Socio-technical analysis result (Django)

	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	264	121	105	38	0.4583	0.3977	0.1439	45	0.1705	2	0.0140	1	73	57	31	193	0	47	0	276	0.1068	0.8093	0.0000	0.0000
2	2013-08 – 2013-10	275	130	116	29	0.4727	0.4218	0.1055	70	0.2545	6	0.0414	1	82	65	30	223	0	50	0	273	0.0808	0.8161	0.6456	0.7014
3	2013-10 – 2014-01	201	97	82	22	0.4826	0.4080	0.1095	30	0.1493	0	0.0000	1	57	52	19	134	0	5	0	165	0.0984	0.8050	0.8697	0.8835
4	2014-01 – 2014-04	256	111	120	25	0.4336	0.4688	0.0977	38	0.1484	3	0.0207	1	68	47	34	223	0	67	0	263	0.0836	0.8143	0.6039	0.5703
5	2014-04 – 2014-07	228	94	99	35	0.4123	0.4342	0.1535	57	0.2500	6	0.0448	1	59	48	30	111	0	37	0	148	0.1395	0.8626	0.7686	0.7599
6	2014-07 – 2014-10	272	133	113	26	0.4890	0.4154	0.0956	57	0.2096	7	0.0504	1	68	58	28	99	0	40	1	114	0.1364	0.8873	0.5800	0.6740
7	2014-10 – 2015-01	255	107	115	33	0.4196	0.4510	0.1294	49	0.1922	5	0.0338	1	65	48	30	200	0	41	0	236	0.1227	0.8518	0.7628	0.7317
8	2015-01 – 2015-04	287	127	134	26	0.4425	0.4669	0.0906	70	0.2439	5	0.0312	1	71	57	28	177	0	53	0	198	0.1200	0.8283	0.6716	0.7078
9	2015-04 – 2015-07	285	111	150	24	0.3895	0.5263	0.0842	92	0.3228	12	0.0690	1	76	50	39	156	0	45	0	163	0.0578	0.8729	0.7343	0.7425
10	2015-07 – 2015-10	235	110	102	23	0.4681	0.4340	0.0979	48	0.2043	7	0.0560	1	66	50	32	95	0	46	0	108	0.0769	0.8706	0.8115	0.9498
11	2015-10 – 2016-01	260	127	107	26	0.4885	0.4115	0.1000	44	0.1692	1	0.0075	1	71	57	23	91	0	52	0	98	0.0485	0.8955	0.6465	0.7442
12	2016-01 – 2016-04	293	137	131	25	0.4676	0.4471	0.0853	57	0.1945	7	0.0449	1	80	60	33	121	0	55	0	131	0.0709	0.8477	0.6510	0.7197

	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	0.4129	0.7235	0.6415	0.7832	0.0060	0.1578	0.3609	0.2643	0.2920	0.2347	0.0307	44	18	13	0.5867	0.2400	0.1733
2	0.4000	0.4426	0.5574	0.3621	0.4291	0.7018	0.5912	0.7931	0.0057	0.1364	0.2650	0.2969	0.3357	0.2551	0.0233	54	19	11	0.6429	0.2262	0.1310
3	0.7626	0.7179	0.6122	0.3816	0.2537	0.7164	0.5630	0.8173	0.0074	0.1680	0.2951	0.2389	0.5284	0.2499	0.0249	43	10	9	0.6935	0.1613	0.1452
4	0.5280	0.6465	0.2642	0.1884	0.5430	0.7344	0.6544	0.7655	0.0060	0.1678	0.3201	0.3388	0.2837	0.3117	0.0250	36	23	11	0.5143	0.3286	0.1571
5	0.6929	0.6526	0.5938	0.5161	0.4298	0.7412	0.6279	0.7761	0.0068	0.1982	0.3337	0.4496	0.3409	0.4221	0.0276	35	17	13	0.5385	0.2615	0.2000
6	0.5512	0.5283	0.6897	0.4069	0.3529	0.7500	0.6352	0.7986	0.0053	0.1549	0.2841	0.4571	0.3651	0.3688	0.0259	50	20	8	0.6410	0.2564	0.1026
7	0.6015	0.6981	0.6207	0.2985	0.4353	0.7451	0.6571	0.7973	0.0059	0.1748	0.3133	0.4773	0.4247	0.4673	0.0292	39	21	9	0.5652	0.3043	0.1304
8	0.5441	0.5143	0.5862	0.3626	0.4181	0.7526	0.6275	0.8250	0.0051	0.2201	0.3956	0.2957	0.3169	0.2889	0.0205	44	15	13	0.6111	0.2083	0.1806
9	0.5306	0.5981	0.3582	0.3667	0.4456	0.7333	0.6296	0.7759	0.0051	0.2927	0.3893	0.3999	0.3629	0.3705	0.0156	41	30	9	0.5125	0.3750	0.1125
10	0.6620	0.5400	0.8169	0.4123	0.4638	0.7191	0.6241	0.7440	0.0066	0.3651	0.4991	0.3940	0.3115	0.3100	0.0223	45	27	5	0.5844	0.3506	0.0649
11	0.5255	0.4860	0.9818	0.4500	0.3808	0.7269	0.6275	0.8271	0.0057	0.2829	0.4131	0.4123	0.2673	0.3471	0.0232	53	19	4	0.6974	0.2500	0.0526
12	0.4768	0.5299	0.6071	0.3333	0.3993	0.7270	0.6296	0.7885	0.0051	0.4051	0.5545	0.3445	0.2941	0.2821	0.0174	55	28	5	0.6250	0.3182	0.0568

Community smells: Pearson's correlation (Django)

	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	0.00	0.28	0.31	-0.34	0.23	0.13	0.10	0.01	-0.09	-0.16	-	0.31	0.03	0.30	-	-	0.31	-0.32	0.97	0.06	-0.72	-0.20	-0.54
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.70	0.53	0.61	0.08	-0.17	0.34	-0.28	0.27	0.09	0.25	0.24	-	0.62	0.15	0.60	0.31	-	-	-0.10	0.23	-0.30	0.12	-0.73	-0.62
black.cloud	0.15	0.37	-0.04	-0.06	0.37	-0.28	-0.14	0.03	-0.02	0.17	0.23	-	-0.06	0.24	-0.10	-0.32	-	-0.10	-	-0.31	0.45	0.40	-0.45	-0.23
missing.links	0.13	-0.05	0.10	0.49	-0.27	0.04	0.33	-0.01	-0.08	-0.20	-0.26	-	0.23	0.05	0.22	0.97	-	0.23	-0.31	-	0.16	-0.78	-0.15	-0.50

	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	-0.41	0.13	-0.69	-0.74	0.44	-0.12	0.16	-0.04	-0.15	-0.54	-0.45	-0.39	0.00	-0.19	0.21	-0.26	-0.08	0.62	-0.36	-0.04	0.52
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	-0.74	-0.52	-0.19	-0.41	0.81	0.15	0.68	-0.28	-0.65	0.24	0.33	0.15	-0.89	0.00	-0.23	0.14	0.55	-0.02	-0.39	0.52	-0.16
black.cloud	-0.06	-0.18	0.14	0.14	-0.28	0.39	0.14	0.09	-0.25	-0.29	-0.31	0.36	0.08	0.17	0.22	0.23	-0.05	-0.09	0.20	-0.10	-0.13
missing.links	-0.33	0.17	-0.66	-0.67	0.37	-0.18	0.13	-0.07	-0.01	-0.63	-0.50	-0.44	-0.00	-0.25	0.40	-0.29	-0.20	0.70	-0.33	-0.15	0.60

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

	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	0.99	0.39	0.32	0.27	0.47	0.69	0.75	0.97	0.79	0.61	-	0.33	0.92	0.35	-	-	0.33	0.33	0.00	0.85	0.01	0.56	0.09
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.01	0.07	0.03	0.80	0.60	0.29	0.37	0.40	0.77	0.44	0.45	-	0.03	0.64	0.04	0.33	-	-	0.77	0.48	0.34	0.72	0.01	0.04
black.cloud	0.65	0.27	0.90	0.86	0.27	0.41	0.67	0.94	0.96	0.63	0.50	-	0.87	0.49	0.77	0.33	-	0.77	-	0.35	0.17	0.22	0.16	0.49
missing.links	0.69	0.88	0.77	0.11	0.39	0.91	0.29	0.96	0.81	0.53	0.42	-	0.47	0.87	0.49	0.00	-	0.48	0.35	-	0.61	0.00	0.67	0.12

	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	0.21	0.71	0.02	0.01	0.15	0.70	0.63	0.89	0.64	0.07	0.14	0.21	1.00	0.55	0.52	0.41	0.80	0.03	0.24	0.89	0.09
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.01	0.10	0.58	0.21	0.00	0.65	0.01	0.38	0.02	0.45	0.29	0.64	0.00	0.99	0.48	0.67	0.06	0.95	0.21	0.09	0.62
black.cloud	0.86	0.59	0.68	0.68	0.40	0.23	0.69	0.79	0.46	0.39	0.36	0.27	0.83	0.62	0.51	0.49	0.89	0.80	0.56	0.77	0.71
missing.links	0.32	0.61	0.03	0.02	0.24	0.57	0.69	0.82	0.96	0.03	0.10	0.15	1.00	0.43	0.20	0.37	0.54	0.01	0.30	0.64	0.04

Community smells: Spearman's correlation (Django)

	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	-0.03	0.42	0.27	-0.42	0.33	0.11	0.11	-0.03	-0.19	-0.23	-	0.25	-0.12	0.30	-	-	0.28	-0.30	0.94	0.17	-0.68	-0.19	-0.56
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.58	0.58	0.61	-0.02	-0.03	0.33	-0.45	0.03	-0.20	-0.05	-0.13	-	0.62	0.22	0.38	0.28	-	-	-0.30	0.15	-0.48	-0.13	-0.53	-0.50
black.cloud	0.10	0.40	-0.10	0.10	0.50	-0.30	-0.20	0.10	0.10	0.30	0.30	-	-0.05	0.30	-0.25	-0.30	-	-0.30	-	-0.30	0.40	0.40	-0.50	-0.40
missing.links	0.08	-0.09	0.20	0.40	-0.36	0.08	0.31	0.02	-0.07	-0.33	-0.36	-	0.20	-0.07	0.19	0.94	-	0.15	-0.30	-	0.29	-0.78	-0.11	-0.49

	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	-0.28	0.13	-0.78	-0.82	0.37	-0.00	0.32	-0.16	-0.04	-0.51	-0.47	-0.37	0.07	-0.21	0.25	-0.29	-0.03	0.63	-0.32	-0.12	0.53
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	-0.76	-0.51	-0.31	-0.52	0.24	0.01	0.16	-0.07	-0.47	0.20	0.45	-0.28	-0.81	-0.29	-0.38	0.36	0.30	-0.03	0.00	0.14	-0.15
black.cloud	0.10	-0.20	0.30	0.20	-0.40	0.40	0.30	0.20	-0.20	-0.40	-0.40	0.40	0.30	0.20	0.30	0.20	0.00	-0.20	0.20	-0.10	-0.20
missing.links	-0.16	0.17	-0.74	-0.73	0.23	-0.09	0.27	-0.12	0.11	-0.61	-0.48	-0.50	0.06	-0.36	0.41	-0.31	-0.25	0.76	-0.24	-0.30	0.66

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

	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	0.59	0.94	0.18	0.40	0.17	0.30	0.74	0.73	0.93	0.56	0.48	-	0.42	0.71	0.34	-	-	0.38	0.37	0.00	0.59	0.01	0.58	0.07
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.05	0.05	0.04	0.94	0.94	0.30	0.14	0.93	0.54	0.88	0.70	-	0.03	0.50	0.23	0.38	-	-	0.37	0.64	0.12	0.68	0.10	0.12
black.cloud	0.77	0.22	0.77	0.77	0.12	0.37	0.56	0.77	0.77	0.36	0.37	-	0.88	0.37	0.45	0.37	-	0.37	-	0.37	0.22	0.22	0.12	0.22
missing.links	0.82	0.77	0.54	0.20	0.25	0.82	0.32	0.96	0.83	0.30	0.26	-	0.54	0.83	0.56	0.00	-	0.64	0.37	-	0.37	0.00	0.75	0.13

	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	0.41	0.70	0.00	0.00	0.23	0.99	0.31	0.62	0.90	0.09	0.12	0.23	0.84	0.51	0.44	0.35	0.92	0.03	0.32	0.70	0.08
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.01	0.11	0.36	0.11	0.46	0.97	0.62	0.83	0.13	0.54	0.14	0.38	0.00	0.37	0.22	0.25	0.34	0.92	1.00	0.67	0.65
black.cloud	0.77	0.56	0.37	0.56	0.22	0.22	0.37	0.56	0.55	0.22	0.22	0.22	0.37	0.56	0.37	0.56	1.00	0.55	0.56	0.77	0.56
missing.links	0.63	0.61	0.01	0.02	0.47	0.78	0.40	0.72	0.73	0.04	0.12	0.10	0.87	0.25	0.18	0.33	0.43	0.00	0.46	0.34	0.02