

Socio-technical analysis result ( Blender )

	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	2013-06 – 2013-09		150	116	10	24	0.7733	0.0667	0.1600	1	0.0067	0	0.0000	1	57	56	12	20	0	34	0	39	0.4935	0.8151	0.0000	0.0000
2	2013-09 – 2013-12		140	94	18	28	0.6714	0.1286	0.2000	6	0.0429	1	0.0217	1	58	55	16	39	0	42	0	71	0.3826	0.7647	0.4621	0.2000
3	2013-12 – 2014-03		154	102	28	24	0.6623	0.1818	0.1558	7	0.0455	2	0.0385	1	64	58	20	84	0	36	0	134	0.2118	0.6904	0.4422	0.3673
4	2014-03 – 2014-05		145	104	18	23	0.7172	0.1241	0.1586	10	0.0690	0	0.0000	1	57	53	14	41	0	44	0	67	0.3679	0.7835	0.5217	0.5376
5	2014-05 – 2014-08		104	71	13	20	0.6827	0.1250	0.1923	5	0.0481	0	0.0000	1	40	38	11	22	0	26	0	47	0.2985	0.7693	0.6185	0.4595
6	2014-08 – 2014-11		125	87	15	23	0.6960	0.1200	0.1840	8	0.0640	1	0.0263	1	48	47	11	17	0	40	0	36	0.4545	0.8206	0.4105	0.2535
7	2014-11 – 2015-02		110	70	21	19	0.6364	0.1909	0.1727	5	0.0455	0	0.0000	1	44	40	14	57	0	28	0	77	0.2143	0.6768	0.6468	0.3590
8	2015-02 – 2015-05		115	78	17	20	0.6783	0.1478	0.1739	2	0.0174	0	0.0000	1	47	43	15	59	0	39	1	108	0.1940	0.6017	0.4356	0.3636
9	2015-05 – 2015-08		92	58	15	19	0.6304	0.1630	0.2065	5	0.0543	0	0.0000	1	33	29	13	34	0	26	0	63	0.1600	0.6553	0.5894	0.3662
10	2015-08 – 2015-11		94	66	8	20	0.7021	0.0851	0.2128	3	0.0319	0	0.0000	1	40	39	11	13	0	25	0	26	0.4694	0.7872	0.4409	0.3871
11	2015-11 – 2016-02		120	85	16	19	0.7083	0.1333	0.1583	7	0.0583	1	0.0286	1	47	44	15	46	0	21	0	78	0.3158	0.7140	0.3738	0.1905
12	2016-02 – 2016-05		143	108	15	20	0.7552	0.1049	0.1399	1	0.0070	1	0.0286	1	53	49	12	26	0	29	0	41	0.2931	0.7862	0.4030	0.3143
	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					
1	0.0000	0.0000	0.0000	0.0000	0.3333	0.6200	0.6000	0.6471	0.0423	0.1721	0.5093		0.1915	0.1354	0.0105	0.1015	47	3	9	0.7966	0.0508				0.1525	
2	0.4870	0.5405	0.2857	0.2239	0.4714	0.5857	0.5492	0.6522	0.0212	0.3053	0.4827		0.0582	0.2361	0.0287	0.0568	45	6	10	0.7377	0.0984				0.1639	
3	0.3770	0.4248	0.3333	0.3385	0.4610	0.5844	0.5397	0.6154	0.0182	0.3122	0.4687		0.0841	0.3683	0.0692	0.0476	48	10	10	0.7059	0.1471				0.1471	
4	0.5455	0.5586	0.7059	0.4487	0.4552	0.6069	0.5827	0.6585	0.0399	0.3090	0.4766		0.1189	0.3350	0.1295	0.0581	43	4	10	0.7544	0.0702				0.1754	
5	0.5979	0.6593	0.3200	0.3896	0.4038	0.6154	0.5824	0.6667	0.0197	0.1956	0.3622		0.3091	0.3028	0.2469	0.0650	31	4	7	0.7381	0.0952				0.1667	
6	0.4091	0.4941	0.2727	0.2340	0.4320	0.6160	0.5727	0.7105	0.0249	0.2868	0.4710		0.2004	0.2366	0.1714	0.0613	38	2	9	0.7755	0.0408				0.1837	
7	0.5870	0.6667	0.2400	0.3947	0.4727	0.6000	0.5506	0.6500	0.0171	0.2792	0.4285		0.1203	0.3096	0.1144	0.0485	31	5	9	0.6889	0.1111				0.2000	
8	0.3736	0.5301	0.2759	0.3673	0.5478	0.5913	0.5612	0.5946	0.0746	0.2120	0.3669		0.2691	0.4193	0.2860	0.0717	34	6	9	0.6939	0.1224				0.1837	
9	0.5500	0.6667	0.2857	0.4918	0.5109	0.6413	0.6234	0.6176	0.0770	0.2628	0.3433		0.1763	0.3096	0.1684	0.0743	21	5	8	0.6176	0.1471				0.2353	
10	0.3014	0.2941	0.4167	0.4390	0.3936	0.5745	0.5465	0.6071	0.0493	0.2991	0.4232		0.0350	0.3874	0.1892	0.0714	30	2	9	0.7317	0.0488				0.2195	
11	0.3678	0.4096	0.2308	0.2000	0.3833	0.6083	0.5769	0.5714	0.0380	0.2427	0.4909		0.2857	0.3116	0.2913	0.1057	35	6	9	0.7000	0.1200				0.1800	
12	0.4400	0.4516	0.5185	0.2453	0.3566	0.6294	0.6172	0.6571	0.0302	0.2425	0.3983		0.3987	0.3511	0.4127	0.0595	42	5	7	0.7778	0.0926				0.1296	

Community smells: Pearson's correlation ( Blender )

	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	0.29	0.08	0.91	0.06	-0.48	0.79	-0.37	0.26	0.13	0.43	0.31	-	0.40	0.26	0.92	-	-	0.19	0.30	0.98	-0.68	-0.71	0.02	0.01
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.60	0.50	0.33	0.74	0.08	-0.01	-0.13	0.32	0.09	0.16	0.09	-	0.64	0.64	0.29	0.19	-	-	0.28	0.24	0.20	0.14	-0.16	0.12
black.cloud	-0.11	-0.12	0.02	-0.16	-0.07	0.12	-0.05	-0.42	-0.47	-0.26	-0.28	-	-0.05	-0.08	0.14	0.30	-	0.28	-	0.42	-0.35	-0.63	-0.18	0.06
missing.links	0.27	0.06	0.86	0.11	-0.47	0.74	-0.30	0.25	0.12	0.43	0.31	-	0.38	0.25	0.92	0.98	-	0.24	0.42	-	-0.68	-0.74	-0.05	-0.01
		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	-0.04	0.08	-0.19	0.00	0.55	-0.37	-0.45	-0.43	-0.09	0.28	0.06	-0.19	0.42	-0.16	-0.33	0.22	0.90	0.47	-0.47	0.75	-0.15			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.03	0.09	0.33	-0.10	0.37	-0.24	-0.24	0.44	-0.09	0.31	0.35	-0.31	-0.16	-0.43	-0.41	0.60	0.08	0.59	0.37	-0.23	-0.32			
black.cloud	-0.28	0.03	-0.18	0.08	0.60	-0.22	-0.14	-0.35	0.57	-0.46	-0.38	0.23	0.55	0.28	0.13	-0.09	0.15	0.06	-0.19	0.22	0.04			
missing.links	-0.10	0.08	-0.23	-0.01	0.61	-0.37	-0.43	-0.47	0.02	0.21	0.01	-0.15	0.42	-0.14	-0.26	0.21	0.91	0.46	-0.48	0.77	-0.15			

Community smells: Pearson’s correlation - p-values ( Blender )

	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	0.36	0.80	0.00	0.85	0.12	0.00	0.23	0.42	0.69	0.16	0.32	-	0.20	0.41	0.00	-	-	0.55	0.37	0.00	0.01	0.01	0.96	0.98
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.04	0.10	0.30	0.01	0.81	0.98	0.68	0.30	0.78	0.62	0.79	-	0.03	0.03	0.35	0.55	-	-	0.41	0.44	0.54	0.67	0.64	0.73
black.cloud	0.75	0.73	0.96	0.64	0.85	0.74	0.88	0.20	0.15	0.43	0.41	-	0.89	0.82	0.67	0.37	-	0.41	-	0.20	0.29	0.04	0.60	0.86
missing.links	0.40	0.85	0.00	0.74	0.12	0.01	0.34	0.44	0.71	0.16	0.33	-	0.22	0.43	0.00	0.00	-	0.44	0.20	-	0.02	0.01	0.89	0.98

	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	0.90	0.81	0.58	0.99	0.06	0.24	0.14	0.16	0.79	0.37	0.85	0.56	0.18	0.62	0.30	0.49	0.00	0.13	0.13	0.00	0.63
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.92	0.79	0.33	0.77	0.24	0.46	0.45	0.15	0.78	0.33	0.26	0.33	0.63	0.16	0.19	0.04	0.81	0.04	0.24	0.47	0.32
black.cloud	0.41	0.92	0.60	0.82	0.05	0.51	0.68	0.29	0.07	0.15	0.25	0.49	0.08	0.40	0.70	0.79	0.66	0.87	0.58	0.53	0.92
missing.links	0.77	0.83	0.49	0.97	0.04	0.24	0.16	0.12	0.96	0.51	0.97	0.64	0.18	0.66	0.42	0.51	0.00	0.13	0.11	0.00	0.64

Community smells: Spearman’s correlation ( Blender )

	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	0.24	0.03	0.88	-0.11	-0.45	0.82	-0.47	0.25	0.11	0.22	0.23	-	0.29	0.22	0.89	-	-	0.20	0.40	0.98	-0.68	-0.80	0.08	-0.09
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.61	0.56	0.46	0.73	0.04	-0.06	-0.15	0.33	0.07	0.18	0.07	-	0.71	0.63	0.30	0.20	-	-	0.20	0.14	0.12	0.13	0.07	0.03
black.cloud	-0.10	-0.10	0.10	-0.05	-0.10	0.20	0.00	-0.40	-0.40	-0.28	-0.27	-	-0.05	-0.10	0.25	0.40	-	0.20	-	0.40	-0.40	-0.50	-0.20	0.00
missing.links	0.20	-0.01	0.84	-0.08	-0.48	0.83	-0.39	0.28	0.12	0.26	0.27	-	0.27	0.20	0.91	0.98	-	0.14	0.40	-	-0.64	-0.82	0.05	-0.15
		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	0.11	-0.26	-0.11	0.57	-0.34	-0.29	-0.41	-0.25	0.24	0.01	-0.06	0.39	-0.08	-0.34	0.22	0.86	0.42	-0.57	0.80	-0.12			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.17	0.23	0.25	-0.09	0.31	-0.14	-0.11	0.46	-0.13	0.39	0.30	-0.24	-0.14	-0.44	-0.51	0.63	0.07	0.60	0.37	-0.17	-0.34			
black.cloud	-0.30	0.00	-0.20	0.00	0.50	-0.20	-0.10	-0.40	0.40	-0.40	-0.30	0.20	0.50	0.30	0.30	-0.10	0.31	0.00	-0.30	0.30	0.15			
missing.links	-0.08	0.07	-0.35	-0.22	0.56	-0.37	-0.33	-0.45	-0.26	0.21	0.04	-0.04	0.32	-0.07	-0.27	0.22	0.91	0.42	-0.59	0.83	-0.12			

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

	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	0.46	0.92	0.00	0.74	0.15	0.00	0.13	0.43	0.75	0.49	0.46	-	0.36	0.48	0.00	-	-	0.54	0.22	0.00	0.02	0.00	0.82	0.80																			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
radio.silence	0.04	0.06	0.13	0.01	0.91	0.86	0.63	0.29	0.83	0.57	0.84	-	0.01	0.03	0.34	0.54	-	-	0.55	0.66	0.70	0.69	0.84	0.93																			
black.cloud	0.77	0.77	0.77	0.88	0.77	0.56	1.00	0.22	0.22	0.40	0.42	-	0.88	0.77	0.45	0.22	-	0.55	-	0.22	0.22	0.12	0.56	1.00																			
missing.links	0.54	0.99	0.00	0.80	0.12	0.00	0.21	0.38	0.70	0.41	0.40	-	0.39	0.53	0.00	0.00	-	0.66	0.22	-	0.03	0.00	0.88	0.65																			
		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	0.90	0.75	0.44	0.75	0.06	0.28	0.37	0.19	0.43	0.44	0.97	0.87	0.22	0.82	0.28	0.48	0.00	0.18	0.06	0.00	0.72																						
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
radio.silence	0.61	0.50	0.45	0.79	0.33	0.66	0.73	0.14	0.69	0.22	0.34	0.45	0.66	0.15	0.09	0.03	0.84	0.04	0.24	0.59	0.28																						
black.cloud	0.37	1.00	0.55	1.00	0.12	0.56	0.77	0.22	0.22	0.22	0.37	0.56	0.12	0.37	0.37	0.77	0.36	1.00	0.37	0.37	0.66																						
missing.links	0.82	0.84	0.30	0.52	0.06	0.24	0.30	0.15	0.42	0.51	0.90	0.90	0.31	0.83	0.40	0.50	0.00	0.18	0.05	0.00	0.70																						