

Socio-technical analysis result (GIMP)

	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	93	67	19	7	0.7204	0.2043	0.0753	4	0.0430	0	0.0000	1	36	33	6	14	0	13	0	17	0.0556	0.6709	0.0000	0.0000	
2	2013-08 – 2013-11	94	71	14	9	0.7553	0.1489	0.0957	3	0.0319	0	0.0000	1	38	37	6	7	0	18	0	13	0.1875	0.7255	0.5668	0.6122	
3	2013-11 – 2014-02	99	63	25	11	0.6364	0.2525	0.1111	6	0.0606	0	0.0000	1	29	29	2	1	0	43	0	4	0.2000	0.9111	0.5699	0.3729	
4	2014-02 – 2014-05	87	56	22	9	0.6437	0.2529	0.1034	4	0.0460	1	0.0323	1	32	30	8	15	0	13	0	16	0.2000	0.7226	0.6237	0.5672	
5	2014-05 – 2014-08	81	62	12	7	0.7654	0.1481	0.0864	2	0.0247	0	0.0000	1	28	27	5	4	0	21	0	6	0.3333	0.7251	0.5000	0.6400	
6	2014-08 – 2014-11	79	56	17	6	0.7089	0.2152	0.0759	4	0.0506	0	0.0000	1	27	26	5	5	0	24	0	8	0.1111	0.7778	0.4875	0.3810	
7	2014-11 – 2015-02	64	31	25	8	0.4844	0.3906	0.1250	3	0.0469	0	0.0000	1	18	18	3	1	0	16	0	1	0.6667	0.9798	0.6853	0.4643	
8	2015-02 – 2015-05	83	52	23	8	0.6265	0.2771	0.0964	3	0.0361	1	0.0323	1	27	26	5	10	0	29	0	11	0.0833	0.7930	0.4898	0.5938	
9	2015-05 – 2015-08	77	52	17	8	0.6753	0.2208	0.1039	4	0.0519	1	0.0400	1	29	29	3	3	0	12	0	5	0.0000	0.7760	0.5750	0.5357	
10	2015-08 – 2015-11	67	36	22	9	0.5373	0.3284	0.1343	6	0.0896	0	0.0000	1	20	19	4	4	0	12	0	5	0.3750	0.8589	0.5972	0.5000	
11	2015-11 – 2016-02	96	54	33	9	0.5625	0.3438	0.0938	6	0.0625	0	0.0000	1	31	28	7	13	0	17	0	18	0.1000	0.8012	0.3313	0.3288	
12	2016-02 – 2016-05	91	51	29	11	0.5604	0.3187	0.1209	5	0.0549	0	0.0000	1	30	29	6	10	0	18	0	12	0.2000	0.8433	0.5241	0.4390	
	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	0.2581	0.6129	0.5541	0.7692	0.0177	0.1837	0.2425	0.1586	0.4265	-0.2973	0.0510	31	4	2	0.8378	0.1081	0.0541					
2	0.4324	0.3714	0.3333	0.1698	0.2766	0.5957	0.5375	0.7391	0.0219	0.2223	0.3516	0.2937	0.3168	0.0115	0.0677	34	3	3	0.8500	0.0750	0.0750					
3	0.5970	0.5758	1.2500	0.2000	0.4646	0.7071	0.6081	0.9444	0.0159	0.1514	0.3746	0.2453	0.1371	-0.3485	0.0744	28	1	1	0.9333	0.0333	0.0333					
4	0.3279	0.3729	0.0000	0.4828	0.3103	0.6322	0.5385	0.7419	0.0234	0.1824	0.3526	0.3965	0.3816	0.0209	0.0893	26	4	4	0.7647	0.1176	0.1176					
5	0.5000	0.4912	0.7692	0.2619	0.3210	0.6543	0.6087	0.7368	0.0292	0.2789	0.4031	0.4309	0.2641	-0.3237	0.0719	25	3	2	0.8333	0.1000	0.0667					
6	0.5091	0.5660	0.4000	0.2308	0.4051	0.6582	0.5806	0.7826	0.0193	0.1423	0.3340	0.4187	0.2345	0.0957	0.0763	24	3	2	0.8276	0.1034	0.0690					
7	0.5778	0.5000	0.7500	0.3878	0.2656	0.7188	0.5385	0.9091	0.0182	0.1219	0.2842	0.4568	0.0929	0.1655	0.0650	17	2	1	0.8500	0.1000	0.0500					
8	0.4444	0.5000	0.2500	0.2222	0.4217	0.6747	0.5667	0.8387	0.0186	0.1364	0.3354	0.4347	0.0426	0.0336	0.0914	24	3	2	0.8276	0.1034	0.0690					
9	0.4643	0.4727	0.7500	0.4348	0.1948	0.6234	0.5167	0.8800	0.0190	0.1152	0.2630	0.5231	0.2629	-0.4226	0.0660	29	3	0	0.9062	0.0938	0.0000					
10	0.7347	0.7917	0.2857	0.2326	0.2388	0.7015	0.5778	0.8710	0.0207	0.1380	0.2259	0.3461	0.3384	-0.2910	0.0620	18	3	1	0.8182	0.1364	0.0455					
11	0.2745	0.2979	0.3636	0.2593	0.2708	0.6771	0.5556	0.8333	0.0152	0.1391	0.3447	0.1340	0.1591	0.0011	0.0553	26	5	2	0.7879	0.1515	0.0606					
12	0.5246	0.4912	0.6154	0.2653	0.2967	0.6703	0.5323	0.8500	0.0164	0.1047	0.2773	0.4336	0.3696	0.3044	0.0894	27	4	2	0.8182	0.1212	0.0606					

Community smells: Pearson's correlation (GIMP)

	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	0.49	0.33	0.28	0.01	0.09	-0.02	-0.37	0.07	-0.14	0.25	0.19	-	0.58	0.46	0.90	-	-	-0.34	-	0.95	-0.48	-0.61	-0.44	0.05
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.39	0.28	0.11	0.29	0.10	-0.10	-0.08	0.13	-0.10	-0.11	-0.14	-	-0.01	0.06	-0.43	-0.34	-	-	-	-0.27	-0.09	0.33	-0.16	-0.27
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.65	0.51	0.23	0.03	0.23	-0.15	-0.48	0.12	-0.17	0.11	0.06	-	0.74	0.63	0.89	0.95	-	-0.27	-	-	-0.57	-0.67	-0.57	-0.02
	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	-0.75	-0.58	-0.74	0.17	-0.12	-0.45	-0.32	-0.55	-0.10	0.07	-0.03	-0.42	0.41	0.29	0.10	0.35	0.84	0.70	-0.72	0.53	0.61			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.16	0.14	0.56	-0.54	0.91	0.40	0.65	0.37	-0.22	0.01	0.57	-0.12	-0.58	-0.07	0.35	0.09	-0.62	-0.11	0.51	-0.69	-0.09			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.80	-0.67	-0.66	-0.03	-0.10	-0.55	-0.29	-0.59	-0.13	0.15	0.07	-0.57	0.41	0.25	-0.02	0.54	0.83	0.70	-0.61	0.43	0.55			

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

	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	0.10	0.30	0.38	0.99	0.78	0.96	0.23	0.82	0.66	0.43	0.55	-	0.05	0.13	0.00	-	-	0.27	-	0.00	0.12	0.03	0.18	0.89
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.21	0.37	0.74	0.36	0.75	0.75	0.80	0.68	0.77	0.73	0.66	-	0.96	0.86	0.16	0.27	-	-	-	0.39	0.79	0.30	0.65	0.42
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.02	0.09	0.48	0.92	0.48	0.64	0.12	0.72	0.60	0.74	0.85	-	0.01	0.03	0.00	0.00	-	0.39	-	-	0.05	0.02	0.07	0.94
	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	0.01	0.06	0.01	0.62	0.72	0.14	0.30	0.07	0.77	0.83	0.93	0.17	0.19	0.36	0.75	0.26	0.00	0.01	0.01	0.07	0.04			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.64	0.68	0.07	0.09	0.00	0.20	0.02	0.24	0.50	0.98	0.05	0.71	0.05	0.83	0.27	0.79	0.03	0.72	0.09	0.01	0.77			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.00	0.02	0.03	0.93	0.75	0.06	0.36	0.04	0.68	0.64	0.82	0.05	0.19	0.44	0.95	0.07	0.00	0.01	0.03	0.16	0.07			

Community smells: Spearman's correlation (GIMP)

	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	0.41	0.26	0.11	0.02	0.17	-0.04	-0.47	0.07	-0.20	0.22	0.16	-	0.63	0.47	0.93	-	-	-0.14	-	0.94	-0.40	-0.59	-0.41	0.08
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.40	0.33	0.08	0.02	0.19	-0.22	-0.26	-0.18	-0.25	-0.20	-0.25	-	-0.11	-0.09	-0.13	-0.14	-	-	-	-0.09	0.03	0.19	-0.58	-0.09
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.57	0.41	0.06	0.03	0.29	-0.14	-0.60	0.09	-0.19	0.06	0.01	-	0.76	0.57	0.94	0.94	-	-0.09	-	-	-0.48	-0.60	-0.49	0.07
	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	-0.72	-0.57	-0.75	0.09	0.02	-0.46	-0.21	-0.60	-0.00	0.22	-0.01	-0.39	0.52	0.27	0.09	0.26	0.88	0.78	-0.70	0.63	0.62			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.07	0.27	0.27	-0.66	0.91	0.23	0.53	-0.06	-0.17	0.20	0.62	-0.05	-0.53	0.19	0.59	-0.05	-0.34	0.20	0.18	-0.37	0.31			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.81	-0.72	-0.62	-0.01	-0.02	-0.53	-0.22	-0.65	-0.08	0.32	0.07	-0.54	0.47	0.15	-0.06	0.43	0.89	0.77	-0.57	0.53	0.58			

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

	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	0.18	0.42	0.74	0.96	0.61	0.90	0.12	0.84	0.53	0.48	0.63	-	0.03	0.13	0.00	-	-	0.67	-	0.00	0.20	0.04	0.21	0.82
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.19	0.30	0.81	0.94	0.56	0.48	0.42	0.57	0.44	0.54	0.44	-	0.74	0.78	0.69	0.67	-	-	-	0.79	0.93	0.55	0.06	0.80
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.05	0.19	0.85	0.92	0.37	0.66	0.04	0.79	0.56	0.86	0.98	-	0.00	0.05	0.00	0.00	-	0.79	-	-	0.11	0.04	0.13	0.84
	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	0.01	0.07	0.01	0.79	0.94	0.13	0.51	0.04	0.99	0.49	0.98	0.21	0.08	0.39	0.77	0.42	0.00	0.00	0.01	0.03	0.03			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.84	0.42	0.42	0.03	0.00	0.48	0.08	0.86	0.60	0.53	0.03	0.88	0.08	0.55	0.04	0.87	0.28	0.52	0.57	0.23	0.32			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.00	0.01	0.04	0.97	0.94	0.08	0.49	0.02	0.80	0.31	0.83	0.07	0.12	0.63	0.85	0.17	0.00	0.00	0.05	0.08	0.05			