

Socio-technical analysis result (Mahout)

	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		53	43	6	4	0.8113	0.1132	0.0755	0	0.0000	0	0.0000	1	23	21	6	24	0	19	0	24	0.1429	0.3071	0.0000	0.0000
2	2013-08 – 2013-11		38	33	3	2	0.8684	0.0789	0.0526	0	0.0000	0	0.0000	1	18	17	2	2	0	16	0	2	0.0000	0.4000	0.6813	0.6667
3	2013-11 – 2014-02		46	40	3	3	0.8696	0.0652	0.0652	0	0.0000	0	0.0000	1	20	20	2	3	0	16	0	3	0.0000	0.3333	0.3571	0.1818
4	2014-02 – 2014-05		49	41	5	3	0.8367	0.1020	0.0612	3	0.0612	0	0.0000	1	23	23	2	2	0	16	0	2	0.0000	0.6250	0.5474	0.1429
5	2014-05 – 2014-08		39	30	3	6	0.7692	0.0769	0.1538	1	0.0256	1	0.1111	1	15	15	2	0	0	17	0	1	0.5000	0.8333	0.5455	0.4706
6	2014-08 – 2014-11		33	27	3	3	0.8182	0.0909	0.0909	0	0.0000	0	0.0000	1	14	14	0	0	0	10	0	0	1.0000	1.0000	0.6111	0.8000
7	2014-11 – 2015-01		23	20	1	2	0.8696	0.0435	0.0870	0	0.0000	0	0.0000	1	10	10	0	0	0	8	0	0	1.0000	1.0000	0.7143	0.6667
8	2015-01 – 2015-05		35	28	2	5	0.8000	0.0571	0.1429	0	0.0000	0	0.0000	1	14	14	3	2	0	18	0	2	0.6000	0.8286	0.2414	0.0000
9	2015-05 – 2015-08		19	11	3	5	0.5789	0.1579	0.2632	0	0.0000	0	0.0000	1	9	9	0	0	0	2	0	0	1.0000	1.0000	0.8519	0.1333
10	2015-08 – 2015-11		14	12	1	1	0.8571	0.0714	0.0714	0	0.0000	0	0.0000	1	6	6	0	0	0	0	0	0	1.0000	1.0000	0.5455	1.2000
11	2015-11 – 2016-01		7	4	1	2	0.5714	0.1429	0.2857	0	0.0000	0	0.0000	1	3	3	0	0	0	0	0	0	1.0000	1.0000	0.7619	0.4000
12	2016-01 – 2016-05		20	12	5	3	0.6000	0.2500	0.1500	0	0.0000	0	0.0000	1	9	9	2	2	0	5	0	2	0.0000	0.7500	0.0741	0.0000
	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	0.5094	0.5660	0.5532	0.4000	0.6282	0.3119	0.6074	0.2727	0.2496	-0.1958	0.2003	18	3	3	0.7500	0.1250	0.1250					
2	0.4878	0.4211	1.2500	0.4839	0.5000	0.5263	0.5143	0.6000	0.1020	0.3469	0.6046	0.2126	0.0621	-0.4516	0.2333	17	2	0	0.8947	0.1053	0.0000					
3	0.3684	0.3243	0.0000	0.5333	0.4130	0.5652	0.5349	0.6667	0.5092	0.2216	0.4889	0.1237	0.1202	-0.3746	0.2222	20	2	0	0.9091	0.0909	0.0000					
4	0.4186	0.4186	0.5000	0.3077	0.3673	0.5306	0.4773	0.7500	0.0883	0.2428	0.5850	0.0629	0.0659	-0.3760	0.2483	22	1	1	0.9167	0.0417	0.0417					
5	0.6842	0.6842	0.5000	0.4583	0.4872	0.6154	0.5833	0.7778	0.1037	0.3570	0.6059	0.0198	0.0201	-0.4422	0.1835	13	0	2	0.8667	0.0000	0.1333					
6	0.4138	0.4138	2.0000	0.5455	0.3030	0.5758	0.5333	1.0000	0.0997	0.3244	0.5208	0.1054	0.1054	0.0000	0.1667	14	0	0	1.0000	0.0000	0.0000					
7	0.6667	0.6667	0.0000	0.3000	0.3478	0.5652	0.5455	1.0000	0.2178	0.3036	0.4605	0.1379	0.1379	0.0000	0.2213	10	0	0	1.0000	0.0000	0.0000					
8	0.2500	0.2500	0.0000	0.1429	0.5429	0.6000	0.5758	0.5714	0.0931	0.2135	0.4630	0.0476	0.0441	-0.2949	0.2134	12	1	2	0.8000	0.0667	0.1333					
9	0.5217	0.5217	2.0000	0.3913	0.1053	0.5263	0.4375	1.0000	0.1156	0.3430	0.4561	0.0572	0.0572	0.0000	0.2105	9	0	0	1.0000	0.0000	0.0000					
10	0.5333	0.5333	0.0000	0.1111	0.0000	0.5714	0.5385	1.0000	0.2510	0.4428	0.4176	0.2918	0.2918	0.0000	0.1978	6	0	0	1.0000	0.0000	0.0000					
11	0.6667	0.6667	0.0000	0.0000	0.0000	0.5714	0.5000	1.0000	0.3025	0.3889	0.4524	0.1056	0.1056	0.0000	0.3810	3	0	0	1.0000	0.0000	0.0000					
12	0.0000	0.0000	0.0000	0.0000	0.3000	0.5500	0.4000	0.7500	0.0856	0.1682	0.3947	0.0884	0.0713	-0.3817	0.2368	8	1	1	0.8000	0.1000	0.1000					

Community smells: Pearson's correlation (Mahout)

	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	0.55	0.51	0.64	0.16	0.15	0.06	-0.27	-0.09	-0.10	-0.14	-0.14	-	0.54	0.48	0.85	-	-	0.45	-	1.00	-0.39	-0.63	-0.64	-0.56
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.93	0.92	0.49	0.45	0.58	-0.43	-0.55	0.32	0.33	0.28	0.28	-	0.89	0.89	0.74	0.45	-	-	-	0.46	-0.64	-0.71	-0.32	-0.30
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.56	0.52	0.64	0.18	0.15	0.05	-0.26	-0.08	-0.08	-0.09	-0.09	-	0.55	0.49	0.86	1.00	-	0.46	-	-	-0.40	-0.63	-0.67	-0.57
	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	-0.66	-0.72	-0.29	0.08	0.39	-0.02	0.19	-0.70	0.73	-0.10	0.43	0.50	0.49	-0.10	-0.15	0.39	0.77	0.69	-0.64	0.63	0.45			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.15	-0.19	-0.01	0.55	0.95	0.21	0.51	-0.81	0.17	-0.43	0.75	-0.09	-0.24	-0.70	-0.38	0.84	0.65	0.62	-0.65	0.56	0.53			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.59	-0.65	-0.31	0.15	0.40	0.01	0.20	-0.71	0.72	-0.09	0.45	0.49	0.47	-0.12	-0.16	0.39	0.76	0.71	-0.65	0.62	0.47			

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

	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	0.06	0.09	0.03	0.63	0.64	0.86	0.40	0.79	0.77	0.67	0.67	-	0.07	0.11	0.00	-	-	0.14	-	0.00	0.21	0.03	0.03	0.08
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.00	0.00	0.11	0.14	0.05	0.16	0.06	0.32	0.29	0.39	0.39	-	0.00	0.00	0.01	0.14	-	-	-	0.13	0.02	0.01	0.34	0.36
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.06	0.08	0.02	0.57	0.64	0.87	0.41	0.81	0.80	0.77	0.77	-	0.06	0.11	0.00	0.00	-	0.13	-	-	0.20	0.03	0.02	0.07
	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	0.03	0.01	0.39	0.81	0.21	0.96	0.56	0.01	0.01	0.76	0.16	0.09	0.11	0.75	0.65	0.21	0.00	0.01	0.02	0.03	0.14			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.66	0.57	0.97	0.08	0.00	0.51	0.09	0.00	0.60	0.16	0.00	0.77	0.45	0.01	0.22	0.00	0.02	0.03	0.02	0.06	0.07			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.06	0.03	0.36	0.65	0.19	0.98	0.53	0.01	0.01	0.78	0.14	0.11	0.12	0.71	0.63	0.21	0.00	0.01	0.02	0.03	0.12			

Community smells: Spearman's correlation (Mahout)

	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	0.71	0.73	0.64	0.19	0.25	0.04	-0.53	-0.04	-0.04	-0.29	-0.29	-	0.70	0.68	0.85	-	-	0.64	-	0.97	-0.81	-0.95	-0.59	-0.51
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.89	0.86	0.50	0.59	0.20	-0.30	-0.32	0.31	0.31	0.31	0.31	-	0.85	0.83	0.86	0.64	-	-	-	0.74	-0.52	-0.71	-0.44	-0.24
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.79	0.79	0.68	0.32	0.21	0.01	-0.47	0.12	0.12	-0.05	-0.05	-	0.76	0.75	0.92	0.97	-	0.74	-	-	-0.86	-0.98	-0.66	-0.51
		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	-0.74	-0.74	-0.24	0.13	0.64	-0.27	0.03	-0.91	0.04	-0.61	0.38	0.19	0.09	-0.53	0.30	0.64	0.98	0.47	-0.76	0.94	0.37			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.27	-0.27	0.14	0.49	0.96	0.22	0.59	-0.81	-0.06	-0.39	0.83	-0.20	-0.31	-0.55	-0.22	0.75	0.64	0.72	-0.76	0.57	0.68			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.63	-0.63	-0.20	0.18	0.73	-0.17	0.14	-0.94	0.01	-0.57	0.50	0.06	-0.04	-0.67	0.23	0.67	0.95	0.59	-0.85	0.91	0.51			

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

	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	0.01	0.01	0.02	0.56	0.43	0.91	0.08	0.90	0.90	0.37	0.37	-	0.01	0.01	0.00	-	-	0.03	-	0.00	0.00	0.00	0.06	0.11
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.00	0.00	0.10	0.04	0.53	0.35	0.30	0.32	0.32	0.33	0.33	-	0.00	0.00	0.00	0.03	-	-	-	0.01	0.08	0.01	0.18	0.47
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.00	0.00	0.01	0.32	0.52	0.98	0.12	0.72	0.72	0.89	0.89	-	0.00	0.01	0.00	0.00	-	0.01	-	-	0.00	0.00	0.03	0.11
	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	0.01	0.01	0.48	0.71	0.02	0.39	0.93	0.00	0.90	0.03	0.22	0.56	0.78	0.08	0.34	0.03	0.00	0.12	0.00	0.00	0.00	0.24		
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.42	0.42	0.68	0.13	0.00	0.49	0.05	0.00	0.85	0.21	0.00	0.53	0.33	0.06	0.50	0.00	0.03	0.01	0.00	0.05	0.01			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.04	0.04	0.56	0.59	0.01	0.60	0.66	0.00	0.97	0.05	0.10	0.85	0.90	0.02	0.47	0.02	0.00	0.04	0.00	0.00	0.09			