

Socio-technical analysis result (Wine)

	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		124	53	26	45	0.4274	0.2097	0.3629	28	0.2258	4	0.0563	1	44	40	20	25	2	44	0	53	0.2933	0.9140	0.0000	0.0000
2	2013-09 – 2013-12		101	39	21	41	0.3861	0.2079	0.4059	17	0.1683	0	0.0000	1	32	35	18	23	0	18	0	103	0.2197	0.8032	0.5600	0.4812
3	2013-12 – 2014-02		98	54	12	32	0.5510	0.1224	0.3265	12	0.1224	1	0.0227	1	34	32	14	11	3	33	0	37	0.5000	0.8818	0.4523	0.5283
4	2014-02 – 2014-05		117	54	17	46	0.4615	0.1453	0.3932	16	0.1368	3	0.0476	1	38	38	16	12	2	47	0	39	0.3390	0.9169	0.3535	0.1495
5	2014-05 – 2014-08		80	28	17	35	0.3500	0.2125	0.4375	16	0.2000	2	0.0385	1	31	29	18	9	0	6	0	30	0.3023	0.9052	0.5888	0.4174
6	2014-08 – 2014-11		88	29	22	37	0.3295	0.2500	0.4205	23	0.2614	2	0.0339	1	32	29	20	18	0	8	0	51	0.2273	0.8968	0.3095	0.2523
7	2014-11 – 2015-02		104	41	24	39	0.3942	0.2308	0.3750	21	0.2019	2	0.0317	1	38	37	19	14	0	25	0	43	0.1731	0.9084	0.3021	0.3279
8	2015-02 – 2015-05		106	37	23	46	0.3491	0.2170	0.4340	17	0.1604	0	0.0000	1	37	33	22	25	0	6	0	73	0.3482	0.8740	0.3714	0.3182
9	2015-05 – 2015-08		113	45	20	48	0.3982	0.1770	0.4248	11	0.0973	1	0.0147	1	38	34	23	24	0	39	0	74	0.3019	0.8779	0.3562	0.3066
10	2015-08 – 2015-11		113	45	16	52	0.3982	0.1416	0.4602	17	0.1504	1	0.0147	1	42	38	26	18	0	30	0	56	0.4510	0.9257	0.3097	0.2500
11	2015-11 – 2016-02		110	35	21	54	0.3182	0.1909	0.4909	23	0.2091	4	0.0533	1	36	33	22	15	2	24	0	59	0.4216	0.9234	0.3857	0.2657
12	2016-02 – 2016-05		98	29	20	49	0.2959	0.2041	0.5000	16	0.1633	1	0.0145	1	41	35	22	52	2	24	0	106	0.2587	0.8633	0.4615	0.3889
	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	0.5000	0.6452	0.5918	0.7183	0.0152	0.1365	0.2557	0.6778	0.4445	0.6916	0.0451	29	9	11	0.5918	0.1837	0.2245					
2	0.5000	0.4800	0.3158	0.4127	0.4554	0.6832	0.5625	0.7097	0.0173	0.1304	0.2663	0.4387	0.4743	0.4414	0.0537	19	2	16	0.5135	0.0541	0.4324					
3	0.2424	0.4179	0.5000	0.1778	0.4490	0.6531	0.6279	0.6818	0.0204	0.1536	0.3185	0.5707	0.3284	0.5811	0.0732	20	2	12	0.5882	0.0588	0.3529					
4	0.3056	0.3143	0.3333	0.2632	0.5128	0.6752	0.6200	0.7460	0.0180	0.1390	0.2260	0.3855	0.3858	0.3590	0.0413	26	4	12	0.6190	0.0952	0.2857					
5	0.5217	0.6269	0.4706	0.4138	0.3625	0.6125	0.5397	0.6538	0.0237	0.1107	0.2063	0.5808	0.5709	0.6185	0.0595	18	7	11	0.5000	0.1944	0.3056					
6	0.3810	0.4483	0.4211	0.0769	0.4659	0.6364	0.5606	0.6610	0.0233	0.1589	0.2806	0.5541	0.4088	0.5756	0.0643	16	7	13	0.4444	0.1944	0.3611					
7	0.3143	0.3030	0.3590	0.3793	0.4712	0.6346	0.5375	0.6984	0.0169	0.2062	0.2577	0.6600	0.4575	0.7123	0.0433	23	5	14	0.5476	0.1190	0.3333					
8	0.3467	0.4286	0.1951	0.2821	0.4245	0.6509	0.6024	0.6812	0.0207	0.1870	0.3150	0.4470	0.4523	0.4634	0.0564	17	6	16	0.4359	0.1538	0.4103					
9	0.3467	0.3582	0.4000	0.2308	0.5841	0.6637	0.6344	0.6618	0.0289	0.1947	0.3836	0.6428	0.4139	0.6722	0.0896	23	12	11	0.5000	0.2609	0.2391					
10	0.3000	0.3611	0.1633	0.4286	0.5575	0.6283	0.6082	0.6176	0.0237	0.1099	0.2949	0.5774	0.4332	0.6350	0.0801	20	8	18	0.4348	0.1739	0.3913					
11	0.3077	0.3380	0.4583	0.4186	0.5091	0.6727	0.6292	0.7067	0.0170	0.1453	0.3061	0.5933	0.3625	0.6195	0.0609	18	7	15	0.4500	0.1750	0.3750					
12	0.1558	0.1765	0.4091	0.3333	0.6224	0.5816	0.5513	0.6812	0.0266	0.1469	0.3028	0.3740	0.5292	0.3800	0.0787	23	10	12	0.5111	0.2222	0.2667					

Community smells: Pearson's correlation (Wine)

	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	0.09	-0.30	0.31	0.41	-0.47	0.23	0.47	-0.02	-0.08	-0.28	-0.38	-	0.45	0.20	0.42	-	0.11	-0.01	-	0.82	-0.29	-0.42	0.08	0.12
prima.donnas	0.28	0.45	-0.30	0.04	0.43	-0.50	-0.21	0.05	-0.14	0.45	0.45	-	0.26	0.21	-0.43	0.11	-	0.54	-	-0.12	0.48	0.18	0.10	0.14
radio.silence	0.78	0.84	-0.13	0.30	0.60	-0.61	-0.36	-0.04	-0.44	0.40	0.36	-	0.62	0.73	-0.11	-0.01	0.54	-	-	-0.12	0.25	0.28	-0.32	-0.28
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.09	-0.31	0.29	0.42	-0.46	0.21	0.47	-0.13	-0.19	-0.49	-0.62	-	0.15	0.13	0.39	0.82	-0.12	-0.12	-	-	-0.31	-0.74	0.22	0.23
	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	-0.59	-0.13	0.02	0.64	-0.50	-0.21	-0.03	0.38	0.09	0.34	-0.42	0.39	-0.40	0.35	0.21	0.49	-0.05	-0.13	0.41	-0.26			
prima.donnas	-0.64	-0.42	0.48	-0.17	0.23	0.04	0.41	0.50	-0.29	-0.18	0.01	-0.14	-0.46	-0.22	-0.06	0.42	-0.17	-0.38	0.59	-0.24	-0.33			
radio.silence	-0.49	-0.56	0.02	-0.06	0.56	0.30	0.55	0.41	-0.18	-0.00	0.13	0.16	-0.46	0.08	-0.02	0.85	0.13	-0.31	0.68	-0.08	-0.58			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.14	-0.37	-0.26	0.18	0.49	-0.06	-0.11	0.03	0.24	0.08	0.42	-0.49	0.29	-0.46	0.31	-0.05	0.21	0.27	-0.29	0.14	0.14			

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

	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	0.78	0.34	0.32	0.19	0.12	0.47	0.12	0.96	0.80	0.38	0.22	-	0.14	0.53	0.18	-	0.74	0.99	-	0.00	0.36	0.18	0.81	0.73																			
prima.donnas	0.38	0.14	0.34	0.90	0.16	0.09	0.51	0.88	0.66	0.15	0.14	-	0.41	0.51	0.16	0.74	-	0.07	-	0.70	0.11	0.57	0.77	0.69																			
radio.silence	0.00	0.00	0.69	0.34	0.04	0.03	0.26	0.90	0.16	0.19	0.24	-	0.03	0.01	0.74	0.99	0.07	-	-	0.70	0.44	0.38	0.34	0.40																			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
missing.links	0.79	0.33	0.36	0.17	0.13	0.51	0.12	0.68	0.56	0.10	0.03	-	0.63	0.68	0.21	0.00	0.70	0.70	-	-	0.33	0.01	0.51	0.51																			
		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	0.14	0.06	0.70	0.95	0.03	0.10	0.52	0.93	0.23	0.77	0.28	0.17	0.21	0.20	0.27	0.51	0.10	0.87	0.68	0.18	0.41																						
prima.donnas	0.03	0.20	0.13	0.61	0.46	0.89	0.19	0.10	0.36	0.57	0.97	0.67	0.14	0.49	0.85	0.17	0.61	0.22	0.04	0.44	0.30																						
radio.silence	0.13	0.07	0.94	0.86	0.06	0.35	0.06	0.18	0.59	0.99	0.69	0.61	0.13	0.79	0.95	0.00	0.69	0.32	0.01	0.82	0.05																						
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																					
missing.links	0.69	0.27	0.45	0.60	0.10	0.85	0.72	0.93	0.44	0.80	0.18	0.11	0.37	0.13	0.32	0.89	0.50	0.40	0.37	0.66	0.67																						

Community smells: Spearman’s correlation (Wine)

	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	0.28	-0.12	0.48	0.49	-0.34	0.18	0.27	0.20	0.06	-0.33	-0.43	-	0.51	0.32	0.62	-	-0.09	-0.04	-	0.85	-0.29	-0.44	-0.01	-0.08																			
prima.donnas	0.18	0.41	-0.24	0.07	0.26	-0.53	-0.22	-0.09	-0.11	0.39	0.41	-	0.24	0.15	-0.33	-0.09	-	0.51	-	-0.16	0.39	0.17	0.26	0.11																			
radio.silence	0.72	0.87	-0.19	0.20	0.76	-0.62	-0.47	-0.17	-0.39	0.36	0.36	-	0.65	0.67	-0.07	-0.04	0.51	-	-	-0.13	0.18	0.40	-0.36	-0.31																			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
missing.links	0.18	-0.21	0.26	0.64	-0.47	-0.01	0.48	0.03	-0.08	-0.48	-0.60	-	0.29	0.21	0.63	0.85	-0.16	-0.13	-	-	-0.24	-0.49	0.15	0.02																			
		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	-0.08	-0.19	-0.49	-0.07	0.41	-0.09	-0.00	0.02	0.16	0.16	0.34	-0.14	0.29	-0.07	0.21	0.15	0.54	0.10	-0.21	0.36	-0.10																						
prima.donnas	-0.73	-0.46	0.48	-0.19	0.22	0.18	0.35	0.54	-0.30	-0.08	0.11	-0.12	-0.48	-0.21	-0.06	0.42	-0.10	-0.32	0.58	-0.16	-0.36																						
radio.silence	-0.60	-0.59	-0.07	-0.21	0.58	0.29	0.49	0.46	-0.21	-0.00	0.01	0.25	-0.49	0.24	-0.06	0.85	0.12	-0.35	0.61	-0.11	-0.57																						
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																						
missing.links	-0.08	-0.23	-0.42	0.10	0.48	0.13	0.14	0.02	0.23	0.10	0.48	-0.27	0.25	-0.18	0.34	0.00	0.39	0.32	-0.31	0.23	0.16																						

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

	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	0.38	0.71	0.11	0.11	0.28	0.57	0.39	0.54	0.85	0.29	0.16	-	0.09	0.31	0.03	-	0.78	0.91	-	0.00	0.35	0.16	0.97	0.82
prima.donnas	0.57	0.19	0.45	0.84	0.41	0.08	0.49	0.78	0.73	0.21	0.19	-	0.46	0.64	0.29	0.78	-	0.09	-	0.63	0.20	0.60	0.45	0.76
radio.silence	0.01	0.00	0.55	0.54	0.00	0.03	0.12	0.59	0.21	0.26	0.24	-	0.02	0.02	0.82	0.91	0.09	-	-	0.68	0.59	0.19	0.28	0.36
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.58	0.50	0.41	0.02	0.12	0.97	0.12	0.92	0.80	0.12	0.04	-	0.36	0.51	0.03	0.00	0.63	0.68	-	-	0.44	0.11	0.67	0.97

	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	0.82	0.58	0.13	0.83	0.19	0.79	0.99	0.94	0.63	0.62	0.28	0.66	0.36	0.82	0.50	0.65	0.07	0.76	0.52	0.25	0.76
prima.donnas	0.01	0.16	0.14	0.57	0.50	0.57	0.26	0.07	0.35	0.81	0.73	0.71	0.11	0.52	0.85	0.17	0.76	0.31	0.05	0.63	0.25
radio.silence	0.05	0.05	0.83	0.54	0.05	0.35	0.10	0.14	0.51	0.99	0.98	0.43	0.10	0.45	0.85	0.00	0.72	0.26	0.04	0.73	0.05
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.82	0.50	0.20	0.78	0.12	0.68	0.67	0.96	0.47	0.75	0.12	0.40	0.43	0.57	0.29	1.00	0.21	0.31	0.32	0.47	0.62