

Socio-technical analysis result (Node.js)

	range.date																								
		devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	
1	2013-05 – 2013-08	525	458	51	16	0.8724	0.0971	0.0305	18	0.0343	2	0.0299	1	148	144	10	35	0	190	0	42	0.2222	0.8577	0.0000	0.0000
2	2013-08 – 2013-11	397	358	28	11	0.9018	0.0705	0.0277	7	0.0176	1	0.0256	1	131	129	7	21	0	104	0	29	0.1714	0.7934	0.8265	0.9623
3	2013-11 – 2014-02	452	410	33	9	0.9071	0.0730	0.0199	4	0.0088	0	0.0000	1	109	109	3	2	0	153	0	6	0.2500	0.8958	0.6031	0.7407
4	2014-02 – 2014-05	449	321	112	16	0.7149	0.2494	0.0356	17	0.0379	2	0.0156	1	125	118	13	48	0	98	0	58	0.0333	0.9072	0.6881	0.2706
5	2014-05 – 2014-08	281	254	21	6	0.9039	0.0747	0.0214	3	0.0107	0	0.0000	1	106	104	4	5	0	7	0	5	0.0000	0.8667	0.9616	1.4194
6	2014-08 – 2014-11	435	261	166	8	0.6000	0.3816	0.0184	8	0.0184	2	0.0115	1	105	97	13	45	0	75	0	48	0.0400	0.9329	0.5391	0.0697
7	2014-11 – 2015-02	385	261	116	8	0.6779	0.3013	0.0208	26	0.0675	1	0.0081	1	133	114	22	107	0	14	0	112	0.0088	0.8169	0.8073	0.9396
8	2015-02 – 2015-05	292	203	82	7	0.6952	0.2808	0.0240	21	0.0719	0	0.0000	1	110	96	18	133	0	13	0	136	0.0000	0.7517	0.8538	0.8638
9	2015-05 – 2015-08	259	190	63	6	0.7336	0.2432	0.0232	8	0.0309	0	0.0000	1	107	91	21	96	0	16	0	97	0.0000	0.7841	0.7695	0.6456
10	2015-08 – 2015-11	234	112	117	5	0.4786	0.5000	0.0214	24	0.1026	1	0.0082	1	67	56	23	187	0	6	0	187	0.0000	0.8338	0.8114	0.3560
11	2015-11 – 2016-02	233	88	141	4	0.3777	0.6052	0.0172	32	0.1373	2	0.0138	1	76	50	30	192	0	3	0	192	0.0000	0.8344	0.7452	0.5693
12	2016-02 – 2016-05	235	80	152	3	0.3404	0.6468	0.0128	33	0.1404	1	0.0065	1	62	41	30	259	0	6	0	260	0.0000	0.8345	0.6923	0.5733
	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr	global.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core				
1	0.0000	0.0000	0.0000	0.0000	0.3943	0.7181	0.6962	0.8507	0.0036	0.2189	0.2379	0.2170	0.3676	0.0414	0.0159	138	4	6	0.9324	0.0270	0.0405				
2	0.6093	0.6007	0.5882	0.3832	0.2972	0.6700	0.6504	0.8205	0.0056	0.1974	0.2431	0.1507	0.4232	0.0170	0.0196	124	2	5	0.9466	0.0153	0.0382				
3	0.6583	0.6471	0.8000	0.2656	0.3473	0.7588	0.7399	0.9286	0.0042	0.2395	0.3625	0.3278	0.2813	-0.4281	0.0233	106	0	3	0.9725	0.0000	0.0275				
4	0.5641	0.5815	0.0000	0.3161	0.2695	0.7216	0.6499	0.8984	0.0033	0.0790	0.1684	0.0736	0.4441	0.0102	0.0124	113	8	5	0.8968	0.0635	0.0397				
5	0.6840	0.6486	1.2941	0.2251	0.0463	0.6228	0.6000	0.8519	0.0063	0.1470	0.1771	0.5042	0.4842	0.2311	0.0193	103	3	1	0.9626	0.0280	0.0093				
6	0.6919	0.7164	0.3529	0.0155	0.2299	0.7586	0.6394	0.9253	0.0028	0.0913	0.1679	0.0148	0.3386	0.0009	0.0095	95	11	2	0.8796	0.1019	0.0185				
7	0.5210	0.5308	0.2857	0.1813	0.1610	0.6545	0.5762	0.8226	0.0041	0.1649	0.1436	0.3066	0.5577	0.1405	0.0101	111	19	3	0.8346	0.1429	0.0226				
8	0.6749	0.6762	0.4500	0.1003	0.2123	0.6233	0.5429	0.7978	0.0055	0.2439	0.1548	0.1399	0.6058	0.0385	0.0136	94	16	2	0.8393	0.1429	0.0179				
9	0.7005	0.7701	0.1538	0.1226	0.2239	0.5869	0.5357	0.6957	0.0056	0.1625	0.1422	0.1603	0.7008	0.1479	0.0128	90	20	1	0.8108	0.1802	0.0090				
10	0.8851	0.9932	0.3182	0.1200	0.2436	0.7137	0.5214	0.8115	0.0051	0.1877	0.1071	0.1736	0.7094	0.1701	0.0131	55	22	1	0.7051	0.2821	0.0128				
11	0.6294	0.8491	0.3774	0.1494	0.3433	0.6738	0.4565	0.7931	0.0019	0.0544	0.1648	0.3959	0.7752	0.3950	0.0120	49	29	1	0.6203	0.3671	0.0127				
12	0.7246	0.8352	0.4000	0.2222	0.3574	0.7362	0.5060	0.8065	0.0051	0.1780	0.1487	0.3533	0.6303	0.3520	0.0137	39	28	2	0.5652	0.4058	0.0290				

Community smells: Pearson’s correlation (Node.js)

	devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.silo	-0.72	-0.86	0.67	-0.65	-0.92	0.92	-0.55	0.87	0.96	0.11	-0.18	-	-0.76	-0.86	0.94	-	-	-0.65	-	1.00	-0.59	-0.38	0.03	-0.28
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.90	0.90	-0.41	0.81	0.60	-0.61	0.54	-0.42	-0.57	0.29	0.58	-	0.64	0.72	-0.66	-0.65	-	-	-0.64	0.92	0.44	-0.55	-0.18	
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	-0.70	-0.85	0.67	-0.62	-0.92	0.92	-0.53	0.88	0.96	0.12	-0.16	-	-0.75	-0.85	0.94	1.00	-	-0.64	-	-	-0.58	-0.38	0.02	-0.29
	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr	global.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core			
org.silo	0.39	0.70	-0.41	-0.34	0.23	-0.01	-0.85	-0.51	-0.07	-0.12	-0.62	0.15	0.80	0.68	-0.51	-0.87	0.94	-0.48	-0.97	0.97	-0.29			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.31	-0.47	0.06	0.50	0.54	0.52	0.89	0.57	-0.27	0.29	0.78	-0.28	-0.81	-0.71	0.47	0.70	-0.74	0.82	0.63	-0.68	0.75			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.37	0.68	-0.43	-0.32	0.25	0.00	-0.84	-0.50	-0.08	-0.12	-0.61	0.13	0.79	0.67	-0.52	-0.86	0.93	-0.45	-0.97	0.96	-0.26			

Community smells: Pearson's correlation - p-values (Node.js)

	devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.silo	0.01	0.00	0.02	0.02	0.00	0.00	0.06	0.00	0.00	0.74	0.58	-	0.00	0.00	0.00	-	-	0.02	-	0.00	0.04	0.22	0.94	0.40
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.00	0.00	0.19	0.00	0.04	0.03	0.07	0.18	0.05	0.36	0.05	-	0.03	0.01	0.02	0.02	-	-	-	0.03	0.00	0.16	0.08	0.59
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.01	0.00	0.02	0.03	0.00	0.00	0.08	0.00	0.00	0.70	0.63	-	0.01	0.00	0.00	0.00	-	0.03	-	-	0.05	0.22	0.96	0.38
	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.cent	betweenness.cent	degree.cent	global.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core			
org.silo	0.24	0.02	0.21	0.31	0.46	0.98	0.00	0.09	0.83	0.71	0.03	0.65	0.00	0.02	0.09	0.00	0.00	0.12	0.00	0.00	0.37			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.35	0.14	0.86	0.12	0.07	0.08	0.00	0.05	0.40	0.37	0.00	0.38	0.00	0.01	0.12	0.01	0.01	0.00	0.03	0.02	0.00			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.26	0.02	0.18	0.34	0.43	0.99	0.00	0.10	0.81	0.71	0.03	0.68	0.00	0.02	0.08	0.00	0.00	0.14	0.00	0.00	0.42			

Community smells: Spearman’s correlation (Node.js)

		devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.silo		-0.73	-0.82	0.75	-0.68	-0.92	0.90	-0.37	0.92	0.97	0.21	-0.01	-	-0.50	-0.73	0.98	-	-	-0.76	-	0.99	-0.70	-0.40	0.05	-0.35
prima.donnas		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence		0.94	0.93	-0.49	0.92	0.70	-0.74	0.55	-0.58	-0.68	0.09	0.31	-	0.74	0.84	-0.75	-0.76	-	-	-	-0.71	0.90	0.27	-0.33	0.10
black.cloud		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links		-0.69	-0.79	0.76	-0.65	-0.91	0.89	-0.39	0.92	0.96	0.21	-0.01	-	-0.48	-0.73	0.97	0.99	-	-0.71	-	-	-0.63	-0.39	-0.04	-0.38
			core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr	global.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core		ratio.ml.code.core	
org.silo		0.29	0.60	-0.38	-0.44	0.04	-0.09	-0.89	-0.71	-0.22	-0.20	-0.80	0.07	0.83	0.62	-0.52	-0.73	0.95	-0.41	-0.97	0.95	-0.22			
prima.donnas		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence		-0.41	-0.69	0.02	0.43	0.28	0.30	0.93	0.58	-0.07	0.36	0.66	-0.43	-0.85	-0.81	0.33	0.84	-0.79	0.79	0.74	-0.84	0.63			
black.cloud		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links		0.27	0.59	-0.39	-0.43	0.10	-0.02	-0.85	-0.69	-0.26	-0.15	-0.78	0.05	0.79	0.56	-0.50	-0.73	0.94	-0.37	-0.96	0.93	-0.18			

Community smells: Spearman's correlation - p-values (Node.js)

	devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.silo	0.01	0.00	0.01	0.01	0.00	0.00	0.23	0.00	0.00	0.52	0.97	-	0.10	0.01	0.00	-	-	0.00	-	0.00	0.01	0.20	0.90	0.30
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.00	0.00	0.11	0.00	0.01	0.01	0.06	0.05	0.02	0.78	0.33	-	0.01	0.00	0.01	0.00	-	-	-	0.01	0.00	0.39	0.32	0.77
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.02	0.00	0.01	0.02	0.00	0.00	0.21	0.00	0.00	0.52	0.97	-	0.12	0.01	0.00	0.00	-	0.01	-	-	0.03	0.21	0.92	0.25
	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr	global.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core			
org.silo	0.39	0.06	0.25	0.18	0.90	0.78	0.00	0.01	0.50	0.54	0.00	0.83	0.00	0.03	0.09	0.01	0.00	0.19	0.00	0.00	0.48			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.20	0.02	0.95	0.19	0.37	0.35	0.00	0.05	0.83	0.25	0.02	0.17	0.00	0.00	0.30	0.00	0.00	0.00	0.01	0.00	0.03			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.42	0.06	0.24	0.19	0.75	0.96	0.00	0.02	0.42	0.65	0.00	0.89	0.00	0.06	0.10	0.01	0.00	0.24	0.00	0.00	0.57			