

Socio-technical analysis result (Git)

	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	code.turnover
1	2013-05 – 2013-08	340	231	13	96	0.6794	0.0382	0.2824	24	0.0706	2	0.0183	31	96	96	20	0	0	203	0	25	0.6711	0.9825	0.0000	0.0000	
2	2013-08 – 2013-11	305	225	7	73	0.7377	0.0230	0.2393	12	0.0393	0	0.0000	24	92	92	0	0	2	180	0	0	1.0000	1.0000	0.6574	0.7196	
3	2013-11 – 2014-02	295	173	35	87	0.5864	0.1186	0.2949	9	0.0305	1	0.0082	22	93	93	10	0	2	142	0	3	0.7000	0.9943	0.5933	0.2178	
4	2014-02 – 2014-05	353	251	11	91	0.7110	0.0312	0.2578	16	0.0453	0	0.0000	26	98	98	10	1	0	172	0	2	0.8333	0.9951	0.5463	0.6339	
5	2014-05 – 2014-08	257	181	11	65	0.7043	0.0428	0.2529	4	0.0156	0	0.0000	23	80	80	0	0	0	138	0	0	1.0000	1.0000	0.8033	0.7303	
6	2014-08 – 2014-11	741	141	490	110	0.1903	0.6613	0.1484	7	0.0094	0	0.0000	27	84	84	3	0	8	142	0	1	0.5000	0.9983	0.2445	0.0414	
7	2014-11 – 2015-02	270	189	12	69	0.7000	0.0444	0.2556	5	0.0185	0	0.0000	21	88	88	0	0	2	145	0	0	1.0000	1.0000	1.2166	1.6123	
8	2015-02 – 2015-05	407	228	88	91	0.5602	0.2162	0.2236	7	0.0172	0	0.0000	31	105	105	2	0	0	149	0	0	1.0000	1.0000	0.4343	0.1462	
9	2015-05 – 2015-08	288	198	23	67	0.6875	0.0799	0.2326	8	0.0278	0	0.0000	29	92	92	5	0	2	148	0	2	0.8000	0.9922	0.8115	0.8922	
10	2015-08 – 2015-11	301	207	21	73	0.6877	0.0698	0.2425	9	0.0299	0	0.0000	24	91	91	7	3	0	143	0	5	0.5455	0.9836	0.6112	0.3696	
11	2015-11 – 2016-01	270	174	26	70	0.6444	0.0963	0.2593	11	0.0407	2	0.0208	21	79	79	8	0	0	155	1	2	0.8182	0.9953	0.6725	0.4105	
12	2016-01 – 2016-04	323	240	16	67	0.7430	0.0495	0.2074	3	0.0093	0	0.0000	30	101	101	12	2	4	184	0	5	0.7500	0.9855	0.5599	0.5363	
	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	0.6294	0.7176	0.7064	0.8165	0.0112	0.3713	0.5867	0.1225	0.1219	0.5523	0.0268	80	4	16	0.8000	0.0400	0.1600					
2	0.4255	0.4255	2.0000	0.6321	0.5902	0.6984	0.6913	1.0000	0.0105	0.3460	0.5256	0.2118	0.2118	0.0000	0.0270	92	0	0	1.0000	0.0000	0.0000					
3	0.4108	0.4108	0.0000	0.5787	0.4847	0.6847	0.6423	0.9180	0.0069	0.2988	0.5065	0.2631	0.2613	0.5582	0.0241	84	1	9	0.8936	0.0106	0.0957					
4	0.4503	0.4503	0.5000	0.4859	0.4901	0.7224	0.7135	0.9020	0.0152	0.4266	0.6378	0.2708	0.2689	0.5804	0.0270	89	1	9	0.8990	0.0101	0.0909					
5	0.5506	0.5506	2.0000	0.4857	0.5370	0.6887	0.6748	1.0000	0.0134	0.4400	0.5875	0.3793	0.3793	0.0000	0.0296	80	0	0	1.0000	0.0000	0.0000					
6	0.3293	0.3293	0.0000	0.5656	0.1970	0.8866	0.6653	0.9950	0.0009	0.0549	0.1919	0.2888	0.2891	0.3324	0.0027	81	0	3	0.9643	0.0000	0.0357					
7	0.4884	0.4884	2.0000	0.1593	0.5481	0.6741	0.6589	1.0000	0.0095	0.4209	0.5898	0.1280	0.1280	0.0000	0.0236	88	0	0	1.0000	0.0000	0.0000					
8	0.4767	0.4767	0.0000	0.5374	0.3661	0.7420	0.6708	0.9888	0.0039	0.3371	0.5466	0.1021	0.1020	-0.4240	0.0150	103	0	2	0.9810	0.0000	0.0190					
9	0.5279	0.5279	0.2857	0.3688	0.5243	0.6806	0.6528	0.9444	0.0082	0.4424	0.6209	0.1214	0.0901	0.5620	0.0237	87	0	5	0.9457	0.0000	0.0543					
10	0.4372	0.4372	0.1667	0.5167	0.4850	0.6977	0.6750	0.9255	0.0084	0.4267	0.5471	0.1401	0.1431	0.2828	0.0195	85	1	6	0.9239	0.0109	0.0652					
11	0.4706	0.4824	0.5333	0.5208	0.5815	0.7074	0.6762	0.9167	0.0082	0.3217	0.4909	0.1157	0.0775	0.1953	0.0221	72	1	7	0.9000	0.0125	0.0875					
12	0.3333	0.3444	0.6000	0.5964	0.5820	0.6873	0.6710	0.8554	0.0094	0.4231	0.5997	0.1061	0.1186	0.6870	0.0215	89	0	12	0.8812	0.0000	0.1188					

Community smells: Pearson’s correlation (Git)

		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
org.silo		-0.12	0.37	-0.18	-0.22	0.27	-0.20	-0.12	-0.13	-0.12	-0.29	-0.28	0.08	0.27	0.27	0.25	-	-0.08	0.08	-0.17	0.06	-0.43	-0.64	-0.16
prima.donnas		0.76	-0.47	0.81	0.37	-0.71	0.76	-0.77	-0.37	-0.53	-0.30	-0.31	0.13	-0.12	-0.12	-0.17	-0.08	-	-0.12	-0.25	-0.20	-0.44	0.13	-0.37
radio.silence		-0.11	0.70	-0.29	0.12	0.38	-0.36	0.18	0.66	0.63	0.36	0.34	0.49	0.46	0.46	0.65	0.08	-0.12	-	0.01	0.69	-0.01	-0.49	-0.14
black.cloud		-0.18	-0.27	-0.10	-0.20	0.03	-0.06	0.19	0.24	0.39	0.89	0.93	-0.40	-0.49	-0.49	0.21	-0.17	-0.25	0.01	-	0.03	0.01	0.02	0.03
missing.links		-0.05	0.31	-0.15	0.30	0.14	-0.19	0.34	0.75	0.71	0.63	0.59	0.45	0.23	0.23	0.84	0.06	-0.20	0.69	0.03	-	-0.39	-0.74	-0.23
			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		-0.34	-0.33	-0.25	0.19	0.08	-0.16	0.14	-0.36	0.15	0.33	0.20	-0.22	-0.15	0.31	-0.04	0.08	0.00	0.29	-0.24	0.01	0.28		
prima.donnas		-0.72	-0.73	-0.18	0.15	-0.59	0.67	-0.37	0.21	-0.61	-0.72	-0.75	0.18	0.20	0.24	-0.71	-0.05	-0.37	-0.11	0.17	-0.39	-0.11		
radio.silence		-0.40	-0.38	0.17	0.37	0.53	-0.13	0.70	-0.68	0.41	0.19	0.31	-0.32	-0.28	0.37	0.34	0.05	0.59	0.64	-0.62	0.57	0.60		
black.cloud		0.12	0.17	-0.08	0.06	0.26	-0.04	0.07	-0.22	-0.03	-0.11	-0.11	-0.27	-0.37	-0.06	0.03	-0.61	0.42	0.17	-0.31	0.50	0.28		
missing.links		-0.45	-0.43	-0.52	0.29	0.37	-0.04	0.44	-0.78	0.20	0.09	0.17	-0.29	-0.26	0.43	0.20	-0.28	0.93	0.78	-0.81	0.92	0.75		

Community smells: Pearson's correlation - p-values (Git)

	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	0.71	0.24	0.57	0.49	0.40	0.53	0.72	0.68	0.71	0.37	0.38	0.80	0.40	0.40	0.44	-	0.81	0.81	0.61	0.86	0.16	0.03	0.64	0.68
prima.donnas	0.00	0.12	0.00	0.24	0.01	0.00	0.00	0.24	0.08	0.34	0.33	0.69	0.70	0.70	0.61	0.81	-	0.71	0.46	0.53	0.16	0.68	0.26	0.56
radio.silence	0.72	0.01	0.36	0.71	0.23	0.26	0.58	0.02	0.03	0.25	0.27	0.11	0.14	0.14	0.02	0.81	0.71	-	0.97	0.01	0.97	0.11	0.67	0.84
black.cloud	0.59	0.43	0.78	0.56	0.94	0.86	0.57	0.48	0.23	0.00	0.00	0.23	0.12	0.12	0.54	0.61	0.46	0.97	-	0.93	0.98	0.95	0.93	0.72
missing.links	0.88	0.33	0.63	0.35	0.68	0.56	0.28	0.00	0.01	0.03	0.04	0.14	0.47	0.47	0.00	0.86	0.53	0.01	0.93	-	0.21	0.01	0.50	0.39
	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	0.31	0.32	0.45	0.58	0.81	0.61	0.67	0.25	0.64	0.29	0.53	0.50	0.64	0.33	0.91	0.80	1.00	0.36	0.45	0.99	0.38			
prima.donnas	0.01	0.01	0.59	0.66	0.04	0.02	0.24	0.51	0.04	0.01	0.01	0.58	0.53	0.45	0.01	0.87	0.23	0.73	0.60	0.21	0.73			
radio.silence	0.22	0.25	0.62	0.26	0.08	0.69	0.01	0.01	0.19	0.56	0.33	0.31	0.39	0.24	0.28	0.89	0.05	0.03	0.03	0.05	0.04			
black.cloud	0.73	0.62	0.82	0.85	0.44	0.90	0.83	0.52	0.92	0.76	0.75	0.42	0.26	0.87	0.93	0.05	0.20	0.61	0.35	0.11	0.41			
missing.links	0.16	0.18	0.10	0.39	0.23	0.90	0.15	0.00	0.54	0.79	0.60	0.36	0.41	0.17	0.53	0.38	0.00	0.00	0.00	0.00	0.00			

Community smells: Spearman’s correlation (Git)

	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
org.silo	0.21	0.53	-0.18	-0.08	0.50	-0.20	-0.17	-0.03	-0.06	-0.33	-0.33	0.15	0.31	0.31	0.42	-	-0.09	0.20	-0.19	0.51	-0.31	-0.51	-0.28
prima.donnas	0.16	-0.29	0.21	-0.06	0.03	0.25	-0.50	-0.43	-0.53	-0.29	-0.29	0.03	-0.01	-0.01	-0.09	-0.09	-	-0.10	-0.32	-0.06	-0.26	0.05	-0.13
radio.silence	0.35	0.77	-0.32	0.15	0.38	-0.48	0.05	0.45	0.43	0.24	0.22	0.47	0.54	0.54	0.48	0.20	-0.10	-	0.20	0.35	0.07	-0.33	-0.13
black.cloud	-0.35	-0.30	0.20	-0.10	-0.20	0.20	0.40	0.30	0.40	0.74	0.74	-0.45	-0.50	-0.50	0.20	-0.19	-0.32	0.20	-	0.10	0.00	0.00	0.20
missing.links	0.16	0.27	0.16	0.17	-0.00	0.01	0.29	0.34	0.32	0.49	0.46	0.29	0.29	0.29	0.91	0.51	-0.06	0.35	0.10	-	-0.76	-0.98	-0.20
		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	-0.33	-0.33	-0.02	0.08	-0.04	-0.01	0.32	-0.44	0.25	0.42	0.41	-0.06	0.06	0.48	-0.18	0.27	0.22	0.42	-0.40	0.17	0.40		
prima.donnas	-0.58	-0.58	-0.04	0.39	-0.08	-0.28	-0.57	0.21	-0.39	-0.27	-0.12	0.07	0.11	0.31	-0.29	0.20	-0.54	-0.09	0.07	-0.55	-0.07		
radio.silence	-0.20	-0.19	0.30	0.36	0.68	0.21	0.59	-0.57	0.35	0.01	0.27	-0.56	-0.50	0.28	0.12	0.32	0.24	0.48	-0.46	0.23	0.46		
black.cloud	0.10	0.20	0.10	0.00	0.30	0.20	0.30	-0.30	-0.15	-0.30	-0.40	-0.30	-0.50	-0.10	-0.10	-0.50	0.42	0.20	-0.20	0.58	0.20		
missing.links	-0.47	-0.42	-0.35	0.20	0.19	-0.05	0.18	-0.87	0.03	0.09	0.12	-0.22	-0.23	0.73	-0.11	-0.31	0.70	0.91	-0.92	0.69	0.92		

Community smells: Spearman’s correlation - p-values (Git)

	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	0.51	0.07	0.58	0.80	0.10	0.53	0.61	0.92	0.84	0.30	0.30	0.64	0.32	0.32	0.17	-	0.78	0.53	0.57	0.09	0.33	0.09	0.40	0.77
prima.donnas	0.63	0.36	0.50	0.85	0.92	0.43	0.10	0.17	0.08	0.36	0.36	0.92	0.98	0.98	0.78	0.78	-	0.76	0.33	0.85	0.42	0.88	0.70	0.91
radio.silence	0.26	0.00	0.31	0.64	0.23	0.12	0.89	0.15	0.16	0.46	0.50	0.12	0.07	0.07	0.12	0.53	0.76	-	0.55	0.27	0.83	0.30	0.71	0.65
black.cloud	0.29	0.37	0.55	0.77	0.56	0.56	0.22	0.37	0.22	0.01	0.01	0.16	0.12	0.12	0.55	0.57	0.33	0.55	-	0.76	1.00	1.00	0.56	0.77
missing.links	0.62	0.40	0.62	0.61	0.99	0.98	0.36	0.28	0.31	0.11	0.13	0.37	0.37	0.37	0.00	0.09	0.85	0.27	0.76	-	0.00	0.00	0.55	0.40

	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.snelly.quitters	ratio.snelly.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	0.32	0.32	0.95	0.83	0.91	0.98	0.31	0.15	0.44	0.17	0.18	0.87	0.87	0.11	0.58	0.39	0.49	0.17	0.20	0.59	0.20
prima.donnas	0.06	0.06	0.90	0.24	0.80	0.37	0.05	0.51	0.22	0.40	0.71	0.82	0.73	0.33	0.36	0.53	0.07	0.78	0.83	0.06	0.83
radio.silence	0.55	0.57	0.38	0.28	0.02	0.52	0.04	0.05	0.26	0.97	0.39	0.06	0.09	0.39	0.71	0.31	0.45	0.12	0.14	0.47	0.14
black.cloud	0.77	0.56	0.77	1.00	0.37	0.56	0.37	0.37	0.66	0.37	0.22	0.37	0.12	0.77	0.77	0.12	0.20	0.55	0.55	0.06	0.55
missing.links	0.15	0.19	0.30	0.55	0.56	0.88	0.58	0.00	0.94	0.78	0.71	0.50	0.47	0.01	0.74	0.33	0.01	0.00	0.00	0.01	0.00