

Socio-technical analysis result (LibreOffice)

	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		275	120	78	77	0.4364	0.2836	0.2800	37	0.1345	2	0.0129	24	78	69	48	392	2	93	0	807	0.1505	0.7374	0.0000	0.0000
2	2013-09 – 2013-12		240	90	90	60	0.3750	0.3750	0.2500	35	0.1458	8	0.0533	28	82	52	56	682	4	66	0	901	0.1175	0.7296	0.5437	0.4525
3	2013-12 – 2014-03		240	90	88	62	0.3750	0.3667	0.2583	23	0.0958	4	0.0267	26	76	53	54	943	0	60	0	1306	0.0705	0.6298	0.4333	0.3400
4	2014-03 – 2014-06		224	85	84	55	0.3795	0.3750	0.2455	34	0.1518	0	0.0000	27	61	54	43	754	0	43	0	987	0.0827	0.6336	0.4914	0.4567
5	2014-06 – 2014-09		212	76	80	56	0.3585	0.3774	0.2642	27	0.1274	0	0.0000	28	63	50	43	569	2	61	0	778	0.0922	0.6908	0.4587	0.3709
6	2014-09 – 2014-12		197	71	71	55	0.3604	0.3604	0.2792	25	0.1269	0	0.0000	36	61	47	38	355	5	49	0	593	0.1671	0.7137	0.4890	0.4351
7	2014-12 – 2015-03		224	83	88	53	0.3705	0.3929	0.2366	36	0.1607	2	0.0142	30	68	44	41	397	0	53	0	537	0.1435	0.7112	0.3895	0.3371
8	2015-03 – 2015-05		223	82	91	50	0.3677	0.4081	0.2242	45	0.2018	3	0.0213	32	61	40	44	507	0	70	0	661	0.1337	0.6786	0.4743	0.4113
9	2015-05 – 2015-08		182	70	57	55	0.3846	0.3132	0.3022	18	0.0989	2	0.0179	33	60	46	38	337	0	49	0	489	0.1877	0.6846	0.6074	0.5217
10	2015-08 – 2015-11		214	74	79	61	0.3458	0.3692	0.2850	28	0.1308	1	0.0071	36	63	47	45	485	0	33	0	717	0.1115	0.6514	0.3535	0.2857
11	2015-11 – 2016-02		250	97	72	81	0.3880	0.2880	0.3240	40	0.1600	2	0.0131	32	68	51	43	283	6	102	1	504	0.1385	0.7384	0.4138	0.3276
12	2016-02 – 2016-05		238	93	82	63	0.3908	0.3445	0.2647	17	0.0714	2	0.0138	35	67	44	46	426	0	83	2	609	0.0978	0.7041	0.4713	0.3624
	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	0.6327	0.7164	0.6497	0.6903	0.0076	0.1013	0.3084	0.4273	0.4072	0.4657	0.0419	44	23	25	0.4783	0.2500	0.2717					
2	0.4125	0.5289	0.4038	0.5857	0.6542	0.6583	0.6533	0.6267	0.0089	0.1046	0.3631	0.3886	0.2987	0.3884	0.0553	34	38	18	0.3778	0.4222	0.2000					
3	0.3165	0.3619	0.2909	0.5385	0.6292	0.6833	0.6513	0.6400	0.0089	0.1239	0.4652	0.5132	0.3688	0.5140	0.0662	36	37	17	0.4000	0.4111	0.1889					
4	0.4672	0.4486	0.4124	0.4737	0.5938	0.7277	0.6143	0.6906	0.0093	0.1415	0.3974	0.2907	0.4294	0.3052	0.0555	36	25	18	0.4557	0.3165	0.2278					
5	0.2097	0.3077	0.1395	0.4500	0.6792	0.7028	0.6212	0.6838	0.0097	0.1314	0.3779	0.3460	0.3634	0.3469	0.0534	34	27	16	0.4416	0.3506	0.2078					
6	0.4839	0.4124	0.5679	0.6300	0.6142	0.6904	0.6270	0.6984	0.0089	0.0969	0.3890	0.2165	0.1864	0.2180	0.0651	25	16	22	0.3968	0.2540	0.3492					
7	0.3566	0.4176	0.3038	0.4268	0.6250	0.6964	0.6765	0.7092	0.0086	0.1435	0.4550	0.1745	0.3654	0.1699	0.0472	29	26	15	0.4143	0.3714	0.2143					
8	0.5116	0.5000	0.4000	0.5566	0.6726	0.7265	0.6970	0.6879	0.0082	0.1381	0.4258	0.0231	0.2773	0.0270	0.0426	23	27	17	0.3433	0.4030	0.2537					
9	0.4628	0.3953	0.5610	0.6341	0.6099	0.6703	0.6320	0.6607	0.0122	0.0972	0.3958	0.2644	0.3102	0.2767	0.0628	27	19	19	0.4154	0.2923	0.2923					
10	0.2927	0.3656	0.2410	0.5286	0.5841	0.7056	0.6519	0.6786	0.0089	0.2193	0.5321	0.1021	0.3326	0.1086	0.0501	26	24	21	0.3662	0.3380	0.2958					
11	0.2748	0.3265	0.4091	0.4583	0.6920	0.7280	0.7135	0.7190	0.0080	0.2574	0.3473	0.1185	0.2298	0.1931	0.0342	31	23	20	0.4189	0.3108	0.2703					
12	0.3111	0.4842	0.3146	0.5739	0.6891	0.7185	0.7179	0.6828	0.0089	0.2226	0.4246	0.2464	0.1779	0.2844	0.0396	26	28	18	0.3611	0.3889	0.2500					

Community smells: Pearson’s correlation (LibreOffice)

	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	0.14	0.01	0.60	-0.26	-0.20	0.48	-0.52	-0.06	-0.10	0.34	0.31	-0.54	0.34	0.16	0.67	-	-0.33	-0.30	-0.33	0.95	-0.79	-0.67	-0.00
prima.donnas	0.19	0.17	-0.24	0.49	0.08	-0.39	0.49	0.26	0.19	0.13	0.09	0.07	0.24	0.23	0.00	-0.33	-	0.44	0.09	-0.22	0.30	0.67	0.06
radio.silence	0.73	0.77	0.03	0.75	0.69	-0.59	0.28	0.32	0.06	0.24	0.21	-0.25	0.45	0.35	0.25	-0.30	0.44	-	0.68	-0.15	0.08	0.65	-0.01
black.cloud	0.45	0.58	-0.07	0.55	0.60	-0.47	0.28	-0.27	-0.42	-0.04	-0.05	0.36	0.06	-0.18	0.03	-0.33	0.09	0.68	-	-0.30	-0.14	0.35	-0.09
missing.links	0.33	0.23	0.52	-0.01	0.02	0.25	-0.37	-0.05	-0.16	0.31	0.27	-0.65	0.48	0.44	0.73	0.95	-0.22	-0.15	-0.30	-	-0.73	-0.57	-0.06
	code.turnover	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	-0.00	-0.03	0.12	-0.34	-0.10	-0.18	-0.21	-0.34	-0.64	-0.01	-0.26	0.26	0.58	0.49	0.51	0.48	0.38	0.76	-0.39	-0.01	0.56	-0.69	
prima.donnas	0.03	-0.08	-0.17	0.31	0.05	0.34	-0.08	0.06	0.20	-0.30	0.07	-0.60	-0.01	-0.44	0.06	-0.12	0.10	-0.16	0.38	0.14	-0.33	0.30	
radio.silence	-0.19	-0.29	0.02	-0.02	-0.15	0.78	0.36	0.64	0.24	-0.51	0.30	-0.65	0.08	-0.29	0.21	-0.69	0.31	0.11	0.24	0.14	-0.02	-0.09	
black.cloud	-0.27	-0.34	0.12	-0.08	0.02	0.59	0.41	0.72	0.25	-0.22	0.69	-0.15	-0.13	-0.63	-0.01	-0.63	-0.20	-0.00	0.09	-0.25	0.10	0.06	
missing.links	-0.07	-0.09	0.02	-0.32	-0.08	-0.20	-0.16	-0.37	-0.60	-0.15	-0.29	0.12	0.71	0.54	0.67	0.43	0.58	0.69	-0.12	0.16	0.36	-0.59	

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

	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	0.66	0.98	0.04	0.42	0.54	0.12	0.09	0.84	0.76	0.28	0.32	0.07	0.29	0.61	0.02	-	0.30	0.34	0.32	0.00	0.00	0.02	1.00
prima.donnas	0.56	0.61	0.46	0.10	0.81	0.21	0.11	0.42	0.56	0.70	0.78	0.83	0.46	0.47	0.99	0.30	-	0.15	0.79	0.48	0.35	0.02	0.86
radio.silence	0.01	0.00	0.92	0.01	0.01	0.04	0.38	0.31	0.85	0.45	0.51	0.44	0.14	0.26	0.44	0.34	0.15	-	0.02	0.63	0.81	0.02	0.97
black.cloud	0.16	0.06	0.84	0.08	0.05	0.14	0.40	0.43	0.20	0.92	0.89	0.28	0.85	0.60	0.93	0.32	0.79	0.02	-	0.37	0.69	0.29	0.79
missing.links	0.29	0.46	0.08	0.97	0.94	0.44	0.24	0.88	0.62	0.33	0.40	0.02	0.11	0.16	0.01	0.00	0.48	0.63	0.37	-	0.01	0.05	0.87
	code.turnover	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	0.99	0.93	0.72	0.30	0.77	0.58	0.51	0.27	0.02	0.97	0.41	0.41	0.05	0.11	0.09	0.12	0.22	0.00	0.20	0.98	0.06	0.01	
prima.donnas	0.94	0.80	0.63	0.35	0.87	0.28	0.80	0.85	0.54	0.35	0.82	0.04	0.98	0.15	0.86	0.72	0.75	0.61	0.22	0.66	0.29	0.35	
radio.silence	0.57	0.39	0.95	0.96	0.67	0.00	0.24	0.02	0.46	0.09	0.34	0.02	0.81	0.37	0.52	0.01	0.32	0.73	0.45	0.66	0.94	0.78	
black.cloud	0.43	0.30	0.73	0.82	0.96	0.05	0.21	0.01	0.46	0.51	0.02	0.66	0.70	0.04	0.97	0.04	0.55	1.00	0.80	0.45	0.76	0.85	
missing.links	0.84	0.80	0.95	0.33	0.82	0.52	0.61	0.24	0.04	0.64	0.36	0.70	0.01	0.07	0.02	0.16	0.05	0.01	0.71	0.62	0.25	0.04	

Community smells: Spearman's correlation (LibreOffice)

	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	0.11	0.08	0.75	-0.15	-0.30	0.59	-0.67	-0.09	-0.03	0.18	0.18	-0.49	0.18	0.29	0.55	-	-0.37	-0.23	-0.42	0.87	-0.85	-0.64	0.09
prima.donnas	0.25	0.23	-0.36	0.37	0.06	-0.34	0.38	0.29	0.12	-0.10	-0.23	-0.02	0.32	0.37	-0.04	-0.37	-	0.43	0.20	-0.11	0.32	0.79	0.07
radio.silence	0.67	0.75	0.12	0.51	0.56	-0.30	0.08	0.39	0.16	0.47	0.30	-0.28	0.53	0.07	0.40	-0.23	0.43	-	0.66	-0.07	0.08	0.62	-0.05
black.cloud	0.50	0.66	-0.20	0.67	0.68	-0.58	0.42	-0.13	-0.20	0.08	-0.07	0.28	0.25	-0.15	0.18	-0.42	0.20	0.66	-	-0.35	-0.03	0.42	-0.20
missing.links	0.38	0.33	0.52	0.17	-0.07	0.23	-0.43	0.01	-0.07	0.14	0.03	-0.68	0.40	0.66	0.70	0.87	-0.11	-0.07	-0.35	-	-0.72	-0.40	0.02
	code.turnover	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	0.15	0.06	0.19	-0.42	-0.14	-0.10	-0.13	-0.22	-0.50	0.30	0.02	0.38	0.42	0.45	0.42	0.39	0.36	0.77	-0.54	-0.14	0.69	-0.73	
prima.donnas	-0.01	-0.20	-0.24	0.31	0.02	0.42	-0.02	-0.05	0.31	-0.28	-0.21	-0.81	0.11	-0.32	0.17	-0.13	0.14	-0.27	0.42	0.27	-0.32	0.15	
radio.silence	-0.19	-0.26	0.11	-0.09	-0.06	0.91	0.34	0.58	0.16	-0.63	0.20	-0.55	0.10	-0.31	0.19	-0.69	0.16	0.24	0.01	0.04	0.12	-0.20	
black.cloud	-0.35	-0.43	-0.03	0.05	-0.04	0.66	0.50	0.67	0.26	-0.35	0.66	-0.26	-0.20	-0.61	-0.05	-0.66	-0.14	0.04	0.20	-0.12	-0.04	0.13	
missing.links	0.06	-0.03	0.10	-0.41	-0.15	-0.11	-0.06	-0.34	-0.41	0.09	-0.14	0.08	0.64	0.58	0.66	0.32	0.62	0.56	-0.15	0.13	0.38	-0.56	

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

	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	0.73	0.81	0.01	0.65	0.34	0.04	0.02	0.78	0.94	0.57	0.58	0.10	0.57	0.36	0.06	-	0.23	0.48	0.20	0.00	0.00	0.03	0.80
prima.donnas	0.44	0.46	0.25	0.23	0.85	0.28	0.22	0.37	0.72	0.75	0.47	0.95	0.31	0.24	0.90	0.23	-	0.17	0.55	0.73	0.32	0.00	0.83
radio.silence	0.02	0.01	0.71	0.09	0.06	0.34	0.80	0.21	0.62	0.12	0.34	0.38	0.07	0.84	0.20	0.48	0.17	-	0.03	0.82	0.80	0.03	0.88
black.cloud	0.12	0.03	0.55	0.03	0.02	0.06	0.20	0.69	0.55	0.82	0.84	0.41	0.45	0.66	0.60	0.20	0.55	0.03	-	0.29	0.94	0.20	0.55
missing.links	0.22	0.30	0.08	0.60	0.83	0.46	0.17	0.97	0.83	0.67	0.93	0.02	0.20	0.02	0.01	0.00	0.73	0.82	0.29	-	0.01	0.20	0.97
	code.turnover	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	0.65	0.86	0.58	0.20	0.69	0.75	0.70	0.48	0.10	0.34	0.96	0.22	0.18	0.15	0.18	0.21	0.26	0.00	0.07	0.67	0.02	0.01	
prima.donnas	0.98	0.56	0.47	0.36	0.95	0.18	0.96	0.88	0.32	0.39	0.50	0.00	0.74	0.30	0.59	0.68	0.66	0.40	0.18	0.39	0.31	0.65	
radio.silence	0.58	0.45	0.74	0.80	0.86	0.00	0.29	0.05	0.62	0.03	0.53	0.06	0.76	0.33	0.55	0.01	0.62	0.45	0.98	0.91	0.72	0.54	
black.cloud	0.29	0.19	0.94	0.87	0.91	0.03	0.12	0.02	0.45	0.29	0.03	0.45	0.55	0.05	0.87	0.03	0.69	0.91	0.55	0.72	0.91	0.69	
missing.links	0.86	0.95	0.78	0.21	0.67	0.73	0.85	0.28	0.18	0.79	0.67	0.82	0.03	0.05	0.02	0.31	0.03	0.06	0.65	0.70	0.22	0.06	