

# Socio-technical analysis result ( Mongoose )

	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	60	51	8	1	0.8500	0.1333	0.0167	2	0.0333	0	0.0000	1	25	23	3	7	0	10	0	7	0	0.3968	0.0000	0.0000	
2	2013-08 – 2013-11	46	37	8	1	0.8043	0.1739	0.0217	3	0.0652	0	0.0000	1	22	20	2	5	0	0	0	5	0	0.4889	0.9245	0.6667	
3	2013-11 – 2014-02	53	39	13	1	0.7358	0.2453	0.0189	2	0.0377	0	0.0000	1	20	19	1	1	0	2	0	1	0	0.8571	0.7879	0.6087	
4	2014-02 – 2014-05	43	33	9	1	0.7674	0.2093	0.0233	4	0.0930	0	0.0000	1	18	18	1	1	0	0	0	1	0	0.8000	0.9583	1.0833	
5	2014-05 – 2014-08	56	27	27	2	0.4821	0.4821	0.0357	5	0.0893	1	0.0345	1	16	12	4	5	0	19	0	5	0	0.8483	0.6869	0.4103	
6	2014-08 – 2014-11	46	26	19	1	0.5652	0.4130	0.0217	4	0.0870	1	0.0500	1	19	16	6	16	0	0	0	16	0	0.6156	0.9412	1.0612	
7	2014-11 – 2015-02	52	28	23	1	0.5385	0.4423	0.0192	5	0.0962	0	0.0000	1	18	15	4	10	0	0	0	10	0	0.7042	0.7755	0.7273	
8	2015-02 – 2015-05	45	26	18	1	0.5778	0.4000	0.0222	6	0.1333	2	0.1053	1	19	15	5	7	0	0	0	7	0	0.6541	0.8866	1.0233	
9	2015-05 – 2015-08	41	18	22	1	0.4390	0.5366	0.0244	4	0.0976	0	0.0000	1	20	11	10	37	0	0	0	37	0	0.4183	0.8837	0.8095	
10	2015-08 – 2015-11	45	13	31	1	0.2889	0.6889	0.0222	9	0.2000	3	0.0938	1	15	9	9	25	0	0	0	25	0	0.5712	0.8140	0.7273	
11	2015-11 – 2016-02	32	7	24	1	0.2188	0.7500	0.0312	9	0.2812	0	0.0000	1	9	5	6	21	0	0	0	21	0	0.6000	1.0130	1.0175	
12	2016-02 – 2016-05	25	5	19	1	0.2000	0.7600	0.0400	6	0.2400	0	0.0000	1	7	3	4	7	0	0	0	7	0	0.6786	0.9474	0.9778	

	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	0.2500	0.5833	0.5577	0.6667	0.1132	0.8348	0.7175	0.0135	0.3760	-0.4707	0.0452	22	2	1	0.8800	0.0800	0.0400
2	0.8511	0.8372	0.8000	0.1837	0.1087	0.5217	0.4737	0.7778	0.0195	0.1982	0.3072	0.1908	0.6759	-0.3233	0.0483	19	1	1	0.9048	0.0476	0.0476
3	0.8095	0.8205	0.6667	0.0769	0.0755	0.6226	0.5250	0.9286	0.0297	0.3372	0.3476	0.4520	0.4891	-0.5000	0.0370	18	0	1	0.9474	0.0000	0.0526
4	0.8947	0.8649	1.0000	0.0435	0.0465	0.5814	0.4706	0.9000	0.0277	0.2600	0.3605	0.3748	0.3762	-0.5000	0.0443	18	1	0	0.9474	0.0526	0.0000
5	0.7059	0.8667	0.4000	0.0000	0.4464	0.7143	0.5862	0.8621	0.0207	0.1907	0.2435	0.0108	0.1927	0.0033	0.0292	11	3	1	0.7333	0.2000	0.0667
6	0.6286	0.5000	0.4000	0.3542	0.2391	0.5870	0.4074	0.7000	0.0253	0.2774	0.3362	0.0292	0.4738	0.0279	0.0415	15	5	1	0.7143	0.2381	0.0476
7	0.7027	0.7097	0.8000	0.1842	0.1538	0.6538	0.4828	0.8333	0.0208	0.2272	0.3198	0.0430	0.5163	-0.3207	0.0332	14	3	1	0.7778	0.1667	0.0556
8	0.7027	0.6667	0.4444	0.1395	0.1778	0.5778	0.4444	0.7368	0.0252	0.2457	0.3273	0.2190	0.5259	0.0157	0.0364	14	4	1	0.7368	0.2105	0.0526
9	0.7692	0.7692	0.5333	0.1842	0.4390	0.5122	0.4211	0.5652	0.0170	0.0980	0.3317	0.0106	0.4881	0.0051	0.0683	10	9	1	0.5000	0.4500	0.0500
10	0.9143	0.8000	0.8421	0.4000	0.3778	0.6667	0.3571	0.7188	0.0233	0.2450	0.4864	0.0971	0.4091	0.0934	0.0364	8	8	1	0.4706	0.4706	0.0588
11	0.9167	0.8571	0.9333	0.3590	0.3750	0.7188	0.3750	0.7600	0.0274	0.0819	0.2702	0.0008	0.5000	-0.3329	0.0524	4	5	1	0.4000	0.5000	0.1000
12	1.0000	0.7500	1.0000	0.3704	0.2800	0.7200	0.5000	0.8000	0.0211	0.0722	0.2517	0.0824	0.2531	0.0668	0.0400	3	4	0	0.4286	0.5714	0.0000

Community smells: Pearson's correlation ( Mongoose )

	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	-0.30	-0.54	0.58	-0.20	-0.55	0.56	0.02	0.44	0.36	0.23	0.15	-	-0.14	-0.46	0.94	-	-	-0.28	-	1.00	-	-0.58	0.16	0.12
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.57	0.34	0.10	0.87	0.17	-0.18	0.25	-0.22	-0.32	0.01	-0.03	-	0.17	0.17	-0.18	-0.28	-	-	-	-0.28	-	0.21	-0.67	-0.67
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	-0.30	-0.54	0.58	-0.20	-0.55	0.56	0.02	0.44	0.36	0.23	0.15	-	-0.14	-0.46	0.94	1.00	-	-0.28	-	-	-	-0.58	0.16	0.12

	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	-0.01	-0.15	-0.13	0.52	0.70	-0.12	-0.68	-0.78	-0.20	-0.31	0.02	-0.56	0.15	0.48	0.64	-0.49	0.93	0.34	-0.72	0.68	0.39
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	-0.29	0.32	-0.45	-0.52	0.38	0.29	0.72	0.15	0.37	0.36	0.17	-0.27	-0.62	0.01	-0.36	0.16	-0.22	0.20	0.21	-0.24	0.17
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	-0.01	-0.15	-0.13	0.52	0.70	-0.12	-0.68	-0.78	-0.20	-0.31	0.02	-0.56	0.15	0.48	0.64	-0.49	0.93	0.34	-0.72	0.68	0.39

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

	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	0.34	0.07	0.05	0.54	0.07	0.06	0.95	0.15	0.25	0.48	0.64	-	0.65	0.13	0.00	-	-	0.38	-	0.00	-	0.05	0.65	0.73
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.05	0.28	0.76	0.00	0.61	0.58	0.44	0.49	0.31	0.97	0.93	-	0.59	0.60	0.57	0.38	-	-	-	0.38	-	0.52	0.02	0.02
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.34	0.07	0.05	0.54	0.07	0.06	0.95	0.15	0.25	0.48	0.64	-	0.65	0.13	0.00	0.00	-	0.38	-	-	-	0.05	0.65	0.73
	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	0.98	0.65	0.71	0.10	0.01	0.70	0.01	0.00	0.54	0.32	0.95	0.06	0.63	0.11	0.03	0.10	0.00	0.29	0.01	0.01	0.21			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.38	0.34	0.17	0.10	0.22	0.36	0.01	0.64	0.24	0.25	0.61	0.39	0.03	0.98	0.25	0.62	0.49	0.52	0.51	0.45	0.60			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.98	0.65	0.71	0.10	0.01	0.70	0.01	0.00	0.54	0.32	0.95	0.06	0.63	0.11	0.03	0.10	0.00	0.29	0.01	0.01	0.21			

Community smells: Spearman’s correlation ( Mongoose )

		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	-0.65	0.59	-0.26	-0.60	0.60	0.16	0.49	0.54	0.24	0.22	-	-0.22	-0.57	0.93	-	-	-0.45	-	1.00	-	-0.60	0.05	0.18
prima.donnas		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence		0.76	0.54	-0.10	0.63	0.32	-0.32	-0.22	-0.45	-0.61	-0.01	-0.05	-	0.28	0.37	-0.40	-0.45	-	-	-	-0.45	-	0.24	-0.61	-0.68
black.cloud		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links		-0.38	-0.65	0.59	-0.26	-0.60	0.60	0.16	0.49	0.54	0.24	0.22	-	-0.22	-0.57	0.93	1.00	-	-0.45	-	-	-	-0.60	0.05	0.18
			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		-0.02	-0.42	-0.07	0.75	0.62	0.07	-0.68	-0.76	-0.30	-0.34	0.04	-0.63	0.11	0.59	0.24	-0.57	0.92	0.36	-0.77	0.74	0.34			
prima.donnas		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence		-0.16	0.47	-0.43	-0.61	0.17	0.17	0.76	0.23	0.28	0.35	0.06	-0.11	-0.48	-0.39	-0.29	0.35	-0.46	0.26	0.34	-0.42	0.14			
black.cloud		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links		-0.02	-0.42	-0.07	0.75	0.62	0.07	-0.68	-0.76	-0.30	-0.34	0.04	-0.63	0.11	0.59	0.24	-0.57	0.92	0.36	-0.77	0.74	0.34			

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

	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	0.22	0.02	0.04	0.41	0.04	0.04	0.61	0.10	0.07	0.46	0.50	-	0.50	0.05	0.00	-	-	0.14	-	0.00	-	0.04	0.87	0.59
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.00	0.07	0.75	0.03	0.31	0.31	0.49	0.15	0.04	0.97	0.88	-	0.38	0.24	0.19	0.14	-	-	-	0.14	-	0.46	0.05	0.02
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.22	0.02	0.04	0.41	0.04	0.04	0.61	0.10	0.07	0.46	0.50	-	0.50	0.05	0.00	0.00	-	0.14	-	-	-	0.04	0.87	0.59

	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	0.96	0.20	0.83	0.01	0.03	0.82	0.01	0.00	0.35	0.28	0.90	0.03	0.73	0.04	0.46	0.05	0.00	0.25	0.00	0.01	0.29
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.63	0.14	0.18	0.05	0.59	0.61	0.00	0.47	0.37	0.27	0.84	0.73	0.12	0.21	0.37	0.27	0.13	0.42	0.29	0.17	0.66
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.96	0.20	0.83	0.01	0.03	0.82	0.01	0.00	0.35	0.28	0.90	0.03	0.73	0.04	0.46	0.05	0.00	0.25	0.00	0.01	0.29