

Socio-technical analysis result (Sympy)

	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		124	68	38	18	0.5484	0.3065	0.1452	3	0.0242	0	0.0000	1	39	31	18	83	0	31	0	114	0.0500	0.6308	0.0000	0.0000	
2	2013-08 – 2013-11		107	81	16	10	0.7570	0.1495	0.0935	1	0.0093	0	0.0000	1	35	34	6	5	0	47	0	7	0.2222	0.8974	0.5714	0.8780	
3	2013-11 – 2014-02		158	105	39	14	0.6646	0.2468	0.0886	2	0.0127	1	0.0189	1	47	43	11	27	0	58	0	30	0.1176	0.8402	0.3925	0.2278	
4	2014-02 – 2014-05		195	136	46	13	0.6974	0.2359	0.0667	6	0.0308	0	0.0000	1	52	45	14	48	0	89	0	51	0.0377	0.8116	0.5382	0.5536	
5	2014-05 – 2014-08		114	75	30	9	0.6579	0.2632	0.0789	3	0.0263	1	0.0256	1	34	30	11	33	0	36	0	42	0.0000	0.7271	0.9256	0.7959	
6	2014-08 – 2014-11		104	66	27	11	0.6346	0.2596	0.1058	6	0.0577	1	0.0263	1	33	28	10	33	0	30	0	35	0.0278	0.7317	0.6881	0.6234	
7	2014-11 – 2015-02		159	114	30	15	0.7170	0.1887	0.0943	10	0.0629	1	0.0222	1	51	42	15	79	0	69	0	87	0.0842	0.6302	0.4791	0.6024	
8	2015-02 – 2015-05		125	82	29	14	0.6560	0.2320	0.1120	5	0.0400	1	0.0233	1	37	34	9	22	0	55	1	27	0.0690	0.7979	0.7817	0.6364	
9	2015-05 – 2015-08		112	61	37	14	0.5446	0.3304	0.1250	2	0.0179	1	0.0196	1	32	28	13	17	0	34	0	22	0.1852	0.9027	0.6667	0.5106	
10	2015-08 – 2015-11		98	60	27	11	0.6122	0.2755	0.1122	4	0.0408	0	0.0000	1	26	26	3	4	0	43	0	6	0.2500	0.8816	0.7905	0.8315	
11	2015-11 – 2016-02		134	79	39	16	0.5896	0.2910	0.1194	5	0.0373	0	0.0000	1	40	34	12	25	0	46	1	25	0.0385	0.8357	0.5690	0.5161	
12	2016-02 – 2016-05		196	135	39	22	0.6888	0.1990	0.1122	11	0.0561	3	0.0492	1	53	49	16	24	0	83	1	28	0.0968	0.8715	0.4970	0.6207	
		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	
1	0.0000	0.0000	0.0000	0.0000	0.5403	0.6855	0.6395	0.6786	0.0185	0.3880	0.5580	0.5499	0.3663	0.4016	0.0518	25	12	6	0.5814	0.2791	0.1395						
2	0.4595	0.3385	1.2500	0.5303	0.4860	0.6729	0.6264	0.7692	0.0225	0.5350	0.6845	0.3223	0.1541	0.2346	0.0513	30	2	4	0.8333	0.0556	0.1111						
3	0.3659	0.4156	0.3529	0.5577	0.4620	0.7025	0.6387	0.7925	0.0110	0.4350	0.5578	0.5676	0.3023	0.5912	0.0282	38	6	5	0.7755	0.1224	0.1020						
4	0.4040	0.4545	0.5600	0.3789	0.5846	0.7333	0.6980	0.7627	0.0104	0.3014	0.4457	0.2917	0.2197	0.3634	0.0285	41	10	4	0.7455	0.1818	0.0727						
5	0.6279	0.5867	0.5600	0.5874	0.5000	0.7018	0.6429	0.7179	0.0203	0.3025	0.4096	0.5134	0.2570	0.3045	0.0418	24	5	6	0.6857	0.1429	0.1714						
6	0.4179	0.4138	0.5714	0.4133	0.4904	0.6827	0.6364	0.7368	0.0211	0.3258	0.4987	0.4729	0.3055	0.3947	0.0547	25	7	3	0.7143	0.2000	0.0857						
7	0.2143	0.2286	0.4000	0.5079	0.6101	0.6792	0.6744	0.6667	0.0347	0.4059	0.4544	0.3702	0.1767	0.3264	0.0330	36	9	6	0.7059	0.1765	0.1176						
8	0.6591	0.6316	0.8333	0.5946	0.5520	0.7040	0.6458	0.7907	0.0156	0.2390	0.4135	0.3312	0.1628	0.2159	0.0381	29	4	5	0.7632	0.1053	0.1316						
9	0.5217	0.5161	0.3636	0.5190	0.4732	0.7143	0.6267	0.7451	0.0141	0.2291	0.3460	0.4516	0.1318	0.2342	0.0323	21	6	7	0.6176	0.1765	0.2059						
10	0.5862	0.4815	1.3750	0.4096	0.4796	0.7347	0.6338	0.9211	0.0158	0.3589	0.4807	0.3318	0.2132	0.1007	0.0347	23	0	3	0.8846	0.0000	0.1154						
11	0.3333	0.3667	0.0000	0.4545	0.4851	0.7015	0.6421	0.7818	0.0133	0.3554	0.4301	0.4485	0.2795	0.0763	0.0285	30	8	4	0.7143	0.1905	0.0952						
12	0.3656	0.3614	0.5714	0.5000	0.5561	0.7296	0.6879	0.7377	0.0111	0.3539	0.4577	0.4167	0.3899	0.2552	0.0243	42	9	7	0.7241	0.1552	0.1207						

Community smells: Pearson's correlation (Sympy)

	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	0.33	0.26	0.36	0.34	-0.08	0.07	0.10	0.35	0.28	-0.07	-0.04	-	0.48	0.25	0.76	-	-	0.12	-0.16	0.98	-0.56	-0.89	-0.32	-0.28
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.91	0.96	0.43	0.41	0.61	-0.56	-0.50	0.63	0.28	0.35	0.23	-	0.85	0.91	0.28	0.12	-	-	0.25	0.02	-0.09	0.14	-0.59	-0.24
black.cloud	0.27	0.19	0.23	0.68	-0.12	-0.03	0.49	0.40	0.31	0.38	0.30	-	0.23	0.27	0.24	-0.16	-	0.25	-	-0.17	-0.27	0.18	-0.05	-0.10
missing.links	0.24	0.16	0.33	0.35	-0.17	0.13	0.21	0.25	0.19	-0.09	-0.07	-	0.39	0.16	0.75	0.98	-	0.02	-0.17	-	-0.51	-0.89	-0.26	-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	-0.60	-0.41	-0.50	-0.08	0.67	-0.34	0.40	-0.74	0.45	0.04	-0.02	0.27	0.29	0.45	0.14	0.19	0.80	0.32	-0.62	0.75	-0.07			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.46	-0.33	-0.10	-0.18	0.66	0.44	0.90	-0.03	-0.19	0.06	-0.07	-0.49	0.05	0.11	-0.67	0.92	0.29	0.14	0.26	-0.07	-0.45			
black.cloud	0.01	0.10	-0.25	0.18	0.19	0.20	0.22	0.04	-0.35	-0.24	-0.27	-0.09	0.34	-0.45	-0.37	0.25	0.21	0.19	-0.07	0.14	-0.08			
missing.links	-0.54	-0.36	-0.48	-0.01	0.60	-0.35	0.30	-0.73	0.41	0.04	0.02	0.33	0.33	0.43	0.22	0.09	0.77	0.36	-0.66	0.75	0.03			

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

	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	0.30	0.42	0.25	0.28	0.80	0.84	0.76	0.27	0.38	0.83	0.91	-	0.11	0.44	0.00	-	-	0.70	0.64	0.00	0.06	0.00	0.34	0.40																			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
radio.silence	0.00	0.00	0.17	0.18	0.04	0.06	0.09	0.03	0.37	0.27	0.47	-	0.00	0.00	0.37	0.70	-	-	0.45	0.95	0.78	0.67	0.06	0.48																			
black.cloud	0.42	0.57	0.49	0.02	0.72	0.93	0.12	0.22	0.35	0.25	0.37	-	0.50	0.42	0.48	0.64	-	0.45	-	0.61	0.43	0.60	0.89	0.78																			
missing.links	0.45	0.62	0.30	0.26	0.59	0.68	0.52	0.44	0.56	0.77	0.83	-	0.21	0.63	0.01	0.00	-	0.95	0.61	-	0.09	0.00	0.44	0.47																			
		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	0.05	0.21	0.12	0.82	0.02	0.28	0.20	0.01	0.14	0.91	0.95	0.95	0.40	0.36	0.15	0.67	0.55	0.00	0.31	0.03	0.01	0.84																					
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																					
radio.silence	0.16	0.32	0.76	0.60	0.02	0.15	0.00	0.94	0.55	0.85	0.83	0.11	0.87	0.74	0.02	0.00	0.36	0.67	0.41	0.83	0.14																						
black.cloud	0.98	0.78	0.46	0.59	0.58	0.56	0.52	0.90	0.29	0.47	0.43	0.80	0.31	0.17	0.26	0.46	0.54	0.58	0.83	0.69	0.81																						
missing.links	0.09	0.28	0.13	0.99	0.04	0.27	0.34	0.01	0.19	0.90	0.95	0.30	0.30	0.16	0.50	0.77	0.00	0.25	0.02	0.01	0.92																						

Community smells: Spearman’s correlation (Sympy)

	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	0.44	0.32	0.42	0.27	0.10	0.03	-0.20	0.35	0.19	0.02	0.08	-	0.48	0.28	0.66	-	-	0.02	-0.19	0.98	-0.70	-0.85	-0.38	-0.36																			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
radio.silence	0.80	0.91	0.46	0.25	0.73	-0.69	-0.47	0.40	0.13	0.14	-0.01	-	0.79	0.88	0.21	0.02	-	-	0.26	0.08	0.16	0.08	-0.70	-0.22																			
black.cloud	0.39	0.26	0.26	0.65	-0.19	-0.06	0.49	0.39	0.26	0.22	0.23	-	0.39	0.33	0.19	-0.19	-	0.26	-	-0.19	-0.13	0.00	-0.06	-0.06																			
missing.links	0.47	0.38	0.39	0.25	0.17	-0.06	-0.25	0.37	0.20	0.14	0.19	-	0.50	0.32	0.67	0.98	-	0.08	-0.19	-	-0.66	-0.85	-0.35	-0.28																			
		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	-0.48	-0.21	-0.49	-0.13	0.54	-0.34	0.53	-0.70	0.09	0.07	0.07	0.07	0.36	0.48	0.73	0.13	0.27	0.79	0.19	-0.59	0.72	-0.11																					
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	-0.48	-0.35	-0.06	-0.08	0.46	0.29	0.65	0.20	-0.44	0.13	-0.04	-0.53	-0.06	0.01	-0.71	0.85	0.20	0.12	0.44	-0.29	-0.31																						
black.cloud	-0.13	0.00	-0.03	0.13	0.19	0.13	0.39	0.19	-0.32	-0.19	-0.26	-0.13	0.26	-0.52	-0.36	0.29	0.16	0.20	0.03	0.06	0.13																						
missing.links	-0.37	-0.14	-0.36	-0.03	0.62	-0.27	0.59	-0.73	0.10	0.02	0.06	0.33	0.46	0.76	0.13	0.29	0.75	0.29	-0.57	0.62	0.00																						

Community smells: Spearman's correlation - p-values (Sympy)

	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	0.15	0.31	0.18	0.40	0.76	0.92	0.53	0.26	0.56	0.94	0.80	-	0.11	0.38	0.02	-	-	0.94	0.57	0.00	0.01	0.00	0.25	0.27																			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
radio.silence	0.00	0.00	0.13	0.43	0.01	0.02	0.12	0.19	0.68	0.66	0.98	-	0.00	0.00	0.50	0.94	-	-	0.44	0.80	0.62	0.82	0.02	0.52																			
black.cloud	0.24	0.44	0.44	0.03	0.57	0.85	0.13	0.24	0.44	0.52	0.49	-	0.24	0.33	0.57	0.57	-	0.44	-	0.57	0.71	1.00	0.85	0.85																			
missing.links	0.13	0.23	0.22	0.43	0.60	0.87	0.44	0.24	0.54	0.67	0.56	-	0.10	0.31	0.02	0.00	-	0.80	0.57	-	0.02	0.00	0.30	0.40																			
		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	0.13	0.53	0.13	0.70	0.07	0.28	0.07	0.01	0.77	0.84	0.82	0.25	0.11	0.01	0.69	0.39	0.00	0.56	0.04	0.01	0.74																						
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
radio.silence	0.14	0.30	0.86	0.82	0.13	0.37	0.03	0.53	0.15	0.70	0.90	0.08	0.87	0.97	0.01	0.00	0.53	0.70	0.15	0.36	0.33																						
black.cloud	0.71	1.00	0.92	0.71	0.57	0.71	0.24	0.57	0.33	0.57	0.44	0.71	0.44	0.10	0.28	0.39	0.63	0.56	0.92	0.85	0.71																						
missing.links	0.26	0.69	0.28	0.95	0.03	0.39	0.05	0.01	0.77	0.96	0.85	0.30	0.13	0.01	0.68	0.36	0.00	0.37	0.05	0.03	1.00																						