0.000

TABLE S189. KS distances on use of substantives on sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.706	0.682	0.340
	0.000	0.028	0.020	0.008
p.	0.706	0.000	0.979	0.638
	0.028	0.000	0.044	0.027
i.	0.682	0.979	0.000	0.877
	0.020	0.044	0.000	0.028
h.	0.340	0.638	0.877	0.000
	0.008	0.027	0.028	0.000

TABLE S190. KS distances on use of punctuations on sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.835	0.510	0.534
	0.000	0.074	0.033	0.029
p.	0.835	0.000	0.780	1.054
	0.074	0.000	0.078	0.099
i.	0.510	0.780	0.000	0.809
	0.033	0.078	0.000	0.057
h.	0.534	1.054	0.809	0.000
	0.029	0.099	0.057	0.000

TABLE S191. KS distances on use of number of characters in messages. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	1.161	0.675	0.489
	0.000	0.088	0.041	0.025
p.	1.161	0.000	1.256	1.385
	0.088	0.000	0.111	0.113
i.	0.675	1.256	0.000	0.870
	0.041	0.111	0.000	0.059
h.	0.489	1.385	0.870	0.000
	0.025	0.113	0.059	0.000

TABLE S192. KS distances on use of verbs in each 100 tokens. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000 0.000	2.193 0.016	5.941 0.025	8.367 0.038
p.	2.193 0.016	0.000 0.000	1.400 0.011	6.888 0.054
i.	5.941 0.025	1.400 0.011	0.000 0.000	12.185 0.063
h.	8.367 0.038	6.888 0.054	12.185 0.063	0.000 0.000

TABLE S193. KS distances on size of tokens. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	1.553 0.022	2.322 0.019	2.208 0.019
p.	1.553 0.022	0.000 0.000	2.517 0.037	1.320 0.020
i.	2.322 0.019	2.517 0.037	0.000 0.000	3.834 0.038
h.	2.208 0.019	1.320 0.020	3.834 0.038	0.000 0.000

TABLE S194. KS distances on size of known words. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	1.497 0.060	1.875 0.043	2.410 0.054
p.	1.497 0.060	0.000 0.000	0.570 0.024	2.812 0.119
i.	1.875 0.043	0.570 0.024	0.000 0.000	3.636 0.097
h.	2.410 0.054	2.812 0.119	3.636 0.097	0.000 0.000

TABLE S195. KS distances on size of sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	0.415 0.017	0.945 0.022	1.059 0.024
p.	0.415 0.017	0.000 0.000	0.427 0.018	0.927 0.039
i.	0.945 0.022	0.427 0.018	0.000 0.000	1.702 0.045
h.	1.059 0.024	0.927 0.039	1.702 0.045	0.000 0.000

TABLE S196. KS distances on use of adjectives on sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	1.773 0.071	1.302 0.030	1.832 0.041
p.	1.773 0.071	0.000 0.000	1.101 0.047	2.625 0.111
i.	1.302 0.030	1.101 0.047	0.000 0.000	2.657 0.071
h.	1.832 0.041	2.625 0.111	2.657 0.071	0.000 0.000

TABLE S197. KS distances on use of substantives on sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	1.714 0.069	1.195 0.027	1.869 0.042
p.	1.714 0.069	0.000 0.000	1.026 0.044	2.737 0.116
i.	1.195 0.027	1.026 0.044	0.000 0.000	2.596 0.069
h.	1.869 0.042	2.737 0.116	2.596 0.069	0.000 0.000

TABLE S198. KS distances on use of punctuations on sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	0.657 0.065	2.271 0.141	1.851 0.099
p.	0.657 0.065	0.000 0.000	1.006 0.108	1.610 0.165
i.	2.271 0.141	1.006 0.108	0.000 0.000	3.420 0.235
h.	1.851 0.099	1.610 0.165	3.420 0.235	0.000 0.000

TABLE S199. KS distances on use of number of characters in messages. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	0.696 0.050	1.810 0.075	2.551 0.117
p.	0.696 0.050	0.000 0.000	0.876 0.067	1.822 0.144
i.	1.810 0.075	0.876 0.067	0.000 0.000	3.366 0.174
h.	2.551 0.117	1.822 0.144	3.366 0.174	0.000 0.000

TABLE S200. KS distances on use of verbs in each 100 tokens. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	4.324 0.014	17.155 0.115	7.833 0.044
p.	4.324 0.014	0.000 0.000	18.893 0.129	7.813 0.045
i.	17.155 0.115	18.893 0.129	0.000 0.000	15.529 0.129
h.	7.833 0.044	7.813 0.045	15.529 0.129	0.000 0.000

TABLE S201. KS distances on size of tokens. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	2.920 0.018	7.303 0.095	4.725 0.051
p.	2.920 0.018	0.000 0.000	8.523 0.112	5.893 0.065
i.	7.303 0.095	8.523 0.112	0.000 0.000	6.309 0.100
h.	4.725 0.051	5.893 0.065	6.309 0.100	0.000 0.000

TABLE S202. KS distances on size of known words. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	1.187 0.025	1.457 0.071	1.451 0.044
p.	1.187 0.025	0.000 0.000	1.942 0.096	2.180 0.070
i.	1.457 0.071	1.942 0.096	0.000 0.000	2.058 0.112
h.	1.451 0.044	2.180 0.070	2.058 0.112	0.000 0.000

TABLE S203. KS distances on size of sentences. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	1.308 0.028	1.274 0.062	2.283 0.070
p.	1.308 0.028	0.000 0.000	1.492 0.074	3.055 0.098
i.	1.274 0.062	1.492 0.074	0.000 0.000	0.995 0.054
h.	2.283 0.070	3.055 0.098	0.995 0.054	0.000 0.000

TABLE S204. KS distances on use of adjectives on sentences. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	0.230 0.005	1.815 0.089	0.959 0.029
p.	0.230 0.005	0.000 0.000	1.790 0.089	0.903 0.029
i.	1.815 0.089	1.790 0.089	0.000 0.000	2.354 0.128
h.	0.959 0.029	0.903 0.029	2.354 0.128	0.000 0.000

TABLE S205. KS distances on use of substantives on sentences. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	1.119 0.024	2.108 0.103	1.114 0.034
p.	1.119 0.024	0.000 0.000	2.335 0.116	1.813 0.058
i.	2.108 0.103	2.335 0.116	0.000 0.000	2.108 0.114
h.	1.114 0.034	1.813 0.058	2.108 0.114	0.000 0.000

TABLE S206. KS distances on use of punctuations on sentences. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	1.820 0.103	0.991 0.110	2.666 0.188
p.	1.820 0.103	0.000 0.000	1.732 0.198	3.789 0.289
i.	0.991 0.110	1.732 0.198	0.000 0.000	1.572 0.192
h.	2.666 0.188	3.789 0.289	1.572 0.192	0.000 0.000

TABLE S207. KS distances on use of number of characters in messages. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000 0.000	1.990 0.064	2.660 0.179	5.170 0.293
p.	1.990 0.064	0.000 0.000	2.941 0.201	5.898 0.342
i.	2.660 0.179	2.941 0.201	0.000 0.000	4.816 0.399
h.	5.170 0.293	5.898 0.342	4.816 0.399	0.000 0.000

TABLE S208. KS distances on use of verbs in each 100 tokens. TAG: 6. TAG: 6

	g.	p.	i.	h.
g.	0.000	2.687	1.048	2.607
	0.000	0.024	0.006	0.017
p.	2.687	0.000	2.218	3.791
	0.024	0.000	0.022	0.038
i.	1.048	2.218	0.000	3.128
	0.006	0.022	0.000	0.023
h.	2.607	3.791	3.128	0.000
	0.017	0.038	0.023	0.000

TABLE S209. KS distances on size of tokens. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	3.082	0.899	0.859
	0.000	0.073	0.014	0.014
p.	3.082	0.000	3.399	3.276
	0.073	0.000	0.086	0.085
i.	0.899	3.399	0.000	0.627
	0.014	0.086	0.000	0.012
h.	0.859	3.276	0.627	0.000
	0.014	0.085	0.012	0.000

TABLE S210. KS distances on size of known words. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	0.884	1.375	1.256
	0.000	0.045	0.042	0.043
p.	0.884	0.000	1.625	0.730
	0.045	0.000	0.087	0.041
i.	1.375	1.625	0.000	2.160
	0.042	0.087	0.000	0.083
h.	1.256	0.730	2.160	0.000
	0.043	0.041	0.083	0.000

TABLE S211. KS distances on size of sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	0.938	0.924	0.638
	0.000	0.048	0.028	0.022
p.	0.938	0.000	1.411	0.459
	0.048	0.000	0.076	0.026
i.	0.924	1.411	0.000	1.298
	0.028	0.076	0.000	0.050
h.	0.638	0.459	1.298	0.000
	0.022	0.026	0.050	0.000

TABLE S212. KS distances on use of adjectives on sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	0.803	1.065	1.075
	0.000	0.041	0.032	0.037
p.	0.803	0.000	1.344	1.101
	0.041	0.000	0.072	0.062
i.	1.065	1.344	0.000	1.741
	0.032	0.072	0.000	0.067
h.	1.075	1.101	1.741	0.000
	0.037	0.062	0.067	0.000

TABLE S213. KS distances on use of substantives on sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	1.010	1.073	1.192
	0.000	0.051	0.033	0.041
p.	1.010	0.000	1.507	0.841
	0.051	0.000	0.081	0.047
i.	1.073	1.507	0.000	1.835
	0.033	0.081	0.000	0.071
h.	1.192	0.841	1.835	0.000
	0.041	0.047	0.071	0.000

TABLE S214. KS distances on use of punctuations on sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	1.118	0.399	0.944
	0.000	0.108	0.022	0.055
p.	1.118	0.000	0.926	1.558
	0.108	0.000	0.094	0.161
i.	0.399	0.926	0.000	1.149
	0.022	0.094	0.000	0.078
h.	0.944	1.558	1.149	0.000
	0.055	0.161	0.078	0.000

TABLE S215. KS distances on use of number of characters in messages. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	1.197	0.986	0.559
	0.000	0.108	0.058	0.035
p.	1.197	0.000	1.562	1.103
	0.108	0.000	0.152	0.110
i.	0.986	1.562	0.000	1.154
	0.058	0.152	0.000	0.084
h.	0.559	1.103	1.154	0.000
	0.035	0.110	0.084	0.000

TABLE S216. KS distances on use of verbs in each 100 tokens. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	2.215	6.211	2.697
	0.000	0.014	0.039	0.013
p.	2.215	0.000	6.702	2.559
	0.014	0.000	0.053	0.017
i.	6.211	6.702	0.000	7.331
	0.039	0.053	0.000	0.051
h.	2.697	2.559	7.331	0.000
	0.013	0.017	0.051	0.000

TABLE S217. KS distances on size of tokens. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	2.484	2.292	0.947
	0.000	0.031	0.026	0.008
p.	2.484	0.000	3.732	2.338
	0.031	0.000	0.058	0.031
i.	2.292	3.732	0.000	2.179
	0.026	0.058	0.000	0.027
h.	0.947	2.338	2.179	0.000
	0.008	0.031	0.027	0.000

TABLE S218. KS distances on size of known words. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.825	0.669	1.143
	0.000	0.081	0.024	0.030
p.	1.825	0.000	1.504	2.404
	0.081	0.000	0.079	0.111
i.	0.669	1.504	0.000	1.379
	0.024	0.079	0.000	0.053
h.	1.143	2.404	1.379	0.000
	0.030	0.111	0.053	0.000

TABLE S219. KS distances on size of sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.018	0.783	0.343
	0.000	0.045	0.029	0.009
p.	1.018	0.000	1.402	0.962
	0.045	0.000	0.073	0.044
i.	0.783	1.402	0.000	0.751
	0.029	0.073	0.000	0.029
h.	0.343	0.962	0.751	0.000
	0.009	0.044	0.029	0.000

TABLE S220. KS distances on use of adjectives on sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	2.512	0.628	0.943
	0.000	0.111	0.023	0.025
p.	2.512	0.000	2.327	2.947
	0.111	0.000	0.122	0.136
i.	0.628	2.327	0.000	0.640
	0.023	0.122	0.000	0.025
h.	0.943	2.947	0.640	0.000
	0.025	0.136	0.025	0.000

TABLE S221. KS distances on use of substantives on sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.315	0.365	0.587
	0.000	0.058	0.013	0.016
p.	1.315	0.000	1.359	1.554
	0.058	0.000	0.071	0.072
i.	0.365	1.359	0.000	0.648
	0.013	0.071	0.000	0.025
h.	0.587	1.554	0.648	0.000
	0.016	0.072	0.025	0.000

TABLE S222. KS distances on use of punctuations on sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.413	1.062	0.409
	0.000	0.133	0.069	0.022
p.	1.413	0.000	1.684	1.516
	0.133	0.000	0.176	0.149
i.	1.062	1.684	0.000	1.225
	0.069	0.176	0.000	0.087
h.	0.409	1.516	1.225	0.000
	0.022	0.149	0.087	0.000

TABLE S223. KS distances on use of number of characters in messages. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	6.089	1.771	2.999
	0.000	0.372	0.112	0.142
p.	6.089	0.000	5.966	7.609
	0.372	0.000	0.471	0.508
i.	1.771	5.966	0.000	0.925
	0.112	0.471	0.000	0.064
h.	2.999	7.609	0.925	0.000
	0.142	0.508	0.064	0.000

TABLE S224. KS distances on use of verbs in each 100 tokens. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	4.740	4.217	7.412
	0.000	0.023	0.020	0.041
p.	4.740	0.000	3.419	9.454
	0.023	0.000	0.020	0.061
i.	4.217	3.419	0.000	9.561
	0.020	0.020	0.000	0.061
h.	7.412	9.454	9.561	0.000
	0.041	0.061	0.061	0.000

TABLE S225. KS distances on size of tokens. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	1.224	1.396	2.601
	0.000	0.011	0.012	0.026
p.	1.224	0.000	1.279	3.136
	0.011	0.000	0.014	0.037
i.	1.396	1.279	0.000	2.966
	0.012	0.014	0.000	0.034
h.	2.601	3.136	2.966	0.000
	0.026	0.037	0.034	0.000

TABLE S226. KS distances on size of known words. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	2.054	1.382	4.956
	0.000	0.054	0.037	0.173
p.	2.054	0.000	1.764	5.769
	0.054	0.000	0.056	0.225
i.	1.382	1.764	0.000	5.293
	0.037	0.056	0.000	0.207
h.	4.956	5.769	5.293	0.000
	0.173	0.225	0.207	0.000

TABLE S227. KS distances on size of sentences. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	1.384	0.613	2.553
	0.000	0.036	0.016	0.089
p.	1.384	0.000	1.013	3.229
	0.036	0.000	0.032	0.126
i.	0.613	1.013	0.000	2.464
	0.016	0.032	0.000	0.096
h.	2.553	3.229	2.464	0.000
	0.089	0.126	0.096	0.000

TABLE S228. KS distances on use of adjectives on sentences. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	1.608	1.174	3.212
	0.000	0.042	0.031	0.112
p.	1.608	0.000	1.339	3.739
	0.042	0.000	0.042	0.146
i.	1.174	1.339	0.000	3.624
	0.031	0.042	0.000	0.141
h.	3.212	3.739	3.624	0.000
	0.112	0.146	0.141	0.000

TABLE S229. KS distances on use of substantives on sentences. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	1.453	1.273	3.742
	0.000	0.038	0.034	0.131
p.	1.453	0.000	0.807	4.200
	0.038	0.000	0.025	0.163
i.	1.273	0.807	0.000	4.163
	0.034	0.025	0.000	0.163
h.	3.742	4.200	4.163	0.000
	0.131	0.163	0.163	0.000

TABLE S230. KS distances on use of punctuations on sentences. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	0.486	0.602	0.601
	0.000	0.029	0.038	0.040
p.	0.486	0.000	0.848	0.861
	0.029	0.000	0.064	0.068
i.	0.602	0.848	0.000	0.929
	0.038	0.064	0.000	0.075
h.	0.601	0.861	0.929	0.000
	0.040	0.068	0.075	0.000

TABLE S231. KS distances on use of number of characters in messages. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	1.379	1.120	3.023
	0.000	0.066	0.053	0.168
p.	1.379	0.000	0.678	3.416
	0.066	0.000	0.039	0.220
i.	1.120	0.678	0.000	3.401
	0.053	0.039	0.000	0.217
h.	3.023	3.416	3.401	0.000
	0.168	0.220	0.217	0.000

TABLE S232. KS distances on use of verbs in each 100 tokens. TAG: 9. TAG: 9

	g.	p.	i.	h.
g.	0.000	2.447	1.486	3.541
	0.000	0.018	0.007	0.021
p.	2.447	0.000	1.868	4.253
	0.018	0.000	0.014	0.037
i.	1.486	1.868	0.000	4.205
	0.007	0.014	0.000	0.027
h.	3.541	4.253	4.205	0.000
	0.021	0.037	0.027	0.000

TABLE S233. KS distances on size of tokens. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	1.414	1.319	2.963
	0.000	0.019	0.011	0.033
p.	1.414	0.000	0.812	3.279
	0.019	0.000	0.011	0.051
i.	1.319	0.812	0.000	3.565
	0.011	0.011	0.000	0.042
h.	2.963	3.279	3.565	0.000
	0.033	0.051	0.042	0.000

TABLE S234. KS distances on size of known words. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	0.848	0.602	1.336
	0.000	0.033	0.014	0.041
p.	0.848	0.000	0.612	1.604
	0.033	0.000	0.025	0.072
i.	0.602	0.612	0.000	1.603
	0.014	0.025	0.000	0.053
h.	1.336	1.604	1.603	0.000
	0.041	0.072	0.053	0.000

TABLE S235. KS distances on size of sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	0.781	0.419	0.945
	0.000	0.030	0.010	0.029
p.	0.781	0.000	0.806	1.194
	0.030	0.000	0.033	0.054
i.	0.419	0.806	0.000	1.096
	0.010	0.033	0.000	0.036
h.	0.945	1.194	1.096	0.000
	0.029	0.054	0.036	0.000

TABLE S236. KS distances on use of adjectives on sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	1.603	0.660	1.883
	0.000	0.062	0.016	0.058
p.	1.603	0.000	1.322	2.543
	0.062	0.000	0.054	0.115
i.	0.660	1.322	0.000	2.217
	0.016	0.054	0.000	0.074
h.	1.883	2.543	2.217	0.000
	0.058	0.115	0.074	0.000

TABLE S237. KS distances on use of substantives on sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	1.236	1.338	1.786
	0.000	0.048	0.032	0.055
p.	1.236	0.000	1.518	1.257
	0.048	0.000	0.062	0.057
i.	1.338	1.518	0.000	2.616
	0.032	0.062	0.000	0.087
h.	1.786	1.257	2.616	0.000
	0.055	0.057	0.087	0.000

TABLE S238. KS distances on use of punctuations on sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	0.861	0.749	1.089
	0.000	0.071	0.041	0.068
p.	0.861	0.000	0.989	1.173
	0.071	0.000	0.088	0.110
i.	0.749	0.989	0.000	1.532
	0.041	0.088	0.000	0.108
h.	1.089	1.173	1.532	0.000
	0.068	0.110	0.108	0.000

TABLE S239. KS distances on use of number of characters in messages. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	2.005	0.841	2.150
	0.000	0.146	0.039	0.130
p.	2.005	0.000	1.656	2.720
	0.146	0.000	0.127	0.235
i.	0.841	1.656	0.000	2.452
	0.039	0.127	0.000	0.160
h.	2.150	2.720	2.452	0.000
	0.130	0.235	0.160	0.000

TABLE S240. KS distances on use of verbs in each 100 tokens. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	1.782 0.013	6.669 0.020	8.706 0.029
p.	1.782 0.013	0.000 0.000	2.514 0.019	4.872 0.038
i.	6.669 0.020	2.514 0.019	0.000 0.000	13.187 0.049
h.	8.706 0.029	4.872 0.038	13.187 0.049	0.000 0.000

TABLE S241. KS distances on size of tokens. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	0.858 0.011	2.898 0.015	3.395 0.020
p.	0.858 0.011	0.000 0.000	1.388 0.019	1.544 0.021
i.	2.898 0.015	1.388 0.019	0.000 0.000	5.394 0.035
h.	3.395 0.020	1.544 0.021	5.394 0.035	0.000 0.000

TABLE S242. KS distances on size of known words. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	1.051 0.038	2.494 0.037	2.700 0.044
p.	1.051 0.038	0.000 0.000	1.652 0.061	1.243 0.046
i.	2.494 0.037	1.652 0.061	0.000 0.000	4.444 0.081
h.	2.700 0.044	1.243 0.046	4.444 0.081	0.000 0.000

TABLE S243. KS distances on size of sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	1.290 0.046	1.502 0.022	1.688 0.027
p.	1.290 0.046	0.000 0.000	1.571 0.058	1.347 0.050
i.	1.502 0.022	1.571 0.058	0.000 0.000	2.731 0.050
h.	1.688 0.027	1.347 0.050	2.731 0.050	0.000 0.000

TABLE S244. KS distances on use of adjectives on sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	0.617 0.022	5.573 0.083	6.440 0.104
p.	0.617 0.022	0.000 0.000	2.662 0.098	2.503 0.093
i.	5.573 0.083	2.662 0.098	0.000 0.000	10.291 0.187
h.	6.440 0.104	2.503 0.093	10.291 0.187	0.000 0.000

TABLE S245. KS distances on use of substantives on sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	1.145 0.041	4.033 0.060	5.039 0.081
p.	1.145 0.041	0.000 0.000	1.024 0.038	3.026 0.113
i.	4.033 0.060	1.024 0.038	0.000 0.000	7.784 0.141
h.	5.039 0.081	3.026 0.113	7.784 0.141	0.000 0.000

TABLE S246. KS distances on use of punctuations on sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	1.643 0.173	3.023 0.190	1.680 0.088
p.	1.643 0.173	0.000 0.000	3.098 0.354	0.874 0.095
i.	3.023 0.190	3.098 0.354	0.000 0.000	4.051 0.279
h.	1.680 0.088	0.874 0.095	4.051 0.279	0.000 0.000

TABLE S247. KS distances on use of number of characters in messages. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000 0.000	0.825 0.061	4.431 0.130	5.459 0.183
p.	0.825 0.061	0.000 0.000	1.673 0.126	2.774 0.214
i.	4.431 0.130	1.673 0.126	0.000 0.000	8.143 0.301
h.	5.459 0.183	2.774 0.214	8.143 0.301	0.000 0.000

TABLE S248. KS distances on use of verbs in each 100 tokens. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	3.414	1.942	5.025
	0.000	0.017	0.007	0.023
p.	3.414	0.000	2.280	6.588
	0.017	0.000	0.012	0.040
i.	1.942	2.280	0.000	5.539
	0.007	0.012	0.000	0.028
h.	5.025	6.588	5.539	0.000
	0.023	0.040	0.028	0.000

TABLE S249. KS distances on size of tokens. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	1.270	1.996	3.361
	0.000	0.012	0.013	0.028
p.	1.270	0.000	1.476	2.809
	0.012	0.000	0.014	0.031
i.	1.996	1.476	0.000	4.511
	0.013	0.014	0.000	0.041
h.	3.361	2.809	4.511	0.000
	0.028	0.031	0.041	0.000

TABLE S250. KS distances on size of known words. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	0.460	0.752	1.175
	0.000	0.014	0.016	0.029
p.	0.460	0.000	0.718	1.633
	0.014	0.000	0.023	0.057
i.	0.752	0.718	0.000	1.625
	0.016	0.023	0.000	0.045
h.	1.175	1.633	1.625	0.000
	0.029	0.057	0.045	0.000

TABLE S251. KS distances on size of sentences. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	0.532	0.792	0.788
	0.000	0.016	0.016	0.020
p.	0.532	0.000	0.947	0.447
	0.016	0.000	0.030	0.016
i.	0.792	0.947	0.000	1.305
	0.016	0.030	0.000	0.036
h.	0.788	0.447	1.305	0.000
	0.020	0.016	0.036	0.000

TABLE S252. KS distances on use of adjectives on sentences. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	0.824	1.186	2.219
	0.000	0.025	0.025	0.055
p.	0.824	0.000	0.545	2.223
	0.025	0.000	0.017	0.078
i.	1.186	0.545	0.000	2.893
	0.025	0.017	0.000	0.080
h.	2.219	2.223	2.893	0.000
	0.055	0.078	0.080	0.000

TABLE S253. KS distances on use of substantives on sentences. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	1.016	0.635	1.131
	0.000	0.030	0.013	0.028
p.	1.016	0.000	0.783	1.487
	0.030	0.000	0.025	0.052
i.	0.635	0.783	0.000	1.317
	0.013	0.025	0.000	0.036
h.	1.131	1.487	1.317	0.000
	0.028	0.052	0.036	0.000

TABLE S254. KS distances on use of punctuations on sentences. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	1.617	0.483	1.161
	0.000	0.115	0.027	0.080
p.	1.617	0.000	1.682	2.247
	0.115	0.000	0.132	0.198
i.	0.483	1.682	0.000	0.980
	0.027	0.132	0.000	0.075
h.	1.161	2.247	0.980	0.000
	0.080	0.198	0.075	0.000

TABLE S255. KS distances on use of number of characters in messages. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000	1.049	0.940	2.251
	0.000	0.052	0.034	0.103
p.	1.049	0.000	1.097	2.559
	0.052	0.000	0.059	0.154
i.	0.940	1.097	0.000	2.644
	0.034	0.059	0.000	0.132
h.	2.251	2.559	2.644	0.000
	0.103	0.154	0.132	0.000

TABLE S256. KS distances on use of verbs in each 100 tokens. TAG: 12. TAG: 12

	g.	p.	i.	h.
g.	0.000 0.000	10.972 0.038	2.560 0.026	16.789 0.070
p.	10.972 0.038	0.000 0.000	3.592 0.037	23.925 0.108
i.	2.560 0.026	3.592 0.037	0.000 0.000	9.136 0.096
h.	16.789 0.070	23.925 0.108	9.136 0.096	0.000 0.000

TABLE S257. KS distances on size of tokens. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	13.501 0.114	1.686 0.033	11.255 0.087
p.	13.501 0.114	0.000 0.000	5.828 0.119	21.241 0.201
i.	1.686 0.033	5.828 0.119	0.000 0.000	4.069 0.082
h.	11.255 0.087	21.241 0.201	4.069 0.082	0.000 0.000

TABLE S258. KS distances on size of known words. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	6.686 0.161	2.195 0.129	5.470 0.121
p.	6.686 0.161	0.000 0.000	4.681 0.284	10.446 0.282
i.	2.195 0.129	4.681 0.284	0.000 0.000	1.250 0.075
h.	5.470 0.121	10.446 0.282	1.250 0.075	0.000 0.000

TABLE S259. KS distances on size of sentences. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	5.154 0.124	0.593 0.035	4.227 0.094
p.	5.154 0.124	0.000 0.000	2.615 0.159	8.061 0.218
i.	0.593 0.035	2.615 0.159	0.000 0.000	0.981 0.059
h.	4.227 0.094	8.061 0.218	0.981 0.059	0.000 0.000

TABLE S260. KS distances on use of adjectives on sentences. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	7.552 0.182	1.476 0.087	6.083 0.135
p.	7.552 0.182	0.000 0.000	4.419 0.268	11.721 0.316
i.	1.476 0.087	4.419 0.268	0.000 0.000	1.738 0.104
h.	6.083 0.135	11.721 0.316	1.738 0.104	0.000 0.000

TABLE S261. KS distances on use of substantives on sentences. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	1.746 0.042	2.142 0.126	1.760 0.039
p.	1.746 0.042	0.000 0.000	2.108 0.128	3.000 0.081
i.	2.142 0.126	2.108 0.128	0.000 0.000	2.277 0.137
h.	1.760 0.039	3.000 0.081	2.277 0.137	0.000 0.000

TABLE S262. KS distances on use of punctuations on sentences. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	4.037 0.240	1.367 0.172	3.226 0.179
p.	4.037 0.240	0.000 0.000	3.147 0.413	6.226 0.419
i.	1.367 0.172	3.147 0.413	0.000 0.000	0.598 0.077
h.	3.226 0.179	6.226 0.419	0.598 0.077	0.000 0.000

TABLE S263. KS distances on use of number of characters in messages. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000 0.000	8.160 0.281	2.157 0.217	11.417 0.478
p.	8.160 0.281	0.000 0.000	4.531 0.463	16.789 0.758
i.	2.157 0.217	4.531 0.463	0.000 0.000	3.526 0.370
h.	11.417 0.478	16.789 0.758	3.526 0.370	0.000 0.000

TABLE S264. KS distances on use of verbs in each 100 tokens. TAG: 13. TAG: 13

	g.	p.	i.	h.
g.	0.000	1.425	1.588	2.054
	0.000	0.007	0.006	0.015
p.	1.425	0.000	2.466	2.283
	0.007	0.000	0.013	0.018
i.	1.588	2.466	0.000	2.779
	0.006	0.013	0.000	0.021
h.	2.054	2.283	2.779	0.000
	0.015	0.018	0.021	0.000

TABLE S265. KS distances on size of tokens. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.751	0.841	1.458
	0.000	0.016	0.006	0.019
p.	1.751	0.000	2.186	1.707
	0.016	0.000	0.021	0.025
i.	0.841	2.186	0.000	1.610
	0.006	0.021	0.000	0.021
h.	1.458	1.707	1.610	0.000
	0.019	0.025	0.021	0.000

TABLE S266. KS distances on size of known words. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	0.958	0.547	1.265
	0.000	0.025	0.011	0.046
p.	0.958	0.000	1.179	1.557
	0.025	0.000	0.033	0.065
i.	0.547	1.179	0.000	1.253
	0.011	0.033	0.000	0.048
h.	1.265	1.557	1.253	0.000
	0.046	0.065	0.048	0.000

TABLE S267. KS distances on size of sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.554	0.515	1.000
	0.000	0.041	0.010	0.037
p.	1.554	0.000	1.820	1.857
	0.041	0.000	0.051	0.078
i.	0.515	1.820	0.000	0.803
	0.010	0.051	0.000	0.030
h.	1.000	1.857	0.803	0.000
	0.037	0.078	0.030	0.000

TABLE S268. KS distances on use of adjectives on sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.691	0.923	1.261
	0.000	0.045	0.018	0.046
p.	1.691	0.000	1.970	2.142
	0.045	0.000	0.056	0.090
i.	0.923	1.970	0.000	1.188
	0.018	0.056	0.000	0.045
h.	1.261	2.142	1.188	0.000
	0.046	0.090	0.045	0.000

TABLE S269. KS distances on use of substantives on sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	0.375	0.609	1.418
	0.000	0.010	0.012	0.052
p.	0.375	0.000	0.559	1.330
	0.010	0.000	0.016	0.056
i.	0.609	0.559	0.000	1.686
	0.012	0.016	0.000	0.064
h.	1.418	1.330	1.686	0.000
	0.052	0.056	0.064	0.000

TABLE S270. KS distances on use of punctuations on sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	2.318	0.436	2.234
	0.000	0.183	0.022	0.187
p.	2.318	0.000	2.306	3.479
	0.183	0.000	0.191	0.370
i.	0.436	2.306	0.000	2.191
	0.022	0.191	0.000	0.191
h.	2.234	3.479	2.191	0.000
	0.187	0.370	0.191	0.000

TABLE S271. KS distances on use of number of characters in messages. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	2.523	1.136	2.328
	0.000	0.121	0.042	0.166
p.	2.523	0.000	3.041	3.542
	0.121	0.000	0.156	0.284
i.	1.136	3.041	0.000	2.018
	0.042	0.156	0.000	0.149
h.	2.328	3.542	2.018	0.000
	0.166	0.284	0.149	0.000

TABLE S272. KS distances on use of verbs in each 100 tokens. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000 0.000	7.738 0.032	7.370 0.030	6.231 0.027
p.	7.738 0.032	0.000 0.000	9.350 0.047	11.343 0.059
i.	7.370 0.030	9.350 0.047	0.000 0.000	9.261 0.047
h.	6.231 0.027	11.343 0.059	9.261 0.047	0.000 0.000

TABLE S273. KS distances on size of tokens. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	8.855 0.070	8.456 0.064	8.314 0.066
p.	8.855 0.070	0.000 0.000	12.207 0.116	13.633 0.133
i.	8.456 0.064	12.207 0.116	0.000 0.000	9.661 0.092
h.	8.314 0.066	13.633 0.133	9.661 0.092	0.000 0.000

TABLE S274. KS distances on size of known words. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	0.957 0.028	0.881 0.022	1.259 0.029
p.	0.957 0.028	0.000 0.000	0.605 0.021	1.738 0.057
i.	0.881 0.022	0.605 0.021	0.000 0.000	1.983 0.057
h.	1.259 0.029	1.738 0.057	1.983 0.057	0.000 0.000

TABLE S275. KS distances on size of sentences. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	0.671 0.020	0.726 0.018	0.851 0.020
p.	0.671 0.020	0.000 0.000	1.106 0.038	1.114 0.037
i.	0.726 0.018	1.106 0.038	0.000 0.000	1.126 0.032
h.	0.851 0.020	1.114 0.037	1.126 0.032	0.000 0.000

TABLE S276. KS distances on use of adjectives on sentences. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	1.225 0.036	0.594 0.015	1.357 0.031
p.	1.225 0.036	0.000 0.000	0.789 0.027	2.047 0.067
i.	0.594 0.015	0.789 0.027	0.000 0.000	1.723 0.049
h.	1.357 0.031	2.047 0.067	1.723 0.049	0.000 0.000

TABLE S277. KS distances on use of substantives on sentences. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	2.069 0.061	1.223 0.030	1.287 0.030
p.	2.069 0.061	0.000 0.000	2.011 0.068	2.632 0.087
i.	1.223 0.030	2.011 0.068	0.000 0.000	2.072 0.059
h.	1.287 0.030	2.632 0.087	2.072 0.059	0.000 0.000

TABLE S278. KS distances on use of punctuations on sentences. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	2.389 0.215	1.361 0.082	2.327 0.133
p.	2.389 0.215	0.000 0.000	2.256 0.222	3.609 0.348
i.	1.361 0.082	2.256 0.222	0.000 0.000	3.079 0.215
h.	2.327 0.133	3.609 0.348	3.079 0.215	0.000 0.000

TABLE S279. KS distances on use of number of characters in messages. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000 0.000	5.167 0.217	1.649 0.067	3.907 0.166
p.	5.167 0.217	0.000 0.000	5.542 0.279	7.334 0.381
i.	1.649 0.067	5.542 0.279	0.000 0.000	2.100 0.107
h.	3.907 0.166	7.334 0.381	2.100 0.107	0.000 0.000

TABLE S280. KS distances on use of verbs in each 100 tokens. TAG: 16. TAG: 16

	g.	p.	i.	h.
g.	0.000	2.061	0.940	0.802
	0.000	0.017	0.005	0.004
p.	2.061	0.000	2.378	2.030
	0.017	0.000	0.021	0.017
i.	0.940	2.378	0.000	1.310
	0.005	0.021	0.000	0.007
h.	0.802	2.030	1.310	0.000
	0.004	0.017	0.007	0.000

TABLE S281. KS distances on size of tokens. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	2.831	0.939	1.297
	0.000	0.046	0.009	0.011
p.	2.831	0.000	2.521	3.376
	0.046	0.000	0.044	0.057
i.	0.939	2.521	0.000	1.567
	0.009	0.044	0.000	0.017
h.	1.297	3.376	1.567	0.000
	0.011	0.057	0.017	0.000

TABLE S282. KS distances on size of known words. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	1.021	0.875	0.524
	0.000	0.051	0.029	0.015
p.	1.021	0.000	1.502	1.041
	0.051	0.000	0.083	0.055
i.	0.875	1.502	0.000	1.161
	0.029	0.083	0.000	0.044
h.	0.524	1.041	1.161	0.000
	0.015	0.055	0.044	0.000

TABLE S283. KS distances on size of sentences. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	1.166	0.522	0.652
	0.000	0.058	0.017	0.019
p.	1.166	0.000	0.939	1.470
	0.058	0.000	0.052	0.078
i.	0.522	0.939	0.000	0.690
	0.017	0.052	0.000	0.026
h.	0.652	1.470	0.690	0.000
	0.019	0.078	0.026	0.000

TABLE S284. KS distances on use of adjectives on sentences. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	0.516	1.043	0.761
	0.000	0.026	0.035	0.022
p.	0.516	0.000	1.145	0.360
	0.026	0.000	0.063	0.019
i.	1.043	1.145	0.000	1.532
	0.035	0.063	0.000	0.057
h.	0.761	0.360	1.532	0.000
	0.022	0.019	0.057	0.000

TABLE S285. KS distances on use of substantives on sentences. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	0.491	1.097	0.723
	0.000	0.025	0.037	0.021
p.	0.491	0.000	1.030	0.472
	0.025	0.000	0.057	0.025
i.	1.097	1.030	0.000	1.550
	0.037	0.057	0.000	0.058
h.	0.723	0.472	1.550	0.000
	0.021	0.025	0.058	0.000

TABLE S286. KS distances on use of punctuations on sentences. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	1.068	0.847	0.833
	0.000	0.108	0.055	0.044
p.	1.068	0.000	0.724	1.274
	0.108	0.000	0.080	0.133
i.	0.847	0.724	0.000	1.398
	0.055	0.080	0.000	0.098
h.	0.833	1.274	1.398	0.000
	0.044	0.133	0.098	0.000

TABLE S287. KS distances on use of number of characters in messages. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000	0.683	0.927	0.935
	0.000	0.056	0.045	0.042
p.	0.683	0.000	0.883	1.114
	0.056	0.000	0.077	0.095
i.	0.927	0.883	0.000	1.232
	0.045	0.077	0.000	0.068
h.	0.935	1.114	1.232	0.000
	0.042	0.095	0.068	0.000

TABLE S288. KS distances on use of verbs in each 100 tokens. TAG: 17. TAG: 17

	g.	p.	i.	h.
g.	0.000 0.000	13.217 0.089	2.203 0.011	5.525 0.020
p.	13.217 0.089	0.000 0.000	11.477 0.089	15.279 0.106
i.	2.203 0.011	11.477 0.089	0.000 0.000	5.796 0.031
h.	5.525 0.020	15.279 0.106	5.796 0.031	0.000 0.000

TABLE S289. KS distances on size of tokens. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	10.134 0.126	1.420 0.013	4.127 0.026
p.	10.134 0.126	0.000 0.000	7.974 0.115	11.921 0.153
i.	1.420 0.013	7.974 0.115	0.000 0.000	3.898 0.038
h.	4.127 0.026	11.921 0.153	3.898 0.038	0.000 0.000

TABLE S290. KS distances on size of known words. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	1.749 0.085	0.895 0.025	0.809 0.015
p.	1.749 0.085	0.000 0.000	1.265 0.067	2.031 0.100
i.	0.895 0.025	1.265 0.067	0.000 0.000	1.464 0.042
h.	0.809 0.015	2.031 0.100	1.464 0.042	0.000 0.000

TABLE S291. KS distances on size of sentences. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	1.764 0.085	1.034 0.028	0.591 0.011
p.	1.764 0.085	0.000 0.000	1.571 0.083	1.967 0.096
i.	1.034 0.028	1.571 0.083	0.000 0.000	1.266 0.036
h.	0.591 0.011	1.967 0.096	1.266 0.036	0.000 0.000

TABLE S292. KS distances on use of adjectives on sentences. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	2.294 0.111	0.990 0.027	1.057 0.020
p.	2.294 0.111	0.000 0.000	1.671 0.089	2.668 0.131
i.	0.990 0.027	1.671 0.089	0.000 0.000	1.828 0.052
h.	1.057 0.020	2.668 0.131	1.828 0.052	0.000 0.000

TABLE S293. KS distances on use of substantives on sentences. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	0.922 0.045	1.727 0.047	0.850 0.016
p.	0.922 0.045	0.000 0.000	0.923 0.049	1.164 0.057
i.	1.727 0.047	0.923 0.049	0.000 0.000	2.218 0.063
h.	0.850 0.016	1.164 0.057	2.218 0.063	0.000 0.000

TABLE S294. KS distances on use of punctuations on sentences. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	0.887 0.097	1.207 0.084	0.540 0.027
p.	0.887 0.097	0.000 0.000	1.136 0.138	0.886 0.099
i.	1.207 0.084	1.136 0.138	0.000 0.000	1.516 0.111
h.	0.540 0.027	0.886 0.099	1.516 0.111	0.000 0.000

TABLE S295. KS distances on use of number of characters in messages. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	5.860 0.392	1.295 0.065	2.721 0.097
p.	5.860 0.392	0.000 0.000	4.411 0.343	7.055 0.487
i.	1.295 0.065	4.411 0.343	0.000 0.000	2.966 0.158
h.	2.721 0.097	7.055 0.487	2.966 0.158	0.000 0.000

TABLE S296. KS distances on use of verbs in each 100 tokens. TAG: 18. TAG: 18

	g.	p.	i.	h.
g.	0.000 0.000	11.846 0.088	2.020 0.014	6.837 0.033
p.	11.846 0.088	0.000 0.000	7.956 0.074	15.485 0.121
i.	2.020 0.014	7.956 0.074	0.000 0.000	6.389 0.047
h.	6.837 0.033	15.485 0.121	6.389 0.047	0.000 0.000

TABLE S297. KS distances on size of tokens. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	6.578 0.095	1.331 0.017	2.958 0.025
p.	6.578 0.095	0.000 0.000	5.119 0.090	8.019 0.120
i.	1.331 0.017	5.119 0.090	0.000 0.000	2.769 0.037
h.	2.958 0.025	8.019 0.120	2.769 0.037	0.000 0.000

TABLE S298. KS distances on size of known words. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	2.683 0.130	1.936 0.072	1.702 0.040
p.	2.683 0.130	0.000 0.000	1.332 0.076	3.441 0.170
i.	1.936 0.072	1.332 0.076	0.000 0.000	3.158 0.121
h.	1.702 0.040	3.441 0.170	3.158 0.121	0.000 0.000

TABLE S299. KS distances on size of sentences. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	1.356 0.066	0.895 0.033	0.850 0.020
p.	1.356 0.066	0.000 0.000	0.788 0.045	1.734 0.086
i.	0.895 0.033	0.788 0.045	0.000 0.000	1.388 0.053
h.	0.850 0.020	1.734 0.086	1.388 0.053	0.000 0.000

TABLE S300. KS distances on use of adjectives on sentences. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	3.587 0.173	2.902 0.107	2.422 0.057
p.	3.587 0.173	0.000 0.000	1.523 0.087	4.626 0.229
i.	2.902 0.107	1.523 0.087	0.000 0.000	4.515 0.173
h.	2.422 0.057	4.626 0.229	4.515 0.173	0.000 0.000

TABLE S301. KS distances on use of substantives on sentences. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	2.740 0.132	2.756 0.102	1.960 0.046
p.	2.740 0.132	0.000 0.000	1.421 0.081	3.563 0.176
i.	2.756 0.102	1.421 0.081	0.000 0.000	3.851 0.148
h.	1.960 0.046	3.563 0.176	3.851 0.148	0.000 0.000

TABLE S302. KS distances on use of punctuations on sentences. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	1.160 0.112	1.093 0.072	0.566 0.030
p.	1.160 0.112	0.000 0.000	1.511 0.164	1.159 0.117
i.	1.093 0.072	1.511 0.164	0.000 0.000	1.308 0.093
h.	0.566 0.030	1.159 0.117	1.308 0.093	0.000 0.000

TABLE S303. KS distances on use of number of characters in messages. TAG: 19. TAG: 19

	g.	p.	i.	h.
g.	0.000 0.000	5.244 0.387	1.682 0.117	3.464 0.167
p.	5.244 0.387	0.000 0.000	4.193 0.387	6.885 0.535
i.	1.682 0.117	4.193 0.387	0.000 0.000	3.757 0.276
h.	3.464 0.167	6.885 0.535	3.757 0.276	0.000 0.000

TABLE S304. KS distances on use of verbs in each 100 tokens. TAG: 19. TAG: 19

2. Snapshots of 2000 messages

	g.	p.	i.	h.
g.	0.000 0.000	2.942 0.020	3.330 0.012	4.148 0.015
p.	2.942 0.020	0.000 0.000	1.606 0.011	4.619 0.032
i.	3.330 0.012	1.606 0.011	0.000 0.000	6.355 0.027
h.	4.148 0.015	4.619 0.032	6.355 0.027	0.000 0.000

TABLE S305. KS distances on size of tokens. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	2.435 0.029	0.975 0.006	0.725 0.005
p.	2.435 0.029	0.000 0.000	2.786 0.035	2.620 0.033
i.	0.975 0.006	2.786 0.035	0.000 0.000	1.127 0.008
h.	0.725 0.005	2.620 0.033	1.127 0.008	0.000 0.000

TABLE S306. KS distances on size of known words. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	1.251 0.044	1.422 0.028	1.902 0.037
p.	1.251 0.044	0.000 0.000	0.435 0.016	2.384 0.089
i.	1.422 0.028	0.435 0.016	0.000 0.000	2.827 0.065
h.	1.902 0.037	2.384 0.089	2.827 0.065	0.000 0.000

TABLE S307. KS distances on size of sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	0.366 0.013	0.579 0.011	0.665 0.013
p.	0.366 0.013	0.000 0.000	0.325 0.012	0.624 0.023
i.	0.579 0.011	0.325 0.012	0.000 0.000	1.057 0.024
h.	0.665 0.013	0.624 0.023	1.057 0.024	0.000 0.000

TABLE S308. KS distances on use of adjectives on sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	0.397 0.014	1.276 0.025	1.349 0.026
p.	0.397 0.014	0.000 0.000	0.922 0.034	1.390 0.052
i.	1.276 0.025	0.922 0.034	0.000 0.000	2.174 0.050
h.	1.349 0.026	1.390 0.052	2.174 0.050	0.000 0.000

TABLE S309. KS distances on use of substantives on sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	0.142 0.005	0.308 0.006	0.366 0.007
p.	0.142 0.005	0.000 0.000	0.180 0.007	1.678 0.062
i.	0.308 0.006	0.180 0.007	0.000 0.000	0.572 0.013
h.	0.366 0.007	1.678 0.062	0.572 0.013	0.000 0.000

TABLE S310. KS distances on use of punctuations on sentences. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	0.611 0.047	0.555 0.023	0.596 0.023
p.	0.611 0.047	0.000 0.000	0.614 0.050	0.732 0.058
i.	0.555 0.023	0.614 0.050	0.000 0.000	0.978 0.046
h.	0.596 0.023	0.732 0.058	0.978 0.046	0.000 0.000

TABLE S311. KS distances on use of number of characters in messages. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000 0.000	0.830 0.055	1.006 0.037	1.095 0.039
p.	0.830 0.055	0.000 0.000	0.925 0.065	1.318 0.092
i.	1.006 0.037	0.925 0.065	0.000 0.000	1.564 0.066
h.	1.095 0.039	1.318 0.092	1.564 0.066	0.000 0.000

TABLE S312. KS distances on use of verbs in each 100 tokens. TAG: 0. TAG: 0

	g.	p.	i.	h.
g.	0.000	0.870	0.901	1.469
	0.000	0.005	0.003	0.006
p.	0.870	0.000	0.732	1.557
	0.005	0.000	0.005	0.010
i.	0.901	0.732	0.000	2.024
	0.003	0.005	0.000	0.009
h.	1.469	1.557	2.024	0.000
	0.006	0.010	0.009	0.000

TABLE S313. KS distances on size of tokens. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	1.869	0.946	1.733
	0.000	0.025	0.008	0.016
p.	1.869	0.000	1.665	2.469
	0.025	0.000	0.024	0.036
i.	0.946	1.665	0.000	2.267
	0.008	0.024	0.000	0.023
h.	1.733	2.469	2.267	0.000
	0.016	0.036	0.023	0.000

TABLE S314. KS distances on size of known words. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.547	0.321	0.573
	0.000	0.016	0.006	0.011
p.	0.547	0.000	0.525	0.610
	0.016	0.000	0.016	0.019
i.	0.321	0.525	0.000	0.764
	0.006	0.016	0.000	0.016
h.	0.573	0.610	0.764	0.000
	0.011	0.019	0.016	0.000

TABLE S315. KS distances on size of sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.304	0.304	0.197
	0.000	0.009	0.005	0.004
p.	0.304	0.000	0.460	0.164
	0.009	0.000	0.014	0.005
i.	0.304	0.460	0.000	0.418
	0.005	0.014	0.000	0.009
h.	0.197	0.164	0.418	0.000
	0.004	0.005	0.009	0.000

TABLE S316. KS distances on use of adjectives on sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.572	0.548	0.820
	0.000	0.016	0.009	0.015
p.	0.572	0.000	0.635	1.019
	0.016	0.000	0.019	0.032
i.	0.548	0.635	0.000	1.099
	0.009	0.019	0.000	0.024
h.	0.820	1.019	1.099	0.000
	0.015	0.032	0.024	0.000

TABLE S317. KS distances on use of substantives on sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.787	0.209	0.428
	0.000	0.022	0.004	0.008
p.	0.787	0.000	0.763	0.937
	0.022	0.000	0.023	0.029
i.	0.209	0.763	0.000	0.464
	0.004	0.023	0.000	0.010
h.	0.428	0.937	0.464	0.000
	0.008	0.029	0.010	0.000

TABLE S318. KS distances on use of punctuations on sentences. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.576	0.683	0.727
	0.000	0.037	0.027	0.031
p.	0.576	0.000	0.694	0.673
	0.037	0.000	0.047	0.047
i.	0.683	0.694	0.000	1.143
	0.027	0.047	0.000	0.056
h.	0.727	0.673	1.143	0.000
	0.031	0.047	0.056	0.000

TABLE S319. KS distances on use of number of characters in messages. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	0.858	0.439	0.472
	0.000	0.052	0.016	0.019
p.	0.858	0.000	0.890	0.579
	0.052	0.000	0.056	0.038
i.	0.439	0.890	0.000	0.661
	0.016	0.056	0.000	0.029
h.	0.472	0.579	0.661	0.000
	0.019	0.038	0.029	0.000

TABLE S320. KS distances on use of verbs in each 100 tokens. TAG: 2. TAG: 2

	g.	p.	i.	h.
g.	0.000	2.325	5.097	4.944
	0.000	0.011	0.018	0.016
p.	2.325	0.000	2.483	5.192
	0.011	0.000	0.013	0.027
i.	5.097	2.483	0.000	8.422
	0.018	0.013	0.000	0.034
h.	4.944	5.192	8.422	0.000
	0.016	0.027	0.034	0.000

TABLE S321. KS distances on size of tokens. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	0.929	1.778	1.877
	0.000	0.009	0.012	0.011
p.	0.929	0.000	1.020	1.863
	0.009	0.000	0.010	0.018
i.	1.778	1.020	0.000	3.065
	0.012	0.010	0.000	0.023
h.	1.877	1.863	3.065	0.000
	0.011	0.018	0.023	0.000

TABLE S322. KS distances on size of known words. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	1.307	1.975	2.038
	0.000	0.032	0.035	0.032
p.	1.307	0.000	0.520	2.363
	0.032	0.000	0.014	0.062
i.	1.975	0.520	0.000	3.356
	0.035	0.014	0.000	0.067
h.	2.038	2.363	3.356	0.000
	0.032	0.062	0.067	0.000

TABLE S323. KS distances on size of sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	0.388	0.566	0.623
	0.000	0.010	0.010	0.010
p.	0.388	0.000	0.329	0.737
	0.010	0.000	0.009	0.019
i.	0.566	0.329	0.000	0.992
	0.010	0.009	0.000	0.020
h.	0.623	0.737	0.992	0.000
	0.010	0.019	0.020	0.000

TABLE S324. KS distances on use of adjectives on sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	1.277	1.114	1.508
	0.000	0.031	0.020	0.024
p.	1.277	0.000	0.710	2.100
	0.031	0.000	0.020	0.055
i.	1.114	0.710	0.000	2.173
	0.020	0.020	0.000	0.044
h.	1.508	2.100	2.173	0.000
	0.024	0.055	0.044	0.000

TABLE S325. KS distances on use of substantives on sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	1.461	0.971	1.270
	0.000	0.036	0.017	0.020
p.	1.461	0.000	0.534	2.130
	0.036	0.000	0.015	0.056
i.	0.971	0.534	0.000	1.710
	0.017	0.015	0.000	0.034
h.	1.270	2.130	1.710	0.000
	0.020	0.056	0.034	0.000

TABLE S326. KS distances on use of punctuations on sentences. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	2.285	2.184	2.423
	0.000	0.147	0.099	0.091
p.	2.285	0.000	0.824	3.461
	0.147	0.000	0.060	0.234
i.	2.184	0.824	0.000	3.811
	0.099	0.060	0.000	0.190
h.	2.423	3.461	3.811	0.000
	0.091	0.234	0.190	0.000

TABLE S327. KS distances on use of number of characters in messages. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000	0.612	1.327	1.436
	0.000	0.030	0.046	0.046
p.	0.612	0.000	0.766	1.275
	0.030	0.000	0.042	0.067
i.	1.327	0.766	0.000	2.310
	0.046	0.042	0.000	0.092
h.	1.436	1.275	2.310	0.000
	0.046	0.067	0.092	0.000

TABLE S328. KS distances on use of verbs in each 100 tokens. TAG: 3. TAG: 3

	g.	p.	i.	h.
g.	0.000 0.000	7.034 0.051	2.242 0.011	2.124 0.011
p.	7.034 0.051	0.000 0.000	7.615 0.061	7.764 0.062
i.	2.242 0.011	7.615 0.061	0.000 0.000	1.455 0.009
h.	2.124 0.011	7.764 0.062	1.455 0.009	0.000 0.000

TABLE S329. KS distances on size of tokens. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	14.422 0.219	3.287 0.041	7.308 0.091
p.	14.422 0.219	0.000 0.000	15.012 0.259	17.905 0.310
i.	3.287 0.041	15.012 0.259	0.000 0.000	4.743 0.071
h.	7.308 0.091	17.905 0.310	4.743 0.071	0.000 0.000

TABLE S330. KS distances on size of known words. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	1.693 0.058	0.400 0.010	1.283 0.033
p.	1.693 0.058	0.000 0.000	1.554 0.059	2.254 0.087
i.	0.400 0.010	1.554 0.059	0.000 0.000	1.425 0.043
h.	1.283 0.033	2.254 0.087	1.425 0.043	0.000 0.000

TABLE S331. KS distances on size of sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	3.750 0.129	1.501 0.037	0.823 0.021
p.	3.750 0.129	0.000 0.000	4.400 0.167	3.903 0.151
i.	1.501 0.037	4.400 0.167	0.000 0.000	0.528 0.016
h.	0.823 0.021	3.903 0.151	0.528 0.016	0.000 0.000

TABLE S332. KS distances on use of adjectives on sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	6.543 0.225	1.411 0.035	2.931 0.076
p.	6.543 0.225	0.000 0.000	6.978 0.264	7.671 0.296
i.	1.411 0.035	6.978 0.264	0.000 0.000	1.957 0.059
h.	2.931 0.076	7.671 0.296	1.957 0.059	0.000 0.000

TABLE S333. KS distances on use of substantives on sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	3.385 0.117	0.581 0.014	1.619 0.042
p.	3.385 0.117	0.000 0.000	3.462 0.131	4.053 0.156
i.	0.581 0.014	3.462 0.131	0.000 0.000	1.322 0.040
h.	1.619 0.042	4.053 0.156	1.322 0.040	0.000 0.000

TABLE S334. KS distances on use of punctuations on sentences. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	0.583 0.050	0.967 0.048	1.279 0.067
p.	0.583 0.050	0.000 0.000	0.383 0.035	1.109 0.103
i.	0.967 0.048	0.383 0.035	0.000 0.000	2.040 0.122
h.	1.279 0.067	1.109 0.103	2.040 0.122	0.000 0.000

TABLE S335. KS distances on use of number of characters in messages. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000 0.000	4.272 0.312	1.037 0.052	1.763 0.089
p.	4.272 0.312	0.000 0.000	4.547 0.362	4.993 0.399
i.	1.037 0.052	4.547 0.362	0.000 0.000	0.845 0.050
h.	1.763 0.089	4.993 0.399	0.845 0.050	0.000 0.000

TABLE S336. KS distances on use of verbs in each 100 tokens. TAG: 7. TAG: 7

	g.	p.	i.	h.
g.	0.000	1.634	1.362	1.317
	0.000	0.013	0.010	0.007
p.	1.634	0.000	1.299	2.130
	0.013	0.000	0.013	0.018
i.	1.362	1.299	0.000	1.917
	0.010	0.013	0.000	0.015
h.	1.317	2.130	1.917	0.000
	0.007	0.018	0.015	0.000

TABLE S337. KS distances on size of tokens. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.893	0.546	0.807
	0.000	0.028	0.007	0.008
p.	1.893	0.000	1.849	2.248
	0.028	0.000	0.033	0.035
i.	0.546	1.849	0.000	0.781
	0.007	0.033	0.000	0.011
h.	0.807	2.248	0.781	0.000
	0.008	0.035	0.011	0.000

TABLE S338. KS distances on size of known words. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	0.547	1.221	0.819
	0.000	0.024	0.049	0.024
p.	0.547	0.000	1.296	0.892
	0.024	0.000	0.070	0.041
i.	1.221	1.296	0.000	1.696
	0.049	0.070	0.000	0.074
h.	0.819	0.892	1.696	0.000
	0.024	0.041	0.074	0.000

TABLE S339. KS distances on size of sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	0.616	0.186	0.341
	0.000	0.027	0.008	0.010
p.	0.616	0.000	0.554	0.751
	0.027	0.000	0.030	0.035
i.	0.186	0.554	0.000	0.401
	0.008	0.030	0.000	0.017
h.	0.341	0.751	0.401	0.000
	0.010	0.035	0.017	0.000

TABLE S340. KS distances on use of adjectives on sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	0.661	0.649	0.593
	0.000	0.029	0.026	0.017
p.	0.661	0.000	0.408	0.918
	0.029	0.000	0.022	0.043
i.	0.649	0.408	0.000	0.984
	0.026	0.022	0.000	0.043
h.	0.593	0.918	0.984	0.000
	0.017	0.043	0.043	0.000

TABLE S341. KS distances on use of substantives on sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.530	0.386	1.014
	0.000	0.067	0.016	0.030
p.	1.530	0.000	0.946	2.086
	0.067	0.000	0.051	0.097
i.	0.386	0.946	0.000	1.048
	0.016	0.051	0.000	0.045
h.	1.014	2.086	1.048	0.000
	0.030	0.097	0.045	0.000

TABLE S342. KS distances on use of punctuations on sentences. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	1.183	0.368	0.531
	0.000	0.106	0.027	0.030
p.	1.183	0.000	1.217	1.408
	0.106	0.000	0.128	0.133
i.	0.368	1.217	0.000	0.545
	0.027	0.128	0.000	0.043
h.	0.531	1.408	0.545	0.000
	0.030	0.133	0.043	0.000

TABLE S343. KS distances on use of number of characters in messages. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000	2.116	0.922	0.900
	0.000	0.166	0.067	0.050
p.	2.116	0.000	2.150	2.414
	0.166	0.000	0.207	0.203
i.	0.922	2.150	0.000	0.736
	0.067	0.207	0.000	0.058
h.	0.900	2.414	0.736	0.000
	0.050	0.203	0.058	0.000

TABLE S344. KS distances on use of verbs in each 100 tokens. TAG: 8. TAG: 8

	g.	p.	i.	h.
g.	0.000 0.000	16.789 0.058	12.810 0.068	18.103 0.084
p.	16.789 0.058	0.000 0.000	22.411 0.126	28.466 0.142
i.	12.810 0.068	22.411 0.126	0.000 0.000	2.762 0.018
h.	18.103 0.084	28.466 0.142	2.762 0.018	0.000 0.000

TABLE S345. KS distances on size of tokens. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	21.349 0.157	13.032 0.125	16.589 0.140
p.	21.349 0.157	0.000 0.000	26.611 0.283	30.984 0.296
i.	13.032 0.125	26.611 0.283	0.000 0.000	2.905 0.033
h.	16.589 0.140	30.984 0.296	2.905 0.033	0.000 0.000

TABLE S346. KS distances on size of known words. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	2.717 0.084	0.564 0.016	1.526 0.039
p.	2.717 0.084	0.000 0.000	2.668 0.100	3.536 0.123
i.	0.564 0.016	2.668 0.100	0.000 0.000	1.020 0.034
h.	1.526 0.039	3.536 0.123	1.020 0.034	0.000 0.000

TABLE S347. KS distances on size of sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	1.951 0.060	0.732 0.021	0.820 0.021
p.	1.951 0.060	0.000 0.000	2.170 0.082	2.337 0.081
i.	0.732 0.021	2.170 0.082	0.000 0.000	0.607 0.020
h.	0.820 0.021	2.337 0.081	0.607 0.020	0.000 0.000

TABLE S348. KS distances on use of adjectives on sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	3.433 0.106	1.187 0.035	1.533 0.039
p.	3.433 0.106	0.000 0.000	3.740 0.141	4.178 0.145
i.	1.187 0.035	3.740 0.141	0.000 0.000	0.528 0.018
h.	1.533 0.039	4.178 0.145	0.528 0.018	0.000 0.000

TABLE S349. KS distances on use of substantives on sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	1.634 0.050	0.498 0.015	0.782 0.020
p.	1.634 0.050	0.000 0.000	1.728 0.065	2.027 0.070
i.	0.498 0.015	1.728 0.065	0.000 0.000	0.974 0.032
h.	0.782 0.020	2.027 0.070	0.974 0.032	0.000 0.000

TABLE S350. KS distances on use of punctuations on sentences. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	0.496 0.052	0.506 0.034	0.702 0.045
p.	0.496 0.052	0.000 0.000	0.271 0.031	0.867 0.097
i.	0.506 0.034	0.271 0.031	0.000 0.000	2.780 0.215
h.	0.702 0.045	0.867 0.097	2.780 0.215	0.000 0.000

TABLE S351. KS distances on use of number of characters in messages. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000 0.000	10.614 0.365	9.246 0.492	10.500 0.489
p.	10.614 0.365	0.000 0.000	15.235 0.856	17.051 0.850
i.	9.246 0.492	15.235 0.856	0.000 0.000	0.942 0.061
h.	10.500 0.489	17.051 0.850	0.942 0.061	0.000 0.000

TABLE S352. KS distances on use of verbs in each 100 tokens. TAG: 10. TAG: 10

	g.	p.	i.	h.
g.	0.000	1.381	1.773	2.369
	0.000	0.012	0.007	0.010
p.	1.381	0.000	1.057	2.134
	0.012	0.000	0.009	0.019
i.	1.773	1.057	0.000	3.550
	0.007	0.009	0.000	0.017
h.	2.369	2.134	3.550	0.000
	0.010	0.019	0.017	0.000

TABLE S353. KS distances on size of tokens. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	1.339	1.272	1.066
	0.000	0.020	0.009	0.008
p.	1.339	0.000	1.415	1.567
	0.020	0.000	0.022	0.025
i.	1.272	1.415	0.000	1.993
	0.009	0.022	0.000	0.017
h.	1.066	1.567	1.993	0.000
	0.008	0.025	0.017	0.000

TABLE S354. KS distances on size of known words. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	0.860	1.136	1.371
	0.000	0.037	0.023	0.028
p.	0.860	0.000	0.796	1.338
	0.037	0.000	0.035	0.060
i.	1.136	0.796	0.000	2.088
	0.023	0.035	0.000	0.050
h.	1.371	1.338	2.088	0.000
	0.028	0.060	0.050	0.000

TABLE S355. KS distances on size of sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	0.710	0.729	0.595
	0.000	0.030	0.014	0.012
p.	0.710	0.000	0.950	0.636
	0.030	0.000	0.042	0.028
i.	0.729	0.950	0.000	1.129
	0.014	0.042	0.000	0.027
h.	0.595	0.636	1.129	0.000
	0.012	0.028	0.027	0.000

TABLE S356. KS distances on use of adjectives on sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	0.738	2.115	2.038
	0.000	0.032	0.042	0.042
p.	0.738	0.000	1.661	0.625
	0.032	0.000	0.074	0.028
i.	2.115	1.661	0.000	3.546
	0.042	0.074	0.000	0.084
h.	2.038	0.625	3.546	0.000
	0.042	0.028	0.084	0.000

TABLE S357. KS distances on use of substantives on sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	0.758	1.657	1.823
	0.000	0.032	0.033	0.038
p.	0.758	0.000	0.757	1.571
	0.032	0.000	0.034	0.070
i.	1.657	0.757	0.000	2.959
	0.033	0.034	0.000	0.070
h.	1.823	1.571	2.959	0.000
	0.038	0.070	0.070	0.000

TABLE S358. KS distances on use of punctuations on sentences. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	1.278	1.623	0.987
	0.000	0.152	0.119	0.069
p.	1.278	0.000	2.062	1.093
	0.152	0.000	0.264	0.138
i.	1.623	2.062	0.000	2.164
	0.119	0.264	0.000	0.183
h.	0.987	1.093	2.164	0.000
	0.069	0.138	0.183	0.000

TABLE S359. KS distances on use of number of characters in messages. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	1.731	0.727	0.966
	0.000	0.145	0.028	0.039
p.	1.731	0.000	1.928	1.388
	0.145	0.000	0.167	0.122
i.	0.727	1.928	0.000	1.324
	0.028	0.167	0.000	0.062
h.	0.966	1.388	1.324	0.000
	0.039	0.122	0.062	0.000

TABLE S360. KS distances on use of verbs in each 100 tokens. TAG: 11. TAG: 11

	g.	p.	i.	h.
g.	0.000	3.302	1.996	1.439
	0.000	0.020	0.010	0.012
p.	3.302	0.000	4.449	2.852
	0.020	0.000	0.029	0.026
i.	1.996	4.449	0.000	1.765
	0.010	0.029	0.000	0.015
h.	1.439	2.852	1.765	0.000
	0.012	0.026	0.015	0.000

TABLE S361. KS distances on size of tokens. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	6.091	3.369	1.801
	0.000	0.068	0.030	0.026
p.	6.091	0.000	7.983	5.642
	0.068	0.000	0.097	0.094
i.	3.369	7.983	0.000	1.606
	0.030	0.097	0.000	0.024
h.	1.801	5.642	1.606	0.000
	0.026	0.094	0.024	0.000

TABLE S362. KS distances on size of known words. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.246	0.797	0.423
	0.000	0.041	0.021	0.019
p.	1.246	0.000	1.589	0.962
	0.041	0.000	0.057	0.049
i.	0.797	1.589	0.000	0.603
	0.021	0.057	0.000	0.028
h.	0.423	0.962	0.603	0.000
	0.019	0.049	0.028	0.000

TABLE S363. KS distances on size of sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	0.681	0.446	0.914
	0.000	0.023	0.011	0.041
p.	0.681	0.000	0.753	0.987
	0.023	0.000	0.027	0.051
i.	0.446	0.753	0.000	1.122
	0.011	0.027	0.000	0.052
h.	0.914	0.987	1.122	0.000
	0.041	0.051	0.052	0.000

TABLE S364. KS distances on use of adjectives on sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.365	0.923	0.944
	0.000	0.045	0.024	0.042
p.	1.365	0.000	1.932	1.468
	0.045	0.000	0.069	0.075
i.	0.923	1.932	0.000	1.003
	0.024	0.069	0.000	0.047
h.	0.944	1.468	1.003	0.000
	0.042	0.075	0.047	0.000

TABLE S365. KS distances on use of substantives on sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	0.974	0.569	0.460
	0.000	0.032	0.015	0.021
p.	0.974	0.000	1.314	0.814
	0.032	0.000	0.047	0.042
i.	0.569	1.314	0.000	0.549
	0.015	0.047	0.000	0.026
h.	0.460	0.814	0.549	0.000
	0.021	0.042	0.026	0.000

TABLE S366. KS distances on use of punctuations on sentences. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.551	0.301	1.463
	0.000	0.163	0.022	0.164
p.	1.551	0.000	1.557	2.329
	0.163	0.000	0.174	0.325
i.	0.301	1.557	0.000	1.314
	0.022	0.174	0.000	0.156
h.	1.463	2.329	1.314	0.000
	0.164	0.325	0.156	0.000

TABLE S367. KS distances on use of number of characters in messages. TAG: 15. TAG: 15

	g.	p.	i.	h.
g.	0.000	1.929	0.946	0.910
	0.000	0.115	0.046	0.073
p.	1.929	0.000	2.426	1.834
	0.115	0.000	0.158	0.168
i.	0.946	2.426	0.000	0.594
	0.046	0.158	0.000	0.050
h.	0.910	1.834	0.594	0.000
	0.073	0.168	0.050	0.000

TABLE S368. KS distances on use of verbs in each 100 tokens. TAG: 15. TAG: 15

D. Correlation of topological and textual metrics

1. Snapshots of 1000 messages

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.07	0.04	-0.02	0.03	-0.00	0.06	0.04	0.13
(p.)	**1.00**	0.24	0.14	-0.03	0.01	-0.09	-0.05	-0.05	0.00
(i.)	**1.00**	-0.24	-0.20	-0.19	-0.13	-0.17	-0.10	-0.11	-0.15
(h.)	**1.00**	**-0.75**	-0.12	-0.04	0.28	0.17	0.24	0.09	-0.01
d	0.07	**1.00**	**0.95**	0.08	0.10	0.09	0.13	0.09	0.24
	0.24	**1.00**	**0.81**	-0.16	0.01	-0.27	-0.04	-0.23	-0.05
	-0.24	**1.00**	**0.94**	0.20	0.04	0.23	0.04	0.13	0.08
	-0.75	**1.00**	**0.67**	0.46	0.06	0.07	-0.06	0.13	0.27
s	0.04	**0.95**	**1.00**	0.07	0.10	0.09	0.13	0.09	0.23
	0.14	**0.81**	**1.00**	-0.16	-0.01	-0.21	-0.03	-0.17	-0.04
	-0.20	**0.94**	**1.00**	0.13	0.06	0.14	0.04	0.07	0.11
	-0.12	**0.67**	**1.00**	0.44	0.16	0.43	0.19	0.43	0.35
$\mu_S(p)$	-0.02	0.08	0.07	**1.00**	**0.63**	**0.77**	0.49	**0.62**	0.45
	-0.03	-0.16	-0.16	**1.00**	**0.63**	**0.74**	**0.61**	0.60	0.53
	-0.19	0.20	0.13	**1.00**	**0.61**	**0.85**	0.39	**0.67**	0.33
	-0.04	0.46	0.44	**1.00**	**0.78**	0.01	0.34	-0.00	0.49
$\sigma_S(p)$	0.03	0.10	0.10	**0.63**	**1.00**	0.28	**0.75**	0.11	0.59
	0.01	0.01	-0.01	**0.63**	**1.00**	0.21	**0.72**	0.09	0.56
	-0.13	0.04	0.06	**0.61**	**1.00**	0.36	**0.79**	0.09	**0.60**
	0.28	0.06	0.16	**0.78**	**1.00**	0.31	**0.70**	0.25	**0.67**
$\mu_S(kw)$	-0.00	0.09	0.09	**0.77**	0.28	**1.00**	0.43	**0.92**	0.45
	-0.09	-0.27	-0.21	**0.74**	0.21	**1.00**	0.44	**0.93**	0.44
	-0.17	0.23	0.14	**0.85**	0.36	**1.00**	0.42	**0.88**	0.43
	0.17	0.07	0.43	0.01	0.31	**1.00**	**0.83**	**0.99**	**0.80**
$\sigma_S(kw)$	0.06	0.13	0.13	0.49	**0.75**	0.43	**1.00**	0.25	**0.84**
	-0.05	-0.04	-0.03	**0.61**	**0.72**	0.44	**1.00**	0.30	**0.91**
	-0.10	0.04	0.04	0.39	**0.79**	0.42	**1.00**	0.16	**0.80**
	0.24	-0.06	0.19	0.34	**0.70**	**0.83**	**1.00**	**0.80**	**0.91**
$\mu_S(sw)$	0.04	0.09	0.09	**0.62**	0.11	**0.92**	0.25	**1.00**	0.38
	-0.05	-0.23	-0.17	0.60	0.09	**0.93**	0.30	**1.00**	0.38
	-0.11	0.13	0.07	**0.67**	0.09	**0.88**	0.16	**1.00**	0.31
	0.09	0.13	0.43	-0.00	0.25	**0.99**	**0.80**	**1.00**	**0.80**
$\sigma_S(sw)$	0.13	0.24	0.23	0.45	0.59	0.45	**0.84**	0.38	**1.00**
	0.00	-0.05	-0.04	0.53	0.56	0.44	**0.91**	0.38	**1.00**
	-0.15	0.08	0.11	0.33	**0.60**	0.43	**0.80**	0.31	**1.00**
	-0.01	0.27	0.35	0.49	**0.67**	**0.80**	**0.91**	**0.80**	**1.00**

TABLE S369. Pierson correlation coefficient for the topological and textual measures. TAG: 0

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.12	0.11	0.02	0.03	0.09	0.10	-0.03	0.01
(p.)	**1.00**	0.31	0.22	-0.01	0.01	0.05	0.09	-0.09	-0.07
(i.)	**1.00**	-0.21	-0.19	0.26	0.28	0.21	0.18	0.17	0.18
(h.)	**1.00**	-0.32	-0.27	0.25	0.04	0.24	0.03	0.32	0.20
d	0.12	**1.00**	**0.98**	-0.06	-0.04	-0.06	-0.01	0.03	0.11
	0.31	**1.00**	**0.91**	-0.19	-0.20	-0.16	-0.16	0.08	0.07
	-0.21	**1.00**	**0.91**	-0.27	-0.25	-0.19	-0.15	-0.00	0.01
	-0.32	**1.00**	**0.96**	-0.26	-0.18	-0.16	0.05	-0.13	0.01
s	0.11	**0.98**	**1.00**	-0.06	-0.03	-0.06	-0.01	0.02	0.10
	0.22	**0.91**	**1.00**	-0.17	-0.17	-0.12	-0.15	0.13	0.12
	-0.19	**0.91**	**1.00**	-0.25	-0.19	-0.16	-0.08	-0.04	-0.03
	-0.27	**0.96**	**1.00**	-0.30	-0.22	-0.24	-0.02	-0.16	0.00
$\mu_S(p)$	0.02	-0.06	-0.06	**1.00**	**0.97**	**0.82**	**0.81**	0.10	0.16
	-0.01	-0.19	-0.17	**1.00**	**0.99**	**0.83**	**0.83**	0.04	0.15
	0.26	-0.27	-0.25	**1.00**	**0.90**	**0.91**	**0.78**	0.44	0.21
	0.25	-0.26	-0.30	**1.00**	**0.80**	**0.66**	0.53	0.42	0.32
$\sigma_S(p)$	0.03	-0.04	-0.03	**0.97**	**1.00**	**0.77**	**0.82**	0.05	0.13
	0.01	-0.20	-0.17	**0.99**	**1.00**	**0.81**	**0.84**	0.01	0.12
	0.28	-0.25	-0.19	**0.90**	**1.00**	**0.80**	**0.89**	0.36	0.22
	0.04	-0.18	-0.22	**0.80**	**1.00**	0.50	**0.63**	0.23	0.22
$\mu_S(kw)$	0.09	-0.06	-0.06	**0.82**	**0.77**	**1.00**	**0.92**	0.42	0.40
	0.05	-0.16	-0.12	**0.83**	**0.81**	**1.00**	**0.94**	0.36	0.40
	0.21	-0.19	-0.16	**0.91**	**0.80**	**1.00**	**0.87**	**0.60**	0.36
	0.24	-0.16	-0.24	**0.66**	0.50	**1.00**	**0.82**	**0.82**	**0.70**
$\sigma_S(kw)$	0.10	-0.01	-0.01	**0.81**	**0.82**	**0.92**	**1.00**	0.31	0.40
	0.09	-0.16	-0.15	**0.83**	**0.84**	**0.94**	**1.00**	0.26	0.41
	0.18	-0.15	-0.08	**0.78**	**0.89**	**0.87**	**1.00**	0.47	0.34
	0.03	0.05	-0.02	0.53	**0.63**	**0.82**	**1.00**	0.53	0.54
$\mu_S(sw)$	-0.03	0.03	0.02	0.10	0.05	0.42	0.31	**1.00**	**0.84**
	-0.09	0.08	0.13	0.04	0.01	0.36	0.26	**1.00**	**0.83**
	0.17	-0.00	-0.04	0.44	0.36	**0.60**	0.47	**1.00**	**0.83**
	0.32	-0.13	-0.16	0.42	0.23	**0.82**	0.53	**1.00**	**0.92**
$\sigma_S(sw)$	0.01	0.11	0.10	0.16	0.13	0.40	0.40	**0.84**	**1.00**
	-0.07	0.07	0.12	0.15	0.12	0.40	0.41	**0.83**	**1.00**
	0.18	0.01	-0.03	0.21	0.22	0.36	0.34	**0.83**	**1.00**
	0.20	0.01	0.00	0.32	0.22	**0.70**	0.54	**0.92**	**1.00**

TABLE S370. Pierson correlation coefficient for the topological and textual measures. TAG: 2

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	-0.06	-0.07	0.19	0.26	0.27	0.34	0.33	0.34
(p.)	**1.00**	**0.63**	0.45	0.11	0.25	0.32	0.37	0.44	0.42
(i.)	**1.00**	**-0.75**	-0.38	0.19	0.13	-0.06	0.07	-0.20	-0.21
(h.)	**1.00**	**-0.74**	**-0.73**	-0.03	-0.09	0.06	-0.24	0.15	-0.15
d	-0.06	**1.00**	**0.97**	-0.02	0.02	0.01	0.06	0.06	0.13
	0.63	**1.00**	**0.66**	0.17	0.21	0.40	0.38	0.48	0.45
	-0.75	**1.00**	0.53	-0.21	-0.12	-0.00	-0.05	0.08	0.08
	-0.74	**1.00**	**0.99**	-0.32	-0.33	-0.38	-0.20	-0.33	0.13
s	-0.07	**0.97**	**1.00**	-0.01	0.04	-0.02	0.07	0.00	0.10
	0.45	**0.66**	**1.00**	0.20	0.34	0.33	0.43	0.30	0.32
	-0.38	0.53	**1.00**	0.05	0.35	0.05	0.37	-0.02	0.15
	-0.73	**0.99**	**1.00**	-0.27	-0.30	-0.39	-0.19	-0.40	0.08
$\mu_S(p)$	0.19	-0.02	-0.01	**1.00**	**0.85**	**0.62**	**0.74**	0.18	0.37
	0.11	0.17	0.20	**1.00**	**0.81**	**0.64**	**0.66**	0.34	0.48
	0.19	-0.21	0.05	**1.00**	**0.86**	**0.62**	**0.77**	-0.05	0.22
	-0.03	-0.32	-0.27	**1.00**	**0.93**	**0.76**	**0.86**	0.29	0.42
$\sigma_S(p)$	0.26	0.02	0.04	**0.85**	**1.00**	0.52	**0.91**	0.15	0.38
	0.25	0.21	0.34	**0.81**	**1.00**	0.59	**0.89**	0.30	0.54
	0.13	-0.12	0.35	**0.86**	**1.00**	0.49	**0.94**	-0.11	0.23
	-0.09	-0.33	-0.30	**0.93**	**1.00**	**0.83**	**0.97**	0.46	0.40
$\mu_S(kw)$	0.27	0.01	-0.02	**0.62**	0.52	**1.00**	**0.70**	**0.76**	**0.74**
	0.32	0.40	0.33	**0.64**	0.59	**1.00**	**0.74**	**0.79**	**0.71**
	-0.06	-0.00	0.05	**0.62**	0.49	**1.00**	**0.65**	**0.68**	**0.78**
	0.06	-0.38	-0.39	**0.76**	**0.83**	**1.00**	**0.88**	**0.83**	**0.69**
$\sigma_S(kw)$	0.34	0.06	0.07	**0.74**	**0.91**	**0.70**	**1.00**	0.39	**0.63**
	0.37	0.38	0.43	**0.66**	**0.89**	**0.74**	**1.00**	0.52	**0.76**
	0.07	-0.05	0.37	**0.77**	**0.94**	**0.65**	**1.00**	0.11	0.44
	-0.24	-0.20	-0.19	**0.86**	**0.97**	**0.88**	**1.00**	0.58	0.51
$\mu_S(sw)$	0.33	0.06	0.00	0.18	0.15	**0.76**	0.39	**1.00**	**0.83**
	0.44	0.48	0.30	0.34	0.30	**0.79**	0.52	**1.00**	**0.81**
	-0.20	0.08	-0.02	-0.05	-0.11	**0.68**	0.11	**1.00**	**0.86**
	0.15	-0.33	-0.40	0.29	0.46	**0.83**	0.58	**1.00**	**0.70**
$\sigma_S(sw)$	0.34	0.13	0.10	0.37	0.38	**0.74**	**0.63**	**0.83**	**1.00**
	0.42	0.45	0.32	0.48	0.54	**0.71**	**0.76**	**0.81**	**1.00**
	-0.21	0.08	0.15	0.22	0.23	**0.78**	0.44	**0.86**	**1.00**
	-0.15	0.13	0.08	0.42	0.40	**0.69**	0.51	**0.70**	**1.00**

TABLE S371. Pierson correlation coefficient for the topological and textual measures. TAG: 3

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.20	0.19	-0.02	0.00	-0.02	-0.01	-0.00	0.02
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	0.52	0.26	-0.03	-0.04	-0.13	-0.11	-0.18	-0.10
(h.)	**1.00**	-0.37	-0.33	0.47	**0.63**	0.56	0.46	**0.72**	**0.68**
d	0.20	**1.00**	**0.99**	-0.02	-0.01	-0.02	-0.01	-0.00	0.01
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.52	**1.00**	**0.76**	0.00	0.10	-0.09	0.04	-0.15	-0.01
	-0.37	**1.00**	**0.99**	-0.19	-0.16	-0.16	-0.14	-0.12	-0.24
s	0.19	**0.99**	**1.00**	-0.02	-0.00	-0.02	-0.01	0.00	0.02
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.26	**0.76**	**1.00**	0.05	0.20	0.01	0.17	0.09	0.31
	-0.33	**0.99**	**1.00**	-0.15	-0.10	-0.15	-0.10	-0.12	-0.20
$\mu_S(p)$	-0.02	-0.02	-0.02	**1.00**	**0.87**	**0.91**	**0.75**	0.09	0.08
	0.00	0.00	0.00	**1.00**	**0.87**	**0.91**	**0.75**	0.09	0.08
	-0.03	0.00	0.05	**1.00**	**0.94**	**0.92**	**0.93**	0.37	0.45
	0.47	-0.19	-0.15	**1.00**	**0.89**	**0.90**	**0.91**	0.50	0.56
$\sigma_S(p)$	0.00	-0.01	-0.00	**0.87**	**1.00**	**0.85**	**0.92**	0.07	0.18
	0.00	0.00	0.00	**0.87**	**1.00**	**0.85**	**0.92**	0.07	0.17
	-0.04	0.10	0.20	**0.94**	**1.00**	**0.85**	**0.98**	0.37	0.54
	0.63	-0.16	-0.10	**0.89**	**1.00**	**0.77**	**0.91**	**0.60**	**0.73**
$\mu_S(kw)$	-0.02	-0.02	-0.02	**0.91**	**0.85**	**1.00**	**0.85**	0.36	0.20
	0.00	0.00	0.00	**0.91**	**0.85**	**1.00**	**0.85**	0.36	0.20
	-0.13	-0.09	0.01	**0.92**	**0.85**	**1.00**	**0.91**	**0.63**	0.50
	0.56	-0.16	-0.15	**0.90**	**0.77**	**1.00**	**0.80**	**0.70**	**0.60**
$\sigma_S(kw)$	-0.01	-0.01	-0.01	**0.75**	**0.92**	**0.85**	**1.00**	0.14	0.33
	0.00	0.00	0.00	**0.75**	**0.92**	**0.85**	**1.00**	0.13	0.32
	-0.11	0.04	0.17	**0.93**	**0.98**	**0.91**	**1.00**	0.46	0.60
	0.46	-0.14	-0.10	**0.91**	**0.91**	**0.80**	**1.00**	0.42	0.49
$\mu_S(sw)$	-0.00	-0.00	0.00	0.09	0.07	0.36	0.14	**1.00**	0.43
	0.00	0.00	0.00	0.09	0.07	0.36	0.13	**1.00**	0.43
	-0.18	-0.15	0.09	0.37	0.37	**0.63**	0.46	**1.00**	0.59
	0.72	-0.12	-0.12	0.50	**0.60**	**0.70**	0.42	**1.00**	**0.91**
$\sigma_S(sw)$	0.02	0.01	0.02	0.08	0.18	0.20	0.33	0.43	**1.00**
	0.00	0.00	0.00	0.08	0.17	0.20	0.32	0.43	**1.00**
	-0.10	-0.01	0.31	0.45	0.54	0.50	0.60	0.59	**1.00**
	0.68	-0.24	-0.20	0.56	**0.73**	**0.60**	0.49	**0.91**	**1.00**

TABLE S372. Pierson correlation coefficient for the topological and textual measures. TAG: 6

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.14	0.13	0.00	0.07	-0.06	0.05	0.01	0.07
(p.)	**1.00**	0.29	0.27	-0.04	0.02	-0.09	0.02	-0.03	0.02
(i.)	**1.00**	0.19	0.15	0.12	0.19	-0.03	0.10	0.07	0.12
(h.)	**1.00**	-0.38	-0.21	0.04	-0.15	-0.03	-0.22	0.02	-0.05
d	0.14	**1.00**	**0.97**	0.08	0.16	0.10	0.26	0.18	0.33
	0.29	**1.00**	**0.91**	0.05	0.10	-0.16	-0.05	-0.13	-0.08
	0.19	**1.00**	**0.89**	0.16	0.26	0.06	0.35	0.16	0.27
	-0.38	**1.00**	**0.88**	0.13	0.15	0.12	0.13	0.19	0.19
s	0.13	**0.97**	**1.00**	0.06	0.14	0.10	0.25	0.17	0.31
	0.27	**0.91**	**1.00**	0.04	0.07	-0.13	-0.03	-0.10	-0.04
	0.15	**0.89**	**1.00**	0.06	0.19	0.02	0.33	0.10	0.24
	-0.21	**0.88**	**1.00**	0.12	0.12	0.07	0.12	0.11	0.10
$\mu_S(p)$	0.00	0.08	0.06	**1.00**	**0.79**	**0.76**	**0.60**	0.35	0.36
	-0.04	0.05	0.04	**1.00**	**0.86**	**0.73**	0.60	0.29	0.37
	0.12	0.16	0.06	**1.00**	**0.64**	**0.77**	**0.62**	0.27	0.18
	0.04	0.13	0.12	**1.00**	**0.84**	**0.97**	**0.74**	**0.90**	**0.83**
$\sigma_S(p)$	0.07	0.16	0.14	**0.79**	**1.00**	0.49	**0.78**	0.24	0.52
	0.02	0.10	0.07	**0.86**	**1.00**	0.53	**0.78**	0.22	0.54
	0.19	0.26	0.19	**0.64**	**1.00**	0.34	**0.80**	0.16	0.41
	-0.15	0.15	0.12	**0.84**	**1.00**	**0.82**	**0.96**	**0.70**	**0.86**
$\mu_S(kw)$	-0.06	0.10	0.10	**0.76**	0.49	**1.00**	**0.63**	**0.65**	0.46
	-0.09	-0.16	-0.13	**0.73**	0.53	**1.00**	**0.62**	**0.64**	0.45
	-0.03	0.06	0.02	**0.77**	0.34	**1.00**	**0.61**	0.54	0.27
	-0.03	0.12	0.07	**0.97**	**0.82**	**1.00**	**0.75**	**0.94**	**0.86**
$\sigma_S(kw)$	0.05	0.26	0.25	**0.60**	**0.78**	**0.63**	**1.00**	0.39	**0.69**
	0.02	-0.05	-0.03	0.60	**0.78**	**0.62**	**1.00**	0.32	**0.72**
	0.10	0.35	0.33	**0.62**	**0.80**	**0.61**	**1.00**	0.34	0.45
	-0.22	0.13	0.12	**0.74**	**0.96**	**0.75**	**1.00**	**0.65**	**0.87**
$\mu_S(sw)$	0.01	0.18	0.17	0.35	0.24	**0.65**	0.39	**1.00**	**0.71**
	-0.03	-0.13	-0.10	0.29	0.22	**0.64**	0.32	**1.00**	**0.65**
	0.07	0.16	0.10	0.27	0.16	0.54	0.34	**1.00**	**0.71**
	0.02	0.19	0.11	**0.90**	**0.70**	**0.94**	**0.65**	**1.00**	**0.90**
$\sigma_S(sw)$	0.07	0.33	0.31	0.36	0.52	0.46	**0.69**	**0.71**	**1.00**
	0.02	-0.08	-0.04	0.37	0.54	0.45	**0.72**	**0.65**	**1.00**
	0.12	0.27	0.24	0.18	0.41	0.27	0.45	**0.71**	**1.00**
	-0.05	0.19	0.10	**0.83**	**0.86**	**0.86**	**0.87**	**0.90**	**1.00**

TABLE S373. Pierson correlation coefficient for the topological and textual measures. TAG: 7

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.17	0.09	-0.06	-0.03	-0.03	-0.06	0.23	0.09
(p.)	**1.00**	0.30	0.29	-0.05	-0.06	-0.01	-0.06	0.25	-0.03
(i.)	**1.00**	-0.02	0.03	0.36	0.21	0.10	-0.01	0.07	-0.15
(h.)	**1.00**	**-0.68**	**-0.63**	-0.48	-0.37	-0.18	-0.11	0.01	0.07
d	0.17	**1.00**	**0.96**	-0.07	-0.03	-0.02	-0.00	0.15	0.26
	0.30	**1.00**	**0.95**	-0.22	-0.21	-0.15	-0.19	0.15	-0.13
	-0.02	**1.00**	**0.89**	-0.07	0.02	0.16	0.19	0.23	0.31
	-0.68	**1.00**	**0.95**	-0.07	-0.17	-0.12	-0.36	-0.05	-0.07
s	0.09	**0.96**	**1.00**	-0.04	-0.01	-0.01	0.01	0.11	0.21
	0.29	**0.95**	**1.00**	-0.20	-0.19	-0.14	-0.17	0.12	-0.12
	0.03	**0.89**	**1.00**	-0.08	-0.01	0.13	0.14	0.24	0.29
	-0.63	**0.95**	**1.00**	0.06	0.03	-0.05	-0.18	-0.11	-0.09
$\mu_S(p)$	-0.06	-0.07	-0.04	**1.00**	**0.95**	**0.95**	**0.92**	0.14	0.27
	-0.05	-0.22	-0.20	**1.00**	**0.96**	**0.96**	**0.94**	0.18	0.39
	0.36	-0.07	-0.08	**1.00**	**0.92**	0.35	0.57	-0.03	0.05
	-0.48	-0.07	0.06	**1.00**	**0.86**	**0.63**	**0.85**	0.10	0.37
$\sigma_S(p)$	-0.03	-0.03	-0.01	**0.95**	**1.00**	**0.90**	**0.96**	0.11	0.33
	-0.06	-0.21	-0.19	**0.96**	**1.00**	**0.92**	**0.98**	0.14	0.45
	0.21	0.02	-0.01	**0.92**	**1.00**	0.32	**0.61**	-0.06	0.05
	-0.37	-0.17	0.03	**0.86**	**1.00**	0.48	**0.89**	-0.12	0.01
$\mu_S(kw)$	-0.03	-0.02	-0.01	**0.95**	**0.90**	**1.00**	**0.93**	0.37	0.43
	-0.01	-0.15	-0.14	**0.96**	**0.92**	**1.00**	**0.94**	0.38	0.50
	0.10	0.16	0.13	0.35	0.32	**1.00**	**0.69**	**0.80**	**0.77**
	-0.18	-0.12	-0.05	**0.63**	0.48	**1.00**	**0.73**	**0.78**	**0.76**
$\sigma_S(kw)$	-0.06	-0.00	0.01	**0.92**	**0.96**	**0.93**	**1.00**	0.20	0.49
	-0.06	-0.19	-0.17	**0.94**	**0.98**	**0.94**	**1.00**	0.21	0.57
	-0.01	0.19	0.14	0.57	**0.61**	**0.69**	**1.00**	0.35	**0.65**
	-0.11	-0.36	-0.18	**0.85**	**0.89**	**0.73**	**1.00**	0.18	0.38
$\mu_S(sw)$	0.23	0.15	0.11	0.14	0.11	0.37	0.20	**1.00**	0.49
	0.25	0.15	0.12	0.18	0.14	0.38	0.21	**1.00**	0.37
	0.07	0.23	0.24	-0.03	-0.06	**0.80**	0.35	**1.00**	**0.81**
	0.01	-0.05	-0.11	0.10	-0.12	**0.78**	0.18	**1.00**	**0.77**
$\sigma_S(sw)$	0.09	0.26	0.21	0.27	0.33	0.43	0.49	0.49	**1.00**
	-0.03	-0.13	-0.12	0.39	0.45	0.50	0.57	0.37	**1.00**
	-0.15	0.31	0.29	0.05	0.05	**0.77**	**0.65**	**0.81**	**1.00**
	0.07	-0.07	-0.09	0.37	0.01	**0.76**	0.38	**0.77**	**1.00**

TABLE S374. Pierson correlation coefficient for the topological and textual measures. TAG: 8

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.05	0.04	-0.04	0.00	-0.02	0.01	-0.00	0.00
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	-0.10	-0.18	-0.19	-0.11	-0.23	-0.17	-0.16	-0.15
(h.)	**1.00**	**-0.67**	**-0.67**	0.10	0.12	-0.06	0.04	-0.46	-0.32
d	0.05	**1.00**	**1.00**	0.07	0.06	0.18	0.20	0.25	0.28
	0.00	**1.00**	**0.93**	0.06	0.08	0.06	0.06	0.07	0.06
	-0.10	**1.00**	**0.90**	0.01	0.02	0.01	0.06	0.07	0.10
	-0.67	**1.00**	**1.00**	-0.04	-0.04	0.14	0.12	0.56	0.50
s	0.04	**1.00**	**1.00**	0.09	0.07	0.19	0.22	0.25	0.28
	0.00	**0.93**	**1.00**	0.12	0.17	0.15	0.14	0.15	0.18
	-0.18	**0.90**	**1.00**	0.11	0.12	0.09	0.21	0.08	0.12
	-0.67	**1.00**	**1.00**	-0.00	0.00	0.18	0.16	0.59	0.53
$\mu_S(p)$	-0.04	0.07	0.09	**1.00**	**0.86**	**0.61**	**0.68**	0.25	0.34
	0.00	0.06	0.12	**1.00**	**0.84**	0.55	0.56	0.11	0.19
	-0.19	0.01	0.11	**1.00**	**0.92**	**0.65**	**0.80**	0.43	0.52
	0.10	-0.04	-0.00	**1.00**	**0.99**	**0.96**	**0.97**	**0.66**	**0.75**
$\sigma_S(p)$	0.00	0.06	0.07	**0.86**	**1.00**	0.40	**0.71**	0.15	0.41
	0.00	0.08	0.17	**0.84**	**1.00**	0.37	0.59	0.05	0.28
	-0.11	0.02	0.12	**0.92**	**1.00**	0.38	**0.82**	0.21	0.57
	0.12	-0.04	0.00	**0.99**	**1.00**	**0.94**	**0.96**	**0.61**	**0.73**
$\mu_S(kw)$	-0.02	0.18	0.19	**0.61**	0.40	**1.00**	**0.65**	**0.78**	0.51
	0.00	0.06	0.15	0.55	0.37	**1.00**	**0.65**	**0.72**	0.48
	-0.23	0.01	0.09	**0.65**	0.38	**1.00**	0.53	**0.86**	0.39
	-0.06	0.14	0.18	**0.96**	**0.94**	**1.00**	**0.99**	**0.83**	**0.90**
$\sigma_S(kw)$	0.01	0.20	0.22	**0.68**	**0.71**	**0.65**	**1.00**	0.42	**0.75**
	0.00	0.06	0.14	0.56	0.59	**0.65**	**1.00**	0.36	**0.72**
	-0.17	0.06	0.21	**0.80**	**0.82**	0.53	**1.00**	0.35	**0.74**
	0.04	0.12	0.16	**0.97**	**0.96**	**0.99**	**1.00**	**0.78**	**0.87**
$\mu_S(sw)$	-0.00	0.25	0.25	0.25	0.15	**0.78**	0.42	**1.00**	**0.61**
	0.00	0.07	0.15	0.11	0.05	**0.72**	0.36	**1.00**	0.57
	-0.16	0.07	0.08	0.43	0.21	**0.86**	0.35	**1.00**	0.52
	-0.46	0.56	0.59	**0.66**	**0.61**	**0.83**	**0.78**	**1.00**	**0.98**
$\sigma_S(sw)$	0.00	0.28	0.28	0.34	0.41	0.51	**0.75**	**0.61**	**1.00**
	0.00	0.06	0.18	0.19	0.28	0.48	**0.72**	0.57	**1.00**
	-0.15	0.10	0.12	0.52	0.57	0.39	**0.74**	0.52	**1.00**
	-0.32	0.50	0.53	**0.75**	**0.73**	**0.90**	**0.87**	**0.98**	**1.00**

TABLE S375. Pierson correlation coefficient for the topological and textual measures. TAG: 9

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.08	0.05	-0.03	0.01	-0.02	0.03	0.10	0.12
(p.)	**1.00**	0.44	0.41	-0.07	-0.09	-0.04	-0.02	0.05	0.08
(i.)	**1.00**	-0.07	-0.06	0.07	0.02	0.04	-0.01	0.06	0.05
(h.)	**1.00**	-0.28	-0.33	-0.09	-0.08	-0.38	-0.12	-0.24	-0.05
d	0.08	**1.00**	**0.98**	-0.01	0.13	0.02	0.14	0.15	0.21
	0.44	**1.00**	**0.97**	-0.04	-0.02	-0.04	-0.04	0.04	0.03
	-0.07	**1.00**	**0.91**	-0.15	0.06	0.09	0.20	0.16	0.21
	-0.28	**1.00**	**0.94**	-0.04	-0.07	0.20	0.41	0.47	0.57
s	0.05	**0.98**	**1.00**	-0.01	0.15	0.02	0.14	0.14	0.20
	0.41	**0.97**	**1.00**	-0.04	-0.02	-0.04	-0.04	0.05	0.04
	-0.06	**0.91**	**1.00**	-0.12	0.20	0.08	0.21	0.15	0.21
	-0.33	**0.94**	**1.00**	-0.07	-0.14	0.10	0.35	0.34	0.49
$\mu_S(p)$	-0.03	-0.01	-0.01	**1.00**	**0.60**	**0.92**	**0.63**	0.32	0.17
	-0.07	-0.04	-0.04	**1.00**	**0.75**	**0.95**	**0.72**	0.34	0.19
	0.07	-0.15	-0.12	**1.00**	0.54	0.51	0.26	0.33	0.16
	-0.09	-0.04	-0.07	**1.00**	**0.74**	0.11	0.49	-0.16	-0.05
$\sigma_S(p)$	0.01	0.13	0.15	**0.60**	**1.00**	0.52	**0.65**	0.23	0.34
	-0.09	-0.02	-0.02	**0.75**	**1.00**	**0.69**	**0.76**	0.22	0.38
	0.02	0.06	0.20	0.54	**1.00**	0.30	0.47	0.17	0.23
	-0.08	-0.07	-0.14	**0.74**	**1.00**	0.36	**0.64**	0.11	0.11
$\mu_S(kw)$	-0.02	0.02	0.02	**0.92**	0.52	**1.00**	**0.75**	0.52	0.36
	-0.04	-0.04	-0.04	**0.95**	**0.69**	**1.00**	**0.81**	0.51	0.36
	0.04	0.09	0.08	0.51	0.30	**1.00**	**0.63**	**0.87**	**0.60**
	-0.38	0.20	0.10	0.11	0.36	**1.00**	**0.76**	**0.90**	**0.66**
$\sigma_S(kw)$	0.03	0.14	0.14	**0.63**	**0.65**	**0.75**	**1.00**	0.52	**0.74**
	-0.02	-0.04	-0.04	**0.72**	**0.76**	**0.81**	**1.00**	0.48	**0.70**
	-0.01	0.20	0.21	0.26	0.47	**0.63**	**1.00**	0.59	**0.83**
	-0.12	0.41	0.35	0.49	**0.64**	**0.76**	**1.00**	**0.69**	**0.72**
$\mu_S(sw)$	0.10	0.15	0.14	0.32	0.23	0.52	0.52	**1.00**	**0.68**
	0.05	0.04	0.05	0.34	0.22	0.51	0.48	**1.00**	**0.63**
	0.06	0.16	0.15	0.33	0.17	**0.87**	0.59	**1.00**	**0.72**
	-0.24	0.47	0.34	-0.16	0.11	**0.90**	**0.69**	**1.00**	**0.82**
$\sigma_S(sw)$	0.12	0.21	0.20	0.17	0.34	0.36	**0.74**	**0.68**	**1.00**
	0.08	0.03	0.04	0.19	0.38	0.36	**0.70**	**0.63**	**1.00**
	0.05	0.21	0.21	0.16	0.23	**0.60**	**0.83**	**0.72**	**1.00**
	-0.05	0.57	0.49	-0.05	0.11	**0.66**	**0.72**	**0.82**	**1.00**

TABLE S376. Pierson correlation coefficient for the topological and textual measures. TAG: 10

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.16	0.05	0.16	0.34	0.21	0.24	0.09	0.17
(p.)	**1.00**	0.50	0.59	0.20	0.33	0.10	0.03	-0.04	0.02
(i.)	**1.00**	-0.28	-0.09	-0.11	0.03	0.19	0.06	0.00	-0.02
(h.)	**1.00**	**-0.87**	**-0.79**	**0.72**	**0.62**	0.32	-0.10	**-0.75**	**-0.79**
d	0.16	**1.00**	**0.93**	-0.04	0.18	0.17	0.27	0.20	0.24
	0.50	**1.00**	**0.84**	0.08	0.40	0.29	0.22	0.16	0.22
	-0.28	**1.00**	0.42	0.29	0.17	-0.00	-0.01	0.14	0.25
	-0.87	**1.00**	**0.96**	**-0.76**	**-0.72**	-0.23	-0.16	**0.67**	0.50
s	0.05	**0.93**	**1.00**	-0.10	0.04	0.12	0.19	0.17	0.18
	0.59	**0.84**	**1.00**	0.02	0.26	0.25	0.23	0.18	0.21
	-0.09	0.42	**1.00**	0.02	0.00	0.17	0.25	0.26	0.31
	-0.79	**0.96**	**1.00**	**-0.78**	**-0.73**	-0.22	-0.26	**0.65**	0.39
$\mu_S(p)$	0.16	-0.04	-0.10	**1.00**	0.57	0.41	0.15	-0.01	0.20
	0.20	0.08	0.02	**1.00**	0.57	0.48	0.16	0.02	0.24
	-0.11	0.29	0.02	**1.00**	**0.71**	-0.32	-0.21	-0.33	-0.03
	0.72	**-0.76**	**-0.78**	**1.00**	**0.97**	**0.78**	**0.61**	-0.27	-0.20
$\sigma_S(p)$	0.34	0.18	0.04	0.57	**1.00**	0.40	0.48	0.16	0.35
	0.33	0.40	0.26	0.57	**1.00**	0.43	0.48	0.21	0.42
	0.03	0.17	0.00	**0.71**	**1.00**	-0.09	-0.02	-0.27	-0.12
	0.62	**-0.72**	**-0.73**	**0.97**	**1.00**	**0.80**	**0.68**	-0.22	-0.12
$\mu_S(kw)$	0.21	0.17	0.12	0.41	0.40	**1.00**	**0.68**	**0.77**	**0.67**
	0.10	0.29	0.25	0.48	0.43	**1.00**	**0.66**	**0.75**	**0.67**
	0.19	-0.00	0.17	-0.32	-0.09	**1.00**	**0.65**	**0.88**	0.53
	0.32	-0.23	-0.22	**0.78**	**0.80**	**1.00**	**0.70**	0.22	0.07
$\sigma_S(kw)$	0.24	0.27	0.19	0.15	0.48	**0.68**	**1.00**	**0.67**	**0.85**
	0.03	0.22	0.23	0.16	0.48	**0.66**	**1.00**	**0.65**	**0.86**
	0.06	-0.01	0.25	-0.21	-0.02	**0.65**	**1.00**	**0.66**	**0.67**
	-0.10	-0.16	-0.26	**0.61**	**0.68**	**0.70**	**1.00**	0.50	**0.64**
$\mu_S(sw)$	0.09	0.20	0.17	-0.01	0.16	**0.77**	**0.67**	**1.00**	**0.73**
	-0.04	0.16	0.18	0.02	0.21	**0.75**	**0.65**	**1.00**	**0.70**
	0.00	0.14	0.26	-0.33	-0.27	**0.88**	**0.66**	**1.00**	**0.77**
	-0.75	**0.67**	**0.65**	-0.27	-0.22	0.22	0.50	**1.00**	**0.87**
$\sigma_S(sw)$	0.17	0.24	0.18	0.20	0.35	**0.67**	**0.85**	**0.73**	**1.00**
	0.02	0.22	0.21	0.24	0.42	**0.67**	**0.86**	**0.70**	**1.00**
	-0.02	0.25	0.31	-0.03	-0.12	0.53	**0.67**	**0.77**	**1.00**
	-0.79	0.50	0.39	-0.20	-0.12	0.07	**0.64**	**0.87**	**1.00**

TABLE S377. Pierson correlation coefficient for the topological and textual measures. TAG: 11

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.12	0.13	0.00	0.01	0.00	0.02	-0.03	0.06
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	0.02	0.05	0.07	0.03	0.03	0.04	-0.07	0.07
(h.)	**1.00**	-0.24	-0.11	0.00	0.00	0.10	-0.04	0.04	-0.02
d	0.12	**1.00**	**0.97**	-0.04	-0.01	-0.04	0.00	-0.04	0.07
	0.00	1.00	1.00	-0.08	-0.09	-0.07	-0.08	-0.03	0.04
	0.02	**1.00**	**0.90**	0.02	-0.01	-0.00	-0.02	-0.08	0.02
	-0.24	**1.00**	**0.83**	0.34	0.45	0.39	0.41	0.34	0.14
s	0.13	**0.97**	**1.00**	-0.02	0.02	-0.02	0.03	-0.06	0.07
	0.00	1.00	1.00	-0.08	-0.09	-0.07	-0.08	-0.03	0.04
	0.05	**0.90**	**1.00**	0.15	0.11	0.08	0.09	-0.15	0.02
	-0.11	**0.83**	**1.00**	0.23	0.41	0.41	0.39	0.54	0.19
$\mu_S(p)$	0.00	-0.04	-0.02	**1.00**	**0.92**	**0.94**	**0.90**	0.38	**0.64**
	0.00	-0.08	-0.08	**1.00**	**0.94**	**0.94**	**0.94**	0.43	**0.68**
	0.07	0.02	0.15	**1.00**	**0.88**	**0.89**	**0.85**	0.23	0.51
	0.00	0.34	0.23	**1.00**	**0.94**	**0.77**	**0.95**	0.19	**0.87**
$\sigma_S(p)$	0.01	-0.01	0.02	**0.92**	**1.00**	**0.81**	**0.97**	0.26	**0.66**
	0.00	-0.09	-0.09	**0.94**	**1.00**	**0.84**	**0.97**	0.34	**0.68**
	0.03	-0.01	0.11	**0.88**	**1.00**	**0.70**	**0.97**	0.02	**0.61**
	0.00	0.45	0.41	**0.94**	**1.00**	**0.85**	**0.99**	0.44	**0.92**
$\mu_S(kw)$	0.00	-0.04	-0.02	**0.94**	**0.81**	**1.00**	**0.85**	**0.60**	**0.68**
	0.00	-0.07	-0.07	**0.94**	**0.84**	**1.00**	**0.90**	**0.63**	**0.71**
	0.03	-0.00	0.08	**0.89**	**0.70**	**1.00**	**0.71**	0.58	0.56
	0.10	0.39	0.41	**0.77**	**0.85**	**1.00**	**0.88**	**0.73**	**0.87**
$\sigma_S(kw)$	0.02	0.00	0.03	**0.90**	**0.97**	**0.85**	**1.00**	0.31	**0.76**
	0.00	-0.08	-0.08	**0.94**	**0.97**	**0.90**	**1.00**	0.41	**0.78**
	0.04	-0.02	0.09	**0.85**	**0.97**	**0.71**	**1.00**	0.05	**0.70**
	-0.04	0.41	0.39	**0.95**	**0.99**	**0.88**	**1.00**	0.47	**0.95**
$\mu_S(sw)$	-0.03	-0.04	-0.06	0.38	0.26	**0.60**	0.31	**1.00**	0.47
	0.00	-0.03	-0.03	0.43	0.34	**0.63**	0.41	**1.00**	0.52
	-0.07	-0.08	-0.15	0.23	0.02	0.58	0.05	**1.00**	0.31
	0.04	0.34	0.54	0.19	0.44	**0.73**	0.47	**1.00**	0.51
$\sigma_S(sw)$	0.06	0.07	0.07	**0.64**	**0.66**	**0.68**	**0.76**	0.47	**1.00**
	0.00	0.04	0.04	**0.68**	**0.68**	**0.71**	**0.78**	0.52	**1.00**
	0.07	0.02	0.02	0.51	**0.61**	0.56	**0.70**	0.31	**1.00**
	-0.02	0.14	0.19	**0.87**	**0.92**	**0.87**	**0.95**	0.51	**1.00**

TABLE S378. Pierson correlation coefficient for the topological and textual measures. TAG: 12

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.28	0.18	-0.02	0.02	-0.00	0.05	0.09	0.13
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	**0.71**	0.19	0.09	-0.05	-0.04	-0.18	0.08	-0.33
(h.)	**1.00**	**-0.71**	**-0.67**	-0.06	-0.10	0.14	-0.04	0.45	0.35
d	0.28	**1.00**	**0.94**	-0.02	0.01	-0.00	0.04	0.06	0.11
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.71	**1.00**	0.54	-0.04	-0.10	-0.07	-0.10	0.05	-0.03
	-0.71	**1.00**	**0.92**	-0.27	-0.21	-0.33	-0.28	-0.18	-0.35
s	0.18	**0.94**	**1.00**	-0.02	0.01	-0.00	0.03	0.04	0.08
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.19	0.54	**1.00**	-0.16	-0.10	-0.08	-0.06	0.12	0.35
	-0.67	**0.92**	**1.00**	-0.28	-0.12	-0.40	-0.26	-0.23	-0.39
$\mu_S(p)$	-0.02	-0.02	-0.02	**1.00**	0.27	**0.87**	0.22	0.09	-0.04
	0.00	0.00	0.00	**1.00**	0.26	**0.87**	0.22	0.10	-0.03
	0.09	-0.04	-0.16	**1.00**	**0.87**	**0.78**	**0.78**	-0.17	0.06
	-0.06	-0.27	-0.28	**1.00**	**0.79**	**0.85**	**0.87**	-0.00	0.44
$\sigma_S(p)$	0.02	0.01	0.01	0.27	**1.00**	0.25	**0.89**	0.06	0.21
	0.00	0.00	0.00	0.26	**1.00**	0.25	**0.89**	0.06	0.20
	-0.05	-0.10	-0.10	**0.87**	**1.00**	**0.78**	**0.95**	-0.12	0.28
	-0.10	-0.21	-0.12	**0.79**	**1.00**	0.52	**0.90**	-0.05	0.30
$\mu_S(kw)$	-0.00	-0.00	-0.00	**0.87**	0.25	**1.00**	0.29	0.18	0.03
	0.00	0.00	0.00	**0.87**	0.25	**1.00**	0.29	0.18	0.02
	-0.04	-0.07	-0.08	**0.78**	**0.78**	**1.00**	**0.81**	0.30	0.38
	0.14	-0.33	-0.40	**0.85**	0.52	**1.00**	**0.74**	0.44	**0.75**
$\sigma_S(kw)$	0.05	0.04	0.03	0.22	**0.89**	0.29	**1.00**	0.15	0.35
	0.00	0.00	0.00	0.22	**0.89**	0.29	**1.00**	0.14	0.33
	-0.18	-0.10	-0.06	**0.78**	**0.95**	**0.81**	**1.00**	-0.02	0.46
	-0.04	-0.28	-0.26	**0.87**	**0.90**	**0.74**	**1.00**	0.14	0.54
$\mu_S(sw)$	0.09	0.06	0.04	0.09	0.06	0.18	0.15	**1.00**	0.51
	0.00	0.00	0.00	0.10	0.06	0.18	0.14	**1.00**	0.50
	0.08	0.05	0.12	-0.17	-0.12	0.30	-0.02	**1.00**	0.47
	0.45	-0.18	-0.23	-0.00	-0.05	0.44	0.14	**1.00**	**0.86**
$\sigma_S(sw)$	0.13	0.11	0.08	-0.04	0.21	0.03	0.35	0.51	**1.00**
	0.00	0.00	0.00	-0.03	0.20	0.02	0.33	0.50	**1.00**
	-0.33	-0.03	0.35	0.06	0.28	0.38	0.46	0.47	**1.00**
	0.35	-0.35	-0.39	0.44	0.30	**0.75**	0.54	**0.86**	**1.00**

TABLE S379. Pierson correlation coefficient for the topological and textual measures. TAG: 13

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.18	0.18	-0.03	-0.02	-0.02	0.01	0.02	0.09
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	0.21	0.22	-0.04	-0.01	-0.02	0.02	-0.00	0.12
(h.)	**1.00**	-0.23	-0.19	-0.45	-0.34	-0.29	-0.33	-0.32	-0.38
d	0.18	**1.00**	**0.99**	-0.03	0.02	-0.01	0.09	0.16	0.27
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.21	**1.00**	**0.97**	0.08	0.23	0.07	0.19	0.10	0.30
	-0.23	**1.00**	**0.99**	0.29	0.11	-0.04	-0.02	-0.09	-0.02
s	0.18	**0.99**	**1.00**	-0.03	0.02	-0.01	0.09	0.15	0.26
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.22	**0.97**	**1.00**	0.08	0.23	0.07	0.19	0.09	0.30
	-0.19	**0.99**	**1.00**	0.26	0.07	-0.05	-0.03	-0.11	-0.03
$\mu_S(p)$	-0.03	-0.03	-0.03	**1.00**	0.44	**0.97**	0.41	0.33	0.02
	0.00	0.00	0.00	**1.00**	0.40	**0.98**	0.39	0.45	-0.02
	-0.04	0.08	0.08	**1.00**	**0.88**	**0.86**	**0.85**	0.23	0.25
	-0.45	0.29	0.26	**1.00**	**0.93**	**0.89**	**0.88**	**0.89**	**0.89**
$\sigma_S(p)$	-0.02	0.02	0.02	0.44	**1.00**	0.41	**0.91**	0.08	0.27
	0.00	0.00	0.00	0.40	**1.00**	0.35	**0.96**	0.03	0.23
	-0.01	0.23	0.23	**0.88**	**1.00**	**0.74**	**0.91**	0.17	0.45
	-0.34	0.11	0.07	**0.93**	**1.00**	**0.79**	**0.78**	**0.80**	**0.78**
$\mu_S(kw)$	-0.02	-0.01	-0.01	**0.97**	0.41	**1.00**	0.44	0.48	0.12
	0.00	0.00	0.00	**0.98**	0.35	**1.00**	0.36	0.54	0.03
	-0.02	0.07	0.07	**0.86**	**0.74**	**1.00**	**0.84**	0.58	0.39
	-0.29	-0.04	-0.05	**0.89**	**0.79**	**1.00**	**0.98**	**0.99**	**0.99**
$\sigma_S(kw)$	0.01	0.09	0.09	0.41	**0.91**	0.44	**1.00**	0.24	0.51
	0.00	0.00	0.00	0.39	**0.96**	0.36	**1.00**	0.13	0.41
	0.02	0.19	0.19	**0.85**	**0.91**	**0.84**	**1.00**	0.29	0.57
	-0.33	-0.02	-0.03	**0.88**	**0.78**	**0.98**	**1.00**	**0.98**	**1.00**
$\mu_S(sw)$	0.02	0.16	0.15	0.33	0.08	0.48	0.24	**1.00**	0.57
	0.00	0.00	0.00	0.45	0.03	0.54	0.13	**1.00**	0.58
	-0.00	0.10	0.09	0.23	0.17	0.58	0.29	**1.00**	0.48
	-0.32	-0.09	-0.11	**0.89**	**0.80**	**0.99**	**0.98**	**1.00**	**0.98**
$\sigma_S(sw)$	0.09	0.27	0.26	0.02	0.27	0.12	0.51	0.57	**1.00**
	0.00	0.00	0.00	-0.02	0.23	0.03	0.41	0.58	**1.00**
	0.12	0.30	0.30	0.25	0.45	0.39	0.57	0.48	**1.00**
	-0.38	-0.02	-0.03	**0.89**	**0.78**	**0.99**	**1.00**	**0.98**	**1.00**

TABLE S380. Pierson correlation coefficient for the topological and textual measures. TAG: 15

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.20	0.18	-0.08	-0.04	-0.08	-0.05	-0.01	0.04
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	0.36	0.33	-0.02	0.00	-0.04	-0.02	-0.05	0.05
(h.)	**1.00**	-0.30	-0.06	-0.36	-0.37	0.16	-0.19	0.35	-0.03
d	0.20	**1.00**	**0.93**	-0.10	-0.05	-0.10	-0.05	0.01	0.06
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.36	**1.00**	**0.76**	-0.10	-0.07	-0.10	-0.09	0.07	0.09
	-0.30	**1.00**	**0.87**	0.06	0.50	0.41	0.42	0.34	0.17
s	0.18	**0.93**	**1.00**	-0.08	-0.03	-0.07	-0.04	0.02	0.06
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.33	**0.76**	**1.00**	-0.03	0.01	-0.03	-0.02	0.11	0.10
	-0.06	**0.87**	**1.00**	-0.08	0.38	0.40	0.30	0.50	0.24
$\mu_S(p)$	-0.08	-0.10	-0.08	**1.00**	0.43	**0.85**	0.38	0.32	-0.06
	0.00	0.00	0.00	**1.00**	0.35	**0.83**	0.30	0.36	-0.10
	-0.02	-0.10	-0.03	**1.00**	**0.98**	**0.99**	**0.96**	0.09	0.19
	-0.36	0.06	-0.08	**1.00**	**0.73**	0.32	0.52	-0.03	0.42
$\sigma_S(p)$	-0.04	-0.05	-0.03	0.43	**1.00**	0.54	**0.98**	-0.04	0.16
	0.00	0.00	0.00	0.35	**1.00**	0.47	**0.98**	-0.07	0.15
	0.00	-0.07	0.01	**0.98**	**1.00**	**0.96**	**0.98**	0.08	0.22
	-0.37	0.50	0.38	**0.73**	**1.00**	0.57	**0.85**	0.27	**0.63**
$\mu_S(kw)$	-0.08	-0.10	-0.07	**0.85**	0.54	**1.00**	0.51	0.42	0.04
	0.00	0.00	0.00	**0.83**	0.47	**1.00**	0.44	0.47	0.00
	-0.04	-0.10	-0.03	**0.99**	**0.96**	**1.00**	**0.97**	0.20	0.26
	0.16	0.41	0.40	0.32	0.57	**1.00**	**0.71**	**0.86**	**0.60**
$\sigma_S(kw)$	-0.05	-0.05	-0.04	0.38	**0.98**	0.51	**1.00**	-0.02	0.22
	0.00	0.00	0.00	0.30	**0.98**	0.44	**1.00**	-0.05	0.20
	-0.02	-0.09	-0.02	**0.96**	**0.98**	**0.97**	**1.00**	0.11	0.34
	-0.19	0.42	0.30	0.52	**0.85**	**0.71**	**1.00**	0.45	**0.72**
$\mu_S(sw)$	-0.01	0.01	0.02	0.32	-0.04	0.42	-0.02	**1.00**	0.38
	0.00	0.00	0.00	0.36	-0.07	0.47	-0.05	**1.00**	0.36
	-0.05	0.07	0.11	0.09	0.08	0.20	0.11	**1.00**	0.44
	0.35	0.34	0.50	-0.03	0.27	**0.86**	0.45	**1.00**	**0.63**
$\sigma_S(sw)$	0.04	0.06	0.06	-0.06	0.16	0.04	0.22	0.38	**1.00**
	0.00	0.00	0.00	-0.10	0.15	0.00	0.20	0.36	**1.00**
	0.05	0.09	0.10	0.19	0.22	0.26	0.34	0.44	**1.00**
	-0.03	0.17	0.24	0.42	**0.63**	**0.60**	**0.72**	**0.63**	**1.00**

TABLE S381. Pierson correlation coefficient for the topological and textual measures. TAG: 16

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	-0.05	-0.07	-0.11	-0.06	-0.07	-0.07	-0.02	-0.08
(p.)	**1.00**	0.41	0.18	-0.16	-0.17	-0.11	-0.15	-0.06	-0.08
(i.)	**1.00**	-0.43	-0.34	-0.16	-0.12	-0.15	-0.19	-0.06	-0.42
(h.)	**1.00**	-0.56	-0.46	0.13	0.17	-0.23	0.08	-0.35	-0.22
d	-0.05	**1.00**	**0.94**	0.08	0.20	0.18	0.24	0.25	0.38
	0.41	**1.00**	**0.80**	-0.07	0.03	-0.04	0.03	0.03	0.10
	-0.43	**1.00**	**0.84**	0.18	0.17	0.11	0.16	-0.06	0.33
	-0.56	**1.00**	**0.89**	-0.05	-0.03	0.08	0.02	0.12	0.12
s	-0.07	**0.94**	**1.00**	0.08	0.19	0.15	0.22	0.20	0.32
	0.18	**0.80**	**1.00**	-0.03	0.06	-0.00	0.08	0.06	0.14
	-0.34	**0.84**	**1.00**	0.21	0.21	0.23	0.23	0.09	0.43
	-0.46	**0.89**	**1.00**	-0.04	-0.01	-0.02	0.02	-0.03	-0.03
$\mu_S(p)$	-0.11	0.08	0.08	**1.00**	**0.87**	**0.82**	**0.88**	0.14	0.33
	-0.16	-0.07	-0.03	**1.00**	**0.94**	**0.87**	**0.90**	0.24	0.41
	-0.16	0.18	0.21	**1.00**	**0.97**	**0.83**	**0.92**	0.00	0.27
	0.13	-0.05	-0.04	**1.00**	**0.93**	0.59	**0.96**	-0.05	0.22
$\sigma_S(p)$	-0.06	0.20	0.19	**0.87**	**1.00**	**0.62**	**0.92**	0.05	0.30
	-0.17	0.03	0.06	**0.94**	**1.00**	**0.76**	**0.94**	0.15	0.45
	-0.12	0.17	0.21	**0.97**	**1.00**	**0.76**	**0.89**	-0.06	0.20
	0.17	-0.03	-0.01	**0.93**	**1.00**	0.33	**0.98**	-0.27	0.00
$\mu_S(kw)$	-0.07	0.18	0.15	**0.82**	**0.62**	**1.00**	**0.76**	0.60	0.56
	-0.11	-0.04	-0.00	**0.87**	**0.76**	**1.00**	**0.80**	0.57	0.45
	-0.15	0.11	0.23	**0.83**	**0.76**	**1.00**	**0.87**	0.50	0.56
	-0.23	0.08	-0.02	0.59	0.33	**1.00**	0.48	**0.74**	**0.79**
$\sigma_S(kw)$	-0.07	0.24	0.22	**0.88**	**0.92**	**0.76**	**1.00**	0.20	0.52
	-0.15	0.03	0.08	**0.90**	**0.94**	**0.80**	**1.00**	0.20	0.59
	-0.19	0.16	0.23	**0.92**	**0.89**	**0.87**	**1.00**	0.11	0.45
	0.08	0.02	0.02	**0.96**	**0.98**	0.48	**1.00**	-0.13	0.15
$\mu_S(sw)$	-0.02	0.25	0.20	0.14	0.05	0.60	0.20	**1.00**	**0.63**
	-0.06	0.03	0.06	0.24	0.15	0.57	0.20	**1.00**	0.42
	-0.06	-0.06	0.09	0.00	-0.06	0.50	0.11	**1.00**	**0.62**
	-0.35	0.12	-0.03	-0.05	-0.27	**0.74**	-0.13	**1.00**	**0.86**
$\sigma_S(sw)$	-0.08	0.38	0.32	0.33	0.30	0.56	0.52	**0.63**	**1.00**
	-0.08	0.10	0.14	0.41	0.45	0.45	0.59	0.42	**1.00**
	-0.42	0.33	0.43	0.27	0.20	0.56	0.45	**0.62**	**1.00**
	-0.22	0.12	-0.03	0.22	0.00	**0.79**	0.15	**0.86**	**1.00**

TABLE S382. Pierson correlation coefficient for the topological and textual measures. TAG: 17

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.15	0.05	-0.23	-0.04	-0.19	-0.02	0.18	0.26
(p.)	**1.00**	0.46	0.35	-0.15	-0.07	-0.08	-0.02	0.36	0.19
(i.)	**1.00**	-0.23	-0.18	0.05	0.06	-0.01	-0.01	-0.12	-0.15
(h.)	**1.00**	**-0.73**	-0.58	**-0.67**	**-0.62**	**-0.73**	**-0.74**	**-0.72**	**-0.79**
d	0.15	**1.00**	**0.95**	-0.18	-0.01	-0.16	-0.01	-0.01	0.21
	0.46	**1.00**	**0.91**	-0.44	-0.18	-0.38	-0.12	0.07	0.27
	-0.23	**1.00**	**0.87**	0.14	0.18	0.07	0.19	-0.03	0.08
	-0.73	**1.00**	**0.95**	0.38	0.49	0.23	0.40	0.24	0.40
s	0.05	**0.95**	**1.00**	-0.12	-0.01	-0.11	-0.01	-0.02	0.14
	0.35	**0.91**	**1.00**	-0.39	-0.16	-0.33	-0.10	0.05	0.23
	-0.18	**0.87**	**1.00**	-0.01	0.05	-0.08	0.09	-0.15	0.01
	-0.58	**0.95**	**1.00**	0.16	0.26	0.03	0.16	0.07	0.19
$\mu_S(p)$	-0.23	-0.18	-0.12	**1.00**	0.50	**0.98**	0.47	0.50	-0.14
	-0.15	-0.44	-0.39	**1.00**	0.51	**0.98**	0.48	0.52	-0.08
	0.05	0.14	-0.01	**1.00**	**0.98**	**0.70**	**0.67**	-0.04	-0.08
	-0.67	0.38	0.16	**1.00**	**0.96**	**0.83**	**0.98**	**0.76**	**0.97**
$\sigma_S(p)$	-0.04	-0.01	-0.01	0.50	**1.00**	0.44	**0.97**	0.16	0.26
	-0.07	-0.18	-0.16	0.51	**1.00**	0.46	**0.99**	0.17	0.31
	0.06	0.18	0.05	**0.98**	**1.00**	**0.68**	**0.75**	-0.10	-0.06
	-0.62	0.49	0.26	**0.96**	**1.00**	**0.69**	**0.91**	**0.61**	**0.87**
$\mu_S(kw)$	-0.19	-0.16	-0.11	**0.98**	0.44	**1.00**	0.43	**0.62**	-0.08
	-0.08	-0.38	-0.33	**0.98**	0.46	**1.00**	0.44	**0.64**	-0.02
	-0.01	0.07	-0.08	**0.70**	**0.68**	**1.00**	**0.73**	0.56	0.27
	-0.73	0.23	0.03	**0.83**	**0.69**	**1.00**	**0.91**	**0.99**	**0.93**
$\sigma_S(kw)$	-0.02	-0.01	-0.01	0.47	**0.97**	0.43	**1.00**	0.21	0.40
	-0.02	-0.12	-0.10	0.48	**0.99**	0.44	**1.00**	0.21	0.43
	-0.01	0.19	0.09	**0.67**	**0.75**	**0.73**	**1.00**	0.15	0.43
	-0.74	0.40	0.16	**0.98**	**0.91**	**0.91**	**1.00**	**0.85**	**0.99**
$\mu_S(sw)$	0.18	-0.01	-0.02	0.50	0.16	**0.62**	0.21	**1.00**	0.34
	0.36	0.07	0.05	0.52	0.17	**0.64**	0.21	**1.00**	0.35
	-0.12	-0.03	-0.15	-0.04	-0.10	0.56	0.15	**1.00**	0.51
	-0.72	0.24	0.07	**0.76**	**0.61**	**0.99**	**0.85**	**1.00**	**0.88**
$\sigma_S(sw)$	0.26	0.21	0.14	-0.14	0.26	-0.08	0.40	0.34	**1.00**
	0.19	0.27	0.23	-0.08	0.31	-0.02	0.43	0.35	**1.00**
	-0.15	0.08	0.01	-0.08	-0.06	0.27	0.43	0.51	**1.00**
	-0.79	0.40	0.19	**0.97**	**0.87**	**0.93**	**0.99**	**0.88**	**1.00**

TABLE S383. Pierson correlation coefficient for the topological and textual measures. TAG: 18

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.13	0.08	-0.16	-0.13	-0.11	-0.08	0.15	0.08
(p.)	**1.00**	0.29	0.21	-0.08	-0.07	-0.06	-0.06	0.04	0.01
(i.)	**1.00**	-0.31	-0.17	-0.30	-0.28	-0.32	-0.32	0.06	-0.07
(h.)	**1.00**	-0.33	-0.23	-0.35	-0.38	-0.39	-0.34	-0.42	-0.40
d	0.13	**1.00**	**0.96**	-0.15	-0.10	-0.09	0.00	0.12	0.20
	0.29	**1.00**	**0.88**	-0.31	-0.30	-0.25	-0.29	0.10	-0.18
	-0.31	**1.00**	**0.93**	0.01	0.13	-0.07	0.21	-0.08	0.03
	-0.33	**1.00**	**0.72**	-0.39	-0.35	-0.37	-0.42	-0.27	-0.39
s	0.08	**0.96**	**1.00**	-0.12	-0.08	-0.08	-0.00	0.10	0.18
	0.21	**0.88**	**1.00**	-0.24	-0.26	-0.20	-0.27	0.05	-0.14
	-0.17	**0.93**	**1.00**	0.01	0.20	-0.10	0.22	-0.09	0.07
	-0.23	**0.72**	**1.00**	-0.48	-0.41	-0.26	-0.44	-0.13	-0.35
$\mu_S(p)$	-0.16	-0.15	-0.12	**1.00**	**0.93**	**0.77**	**0.80**	0.24	0.42
	-0.08	-0.31	-0.24	**1.00**	**0.93**	**0.78**	**0.84**	0.38	**0.69**
	-0.30	0.01	0.01	**1.00**	**0.80**	**0.61**	0.51	-0.12	-0.07
	-0.35	-0.39	-0.48	**1.00**	**0.96**	**0.91**	**0.96**	**0.84**	**0.92**
$\sigma_S(p)$	-0.13	-0.10	-0.08	**0.93**	**1.00**	0.57	**0.74**	0.29	0.54
	-0.07	-0.30	-0.26	**0.93**	**1.00**	0.58	**0.76**	0.42	**0.81**
	-0.28	0.13	0.20	**0.80**	**1.00**	0.47	**0.71**	-0.16	0.08
	-0.38	-0.35	-0.41	**0.96**	**1.00**	**0.85**	**0.91**	**0.77**	**0.84**
$\mu_S(kw)$	-0.11	-0.09	-0.08	**0.77**	0.57	**1.00**	**0.87**	0.41	0.37
	-0.06	-0.25	-0.20	**0.78**	0.58	**1.00**	**0.89**	0.45	0.43
	-0.32	-0.07	-0.10	**0.61**	0.47	**1.00**	**0.68**	0.52	0.43
	-0.39	-0.37	-0.26	**0.91**	**0.85**	**1.00**	**0.95**	**0.98**	**0.98**
$\sigma_S(kw)$	-0.08	0.00	-0.00	**0.80**	**0.74**	**0.87**	**1.00**	0.37	**0.60**
	-0.06	-0.29	-0.27	**0.84**	**0.76**	**0.89**	**1.00**	0.39	**0.68**
	-0.32	0.21	0.22	0.51	**0.71**	**0.68**	**1.00**	0.26	0.57
	-0.34	-0.42	-0.44	**0.96**	**0.91**	**0.95**	**1.00**	**0.90**	**0.96**
$\mu_S(sw)$	0.15	0.12	0.10	0.24	0.29	0.41	0.37	**1.00**	**0.66**
	0.04	0.10	0.05	0.38	0.42	0.45	0.39	**1.00**	0.56
	0.06	-0.08	-0.09	-0.12	-0.16	0.52	0.26	**1.00**	**0.65**
	-0.42	-0.27	-0.13	**0.84**	**0.77**	**0.98**	**0.90**	**1.00**	**0.96**
$\sigma_S(sw)$	0.08	0.20	0.18	0.42	0.54	0.37	**0.60**	**0.66**	**1.00**
	0.01	-0.18	-0.14	**0.69**	**0.81**	0.43	**0.68**	0.56	**1.00**
	-0.07	0.03	0.07	-0.07	0.08	0.43	0.57	**0.65**	**1.00**
	-0.40	-0.39	-0.35	**0.92**	**0.84**	**0.98**	**0.96**	**0.96**	**1.00**

TABLE S384. Pierson correlation coefficient for the topological and textual measures. TAG: 19

2. Snapshots of 2000 messages

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.05	0.01	-0.03	-0.04	-0.04	-0.01	-0.03	0.00
(p.)	**1.00**	0.50	0.52	0.02	-0.04	-0.07	0.00	-0.11	-0.05
(i.)	**1.00**	-0.28	-0.19	-0.22	-0.22	-0.23	-0.22	-0.16	-0.21
(h.)	**1.00**	-0.45	-0.05	0.31	0.43	-0.28	0.11	-0.36	-0.26
d	0.05	**1.00**	**0.92**	-0.02	-0.01	0.09	0.04	0.18	0.12
	0.50	**1.00**	**0.84**	0.06	0.00	0.03	0.12	0.06	0.07
	-0.28	**1.00**	**0.91**	-0.16	-0.16	-0.02	-0.11	0.11	-0.08
	-0.45	**1.00**	**0.86**	0.06	-0.13	0.39	0.15	0.33	0.26
s	0.01	**0.92**	**1.00**	-0.01	-0.02	0.08	0.03	0.15	0.10
	0.52	**0.84**	**1.00**	0.02	0.02	-0.01	0.11	0.01	0.05
	-0.19	**0.91**	**1.00**	-0.17	-0.17	-0.04	-0.13	0.04	-0.10
	-0.05	**0.86**	**1.00**	0.41	0.15	0.56	0.38	0.45	0.45
$\mu_S(p)$	-0.03	-0.02	-0.01	**1.00**	**0.90**	**0.68**	**0.79**	0.34	**0.67**
	0.02	0.06	0.02	**1.00**	**0.65**	0.50	0.24	0.30	0.16
	-0.22	-0.16	-0.17	**1.00**	**0.96**	**0.83**	**0.87**	0.42	**0.80**
	0.31	0.06	0.41	**1.00**	**0.75**	0.54	0.59	0.41	0.59
$\sigma_S(p)$	-0.04	-0.01	-0.02	**0.90**	**1.00**	0.59	**0.94**	0.26	**0.80**
	-0.04	0.00	0.02	**0.65**	**1.00**	0.19	0.47	0.06	0.23
	-0.22	-0.16	-0.17	**0.96**	**1.00**	**0.82**	**0.96**	0.41	**0.89**
	0.43	-0.13	0.15	**0.75**	**1.00**	0.13	**0.77**	-0.09	0.18
$\mu_S(kw)$	-0.04	0.09	0.08	**0.68**	0.59	**1.00**	**0.66**	**0.84**	**0.72**
	-0.07	0.03	-0.01	0.50	0.19	**1.00**	0.43	**0.87**	0.42
	-0.23	-0.02	-0.04	**0.83**	**0.82**	**1.00**	**0.86**	**0.83**	**0.92**
	-0.28	0.39	0.56	0.54	0.13	**1.00**	0.55	**0.96**	**0.98**
$\sigma_S(kw)$	-0.01	0.04	0.03	**0.79**	**0.94**	**0.66**	**1.00**	0.39	**0.92**
	0.00	0.12	0.11	0.24	0.47	0.43	**1.00**	0.44	**0.84**
	-0.22	-0.11	-0.13	**0.87**	**0.96**	**0.86**	**1.00**	0.51	**0.97**
	0.11	0.15	0.38	0.59	**0.77**	0.55	**1.00**	0.32	0.56
$\mu_S(sw)$	-0.03	0.18	0.15	0.34	0.26	**0.84**	0.39	**1.00**	**0.61**
	-0.11	0.06	0.01	0.30	0.06	**0.87**	0.44	**1.00**	**0.62**
	-0.16	0.11	0.04	0.42	0.41	**0.83**	0.51	**1.00**	**0.68**
	-0.36	0.33	0.45	0.41	-0.09	**0.96**	0.32	**1.00**	**0.95**
$\sigma_S(sw)$	0.00	0.12	0.10	**0.67**	**0.80**	**0.72**	**0.92**	**0.61**	**1.00**
	-0.05	0.07	0.05	0.16	0.23	0.42	**0.84**	**0.62**	**1.00**
	-0.21	-0.08	-0.10	**0.80**	**0.89**	**0.92**	**0.97**	**0.68**	**1.00**
	-0.26	0.26	0.45	0.59	0.18	**0.98**	0.56	**0.95**	**1.00**

TABLE S385. Pierson correlation coefficient for the topological and textual measures. TAG: 0

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.13	0.11	-0.05	0.01	-0.05	-0.01	-0.05	-0.05
(p.)	**1.00**	0.31	0.29	-0.13	-0.12	-0.15	-0.12	-0.15	-0.12
(i.)	**1.00**	-0.09	-0.04	-0.04	-0.04	-0.06	-0.07	-0.10	-0.09
(h.)	**1.00**	-0.47	-0.35	0.46	**0.60**	0.23	0.50	-0.18	-0.23
d	0.13	**1.00**	**0.98**	0.05	0.18	0.01	0.13	0.08	0.11
	0.31	**1.00**	**0.96**	-0.01	0.03	-0.02	0.08	-0.04	-0.02
	-0.09	**1.00**	**0.95**	-0.03	0.10	-0.07	0.05	-0.06	0.04
	-0.47	**1.00**	**0.96**	-0.24	-0.22	-0.41	-0.37	-0.20	0.08
s	0.11	**0.98**	**1.00**	0.04	0.17	-0.00	0.11	0.06	0.09
	0.29	**0.96**	**1.00**	-0.02	0.02	-0.01	0.07	-0.04	-0.02
	-0.04	**0.95**	**1.00**	-0.04	0.12	-0.09	0.03	-0.08	0.01
	-0.35	**0.96**	**1.00**	-0.23	-0.18	-0.42	-0.29	-0.23	0.09
$\mu_S(p)$	-0.05	0.05	0.04	**1.00**	**0.72**	**0.77**	**0.69**	**0.64**	0.50
	-0.13	-0.01	-0.02	**1.00**	**0.66**	0.50	0.36	0.28	0.19
	-0.04	-0.03	-0.04	**1.00**	**0.83**	**0.94**	**0.87**	**0.88**	**0.79**
	0.46	-0.24	-0.23	**1.00**	**0.67**	**0.67**	**0.69**	0.18	0.14
$\sigma_S(p)$	0.01	0.18	0.17	**0.72**	**1.00**	0.56	**0.73**	0.49	0.48
	-0.12	0.03	0.02	**0.66**	**1.00**	0.38	**0.64**	0.39	0.42
	-0.04	0.10	0.12	**0.83**	**1.00**	**0.72**	**0.79**	**0.63**	**0.64**
	0.60	-0.22	-0.18	**0.67**	**1.00**	0.32	**0.81**	-0.19	-0.15
$\mu_S(kw)$	-0.05	0.01	-0.00	**0.77**	0.56	**1.00**	**0.82**	**0.80**	0.58
	-0.15	-0.02	-0.01	0.50	0.38	**1.00**	**0.61**	0.56	0.27
	-0.06	-0.07	-0.09	**0.94**	**0.72**	**1.00**	**0.92**	**0.92**	**0.83**
	0.23	-0.41	-0.42	**0.67**	0.32	**1.00**	**0.65**	0.58	0.35
$\sigma_S(kw)$	-0.01	0.13	0.11	**0.69**	**0.73**	**0.82**	**1.00**	**0.72**	**0.70**
	-0.12	0.08	0.07	0.36	**0.64**	**0.61**	**1.00**	0.56	**0.62**
	-0.07	0.05	0.03	**0.87**	**0.79**	**0.92**	**1.00**	**0.81**	**0.82**
	0.50	-0.37	-0.29	**0.69**	**0.81**	**0.65**	**1.00**	0.07	0.09
$\mu_S(sw)$	-0.05	0.08	0.06	**0.64**	0.49	**0.80**	**0.72**	**1.00**	**0.85**
	-0.15	-0.04	-0.04	0.28	0.39	0.56	0.56	**1.00**	**0.81**
	-0.10	-0.06	-0.08	**0.88**	**0.63**	**0.92**	**0.81**	**1.00**	**0.90**
	-0.18	-0.20	-0.23	0.18	-0.19	0.58	0.07	**1.00**	**0.85**
$\sigma_S(sw)$	-0.05	0.11	0.09	0.50	0.48	0.58	**0.70**	**0.85**	**1.00**
	-0.12	-0.02	-0.02	0.19	0.42	0.27	**0.62**	**0.81**	**1.00**
	-0.09	0.04	0.01	**0.79**	**0.64**	**0.83**	**0.82**	**0.90**	**1.00**
	-0.23	0.08	0.09	0.14	-0.15	0.35	0.09	**0.85**	**1.00**

TABLE S386. Pierson correlation coefficient for the topological and textual measures. TAG: 2

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	-0.04	-0.06	-0.09	-0.04	-0.05	0.03	-0.01	0.13
(p.)	**1.00**	**0.76**	0.50	-0.11	0.01	-0.08	0.07	-0.03	0.15
(i.)	**1.00**	-0.59	-0.38	-0.12	-0.35	-0.01	-0.20	-0.02	0.01
(h.)	**1.00**	**-0.91**	**-0.91**	0.30	0.34	0.40	0.06	0.30	-0.27
d	-0.04	**1.00**	**0.99**	-0.01	0.08	-0.01	0.10	-0.01	0.09
	0.76	**1.00**	**0.65**	-0.15	0.04	-0.12	0.13	-0.01	0.25
	-0.59	**1.00**	**0.69**	0.14	0.46	0.02	0.26	-0.00	-0.06
	-0.91	**1.00**	**1.00**	-0.37	-0.41	-0.22	-0.20	-0.02	0.17
s	-0.06	**0.99**	**1.00**	-0.01	0.06	-0.01	0.08	-0.01	0.08
	0.50	**0.65**	**1.00**	-0.10	0.07	-0.08	0.12	-0.01	0.23
	-0.38	**0.69**	**1.00**	0.18	0.45	0.07	0.25	0.02	0.01
	-0.91	**1.00**	**1.00**	-0.37	-0.42	-0.23	-0.21	-0.02	0.16
$\mu_S(p)$	-0.09	-0.01	-0.01	**1.00**	**0.64**	**0.79**	**0.67**	0.42	0.46
	-0.11	-0.15	-0.10	**1.00**	**0.62**	**0.73**	0.54	0.26	0.25
	-0.12	0.14	0.18	**1.00**	**0.76**	**0.93**	**0.93**	**0.82**	**0.82**
	0.30	-0.37	-0.37	**1.00**	**0.93**	**0.67**	**0.80**	-0.28	0.43
$\sigma_S(p)$	-0.04	0.08	0.06	**0.64**	**1.00**	0.36	**0.88**	0.18	0.42
	0.01	0.04	0.07	**0.62**	**1.00**	0.27	**0.85**	0.08	0.36
	-0.35	0.46	0.45	**0.76**	**1.00**	0.55	**0.87**	0.41	0.41
	0.34	-0.41	-0.42	**0.93**	**1.00**	**0.63**	**0.93**	-0.29	0.59
$\mu_S(kw)$	-0.05	-0.01	-0.01	**0.79**	0.36	**1.00**	0.51	**0.81**	0.52
	-0.08	-0.12	-0.08	**0.73**	0.27	**1.00**	0.36	**0.75**	0.29
	-0.01	0.02	0.07	**0.93**	0.55	**1.00**	**0.82**	**0.95**	**0.93**
	0.40	-0.22	-0.23	**0.67**	**0.63**	**1.00**	0.49	0.51	0.46
$\sigma_S(kw)$	0.03	0.10	0.08	**0.67**	**0.88**	0.51	**1.00**	0.39	**0.71**
	0.07	0.13	0.12	0.54	**0.85**	0.36	**1.00**	0.28	**0.70**
	-0.20	0.26	0.25	**0.93**	**0.87**	**0.82**	**1.00**	**0.70**	**0.74**
	0.06	-0.20	-0.21	**0.80**	**0.93**	0.49	**1.00**	-0.38	**0.81**
$\mu_S(sw)$	-0.01	-0.01	-0.01	0.42	0.18	**0.81**	0.39	**1.00**	**0.61**
	-0.03	-0.01	-0.01	0.26	0.08	**0.75**	0.28	**1.00**	0.46
	-0.02	-0.00	0.02	**0.82**	0.41	**0.95**	**0.70**	**1.00**	**0.95**
	0.30	-0.02	-0.02	-0.28	-0.29	0.51	-0.38	**1.00**	-0.03
$\sigma_S(sw)$	0.13	0.09	0.08	0.46	0.42	0.52	**0.71**	**0.61**	**1.00**
	0.15	0.25	0.23	0.25	0.36	0.29	**0.70**	0.46	**1.00**
	0.01	-0.06	0.01	**0.82**	0.41	**0.93**	**0.74**	**0.95**	**1.00**
	-0.27	0.17	0.16	0.43	0.59	0.46	**0.81**	-0.03	**1.00**

TABLE S387. Pierson correlation coefficient for the topological and textual measures. TAG: 3

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.06	0.03	-0.01	0.08	-0.10	0.07	-0.14	-0.09
(p.)	**1.00**	0.38	0.26	-0.01	0.05	-0.12	-0.00	-0.15	-0.13
(i.)	**1.00**	-0.03	-0.06	-0.10	0.05	-0.12	0.08	-0.15	-0.10
(h.)	**1.00**	-0.36	-0.20	0.02	-0.23	-0.18	-0.20	-0.06	-0.09
d	0.06	**1.00**	**0.96**	0.07	0.31	0.07	0.23	0.04	0.18
	0.38	**1.00**	**0.83**	0.10	0.19	-0.12	0.11	-0.28	-0.16
	-0.03	**1.00**	**0.90**	-0.09	0.19	-0.02	0.04	0.14	0.18
	-0.36	**1.00**	**0.93**	-0.21	0.05	-0.15	0.06	0.29	0.17
s	0.03	**0.96**	**1.00**	0.06	0.29	0.06	0.21	0.07	0.20
	0.26	**0.83**	**1.00**	0.11	0.18	-0.08	0.14	-0.17	-0.03
	-0.06	**0.90**	**1.00**	-0.07	0.18	0.01	0.06	0.23	0.31
	-0.20	**0.93**	**1.00**	-0.17	0.15	-0.17	0.10	0.37	0.27
$\mu_S(p)$	-0.01	0.07	0.06	**1.00**	0.55	**0.73**	0.40	0.18	0.04
	-0.01	0.10	0.11	**1.00**	0.52	0.57	0.25	0.08	-0.03
	-0.10	-0.09	-0.07	**1.00**	0.54	**0.86**	0.43	0.41	0.03
	0.02	-0.21	-0.17	**1.00**	**0.65**	0.38	0.21	-0.07	-0.08
$\sigma_S(p)$	0.08	0.31	0.29	0.55	**1.00**	0.38	**0.72**	0.09	0.26
	0.05	0.19	0.18	0.52	**1.00**	0.18	**0.67**	0.00	0.23
	0.05	0.19	0.18	0.54	**1.00**	0.52	**0.73**	0.28	0.24
	-0.23	0.05	0.15	**0.65**	**1.00**	0.01	0.39	-0.19	-0.18
$\mu_S(kw)$	-0.10	0.07	0.06	**0.73**	0.38	**1.00**	0.59	**0.64**	0.39
	-0.12	-0.12	-0.08	0.57	0.18	**1.00**	0.47	**0.73**	0.46
	-0.12	-0.02	0.01	**0.86**	0.52	**1.00**	**0.67**	**0.62**	0.29
	-0.18	-0.15	-0.17	0.38	0.01	**1.00**	**0.62**	0.55	**0.63**
$\sigma_S(kw)$	0.07	0.23	0.21	0.40	**0.72**	0.59	**1.00**	0.35	0.51
	-0.00	0.11	0.14	0.25	**0.67**	0.47	**1.00**	0.38	0.59
	0.08	0.04	0.06	0.43	**0.73**	**0.67**	**1.00**	0.47	0.45
	-0.20	0.06	0.10	0.21	0.39	**0.62**	**1.00**	0.28	0.34
$\mu_S(sw)$	-0.14	0.04	0.07	0.18	0.09	**0.64**	0.35	**1.00**	**0.80**
	-0.15	-0.28	-0.17	0.08	0.00	**0.73**	0.38	**1.00**	**0.83**
	-0.15	0.14	0.23	0.41	0.28	**0.62**	0.47	**1.00**	**0.81**
	-0.06	0.29	0.37	-0.07	-0.19	0.55	0.28	**1.00**	**0.88**
$\sigma_S(sw)$	-0.09	0.18	0.20	0.04	0.26	0.39	0.51	**0.80**	**1.00**
	-0.13	-0.16	-0.03	-0.03	0.23	0.46	0.59	**0.83**	**1.00**
	-0.10	0.18	0.31	0.03	0.24	0.29	0.45	**0.81**	**1.00**
	-0.09	0.17	0.27	-0.08	-0.18	**0.63**	0.34	**0.88**	**1.00**

TABLE S388. Pierson correlation coefficient for the topological and textual measures. TAG: 7

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.28	0.23	-0.05	0.13	0.04	0.24	0.09	0.26
(p.)	**1.00**	0.18	0.11	-0.05	0.01	-0.05	-0.00	-0.05	-0.01
(i.)	**1.00**	0.07	0.05	0.16	0.10	0.34	0.30	0.45	0.38
(h.)	**1.00**	-0.48	-0.41	-0.20	-0.13	-0.09	-0.05	0.00	-0.02
d	0.28	**1.00**	**0.98**	-0.01	0.19	0.03	0.29	0.05	0.27
	0.18	**1.00**	**0.89**	-0.19	-0.01	-0.11	0.02	-0.14	0.02
	0.07	**1.00**	**0.88**	0.20	0.21	0.19	0.30	0.16	0.25
	-0.48	**1.00**	**0.97**	0.17	0.03	-0.09	-0.02	-0.16	-0.04
s	0.23	**0.98**	**1.00**	-0.00	0.18	0.03	0.27	0.04	0.25
	0.11	**0.89**	**1.00**	-0.11	0.05	-0.09	0.07	-0.11	0.07
	0.05	**0.88**	**1.00**	0.20	0.20	0.20	0.34	0.17	0.28
	-0.41	**0.97**	**1.00**	0.12	0.04	-0.12	-0.00	-0.19	-0.07
$\mu_S(p)$	-0.05	-0.01	-0.00	**1.00**	0.39	**0.70**	0.19	0.55	0.02
	-0.05	-0.19	-0.11	**1.00**	0.35	**0.72**	0.15	0.59	0.01
	0.16	0.20	0.20	**1.00**	**0.81**	0.53	**0.67**	0.23	0.24
	-0.20	0.17	0.12	**1.00**	**0.73**	**0.62**	**0.62**	0.24	0.39
$\sigma_S(p)$	0.13	0.19	0.18	0.39	**1.00**	0.08	**0.80**	0.01	0.53
	0.01	-0.01	0.05	0.35	**1.00**	0.04	**0.82**	-0.02	**0.61**
	0.10	0.21	0.20	**0.81**	**1.00**	0.24	**0.67**	0.05	0.20
	-0.13	0.03	0.04	**0.73**	**1.00**	0.36	**0.83**	0.05	0.19
$\mu_S(kw)$	0.04	0.03	0.03	**0.70**	0.08	**1.00**	0.15	**0.94**	0.11
	-0.05	-0.11	-0.09	**0.72**	0.04	**1.00**	0.08	**0.95**	0.05
	0.34	0.19	0.20	0.53	0.24	**1.00**	0.58	**0.84**	0.46
	-0.09	-0.09	-0.12	**0.62**	0.36	**1.00**	**0.63**	**0.85**	**0.87**
$\sigma_S(kw)$	0.24	0.29	0.27	0.19	**0.80**	0.15	**1.00**	0.13	**0.86**
	-0.00	0.02	0.07	0.15	**0.82**	0.08	**1.00**	0.07	**0.90**
	0.30	0.30	0.34	**0.67**	**0.67**	0.58	**1.00**	0.40	**0.71**
	-0.05	-0.02	-0.00	**0.62**	**0.83**	**0.63**	**1.00**	0.38	0.49
$\mu_S(sw)$	0.09	0.05	0.04	0.55	0.01	**0.94**	0.13	**1.00**	0.18
	-0.05	-0.14	-0.11	0.59	-0.02	**0.95**	0.07	**1.00**	0.10
	0.45	0.16	0.17	0.23	0.05	**0.84**	0.40	**1.00**	0.59
	0.00	-0.16	-0.19	0.24	0.05	**0.85**	0.38	**1.00**	**0.91**
$\sigma_S(sw)$	0.26	0.27	0.25	0.02	0.53	0.11	**0.86**	0.18	**1.00**
	-0.01	0.02	0.07	0.01	**0.61**	0.05	**0.90**	0.10	**1.00**
	0.38	0.25	0.28	0.24	0.20	0.46	**0.71**	0.59	**1.00**
	-0.02	-0.04	-0.07	0.39	0.19	**0.87**	0.49	**0.91**	**1.00**

TABLE S389. Pierson correlation coefficient for the topological and textual measures. TAG: 8

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.11	0.11	-0.04	-0.04	-0.01	-0.04	0.16	0.19
(p.)	**1.00**	0.24	0.29	-0.04	-0.02	-0.03	-0.02	0.10	0.11
(i.)	**1.00**	-0.16	0.01	0.14	-0.15	0.10	-0.21	0.08	-0.00
(h.)	**1.00**	-0.50	-0.42	-0.19	-0.05	**0.61**	**0.63**	0.52	**0.62**
d	0.11	**1.00**	**0.98**	-0.05	-0.03	-0.04	-0.02	0.10	0.23
	0.24	**1.00**	**0.98**	-0.03	0.00	-0.09	0.00	-0.14	-0.06
	-0.16	**1.00**	**0.86**	-0.14	-0.01	-0.11	0.10	-0.01	0.31
	-0.50	**1.00**	**0.99**	-0.39	-0.26	-0.48	-0.40	**-0.60**	-0.42
s	0.11	**0.98**	**1.00**	-0.05	-0.03	-0.03	-0.02	0.09	0.20
	0.29	**0.98**	**1.00**	-0.04	-0.00	-0.08	-0.00	-0.08	-0.04
	0.01	**0.86**	**1.00**	-0.14	-0.02	-0.13	0.01	-0.01	0.20
	-0.42	**0.99**	**1.00**	-0.40	-0.29	-0.38	-0.31	-0.53	-0.34
$\mu_S(p)$	-0.04	-0.05	-0.05	**1.00**	**0.98**	**0.95**	**0.97**	-0.08	-0.08
	-0.04	-0.03	-0.04	**1.00**	**0.99**	**0.97**	**0.98**	-0.10	-0.05
	0.14	-0.14	-0.14	**1.00**	0.43	**0.74**	0.34	0.19	-0.15
	-0.19	-0.39	-0.40	**1.00**	0.48	0.51	0.42	**0.64**	0.50
$\sigma_S(p)$	-0.04	-0.03	-0.03	**0.98**	**1.00**	**0.92**	**1.00**	-0.12	-0.03
	-0.02	0.00	-0.00	**0.99**	**1.00**	**0.94**	**1.00**	-0.13	-0.01
	-0.15	-0.01	-0.02	0.43	**1.00**	0.22	**0.68**	0.01	-0.00
	-0.05	-0.26	-0.29	0.48	**1.00**	0.06	0.46	0.24	0.44
$\mu_S(kw)$	-0.01	-0.04	-0.03	**0.95**	**0.92**	**1.00**	**0.93**	0.10	0.03
	-0.03	-0.09	-0.08	**0.97**	**0.94**	**1.00**	**0.94**	0.05	0.01
	0.10	-0.11	-0.13	**0.74**	0.22	**1.00**	0.55	**0.70**	0.29
	0.61	-0.48	-0.38	0.51	0.06	**1.00**	**0.85**	**0.94**	**0.88**
$\sigma_S(kw)$	-0.04	-0.02	-0.02	**0.97**	**1.00**	**0.93**	**1.00**	-0.09	0.02
	-0.02	0.00	-0.00	**0.98**	**1.00**	**0.94**	**1.00**	-0.11	0.03
	-0.21	0.10	0.01	0.34	**0.68**	0.55	**1.00**	0.43	0.55
	0.63	-0.40	-0.31	0.42	0.46	**0.85**	**1.00**	**0.83**	**0.99**
$\mu_S(sw)$	0.16	0.10	0.09	-0.08	-0.12	0.10	-0.09	**1.00**	0.53
	0.10	-0.14	-0.08	-0.10	-0.13	0.05	-0.11	**1.00**	0.44
	0.08	-0.01	-0.01	0.19	0.01	**0.70**	0.43	**1.00**	**0.61**
	0.52	**-0.60**	-0.53	**0.64**	0.24	**0.94**	**0.83**	**1.00**	**0.86**
$\sigma_S(sw)$	0.19	0.23	0.20	-0.08	-0.03	0.03	0.02	0.53	**1.00**
	0.11	-0.06	-0.04	-0.05	-0.01	0.01	0.03	0.44	**1.00**
	-0.00	0.31	0.20	-0.15	-0.00	0.29	0.55	**0.61**	**1.00**
	0.62	-0.42	-0.34	0.50	0.44	**0.88**	**0.99**	**0.86**	**1.00**

TABLE S390. Pierson correlation coefficient for the topological and textual measures. TAG: 10

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.12	0.05	0.19	0.16	0.44	0.37	0.42	0.46
(p.)	**1.00**	**0.74**	**0.75**	0.25	0.17	0.47	0.38	0.44	0.48
(i.)	**1.00**	-0.19	-0.10	-0.32	-0.02	0.04	0.12	0.18	0.22
(h.)	**1.00**	**-0.90**	-0.21	0.06	0.15	0.19	0.32	0.07	0.32
d	0.12	**1.00**	**0.90**	0.02	0.19	0.13	0.15	0.10	0.12
	0.74	**1.00**	**0.96**	0.24	0.26	0.34	0.35	0.32	0.44
	-0.19	**1.00**	**0.81**	0.06	0.04	0.32	0.09	0.13	0.03
	-0.90	**1.00**	0.54	-0.41	-0.50	-0.28	-0.31	0.03	-0.11
s	0.05	**0.90**	**1.00**	-0.02	0.12	0.09	0.13	0.06	0.09
	0.75	**0.96**	**1.00**	0.18	0.21	0.29	0.36	0.28	0.43
	-0.10	**0.81**	**1.00**	-0.03	-0.05	0.32	0.25	0.14	0.15
	-0.21	0.54	**1.00**	-0.35	-0.40	-0.26	-0.07	-0.11	0.05
$\mu_S(p)$	0.19	0.02	-0.02	**1.00**	**0.78**	0.53	0.46	0.28	0.41
	0.25	0.24	0.18	**1.00**	**0.83**	0.58	0.53	0.34	0.47
	-0.32	0.06	-0.03	**1.00**	**0.69**	0.27	0.02	0.03	0.15
	0.06	-0.41	-0.35	**1.00**	**0.99**	0.39	0.35	-0.21	-0.28
$\sigma_S(p)$	0.16	0.19	0.12	**0.78**	**1.00**	0.40	0.56	0.18	0.38
	0.17	0.26	0.21	**0.83**	**1.00**	0.46	**0.66**	0.20	0.43
	-0.02	0.04	-0.05	**0.69**	**1.00**	0.38	0.38	0.22	0.45
	0.15	-0.50	-0.40	**0.99**	**1.00**	0.33	0.29	-0.28	-0.32
$\mu_S(kw)$	0.44	0.13	0.09	0.53	0.40	**1.00**	**0.74**	**0.91**	**0.80**
	0.47	0.34	0.29	0.58	0.46	**1.00**	**0.74**	**0.92**	**0.82**
	0.04	0.32	0.32	0.27	0.38	**1.00**	**0.73**	**0.80**	**0.67**
	0.19	-0.28	-0.26	0.39	0.33	**1.00**	**0.92**	**0.80**	**0.73**
$\sigma_S(kw)$	0.37	0.15	0.13	0.46	0.56	**0.74**	**1.00**	0.59	**0.85**
	0.38	0.35	0.36	0.53	**0.66**	**0.74**	**1.00**	0.59	**0.87**
	0.12	0.09	0.25	0.02	0.38	**0.73**	**1.00**	0.55	**0.71**
	0.32	-0.31	-0.07	0.35	0.29	**0.92**	**1.00**	**0.76**	**0.79**
$\mu_S(sw)$	0.42	0.10	0.06	0.28	0.18	**0.91**	0.59	**1.00**	**0.80**
	0.44	0.32	0.28	0.34	0.20	**0.92**	0.59	**1.00**	**0.79**
	0.18	0.13	0.14	0.03	0.22	**0.80**	0.55	**1.00**	**0.86**
	0.07	0.03	-0.11	-0.21	-0.28	**0.80**	**0.76**	**1.00**	**0.94**
$\sigma_S(sw)$	0.46	0.12	0.09	0.41	0.38	**0.80**	**0.85**	**0.80**	**1.00**
	0.48	0.44	0.43	0.47	0.43	**0.82**	**0.87**	**0.79**	**1.00**
	0.22	0.03	0.15	0.15	0.45	**0.67**	**0.71**	**0.86**	**1.00**
	0.32	-0.11	0.05	-0.28	-0.32	**0.73**	**0.79**	**0.94**	**1.00**

TABLE S391. Pierson correlation coefficient for the topological and textual measures. TAG: 11

	cc	d	s	$\mu_S(p)$	$\sigma_S(p)$	$\mu_S(kw)$	$\sigma_S(kw)$	$\mu_S(sw)$	$\sigma_S(sw)$
cc	**1.00**	0.19	0.19	0.06	0.08	-0.05	-0.00	-0.07	-0.06
(p.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i.)	**1.00**	0.28	0.25	0.06	0.11	-0.06	0.01	-0.10	-0.09
(h.)	**1.00**	-0.24	-0.16	0.12	-0.13	-0.19	-0.22	-0.21	-0.22
d	0.19	**1.00**	**0.99**	0.09	0.28	0.13	0.37	0.15	0.32
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.28	**1.00**	**0.96**	0.02	0.20	0.03	0.12	0.08	0.11
	-0.24	**1.00**	**0.98**	**0.77**	**0.96**	**0.90**	**0.96**	**0.85**	**0.93**
s	0.19	**0.99**	**1.00**	0.08	0.29	0.13	0.38	0.15	0.33
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.25	**0.96**	**1.00**	0.02	0.22	0.03	0.16	0.08	0.17
	-0.16	**0.98**	**1.00**	**0.76**	**0.97**	**0.91**	**0.96**	**0.86**	**0.93**
$\mu_S(p)$	0.06	0.09	0.08	**1.00**	**0.64**	0.57	0.50	0.13	0.15
	0.00	0.00	0.00	**1.00**	**0.74**	0.36	0.52	-0.01	0.12
	0.06	0.02	0.02	**1.00**	**0.61**	**0.66**	0.53	0.18	0.14
	0.12	**0.77**	**0.76**	**1.00**	**0.84**	**0.82**	**0.72**	**0.73**	**0.75**
$\sigma_S(p)$	0.08	0.28	0.29	**0.64**	**1.00**	0.38	**0.66**	0.09	0.31
	0.00	0.00	0.00	**0.74**	**1.00**	0.42	**0.69**	0.08	0.23
	0.11	0.20	0.22	**0.61**	**1.00**	0.30	0.56	-0.00	0.19
	-0.13	**0.96**	**0.97**	**0.84**	**1.00**	**0.94**	**0.98**	**0.90**	**0.97**
$\mu_S(kw)$	-0.05	0.13	0.13	0.57	0.38	**1.00**	**0.66**	**0.61**	0.45
	0.00	0.00	0.00	0.36	0.42	**1.00**	**0.68**	0.55	0.44
	-0.06	0.03	0.03	**0.66**	0.30	**1.00**	**0.66**	**0.63**	0.41
	-0.19	**0.90**	**0.91**	**0.82**	**0.94**	**1.00**	**0.94**	**0.99**	**0.96**
$\sigma_S(kw)$	-0.00	0.37	0.38	0.50	**0.66**	**0.66**	**1.00**	0.38	**0.73**
	0.00	0.00	0.00	0.52	**0.69**	**0.68**	**1.00**	0.42	**0.67**
	0.01	0.12	0.16	0.53	0.56	**0.66**	**1.00**	0.28	**0.68**
	-0.22	**0.96**	**0.96**	**0.72**	**0.98**	**0.94**	**1.00**	**0.92**	**0.99**
$\mu_S(sw)$	-0.07	0.15	0.15	0.13	0.09	**0.61**	0.38	**1.00**	**0.62**
	0.00	0.00	0.00	-0.01	0.08	0.55	0.42	**1.00**	**0.73**
	-0.10	0.08	0.08	0.18	-0.00	**0.63**	0.28	**1.00**	0.52
	-0.21	**0.85**	**0.86**	**0.73**	**0.90**	**0.99**	**0.92**	**1.00**	**0.96**
$\sigma_S(sw)$	-0.06	0.32	0.33	0.15	0.31	0.45	**0.73**	**0.62**	**1.00**
	0.00	0.00	0.00	0.12	0.23	0.44	**0.67**	**0.73**	**1.00**
	-0.09	0.11	0.17	0.14	0.19	0.41	**0.68**	0.52	**1.00**
	-0.22	**0.93**	**0.93**	**0.75**	**0.97**	**0.96**	**0.99**	**0.96**	**1.00**

TABLE S392. Pierson correlation coefficient for the topological and textual measures. TAG: 15

E. Formation of principal components

1. Snapshots of 1000 messages

	PC1	PC2	PC3	PC4	PC5
cc	1.51	4.22	3.79	60.58	-8.05
(p.)	-1.87	-9.12	-7.87	57.49	2.39
(i.)	5.36	-9.14	3.43	-61.05	-2.48
(h.)	-1.76	22.11	-10.33	28.35	-5.24
d	5.85	31.95	-5.60	-3.15	-3.06
	-5.48	-22.79	-10.69	-9.22	-2.45
	-6.19	28.39	-6.30	-10.40	-0.85
	-4.93	-26.62	4.50	-1.04	7.03
s	5.76	31.94	-5.62	-5.16	-2.25
	-4.94	-21.79	-11.89	-17.98	-0.34
	-5.46	27.88	-8.68	-12.71	0.57
	-9.33	-15.53	5.61	33.57	4.18
$\mu_S(p)$	15.47	-8.94	-4.94	-6.31	-22.64
	16.37	-1.31	-3.41	2.14	-24.04
	-15.40	-0.35	9.85	0.74	-23.09
	-8.92	-12.72	-23.77	4.03	-20.83
$\sigma_S(p)$	13.22	-1.81	17.64	-8.85	-19.66
	12.19	-11.61	13.99	3.92	-24.10
	-13.13	-10.60	-12.76	-1.07	-23.30
	-12.11	1.73	-22.81	-5.36	29.45
$\mu_S(kw)$	15.11	-9.18	-15.88	1.87	2.21
	15.32	6.77	-15.95	-3.82	-0.69
	-15.67	1.09	13.94	-2.91	2.80
	-15.15	6.98	14.49	3.10	8.36
$\sigma_S(kw)$	15.04	-0.81	15.76	-1.79	12.26
	15.49	-10.21	10.00	-2.19	14.06
	-13.35	-11.96	-14.22	-5.27	6.01
	-16.09	8.98	-1.66	-10.92	1.57
$\mu_S(sw)$	12.85	-8.34	-20.03	7.33	7.90
	13.42	7.51	-19.35	-2.50	4.85
	-12.23	1.97	19.62	-2.83	14.35
	-14.85	5.22	16.49	0.94	-3.51
$\sigma_S(sw)$	15.19	2.82	10.73	4.98	21.97
	14.93	-8.90	6.86	0.75	27.08
	-13.22	-8.61	-11.19	-3.02	26.55
	-16.88	0.10	-0.35	-12.70	-19.84
λ	41.88	21.15	15.77	11.16	6.23
	42.39	21.99	14.07	10.32	6.21
	41.56	21.72	16.79	9.87	6.63
	47.87	24.55	17.41	8.46	0.96

TABLE S393. PCA formation TAG: 0

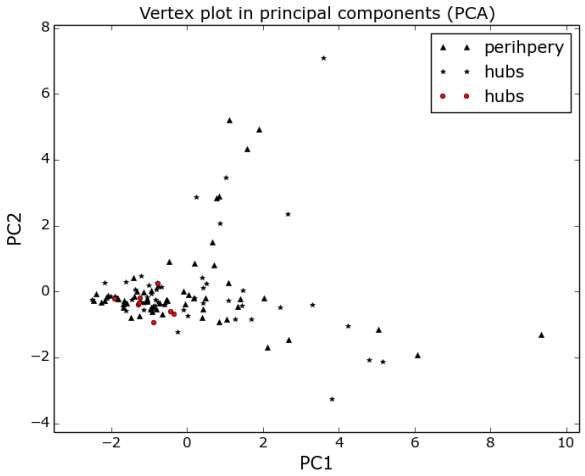

FIG. S1. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-1.58	-6.03	-5.74	-64.52	-3.98
(p.)	-0.45	-8.46	-15.92	-41.59	4.49
(i.)	-6.15	6.47	-6.78	-55.96	0.95
(h.)	6.05	-10.29	-16.04	34.91	-9.71
d	0.85	-30.37	-10.23	7.37	1.09
	-5.80	-22.48	-12.85	11.09	-2.30
	5.88	-28.73	6.62	-8.92	4.68
	-5.58	26.90	2.72	10.23	0.81
s	0.89	-30.24	-10.41	8.51	1.17
	-5.12	-23.01	-10.95	15.56	-0.23
	5.39	-28.26	9.37	-10.78	-2.33
	-6.40	26.10	0.99	12.68	3.32
$\mu_S(p)$	-18.90	4.86	-10.53	5.89	-15.89
	18.19	2.82	-8.58	8.28	13.52
	-15.70	1.45	9.54	0.36	16.40
	13.54	-3.64	14.50	12.60	17.34
$\sigma_S(p)$	-18.50	4.49	-12.01	6.42	-18.85
	18.03	3.41	-9.40	7.74	14.74
	-15.38	0.71	11.45	-2.66	-13.70
	11.61	-1.14	22.89	6.61	7.81
$\mu_S(kw)$	-20.01	0.63	0.00	-2.24	23.17
	18.83	-3.54	-1.54	-1.49	-23.75
	-16.10	-3.89	5.34	5.06	15.08
	16.19	4.76	-1.78	-4.06	-10.68
$\sigma_S(kw)$	-19.87	-0.26	-2.76	-2.00	17.69
	18.86	-2.67	-3.10	-2.76	-10.89
	-15.34	-4.82	8.77	3.89	-20.05
	13.56	10.29	8.93	-4.97	-27.59
$\mu_S(sw)$	-9.12	-10.44	25.41	-1.29	1.48
	6.35	-16.92	19.72	-5.77	-8.38
	-11.45	-12.95	-18.44	7.54	12.86
	14.24	6.07	-16.61	-5.84	9.96
$\sigma_S(sw)$	-10.28	-12.68	22.91	-1.75	-16.68
	8.38	-16.70	17.93	-5.72	21.69
	-8.62	-12.71	-23.69	4.84	-13.94
	12.84	10.81	-15.54	-8.11	12.78
λ	42.39	23.06	18.27	10.81	2.48
	43.34	24.13	17.91	9.11	2.12
	47.79	21.31	14.55	9.68	2.92
	45.64	22.96	14.83	8.60	4.17

TABLE S394. PCA formation TAG: 2

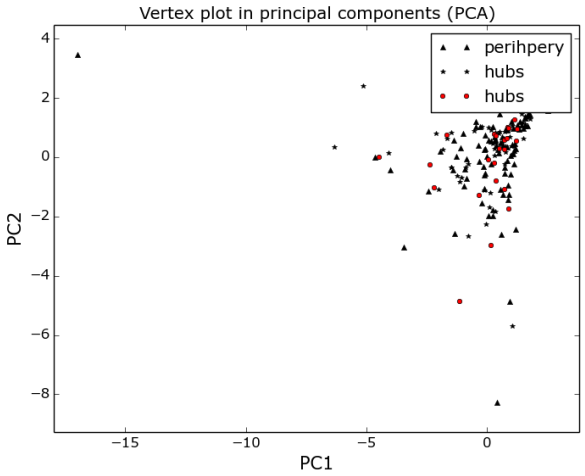

FIG. S2. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	8.27	-5.55	7.05	-53.12	-6.80
(p.)	-8.58	-17.53	2.87	33.69	-6.40
(i.)	0.65	-19.27	8.59	19.76	-25.88
(h.)	2.22	-23.23	-6.48	21.72	-21.46
d	1.44	40.14	-0.83	-3.14	-3.10
	-9.45	-19.34	5.42	-7.18	-12.30
	0.24	18.41	-13.11	-9.92	-25.70
	-8.30	22.07	-4.31	5.16	-10.92
s	1.13	40.04	-2.84	-3.83	-2.07
	-8.66	-14.36	18.45	-23.03	9.30
	-6.18	9.59	-17.81	27.39	-1.91
	-8.37	21.83	-0.58	7.99	-15.66
$\mu_S(p)$	14.14	-4.27	-16.67	5.76	-21.42
	-10.49	16.49	7.76	-2.19	-22.79
	-16.07	-10.72	-4.51	-16.23	-7.50
	13.68	4.34	16.34	17.94	6.83
$\sigma_S(p)$	14.53	-2.22	-18.76	-3.03	9.93
	-11.63	14.05	14.18	8.99	5.13
	-16.72	-9.01	-10.63	-0.14	7.41
	14.72	4.98	14.04	-0.93	-8.71
$\mu_S(kw)$	16.26	-2.22	7.13	14.95	-18.15
	-13.07	4.89	-10.48	-9.99	-10.90
	-18.02	3.75	8.82	-8.00	-13.55
	15.86	2.95	-5.59	-1.72	-4.32
$\sigma_S(kw)$	16.75	-0.29	-9.61	-1.69	18.11
	-13.54	7.85	5.87	5.72	15.98
	-18.56	-4.94	-6.98	3.99	6.70
	14.71	8.73	8.41	-9.13	-8.14
$\mu_S(sw)$	12.46	1.21	22.51	8.32	-3.39
	-11.64	-4.88	-21.72	-6.88	-1.07
	-9.10	13.38	17.52	6.70	-2.50
	12.29	-0.33	-22.79	-16.14	-8.45
$\sigma_S(sw)$	15.02	4.06	14.59	6.14	17.03
	-12.93	0.61	-13.26	2.33	16.12
	-14.47	10.93	12.02	7.86	8.85
	9.85	11.55	-21.46	19.26	15.51
λ	45.86	22.16	16.24	9.20	3.31
	54.83	17.98	10.87	5.79	4.18
	40.74	26.19	20.32	6.45	2.82
	52.53	28.56	12.49	4.31	1.69

TABLE S395. PCA formation TAG: 3

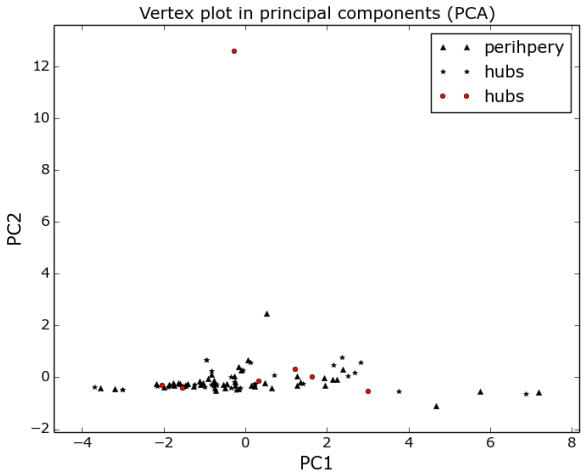

FIG. S3. First two principal components.

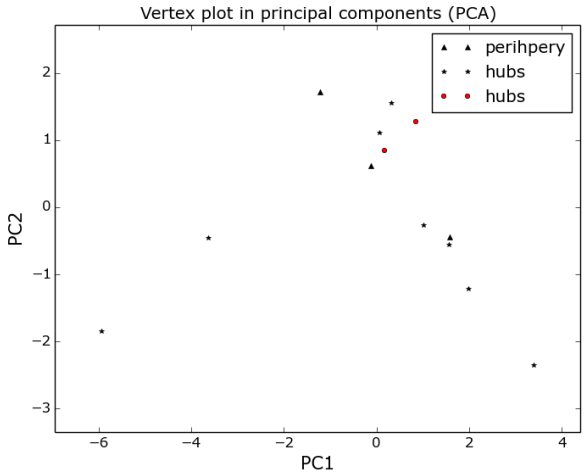

FIG. S4. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-0.41	-14.67	-0.86	66.53	-2.95
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	2.22	22.81	11.67	-34.59	9.26
(h.)	11.69	-6.64	12.91	-30.67	16.09
d	-0.63	-40.08	1.79	-11.62	-0.26
	0.00	0.00	0.00	0.00	0.00
	-0.13	31.73	0.98	6.59	-12.55
	-5.26	31.69	5.13	-1.53	3.55
s	-0.57	-39.97	1.60	-12.80	-0.02
	0.00	0.00	0.00	0.00	0.00
	-3.48	28.22	-13.52	14.88	-3.29
	-4.64	32.09	4.93	-5.84	-0.51
$\mu_S(p)$	20.52	0.16	11.41	0.05	-6.85
	20.94	11.59	-6.77	-31.95	-6.55
	-17.05	-0.47	12.98	1.26	-0.61
	13.39	6.31	-13.97	6.17	2.23
$\sigma_S(p)$	21.35	-0.67	9.48	1.62	5.80
	21.74	9.94	5.80	11.35	-36.85
	-17.35	3.25	9.15	7.33	4.47
	14.04	6.97	-5.91	-10.84	-17.57
$\mu_S(kw)$	21.74	-0.07	0.14	-1.26	-12.29
	22.15	-0.17	-12.54	-6.43	28.75
	-17.45	-4.53	4.61	-5.52	-13.10
	13.57	6.01	-5.38	14.87	25.18
$\sigma_S(kw)$	21.09	-0.75	2.61	0.78	11.54
	21.48	2.83	11.74	28.39	17.09
	-17.91	0.87	6.18	5.71	3.24
	12.70	7.78	-15.84	-7.16	-5.97
$\mu_S(sw)$	6.40	-1.18	-37.00	-3.73	-29.25
	6.41	-38.71	-30.57	8.33	-10.52
	-11.56	-5.78	-21.19	-20.11	-22.54
	12.09	2.51	19.83	13.94	5.84
$\sigma_S(sw)$	7.30	-2.45	-35.10	1.62	31.04
	7.28	-36.77	32.58	-13.55	0.23
	-12.85	2.35	-19.72	-4.01	30.94
	12.63	0.01	16.11	8.98	-23.05
λ	41.01	22.92	15.02	10.33	7.20
	61.55	22.63	10.74	3.62	1.38
	49.87	23.35	11.72	7.55	4.77
	58.00	21.48	12.13	3.94	3.37

TABLE S396. PCA formation TAG: 6

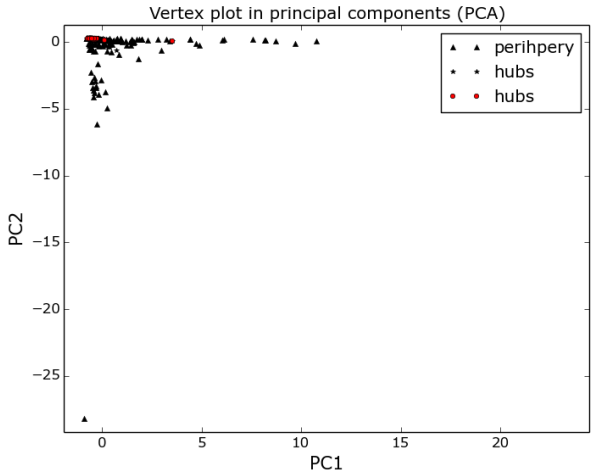

FIG. S5. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	1.38	8.28	22.03	-34.85	-7.34
(p.)	0.98	15.54	16.25	-34.28	13.46
(i.)	-3.87	-8.30	-5.30	-44.16	12.46
(h.)	1.91	-18.70	-36.15	-14.89	-3.13
d	7.60	27.64	0.37	8.18	-4.69
	2.11	30.21	0.78	11.04	-1.24
	-9.32	-25.08	-2.10	9.60	5.73
	-4.07	32.50	-8.12	2.44	-8.63
s	7.33	27.81	0.05	8.72	-4.73
	1.78	29.82	2.83	12.75	-2.18
	-8.12	-26.21	-1.60	11.90	5.19
	-3.21	31.22	-14.92	-8.38	8.76
$\mu_S(p)$	13.77	-11.55	11.02	8.91	-14.83
	-16.41	5.34	-16.52	0.53	13.90
	-13.47	12.33	-14.92	2.18	9.86
	-15.34	-4.40	-6.84	6.82	20.15
$\sigma_S(p)$	14.09	-7.08	17.62	7.56	9.66
	-16.75	7.72	-15.43	-7.59	-5.07
	-13.82	2.61	-14.78	-8.16	-19.20
	-15.13	-1.69	8.20	-16.27	8.52
$\mu_S(kw)$	14.18	-9.84	-7.39	0.81	-19.80
	-16.74	-3.52	1.15	8.14	20.08
	-12.88	15.65	0.02	10.72	17.16
	-15.52	-4.82	-3.65	11.67	10.94
$\sigma_S(kw)$	15.46	-3.20	7.02	2.83	13.61
	-17.26	2.47	-3.57	-9.48	-14.51
	-15.93	2.47	-8.56	3.04	-9.37
	-14.49	-0.82	12.87	-19.88	-3.61
$\mu_S(sw)$	11.97	-1.65	-23.81	-16.63	-5.39
	-12.54	-5.06	26.59	14.58	8.37
	-10.90	5.38	28.40	-1.98	7.23
	-14.84	-3.27	-9.24	17.85	-10.99
$\sigma_S(sw)$	14.22	2.96	-10.70	-11.49	19.94
	-15.45	-0.34	16.89	-1.60	-21.18
	-11.71	-1.97	24.33	-8.26	-13.81
	-15.49	-2.58	-0.00	-1.80	-25.28
λ	44.66	21.17	11.69	10.50	7.04
	42.35	23.55	11.78	9.40	7.50
	40.83	20.08	13.95	10.84	8.19
	58.59	22.09	10.55	5.10	2.34

TABLE S397. PCA formation TAG: 7

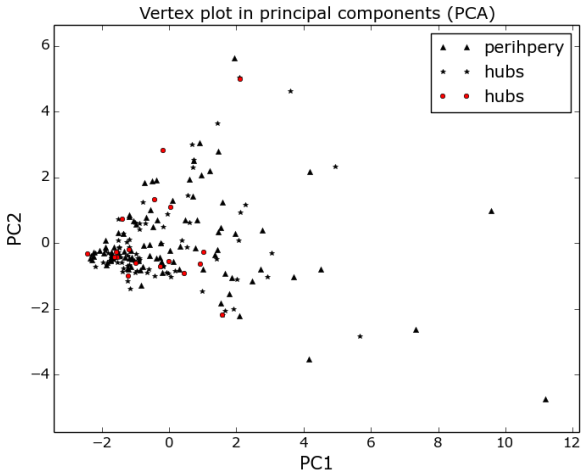

FIG. S6. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-0.20	-9.71	-19.54	41.62	7.90
(p.)	1.63	16.69	12.74	-37.49	-15.64
(i.)	-2.24	8.87	7.94	-44.48	-13.62
(h.)	-4.83	23.47	0.15	27.15	9.93
d	0.75	-27.42	11.35	2.73	-2.16
	5.98	26.52	-10.39	8.57	-0.37
	-7.93	-13.38	21.48	3.05	0.65
	-4.36	-24.13	10.02	6.90	1.32
s	0.89	-26.38	14.47	1.19	-5.40
	5.73	26.30	-11.62	8.84	-2.24
	-7.37	-13.64	21.83	-0.55	3.13
	-2.09	-24.62	6.10	18.94	10.31
$\mu_S(p)$	19.63	5.18	5.98	7.77	-6.30
	-17.37	1.97	-8.11	-7.20	6.23
	-9.53	19.84	7.10	1.17	9.96
	16.85	-7.36	-8.31	1.06	-17.54
$\sigma_S(p)$	19.67	4.06	6.39	8.31	1.52
	-17.48	1.91	-8.51	-5.14	-0.51
	-9.72	18.52	9.18	9.96	12.28
	14.54	-6.33	-16.45	0.56	10.56
$\mu_S(kw)$	20.28	1.80	-0.69	0.71	-9.72
	-17.57	5.49	-2.01	-1.71	9.18
	-17.18	-0.36	-9.88	-6.54	7.62
	17.63	1.31	9.89	-3.27	12.34
$\sigma_S(kw)$	20.33	1.98	3.45	1.05	6.42
	-17.79	3.07	-5.28	-0.39	-4.88
	-16.16	6.50	-0.87	14.96	-26.20
	17.73	1.50	-9.46	10.04	7.40
$\mu_S(sw)$	7.13	-11.19	-24.93	-15.27	-27.68
	-5.37	14.40	25.76	8.24	28.01
	-13.95	-9.90	-11.89	-15.56	16.85
	9.64	5.94	21.79	-15.54	11.21
$\sigma_S(sw)$	11.12	-12.27	-13.19	-21.35	32.90
	-11.08	3.65	15.58	22.41	-32.94
	-15.92	-8.99	-9.83	3.73	-9.69
	12.33	5.33	17.83	16.55	-19.40
λ	45.44	24.25	13.71	9.56	5.43
	48.29	23.42	11.75	9.00	6.03
	39.25	25.48	17.02	11.10	3.20
	41.85	29.10	21.15	4.17	3.08

TABLE S398. PCA formation TAG: 8

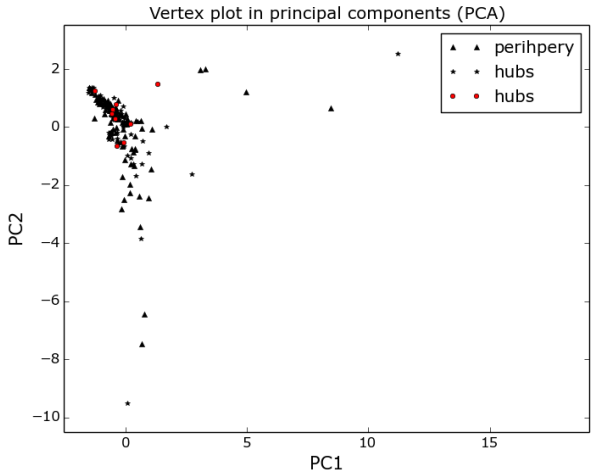

FIG. S7. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-0.04	-2.94	-3.69	-74.48	-2.31
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	5.19	-7.40	10.74	-54.00	4.03
(h.)	-3.66	18.05	-41.36	9.58	-5.69
d	-7.68	-27.48	-8.86	4.81	-3.26
	-4.95	36.43	1.34	0.88	4.98
	-2.85	36.17	0.48	-8.62	0.49
	5.90	-19.94	-19.27	-8.23	-2.43
s	-7.95	-27.19	-9.00	5.61	-3.18
	-7.17	35.09	0.53	-0.59	-2.63
	-4.74	35.50	2.05	-3.60	4.46
	6.43	-19.58	-18.87	-9.05	-2.62
$\mu_S(p)$	-13.76	13.08	-13.05	4.00	-15.66
	-14.29	-5.95	22.50	12.23	-1.53
	-16.30	-5.71	8.13	2.84	18.56
	13.34	10.01	3.80	-12.43	-27.71
$\sigma_S(p)$	-12.91	13.35	-17.55	0.87	0.38
	-13.80	-3.95	24.15	-2.54	-20.35
	-14.88	-4.87	18.51	3.40	9.50
	13.08	10.17	-0.27	-19.10	9.94
$\mu_S(kw)$	-14.91	3.44	12.93	-1.15	-20.38
	-16.42	-6.00	-9.04	21.47	18.23
	-13.89	-4.45	-20.21	-6.80	15.70
	14.63	5.68	3.78	1.63	-1.25
$\sigma_S(kw)$	-16.14	6.37	-3.32	-2.45	15.15
	-17.19	-6.79	0.92	-17.97	22.22
	-16.24	-2.00	11.54	0.65	-5.95
	14.37	6.84	-5.00	-1.25	19.63
$\mu_S(sw)$	-12.36	-4.49	23.01	-3.52	-9.20
	-11.98	-2.25	-25.65	17.04	-19.21
	-11.98	-2.46	-25.65	-14.64	-4.15
	13.94	-6.29	5.78	22.10	-16.22
$\sigma_S(sw)$	-14.24	-1.66	8.58	-3.12	30.49
	-14.20	-3.54	-15.87	-27.28	-10.86
	-13.93	-1.45	2.69	-5.46	-37.15
	14.65	-3.45	-1.87	16.63	14.50
λ	43.66	21.33	12.82	11.07	6.89
	43.64	23.03	18.03	8.54	3.51
	44.89	20.96	13.78	10.01	6.77
	61.53	31.19	4.83	2.34	0.11

TABLE S399. PCA formation TAG: 9

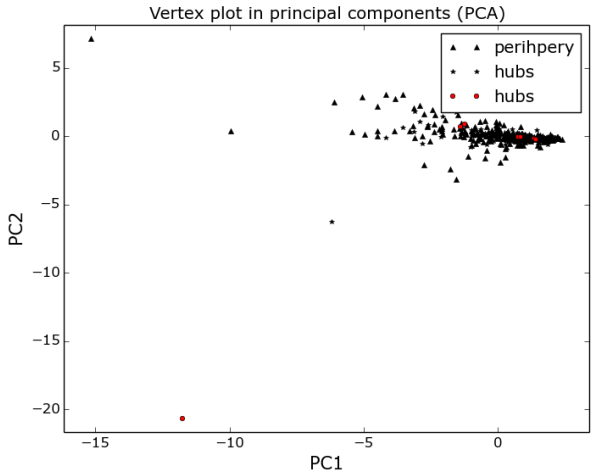

FIG. S8. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-1.28	-5.10	-17.03	-44.05	1.65
(p.)	-1.06	-21.97	-3.69	46.92	-1.51
(i.)	-0.91	5.97	-2.17	72.32	3.21
(h.)	-6.47	2.23	-9.51	-42.46	-2.68
d	-5.17	-30.00	7.45	-1.34	4.15
	-1.13	-32.03	5.93	-13.90	0.16
	-6.25	-30.14	4.37	7.21	-7.12
	11.99	-13.86	15.03	-7.58	-6.67
s	-5.14	-29.87	8.35	-0.76	2.98
	-1.07	-31.76	5.57	-16.38	0.23
	-6.71	-29.56	8.91	7.51	-4.07
	10.51	-15.09	17.56	-5.07	-4.93
$\mu_S(p)$	-14.60	11.67	13.54	-10.56	11.38
	17.39	1.65	16.12	4.92	11.47
	-9.50	16.75	21.16	1.55	-14.25
	3.33	21.22	15.90	-3.29	30.52
$\sigma_S(p)$	-13.61	2.88	9.90	-9.27	-25.45
	16.49	0.94	11.73	-1.70	-18.63
	-10.12	4.50	28.60	-0.82	12.79
	6.36	22.74	6.39	-2.31	-34.26
$\mu_S(kw)$	-16.38	9.98	6.61	-3.90	15.52
	18.68	0.43	8.59	4.41	13.32
	-16.81	7.89	-5.52	-2.03	-14.44
	14.66	5.90	-13.66	13.62	2.92
$\sigma_S(kw)$	-17.48	2.64	-2.58	3.30	-10.27
	18.97	-0.67	-2.39	0.79	-12.61
	-16.78	0.22	-2.91	-6.64	18.30
	15.77	10.58	0.67	-9.28	1.01
$\mu_S(sw)$	-13.01	-1.98	-16.08	12.95	17.00
	12.43	-5.10	-21.31	-5.85	25.16
	-16.57	3.70	-12.97	0.28	-12.49
	15.63	-3.59	-13.86	2.99	-2.85
$\sigma_S(sw)$	-13.33	-5.88	-18.46	13.89	-11.60
	12.77	-5.45	-24.68	-5.14	-16.91
	-16.35	-1.28	-13.39	-1.64	13.32
	15.29	-4.78	-7.43	-13.41	14.16
λ	41.95	22.34	13.30	10.30	7.05
	43.38	25.28	13.17	7.81	6.58
	40.09	21.59	13.13	10.97	7.83
	45.00	24.10	14.73	11.07	2.44

TABLE S400. PCA formation TAG: 10

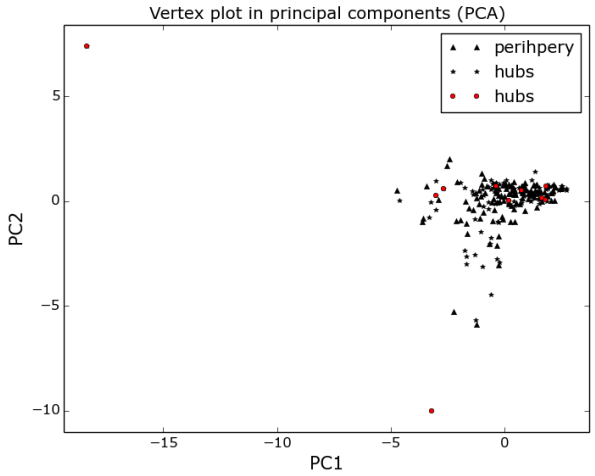

FIG. S9. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-6.30	-3.08	-14.14	45.36	-9.79
(p.)	-5.99	-19.82	3.28	-6.21	35.98
(i.)	1.52	-10.23	-22.16	-31.44	11.54
(h.)	14.03	-7.39	7.97	-22.17	-5.91
d	-8.16	27.97	-9.43	-4.07	-0.69
	-9.84	-18.09	-8.74	2.21	-21.95
	2.66	21.53	13.47	-8.95	22.83
	-14.38	3.44	13.28	17.11	-23.47
s	-6.55	29.86	-6.92	-8.13	-3.81
	-9.31	-18.73	-12.81	-2.74	-8.24
	7.90	14.25	11.66	-28.66	-20.95
	-14.08	1.77	18.72	-2.36	17.99
$\mu_S(p)$	-6.46	-16.87	-17.83	-24.25	-13.09
	-7.53	-0.73	30.61	-11.72	-7.05
	-8.61	21.92	-12.54	6.43	2.56
	14.12	8.51	3.33	-1.89	-20.74
$\sigma_S(p)$	-10.66	-10.61	-17.66	-4.79	18.81
	-11.81	-4.29	18.70	19.29	-3.27
	-6.42	18.84	-21.12	3.73	-6.68
	13.47	10.13	2.25	13.45	24.32
$\mu_S(kw)$	-15.60	-7.32	4.36	-6.44	-18.41
	-14.64	7.28	2.69	-19.43	-5.48
	18.20	-2.10	-9.30	1.70	5.30
	8.01	15.05	24.13	4.44	0.44
$\sigma_S(kw)$	-16.14	-2.01	5.55	4.69	16.47
	-14.19	9.37	-5.24	15.82	7.79
	17.23	2.38	-8.42	6.91	-16.67
	4.39	20.57	-9.08	6.08	-5.10
$\mu_S(sw)$	-14.24	0.02	15.74	1.74	-10.06
	-12.34	11.59	-13.25	-13.59	4.06
	20.15	0.42	-0.19	5.82	8.40
	-9.51	16.30	3.32	-31.30	0.73
$\sigma_S(sw)$	-15.89	-2.25	8.38	0.53	8.87
	-14.34	10.10	-4.68	9.00	6.18
	17.30	8.34	-1.14	6.36	5.07
	-8.00	16.83	-17.93	-1.20	1.30
λ	41.78	20.60	15.54	9.51	5.77
	43.49	22.83	14.53	6.28	5.34
	37.30	21.71	14.29	9.28	6.27
	56.87	33.33	7.92	1.46	0.42

TABLE S401. PCA formation TAG: 11

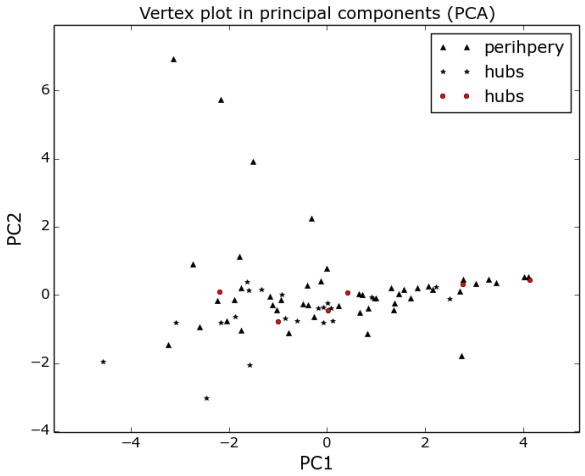

FIG. S10. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	0.41	10.01	-59.43	-10.51	-3.39
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	1.26	3.67	-13.83	-55.31	3.46
(h.)	-0.45	11.30	34.45	21.42	0.01
d	-0.17	39.18	8.70	-1.04	-1.66
	2.00	-44.07	-1.60	-2.81	-0.48
	0.59	37.67	8.96	-0.94	-5.35
	8.36	-22.74	-5.11	14.08	22.98
s	0.17	39.23	7.90	0.28	-3.26
	2.00	-44.07	-1.60	-2.81	-0.48
	2.61	38.18	4.70	0.46	2.76
	8.43	-23.48	6.32	7.30	-27.62
$\mu_S(p)$	18.42	-1.28	-1.13	7.88	-16.24
	-17.59	-0.60	-10.64	-14.75	11.77
	18.77	1.11	-1.88	1.44	20.94
	13.73	9.54	-11.00	11.24	3.66
$\sigma_S(p)$	17.97	0.60	-3.37	15.27	-4.59
	-17.11	-0.06	-17.00	-5.68	-27.94
	18.50	1.21	-12.05	8.92	2.92
	15.16	4.76	-4.81	5.56	-5.15
$\mu_S(kw)$	18.40	-1.65	2.67	-5.84	-15.54
	-17.62	-1.20	4.32	-14.92	28.23
	17.96	-3.39	12.32	-5.06	15.95
	14.68	2.62	8.88	-6.82	19.88
$\sigma_S(kw)$	18.46	1.05	-3.28	11.81	4.39
	-17.81	-1.06	-11.80	3.23	-10.00
	18.76	0.36	-11.10	7.76	-4.42
	15.29	5.29	-5.10	2.18	-6.20
$\mu_S(sw)$	10.26	-3.48	12.70	-40.11	-8.21
	-10.78	-2.28	45.22	-11.25	-14.26
	6.55	-11.95	33.44	-14.67	-0.37
	9.75	-9.04	21.79	-23.42	3.23
$\sigma_S(sw)$	15.74	3.51	-0.82	-7.26	42.73
	-15.09	-6.66	7.83	44.55	6.85
	14.99	-2.46	1.72	-5.44	-43.82
	14.15	11.22	-2.53	-7.98	-11.29
λ	50.05	22.38	10.82	9.98	4.57
	58.47	24.99	10.21	4.64	1.30
	45.33	21.60	13.10	10.87	6.46
	58.85	18.54	11.88	8.21	1.78

TABLE S402. PCA formation TAG: 12

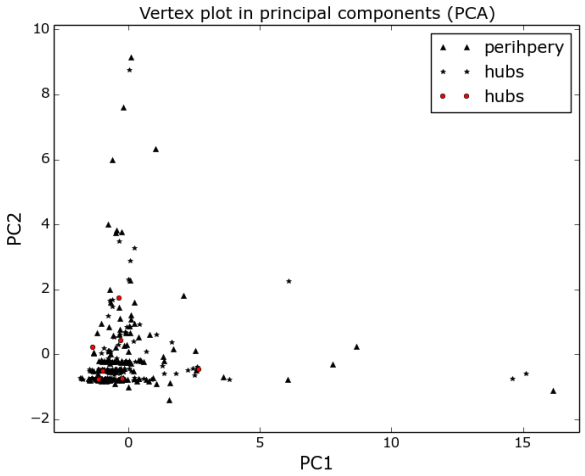

FIG. S11. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	3.34	12.56	1.32	4.32	-56.78
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	-3.79	-22.15	16.61	-15.20	5.17
(h.)	6.66	-18.34	-4.76	13.90	-28.07
d	4.53	27.01	-7.86	-3.52	7.92
	0.00	0.00	0.00	0.00	0.00
	-3.98	-27.88	8.22	3.19	13.22
	-10.37	12.52	16.79	-1.04	-10.66
s	4.15	26.25	-8.50	-4.33	14.72
	0.00	0.00	0.00	0.00	0.00
	-2.78	-22.66	-8.69	23.10	-22.04
	-10.47	12.97	14.37	10.93	-14.05
$\mu_S(p)$	14.99	-9.01	-18.71	7.40	-1.60
	-18.05	22.62	8.54	7.86	28.26
	18.63	-1.57	12.63	-1.08	-10.22
	12.98	11.98	-5.03	-11.53	-13.95
$\sigma_S(p)$	18.08	-3.90	7.71	-18.18	-1.18
	-20.80	-8.19	-20.57	-9.82	18.44
	20.36	-1.00	6.19	4.40	3.37
	10.81	13.68	-7.20	23.33	1.77
$\mu_S(kw)$	16.18	-8.11	-16.85	9.43	-0.92
	-19.19	20.31	10.66	4.35	-28.65
	19.40	-4.80	-2.04	-11.08	-11.48
	14.40	4.45	6.86	-20.68	-11.00
$\sigma_S(kw)$	19.12	-2.31	9.96	-14.74	-0.37
	-21.70	-11.12	-16.84	-3.74	-18.65
	20.62	-1.44	0.09	6.15	9.57
	13.50	11.53	-2.12	10.34	6.55
$\mu_S(sw)$	9.20	4.15	10.91	24.44	9.74
	-9.71	-14.37	27.63	-35.69	2.93
	1.24	-10.63	-20.95	-27.90	-6.82
	7.77	-10.31	24.64	7.79	3.91
$\sigma_S(sw)$	10.41	6.69	18.18	13.63	6.77
	-10.55	-23.38	15.77	38.54	3.07
	9.19	-7.88	-24.57	7.91	18.11
	13.05	-4.23	18.22	0.47	10.04
λ	28.36	23.12	16.90	13.82	9.81
	42.13	25.76	20.86	7.52	2.55
	40.76	22.19	18.79	10.45	3.29
	48.30	26.62	15.70	4.83	2.73

TABLE S403. PCA formation TAG: 13

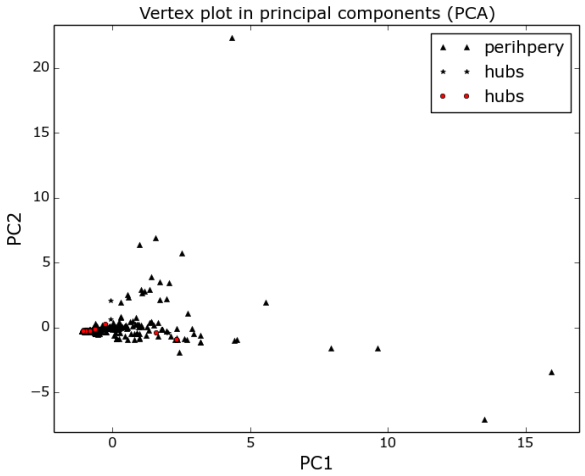

FIG. S12. First two principal components.

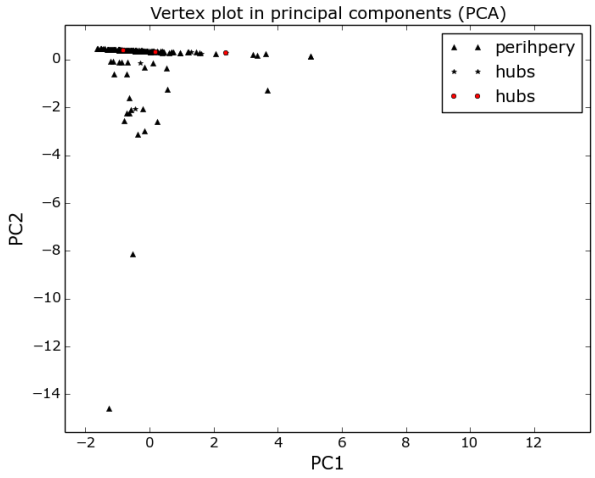

FIG. S13. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-1.06	-8.59	-1.17	5.08	68.03
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	-1.14	-12.48	2.29	58.43	4.38
(h.)	6.93	-10.07	56.15	2.02	0.72
d	-5.40	-24.78	-4.47	9.73	-12.42
	0.00	0.00	0.00	0.00	0.00
	-6.51	-26.62	-5.08	-13.11	6.08
	-1.23	31.89	8.52	-2.98	1.32
s	-5.38	-24.73	-4.42	10.06	-12.24
	0.00	0.00	0.00	0.00	0.00
	-6.52	-26.72	-5.18	-12.35	5.46
	-0.82	31.68	10.97	-6.49	-0.16
$\mu_S(p)$	-15.48	10.49	-15.66	9.29	0.74
	-19.83	15.09	14.02	-15.71	14.09
	-15.70	9.25	-12.54	2.80	8.88
	-15.24	7.08	2.78	11.51	-13.29
$\sigma_S(p)$	-15.33	5.64	17.89	11.41	-1.20
	-17.53	-21.58	10.26	14.77	30.35
	-16.38	3.78	-12.99	1.00	-6.76
	-13.98	1.85	3.75	35.25	9.55
$\mu_S(kw)$	-16.49	9.13	-16.54	4.07	1.05
	-19.98	16.90	10.56	-8.49	-12.20
	-16.24	8.79	4.25	1.67	14.09
	-15.43	-4.44	7.43	-10.09	-14.77
$\sigma_S(kw)$	-17.08	2.49	17.99	3.50	-0.02
	-18.61	-21.47	3.07	2.33	-34.23
	-17.18	4.58	-5.95	3.63	-7.96
	-15.42	-3.64	5.10	-12.03	25.28
$\mu_S(sw)$	-12.24	-4.04	-11.34	-24.37	1.14
	-14.11	16.17	-25.98	31.70	-0.88
	-8.84	1.10	32.79	-6.46	16.31
	-15.41	-5.97	4.14	-7.37	-20.42
$\sigma_S(sw)$	-11.53	-10.11	10.53	-22.49	3.16
	-9.95	-8.78	-36.11	-26.99	8.25
	-11.47	-6.67	18.93	0.54	-30.08
	-15.54	-3.37	1.16	-12.26	14.50
λ	35.30	24.34	13.88	12.46	10.44
	50.35	24.49	21.90	2.62	0.46
	45.72	22.57	12.38	10.06	6.71
	63.22	23.96	8.69	3.63	0.37

TABLE S404. PCA formation TAG: 15

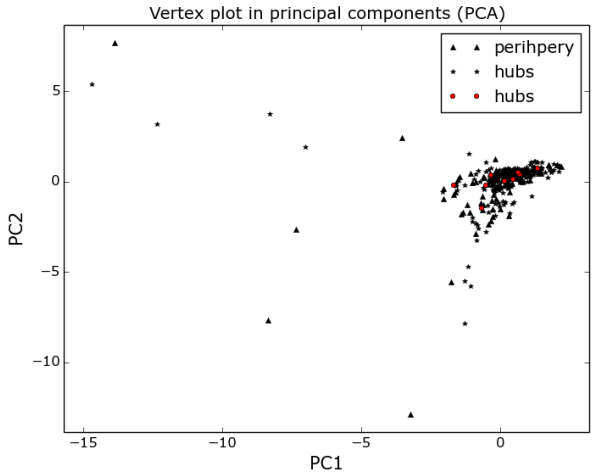

FIG. S14. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	3.14	11.18	1.23	3.30	62.65
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	0.89	19.71	12.07	-43.29	-11.85
(h.)	2.75	-20.44	-15.25	22.13	20.16
d	5.14	30.92	1.84	-5.73	-10.11
	0.00	0.00	0.00	0.00	0.00
	2.53	29.79	5.61	15.22	4.67
	-10.64	-4.20	23.04	6.15	-0.44
s	4.52	31.02	1.47	-6.02	-11.20
	0.00	0.00	0.00	0.00	0.00
	0.84	29.81	5.12	17.71	1.18
	-9.94	-11.27	20.27	2.75	13.29
$\mu_S(p)$	-17.88	1.01	-8.91	-17.81	4.76
	20.02	14.05	-18.28	23.54	-30.54
	-20.88	-0.76	6.58	2.12	-3.91
	-8.59	19.59	-8.11	19.71	-0.01
$\sigma_S(p)$	-19.03	5.05	17.23	7.29	-0.45
	21.54	-20.19	4.15	-8.15	-7.13
	-20.85	0.59	6.51	1.58	-1.14
	-14.52	11.90	0.84	7.52	9.26
$\mu_S(kw)$	-19.90	2.67	-9.15	-11.95	3.62
	22.70	12.76	-10.96	3.81	42.06
	-21.08	-0.05	2.09	2.29	-5.20
	-14.19	-8.55	-7.86	8.37	-23.75
$\sigma_S(kw)$	-18.64	5.05	16.91	10.20	-1.57
	21.08	-20.45	7.19	-10.45	-4.27
	-21.08	0.40	2.67	-0.55	5.11
	-14.80	5.64	-5.15	-2.23	2.71
$\mu_S(sw)$	-7.32	5.05	-31.14	4.91	0.01
	9.60	28.67	16.00	-29.72	-12.32
	-4.33	8.70	-32.01	2.58	-33.22
	-11.51	-18.05	-7.14	-7.02	-12.46
$\sigma_S(sw)$	-4.44	8.05	-12.13	32.78	-5.63
	5.07	3.88	43.43	24.33	3.68
	-7.51	10.19	-27.35	-14.67	33.72
	-13.07	0.37	-12.35	-24.12	17.92
λ	33.10	22.11	15.54	12.92	10.27
	46.50	25.23	20.38	5.37	2.24
	45.00	22.71	14.53	8.44	6.07
	48.17	21.07	16.96	5.07	3.80

TABLE S405. PCA formation TAG: 16

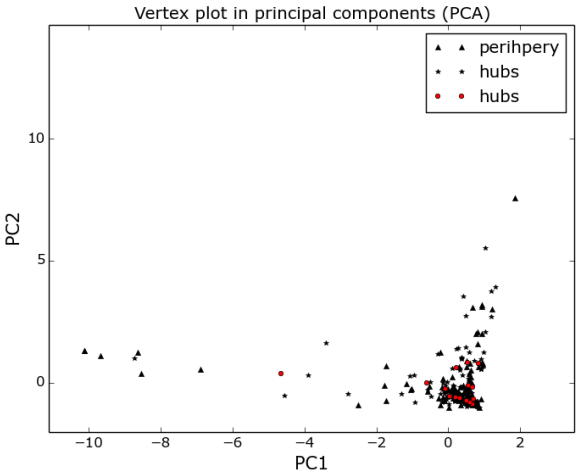

FIG. S15. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	2.26	-0.63	3.14	-77.71	-1.06
(p.)	3.87	19.31	2.94	45.07	-8.46
(i.)	6.42	-13.69	-2.79	-44.73	-10.93
(h.)	1.15	-14.54	9.38	-43.91	3.30
d	-8.04	22.80	-11.36	-5.01	3.59
	0.02	33.94	3.56	-4.69	4.26
	-7.15	18.52	14.09	-12.60	5.15
	-1.46	12.41	-19.60	-13.36	-7.75
s	-7.55	22.52	-13.14	-2.82	6.34
	-1.14	31.57	1.87	-20.41	8.00
	-8.51	17.86	9.14	-21.09	2.51
	-0.17	9.66	-21.54	-18.35	10.34
$\mu_S(p)$	-15.05	-12.68	-5.19	-0.10	8.11
	-18.60	-3.36	9.97	5.41	7.30
	-15.37	-9.77	7.18	1.36	4.73
	-21.10	-6.77	-3.14	0.40	7.56
$\sigma_S(p)$	-14.52	-10.23	-11.95	-5.39	-3.06
	-18.23	-0.26	14.25	-0.40	1.26
	-14.70	-10.32	9.50	-0.46	4.93
	-18.52	-10.12	-7.38	3.35	-9.52
$\mu_S(kw)$	-15.64	-4.87	9.68	-0.87	18.04
	-18.08	-1.03	-6.47	9.90	14.59
	-15.79	-5.77	-9.30	-4.34	8.91
	-18.37	9.23	7.90	-0.68	24.36
$\sigma_S(kw)$	-16.22	-7.89	-5.84	-4.06	-9.97
	-18.77	0.86	9.77	-0.58	-6.30
	-15.95	-7.98	2.12	2.42	-11.82
	-20.34	-7.37	-6.32	4.25	-6.51
$\mu_S(sw)$	-8.59	9.66	25.11	1.02	15.80
	-8.65	3.30	-36.28	5.04	13.33
	-5.13	4.93	-29.14	-8.98	20.77
	-6.74	16.47	13.15	-3.40	4.63
$\sigma_S(sw)$	-12.13	8.72	14.59	3.02	-34.04
	-12.64	6.37	-14.89	-8.50	-36.51
	-10.99	11.18	-16.75	4.01	-30.24
	-12.15	13.44	11.58	-12.29	-26.02
λ	45.49	21.44	14.18	10.98	4.53
	45.57	22.32	12.18	9.40	6.77
	46.47	22.43	16.91	8.26	2.92
	37.24	30.48	22.76	5.82	1.65

TABLE S406. PCA formation TAG: 17

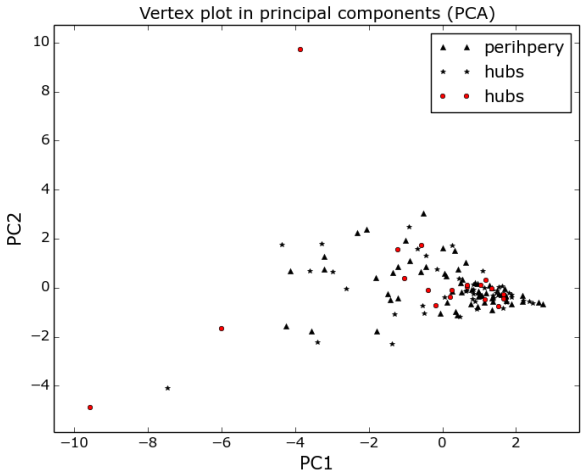

FIG. S16. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	2.94	9.38	15.24	18.55	35.11
(p.)	-4.04	-15.20	-11.84	8.74	-33.35
(i.)	-0.68	11.18	-12.20	-47.94	-4.82
(h.)	-11.74	10.14	-15.19	-39.16	3.09
d	4.67	23.73	-12.64	-0.49	2.75
	-11.22	-17.79	-1.40	-13.28	4.55
	5.89	-30.88	5.01	-8.13	-6.99
	7.59	-25.58	-1.84	-5.71	-12.94
s	4.00	22.51	-15.59	-2.07	1.35
	-10.51	-16.83	-0.67	-18.10	9.64
	2.31	-32.20	3.41	-11.16	-4.13
	4.73	-28.69	2.36	-18.10	13.90
$\mu_S(p)$	-19.02	-4.54	-11.41	4.06	5.79
	17.55	0.36	-9.95	-9.41	2.87
	19.57	1.01	-12.08	7.03	-2.78
	12.87	5.38	-14.98	0.16	14.78
$\sigma_S(p)$	-16.81	7.33	7.15	-17.67	9.64
	14.37	-8.15	16.79	-6.68	-9.99
	19.97	-0.86	-12.50	4.78	1.79
	12.08	0.82	-24.27	-0.83	-18.48
$\mu_S(kw)$	-19.01	-3.71	-10.92	8.95	2.64
	17.06	-1.67	-12.94	-7.41	5.46
	19.71	8.25	5.70	0.47	-14.50
	12.38	10.10	13.99	-9.94	-7.26
$\sigma_S(kw)$	-16.93	8.60	9.36	-15.86	3.40
	13.88	-10.29	17.09	-3.78	-7.42
	19.84	0.41	2.35	-5.53	17.19
	13.30	5.51	-6.10	0.62	-2.04
$\mu_S(sw)$	-12.70	4.22	-0.01	26.81	-11.86
	9.18	-12.98	-19.15	9.26	8.87
	5.86	11.42	23.23	-2.95	-23.59
	11.90	8.76	19.90	-21.72	-5.93
$\sigma_S(sw)$	-3.93	15.99	17.68	5.54	-27.45
	2.19	-16.72	10.17	23.34	17.85
	6.17	3.78	23.53	-12.01	24.20
	13.41	5.02	-1.38	3.76	21.58
λ	36.01	23.87	15.65	13.88	7.57
	39.60	26.52	15.65	8.38	7.10
	37.57	21.89	19.82	9.56	7.25
	70.22	21.32	6.53	1.33	0.38

TABLE S407. PCA formation TAG: 18

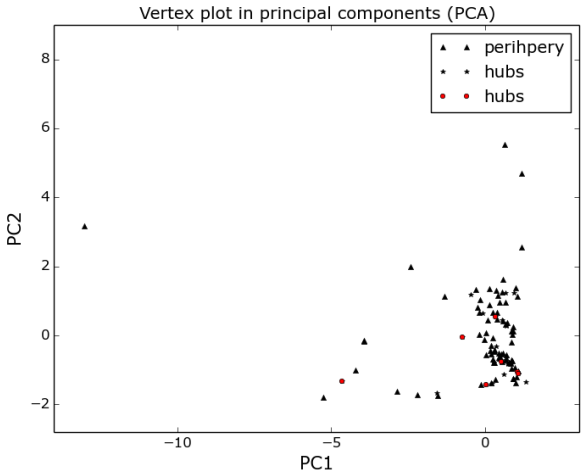

FIG. S17. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	2.00	8.67	26.24	-30.91	-0.66
(p.)	-2.06	-14.42	-56.50	0.46	3.19
(i.)	9.62	-7.63	-1.26	-47.10	-6.71
(h.)	-5.44	-26.53	26.08	21.47	1.88
d	0.98	28.77	-10.30	-3.87	1.34
	-7.44	-26.56	9.98	5.01	-3.57
	-5.37	21.17	-14.98	0.30	-7.80
	-6.47	28.32	-4.38	26.05	18.10
s	0.85	28.29	-12.14	-3.11	1.56
	-6.71	-25.94	15.84	8.35	-8.12
	-5.36	20.85	-14.94	-10.68	-4.97
	-6.30	27.83	22.50	-3.32	-20.13
$\mu_S(p)$	-18.08	-5.82	-8.15	-10.23	-6.95
	15.94	-2.49	0.24	8.04	-9.48
	-14.15	2.57	17.43	-5.09	-11.60
	13.83	-0.51	-5.61	13.01	-4.80
$\sigma_S(p)$	-17.48	-3.22	-5.32	-6.78	-23.09
	15.48	-2.72	-1.59	-4.27	-17.24
	-15.52	5.91	12.62	-15.13	6.85
	13.16	0.93	-8.48	16.20	-25.59
$\mu_S(kw)$	-17.07	-2.98	-2.86	-4.75	29.25
	13.97	-3.22	2.52	20.16	18.03
	-16.25	-10.73	1.52	6.23	-15.20
	13.80	4.50	10.79	-3.68	2.37
$\sigma_S(kw)$	-18.66	0.44	-3.25	-5.62	9.57
	15.66	-2.53	-1.32	13.05	2.73
	-18.00	-1.65	-2.46	-9.20	13.12
	14.01	-0.16	0.94	5.13	5.08
$\mu_S(sw)$	-10.88	10.26	20.14	20.98	9.62
	9.07	-14.59	10.33	-22.20	24.77
	-5.96	-17.16	-17.10	2.25	-16.34
	13.09	8.40	15.45	-6.37	8.44
$\sigma_S(sw)$	-14.02	11.54	11.61	13.76	-17.97
	13.68	-7.51	-1.68	-18.46	-12.86
	-9.77	-12.34	-17.68	-4.03	17.41
	13.91	2.81	5.77	-4.77	13.61
λ	43.79	23.94	12.97	8.55	6.16
	49.70	21.17	9.82	8.10	6.85
	36.93	23.62	19.60	9.02	5.77
	67.24	20.35	6.08	3.77	1.92

TABLE S408. PCA formation TAG: 19

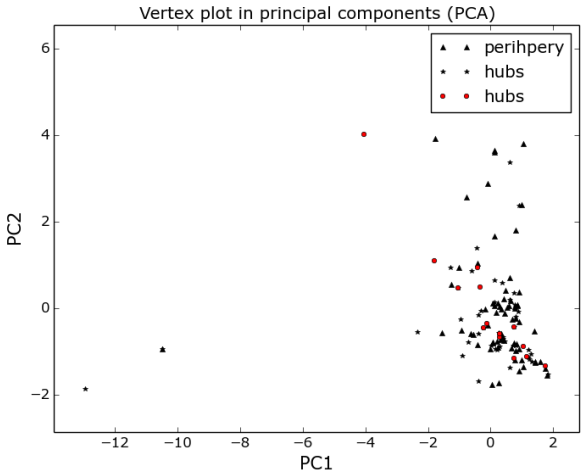

FIG. S18. First two principal components.

2. Snapshots of 2000 messages

	PC1	PC2	PC3	PC4	PC5
cc	-0.60	-2.33	-20.29	-40.20	2.23
(p.)	-0.47	-25.46	2.29	2.36	44.98
(i.)	-4.48	15.41	-36.04	-20.17	-1.41
(h.)	3.16	-19.11	-4.16	-28.58	18.48
d	2.23	-34.65	-5.28	4.28	0.18
	3.54	-30.33	-1.86	2.36	-19.55
	-2.02	-33.02	-3.35	-6.85	-0.03
	-8.60	12.81	-25.82	2.65	-3.55
s	2.02	-34.45	-5.23	6.75	3.67
	2.76	-30.80	-1.14	0.27	-17.79
	-2.48	-32.10	-5.24	-11.48	-1.15
	-12.08	4.19	-24.11	-11.28	4.51
$\mu_S(p)$	16.01	6.38	-8.18	6.12	30.19
	12.82	1.04	25.76	14.14	1.44
	15.35	2.70	7.61	-10.52	-31.72
	-11.91	-14.43	0.24	-8.59	-29.84
$\sigma_S(p)$	16.59	7.00	-12.80	9.49	2.86
	11.21	1.67	30.58	-8.78	-4.32
	15.85	2.81	8.16	-12.39	-2.26
	-6.20	-21.63	-5.84	14.03	-9.29
$\mu_S(kw)$	16.03	-2.26	14.47	-9.60	15.18
	17.35	4.36	-6.84	19.82	2.81
	16.08	-3.88	-8.99	6.42	-10.48
	-16.09	4.40	9.29	-3.25	6.41
$\sigma_S(kw)$	17.33	4.11	-8.89	4.86	-16.50
	17.43	-1.05	-2.20	-21.08	3.62
	16.17	0.70	3.06	-8.42	20.93
	-11.85	-12.44	-2.80	20.90	23.96
$\mu_S(sw)$	11.95	-8.29	24.13	-16.81	-1.55
	17.32	4.01	-16.82	13.55	-1.05
	11.33	-8.15	-23.43	23.36	-6.42
	-14.38	8.52	14.09	-8.69	1.44
$\sigma_S(sw)$	17.23	-0.53	-0.73	-1.88	-27.63
	17.10	1.29	-12.49	-17.65	4.44
	16.25	-1.23	-4.12	-0.40	25.61
	-15.74	2.47	13.64	-2.01	2.52
λ	49.32	21.94	11.69	10.90	3.98
	35.56	25.11	14.90	11.48	6.39
	56.11	22.97	9.75	7.86	2.11
	48.28	26.23	13.97	7.40	3.65

TABLE S409. PCA formation TAG: 0

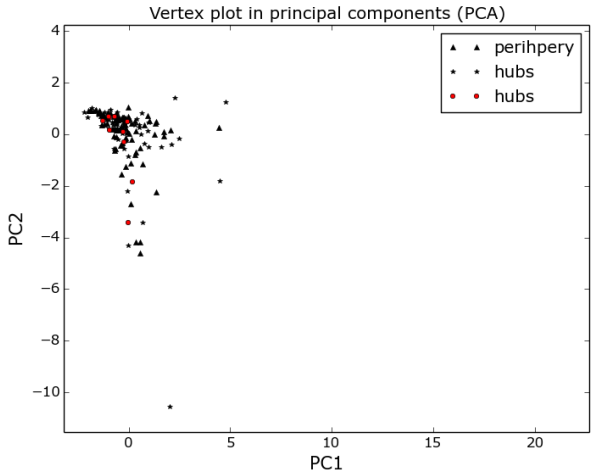

FIG. S19. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	0.70	9.32	-65.09	-5.00	0.72
(p.)	5.11	18.25	-2.89	-53.38	4.99
(i.)	-1.64	5.37	-73.09	-4.28	-0.85
(h.)	11.98	-13.91	-1.11	31.09	14.89
d	-3.41	35.61	8.04	-0.82	3.49
	0.69	36.01	0.40	13.23	-0.75
	-0.02	-39.26	-2.49	-5.15	3.21
	-12.39	0.76	23.52	-2.31	5.22
s	-3.06	35.66	8.97	-0.59	3.62
	0.82	35.83	-0.14	14.62	0.05
	-0.29	-39.22	-6.57	-1.56	2.12
	-11.60	-0.57	24.51	5.54	4.42
$\mu_S(p)$	-15.25	-4.07	-2.77	18.77	12.66
	-13.04	0.49	27.51	-5.85	-4.69
	17.03	1.34	-3.64	7.43	13.94
	14.46	0.49	13.23	-7.48	18.43
$\sigma_S(p)$	-14.16	2.75	-4.58	24.93	-24.53
	-15.76	2.91	15.48	-6.88	-25.61
	14.65	-5.58	-6.15	34.13	-17.62
	13.13	-12.62	13.67	3.53	-16.13
$\mu_S(kw)$	-16.10	-6.26	-1.91	1.34	24.93
	-15.06	0.49	7.78	0.97	39.53
	17.12	3.20	-1.07	-4.64	22.54
	14.07	13.35	3.00	-18.00	12.00
$\sigma_S(kw)$	-16.69	-1.05	-2.92	2.50	-5.55
	-17.50	4.95	-2.94	-0.54	0.81
	16.70	-2.00	-1.99	4.30	6.43
	15.51	-3.27	11.07	-6.11	-17.62
$\mu_S(sw)$	-16.03	-3.64	1.89	-20.14	5.91
	-16.64	-0.48	-19.11	-1.63	7.59
	16.55	3.02	2.90	-18.66	1.82
	4.89	28.23	-2.22	7.43	1.42
$\sigma_S(sw)$	-14.60	-1.64	3.82	-25.92	-18.60
	-15.38	0.57	-23.75	-2.92	-15.99
	16.00	-1.01	2.09	-19.85	-31.48
	1.98	26.80	7.66	18.51	-9.87
λ	48.93	22.27	10.77	8.25	4.63
	38.70	23.63	12.58	8.93	7.65
	56.89	22.16	11.01	4.99	2.10
	42.87	25.01	17.50	5.73	4.19

TABLE S410. PCA formation TAG: 2

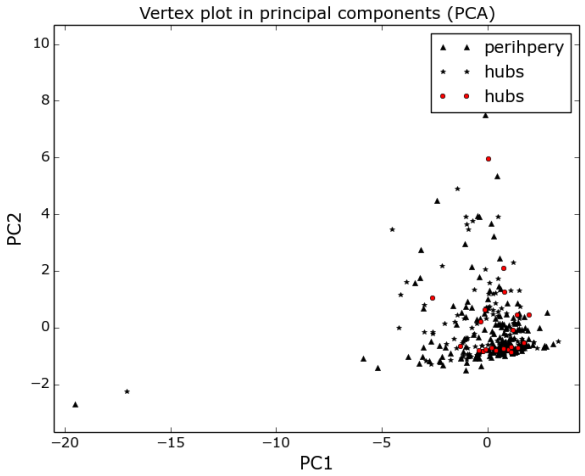

FIG. S20. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-0.26	3.25	0.70	52.94	15.79
(p.)	1.31	22.61	-4.43	-12.00	-29.98
(i.)	3.45	18.25	32.55	9.75	-17.30
(h.)	-10.34	17.50	-3.13	-0.08	-22.13
d	1.97	-38.82	-3.32	1.73	2.62
	2.10	24.79	-3.54	-5.03	-8.23
	-4.13	-22.26	-2.54	8.43	-39.99
	11.38	-15.62	-7.80	9.91	-12.24
s	1.81	-38.80	-3.95	0.30	2.94
	2.45	21.55	-2.68	-3.09	45.06
	-4.52	-19.71	14.86	20.92	27.10
	11.48	-15.57	-7.53	9.64	-11.39
$\mu_S(p)$	16.92	3.70	4.39	-11.57	21.73
	16.30	-8.16	4.81	-20.55	3.81
	-15.82	2.32	4.30	-5.25	2.23
	-15.18	-5.91	3.16	21.23	17.64
$\sigma_S(p)$	14.86	-2.26	24.79	-2.64	0.94
	15.96	0.42	22.12	-3.91	0.20
	-12.67	-10.42	14.98	-17.76	2.50
	-16.15	-6.70	3.83	4.88	-16.78
$\mu_S(kw)$	16.75	5.52	-16.57	-7.59	15.34
	15.71	-8.31	-18.45	-13.50	2.75
	-15.38	7.35	-3.08	5.36	-1.33
	-12.05	-2.19	-25.33	12.90	2.71
$\sigma_S(kw)$	17.67	-1.88	16.02	4.98	-9.32
	18.49	3.14	14.21	9.46	-4.75
	-15.42	-1.85	8.12	-11.29	-2.41
	-13.88	-12.30	5.30	-9.48	-8.64
$\mu_S(sw)$	14.08	5.03	-25.22	1.34	-6.75
	12.71	-3.63	-26.98	7.73	-1.64
	-14.30	8.57	-11.09	11.37	-4.49
	1.48	7.96	-34.86	-5.89	1.97
$\sigma_S(sw)$	15.69	-0.73	-5.04	16.92	-24.56
	14.97	7.38	-2.79	24.74	-3.57
	-14.30	9.27	-8.50	9.89	2.63
	-8.05	-16.27	-9.06	-26.00	6.49
λ	42.48	22.36	12.77	11.93	6.44
	36.78	27.09	14.33	9.29	5.62
	55.73	25.91	7.25	6.28	2.91
	47.40	29.92	16.59	5.26	0.82

TABLE S411. PCA formation TAG: 3

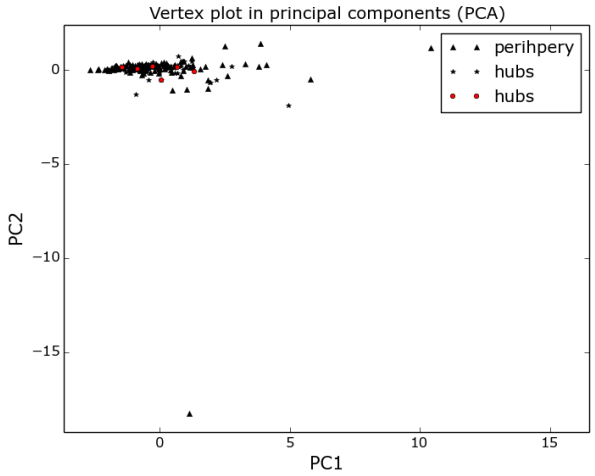

FIG. S21. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	0.72	6.83	9.90	-38.74	-14.85
(p.)	4.21	12.20	9.06	-8.30	49.22
(i.)	2.08	-1.97	-18.43	29.43	-18.21
(h.)	7.77	-2.53	11.55	-35.42	16.98
d	-8.50	25.79	-5.26	5.76	-5.30
	3.98	22.08	9.17	-5.33	-12.50
	-4.31	26.53	-10.40	-7.60	-3.35
	-10.88	18.95	-11.42	-2.87	-0.65
s	-8.44	25.49	-6.49	6.49	-5.54
	1.95	20.85	11.19	-4.67	-22.45
	-5.40	27.18	-6.59	-5.88	-4.41
	-11.78	17.85	-11.04	-12.64	3.16
$\mu_S(p)$	-12.02	-5.91	18.23	12.99	-12.56
	-9.82	9.77	-22.78	-13.89	-0.81
	-13.69	-13.15	-6.70	-15.11	-14.56
	-1.30	-18.82	-11.98	-15.98	-21.73
$\sigma_S(p)$	-13.68	5.03	14.36	-2.99	17.11
	-10.67	14.04	-13.12	17.98	7.50
	-14.32	-2.32	-15.80	0.85	18.37
	-1.71	-10.73	-21.97	-7.68	1.73
$\mu_S(kw)$	-15.47	-11.71	4.04	7.28	-13.83
	-17.92	-0.68	-4.07	-18.49	-1.38
	-16.83	-9.83	-0.95	-8.19	-10.79
	-15.24	-16.25	5.96	6.49	-3.70
$\sigma_S(kw)$	-15.80	-1.18	5.55	-10.05	15.26
	-16.50	8.92	1.72	15.34	4.87
	-15.87	-4.66	-6.28	10.72	15.57
	-13.42	-12.19	-5.80	6.14	36.14
$\mu_S(sw)$	-12.47	-12.37	-17.54	-3.97	-9.05
	-17.63	-8.04	12.74	-9.15	0.22
	-15.43	4.15	16.56	5.84	-11.15
	-19.01	1.81	9.47	-8.74	-9.25
$\sigma_S(sw)$	-12.89	-5.69	-18.65	-11.73	6.49
	-17.32	-3.42	16.16	6.85	-1.03
	-12.06	10.22	18.28	16.39	3.58
	-18.90	-0.87	10.79	-4.04	-6.65
λ	38.08	21.23	16.11	11.00	8.06
	34.26	25.92	14.08	10.44	8.86
	39.61	22.70	13.68	11.64	7.05
	32.28	24.54	20.54	10.03	6.74

TABLE S412. PCA formation TAG: 7

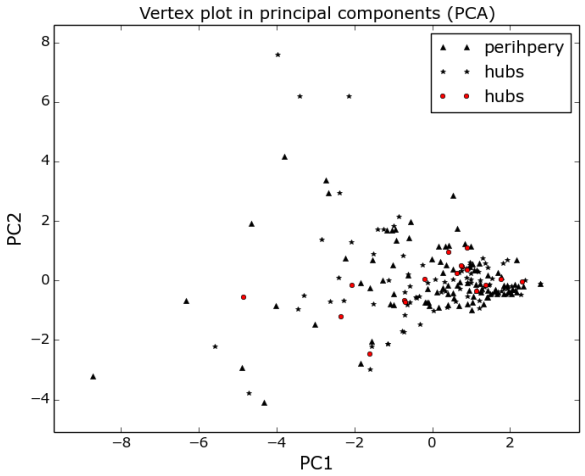

FIG. S22. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-7.04	-5.99	-4.83	-34.62	21.37
(p.)	2.04	3.29	7.10	-71.83	-1.38
(i.)	-7.82	-12.95	-4.61	29.12	25.04
(h.)	2.35	-16.95	-5.64	-49.09	6.65
d	-10.93	-11.90	-19.35	8.02	-0.55
	5.56	10.90	23.82	7.89	0.23
	-8.46	17.99	-16.53	-0.22	6.53
	0.85	24.43	8.39	-14.80	1.04
s	-10.56	-11.65	-19.63	10.19	-1.02
	3.89	11.25	23.70	13.72	2.90
	-8.73	17.84	-16.54	-0.69	3.16
	1.41	24.00	7.51	-20.07	-4.21
$\mu_S(p)$	-9.00	16.81	0.15	13.57	19.50
	-15.73	-8.21	6.68	-2.08	26.10
	-12.22	5.83	17.70	-6.88	9.89
	-15.00	8.59	-10.20	1.32	35.57
$\sigma_S(p)$	-13.44	-3.36	15.35	12.40	15.84
	-14.08	13.11	-5.08	-2.80	20.80
	-10.41	10.56	19.65	5.35	3.40
	-12.80	7.22	-20.14	0.30	-9.34
$\mu_S(kw)$	-9.58	20.02	-7.08	-3.28	-4.96
	-15.71	-11.86	12.05	0.28	-7.31
	-13.36	-10.63	-1.55	-22.48	6.74
	-18.91	-3.17	7.14	1.68	8.62
$\sigma_S(kw)$	-15.89	-5.51	14.16	0.05	-5.56
	-14.98	15.22	-5.21	0.09	-4.93
	-15.06	1.52	7.37	7.25	-14.65
	-16.59	3.11	-11.51	-7.07	-26.18
$\mu_S(sw)$	-9.37	18.52	-7.97	-9.10	-11.74
	-15.00	-11.65	10.96	0.04	-16.31
	-11.63	-15.53	-9.48	-14.42	3.01
	-15.25	-8.11	15.94	0.03	-5.92
$\sigma_S(sw)$	-14.19	-6.23	11.48	-8.78	-19.46
	-13.01	14.51	-5.40	1.26	-20.03
	-12.31	-7.16	-6.56	13.58	-27.58
	-16.84	-4.42	13.54	-5.64	-2.47
λ	35.46	25.86	17.44	10.35	7.52
	31.65	27.01	19.55	10.65	7.39
	43.69	18.64	16.78	8.23	7.31
	41.96	26.92	16.55	7.62	4.29

TABLE S413. PCA formation TAG: 8

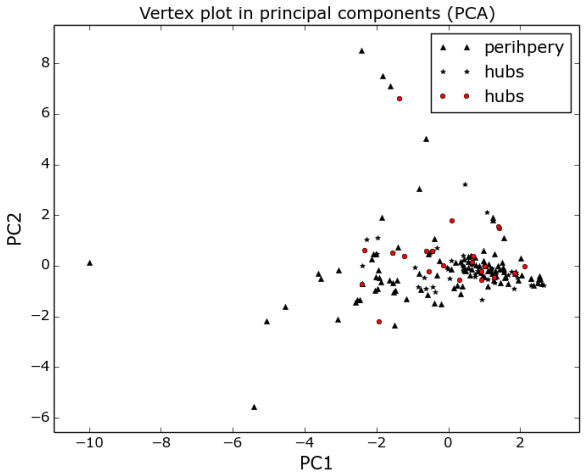

FIG. S23. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	-1.36	-9.18	-12.16	60.26	-1.19
(p.)	-1.27	-14.46	18.04	49.60	1.76
(i.)	0.38	-5.43	-15.44	21.95	26.26
(h.)	9.50	-22.70	7.58	12.86	20.70
d	-2.02	-27.07	15.37	-1.93	-2.34
	-1.46	-33.31	1.12	-13.67	-1.06
	-0.14	25.81	5.89	9.88	-5.65
	-10.83	-5.33	-22.31	-0.33	4.28
s	-1.91	-26.77	16.06	-1.50	-4.45
	-1.55	-33.33	3.83	-11.90	-3.90
	1.17	24.36	4.19	15.39	-1.55
	-9.84	-8.32	-23.72	-0.84	0.30
$\mu_S(p)$	23.12	-0.68	0.89	1.68	-2.89
	23.38	-1.06	-0.27	0.50	-2.43
	-14.77	-11.81	7.60	18.68	-10.31
	8.93	22.45	-6.79	-17.44	24.91
$\sigma_S(p)$	23.05	-1.25	1.56	1.18	4.11
	23.32	-2.28	0.04	-0.00	2.73
	-12.63	-3.01	22.27	-0.66	16.57
	6.15	21.99	-7.11	27.74	-6.12
$\mu_S(kw)$	22.32	-3.08	-4.43	-2.10	-9.27
	22.80	1.36	4.53	-0.08	-8.10
	-20.69	-5.78	-6.11	8.09	-13.04
	13.38	-8.85	-6.29	-13.71	-5.94
$\sigma_S(kw)$	23.00	-2.22	0.27	0.18	6.15
	23.28	-2.19	1.56	-0.71	4.48
	-20.11	4.47	9.11	-9.07	10.05
	13.43	-5.12	-11.62	9.41	-6.19
$\mu_S(sw)$	-2.04	-12.82	-26.76	-17.08	-32.74
	-2.38	7.51	35.03	-9.83	-37.88
	-17.24	3.76	-16.98	-4.16	-6.42
	14.11	-1.20	-3.36	-12.03	-21.68
$\sigma_S(sw)$	-1.19	-16.93	-22.50	-14.09	36.88
	-0.58	4.49	35.59	-13.71	37.67
	-12.86	15.57	-12.40	-12.13	10.15
	13.82	-4.03	-11.22	5.64	9.87
λ	43.21	24.34	15.97	10.02	5.41
	43.57	23.64	16.52	9.03	6.37
	32.88	23.72	16.22	13.02	8.11
	57.94	16.47	15.33	8.90	0.78

TABLE S414. PCA formation TAG: 10

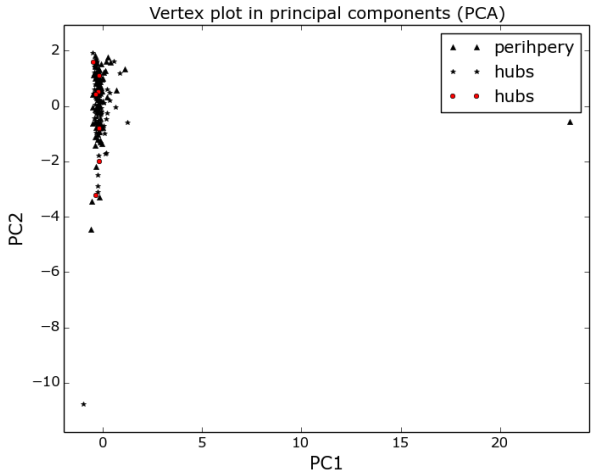

FIG. S24. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	9.30	1.59	12.70	47.85	-0.69
(p.)	10.37	15.09	-0.47	13.08	-35.48
(i.)	2.09	-12.66	-20.11	34.26	4.69
(h.)	9.25	-5.21	25.56	14.04	2.27
d	4.33	-37.49	0.60	1.55	2.82
	10.11	18.23	7.83	-1.08	18.02
	6.17	29.21	1.06	9.30	7.18
	-10.42	12.57	-18.93	-1.82	-6.66
s	3.42	-37.90	1.48	-2.92	1.56
	9.70	19.32	7.01	-5.66	12.06
	7.19	28.19	-4.38	8.85	-5.69
	-6.77	10.48	-4.49	42.52	10.89
$\mu_S(p)$	11.18	5.70	-24.97	5.45	17.45
	9.86	-11.98	18.05	18.40	4.37
	5.85	-2.60	30.70	6.53	10.27
	7.05	-17.19	-15.10	7.47	-0.45
$\sigma_S(p)$	10.77	-1.92	-27.71	5.24	-5.25
	9.30	-11.76	23.28	-2.85	-0.86
	10.89	-8.55	22.33	16.63	-8.60
	6.76	-18.64	-11.37	6.89	-3.06
$\mu_S(kw)$	16.00	4.59	6.59	-8.95	14.63
	13.08	-7.61	-12.01	10.89	4.47
	17.96	1.97	-0.90	-6.78	4.25
	16.75	3.01	-10.08	-2.03	34.50
$\sigma_S(kw)$	15.21	1.56	-1.11	-7.72	-27.25
	12.70	-7.89	-0.07	-23.64	-12.12
	15.96	-3.25	-5.79	-5.42	-32.00
	16.71	4.01	-7.02	11.58	-30.59
$\mu_S(sw)$	14.08	5.12	16.45	-12.67	17.02
	11.52	-4.04	-21.31	10.41	11.96
	16.51	-4.88	-9.58	-10.29	23.11
	12.98	14.34	-3.58	-11.47	3.59
$\sigma_S(sw)$	15.70	4.14	8.39	-7.64	-13.31
	13.36	-4.08	-9.97	-13.99	-0.66
	17.38	-8.69	-5.14	-1.94	4.21
	13.31	14.55	3.88	2.16	-7.97
λ	47.11	20.65	14.72	7.96	4.98
	55.25	20.49	13.20	5.24	3.03
	39.92	20.31	18.58	8.43	5.72
	42.23	31.89	16.38	8.95	0.54

TABLE S415. PCA formation TAG: 11

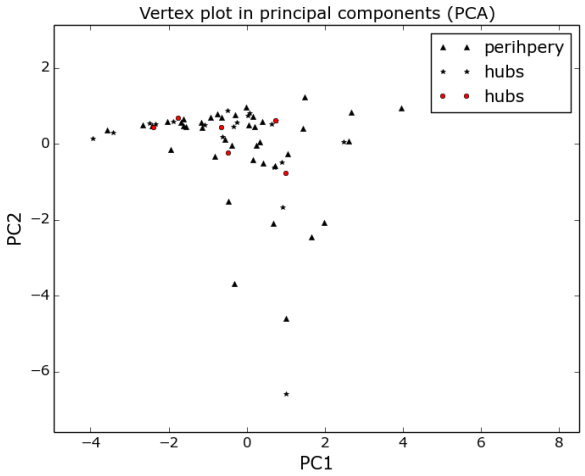

FIG. S25. First two principal components.

	PC1	**PC2**	**PC3**	**PC4**	**PC5**
cc	1.25	12.09	12.09	44.89	6.56
(p.)	0.00	0.00	0.00	0.00	0.00
(i.)	-1.04	-14.60	-9.78	-29.83	19.40
(h.)	2.49	-59.01	16.74	-1.68	-1.90
d	10.70	23.27	-2.73	-7.18	-7.98
	0.00	0.00	0.00	0.00	0.00
	-6.35	-26.79	5.79	2.70	-8.11
	-12.33	3.14	1.71	19.55	-12.29
s	10.77	23.27	-2.78	-7.07	-7.44
	0.00	0.00	0.00	0.00	0.00
	-6.92	-26.43	6.23	5.32	-6.59
	-12.36	-0.74	8.38	17.10	-15.21
$\mu_S(p)$	10.75	-10.21	21.57	-0.64	-11.78
	-13.84	-25.47	2.88	-30.34	-21.61
	-14.11	5.41	-17.76	-5.55	-12.18
	-10.52	-22.84	-39.25	1.81	4.01
$\sigma_S(p)$	12.57	-2.22	19.64	-9.77	9.87
	-16.43	-22.09	9.13	3.84	32.85
	-12.71	-3.74	-19.57	11.72	1.34
	-12.62	-4.17	1.35	6.72	16.09
$\mu_S(kw)$	13.55	-13.27	-1.73	9.04	-15.76
	-18.05	4.66	-45.10	8.15	-7.07
	-16.56	9.31	1.99	-11.91	-10.62
	-12.46	-0.37	-3.73	-16.95	-13.39
$\sigma_S(kw)$	16.32	-4.16	1.96	-4.62	12.85
	-21.03	-2.56	7.80	26.18	-6.47
	-17.43	3.52	-2.76	8.78	13.45
	-12.56	3.64	14.24	3.68	10.74
$\mu_S(sw)$	10.48	-8.73	-21.37	15.50	-8.90
	-14.08	25.71	-3.96	-28.15	18.05
	-11.37	6.67	20.23	-15.11	-8.41
	-12.07	3.00	5.58	-26.37	-8.52
$\sigma_S(sw)$	13.62	-2.78	-16.12	1.28	18.87
	-16.57	19.50	31.14	3.34	-13.96
	-13.51	3.54	15.89	9.07	19.90
	-12.58	3.11	9.00	-6.13	17.84
λ	41.44	19.85	15.03	9.84	6.79
	54.55	25.82	8.69	5.64	3.82
	36.45	22.91	15.21	9.43	8.50
	81.46	12.04	2.92	2.78	0.56

TABLE S416. PCA formation TAG: 15

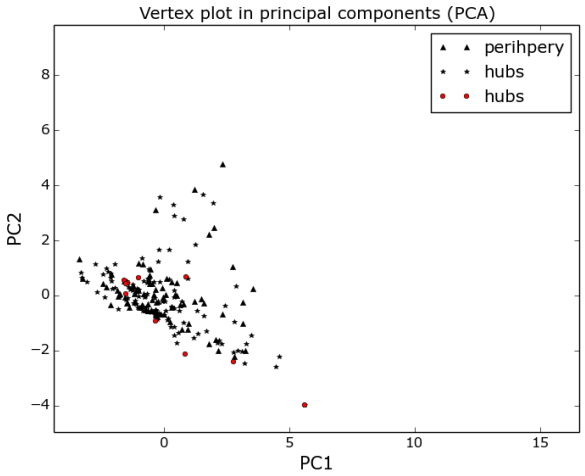

FIG. S26. First two principal components.