## Socio-technical analysis result ( ${\bf AngularJS}$ )

												•				<u> </u>											
	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	949	820	105	24	0.8641	0.1106	0.0253	26	0.0274	2	0.0155	1	299	285	34	293	0 1	100	0	327	0.00	061 0	.7568	0.0000	0.0000
2	2013-08 -	- 2013-11	898	680	200	18	0.7572	0.2227	0.0200	64	0.0713	4	0.0183	1	311	278	45	384	0	96	0	395	0.00	000 0	.8019	0.8284	0.6052
3	2013-11 -	- 2014-02	787	596	174	17	0.7573	0.2211	0.0216	35	0.0445	8	0.0419	1	266	244	49	359	0	64	0	364	0.00	027 0	.7568	0.8677	0.9144
4	2014-02 -	- 2014-05	821	605	210	6	0.7369	0.2558	0.0073	42	0.0512	5	0.0231	1	286	260	41	275	0	59	0	275	0.00	000 0	.8723	0.7873	0.7617
5	2014-05 -	- 2014-08	654	485	160	9	0.7416	0.2446	0.0138	47	0.0719	12	0.0710	1	219	226	45	441	0	59	0	450	0.00	022 0	.7963	0.9302	0.9714
6	2014-08 -	- 2014-11	661	466	190	5	0.7050	0.2874	0.0076	45	0.0681	4	0.0205	1	193	188	44	538	0	61	0	539	0.00		.7975	0.8304	0.7363
7		- 2015-02	515	365	142	8	0.7087	0.2757	0.0155	43	0.0835	10	0.0667	1	178	156	34	217	0	45		221	0.00		.8491	0.9524	0.9391
8	2015-02 -	- 2015-05	468	369	95	4	0.7885	0.2030	0.0085	23	0.0491		0.0606	1	188	166	27	141	0	24	0	142	0.00		.8047	0.8993	1.0281
9	2015-05 -	- 2015-08	468	368	98	2	0.7863	0.2094	0.0043	25	0.0534		0.0800	1	172	153	21	121	0 1	141	0	121	0.00		.8475	0.8483	0.8141
10	2015-08 -	- 2015-11	433	344	88	1	0.7945	0.2032	0.0023	24	0.0554	3	0.0337	1	175	158	24	120	0	17	0	120	0.00	000 0	.8041	0.9012	0.8995
11	2015-11 -	- 2016-02	436	359	77	0	0.8234	0.1766	0.0000	41	0.0940		0.0519	1	155	146	16	114	0	26	0	114	0.00		.7594	0.8677	0.9277
12	2016-02 -	2016 05	000		0.0	0	0.7576	0.2424	0.0000	45	0.1196	6	0.000	1	1.47	134	20	151	0	27	0	151	0.00	000		0.9062	0.7399
		- 2016-05	396	300	96	0	0.7576	0.2424	0.0000	45	0.1136	0	0.0625	1	147	134	20	101					===		.7557		
	core.global.turnover	core.mail.turnover	396 rayourit aboo		$\frac{\text{ratio.smelly.quitters}}{9}_{\mathfrak{S}}$	ratio.smelly.devs	, rnick			code.truck	closeness.centr	betweenness.centr		1	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
		00000 core.mail.turnover	core code furnover	0.0	catio.smelly.quitters	0.1810 ratio.smelly.devs	2 0.684	9 0.662	mai: cruck mai: 0.736	code.truck	8 closeness.centr	theorems. central of the contract of the contr	degree centr	0	pom:ledolg 2241	0.509	mail.mod	pom.eood	0.005	density 3	sall-only.core.devs	core.devs	ω ml.code.core.devs	2068'0 ratio.mail.only.core	3 0.08	ratio.code.only.core	06 ratio.ml.code.core
12	core.global.turnover	0.0000 core.mail.turnover	0.0000 0.5823	0.00	2000 ratio.smelly.quitters	0.1812 0.2238	2 0.6849 3 0.6533	9 0.662 7 0.601	3 0.736 7 0.793	code.truck	closeness.centr. 8100.0	0.2450 0.1938	0.2023 0.1559	0	pom:leqols .2241 .3164	0.509 0.589	pomelismod	рош- ороо 0.1385 0.2815	0.005 0.004	f density 56 2 46 2 46 2 46 2 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	sal: only.core.devs	code.only.core.devs	5 6 ml.code.core.devs	0.890 0.8598 0.8598	3 0.08 3 0.13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ratio.ml.code.core
	oo core.global.turnover	0.0000 0.7922 0.8008	core code furnover	0.00	2000 ratio.smelly.quitters	0.1810 ratio.smelly.devs	2 0.6849 3 0.6533	0 0.662 0 0.601 0 0.602	3 0.736 7 0.793 0 0.743	code.truck	closeness: centr. 0.0018 0.0018 0.0021	0.2450 0.1938 0.3669	degree centr	0 0	pour: reqois	0.509	pom:jiram 05 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	рош. 900 0.1385 0.2815 0.3278	0.005 0.004 0.004	At the second of	mail.only.core.devs 276 241	code.only.core.devs	ε τ σ ml.code.core.devs	0.8908 0.8598 0.8310	3 0.08 3 0.13 0 0.15	0.0 086 0.0 086 0.0 086 0.0 086 0.0 086 0.0	06 ratio.ml.code.core
1 2	0.0000 0.7410 core.global.turnover	0.0000 0.7922 0.8008 0.6905	0.0000 0.5823 0.7234 0.8889	0.00 0.11 0.11 0.11	000 888 788 788 788 788 788 788 788	0.1812 0.2238 0.2097 0.1864	2 0.6849 3 0.6537 7 0.6620 1 0.6516	9 0.662 7 0.601 0 0.602 3 0.574	3 0.736 7 0.793 0 0.743 5 0.810	code.truck	closeness: centr. 0.0018 0.0021 0.0019	0.2450 0.1938 0.3669 0.3377	0.2023 0.1559 0.3017 0.2385	0 0 0	pour redol so .2241 .3164 .3880 .3129	0.509 0.589 0.460 0.519	pom:liem 05 (01 (02 (02) (03) (03) (03) (03) (03) (03) (03) (03	рош. фоо 0.1385 0.2815 0.3278 0.2754	0.005 0.004 0.004 0.004	And Special Sp	276 276 241 258	code.only.core.devs	5 c c ml.code.core.devs	0.8903 0.8598 0.8310 0.8629	3 0.08 3 0.13 0 0.15 9 0.13	ratio.code.only.core 0.0 086 0.0 0.0 086 0.0 0.0 080 0.0	290 062 103 067
1 2	0.0000 0.7410 0.8458 0.7319 0.9188	0.0000 0.7922 0.8008 0.6905 0.8436	0.0000 0.5823 0.7234 0.8889 0.7209	0 0.0 0 0.1 1 0.1 0 0.1 0 0.1	000 887 886 600 600 600 600 600 600 600 600 600	0.1812 0.2238 0.2097 0.1864 0.2294	2 0.6849 3 0.6537 7 0.6620 4 0.6551	9 0.662 7 0.601 0 0.602 3 0.574 1 0.542	3 0.736 7 0.793 0 0.743 5 0.810 5 0.733	3 code truck 4 (6 (5 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7 (7	closeness.centr. 0.0018 0.0018 0.0021 0.0019 0.0023	0.2450 0.1938 0.3669 0.3377 0.2701	0.2023 0.1559 0.3017 0.2385 0.2317	0 0 0 0	рош. [вдо]ьо .2241 .3164 .3880 .3129 .2429	0.509 0.589 0.460 0.519 0.527	pom:liram 05 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	D.1385 D.2815 D.3278 D.2754 D.2180	0.005 0.004 0.004 0.004 0.005	Arisup 56 2 46 2 49 2 42 2 57 2 57 2 57	276 276 241 258 222	code:only:core.devs	soperation of many series of series s	0.8903 0.8598 0.8310 0.8629 0.8315	3 0.08 3 0.13 3 0.15 9 0.13 5 0.15	ratio.code.only.core 0.0 086 0.0 086 0.0 086 0.0 086 0.0 086	290 062 103 067 150
1 2	0.0000 0.7410 core.global.turnover	0.0000 0.7922 0.8008 0.6905 0.8436 0.9082	0.0000 0.5823 0.7234 0.8889 0.7209 0.6966	0 0.0 0 0.1 1 0.1 1 0.1 0 0.1 0 0.1 6 0.1	0000 877 886 867 877 877 877	0.1812 0.2238 0.2097 0.1864 0.2294 0.2542	2 0.6849 3 0.6537 7 0.6620 4 0.6651 4 0.6652	9 0.662 7 0.601 9 0.574 1 0.542 0 0.600	3 0.736 7 0.793 0 0.743 5 0.810 5 0.733 8 0.774	xode:truck 6 0 6 0 7 0 0 4 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0	0.0018 0.0018 0.0021 0.0023 0.0023	0.2450 0.1938 0.3669 0.3377 0.2701 0.3540	0.2023 0.1559 0.3017 0.2385 0.2317 0.3088		pom: redols of section 1880 and 1880 an	0.509 0.589 0.460 0.519	pom:jiem 05 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	D.1385 D.2815 D.3278 D.2754 D.2180 D.1573	0.005 0.004 0.004 0.005 0.006	Aisuap 56 2 46 2 42 2 57 2 64 1	276 276 241 258	25 43 46 39	9 2 3 2 4 1	0.8903 0.8598 0.8310 0.8629 0.8318 0.8095	3 0.08 3 0.13 3 0.15 5 0.15 6 0.15	0.0 0.088 0.0 0.098 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	290 062 103 067 150 043
1 2	0.0000 0.7410 0.8458 0.7319 0.9188 0.8252 0.7817	0.0000 0.7922 0.8008 0.6905 0.8436 0.9082 0.9070	0.0000 0.5823 0.7234 0.8889 0.7209 0.6966 0.7949	0 0.0 0 0.1 0 0.1 0 0.1 0 0.1 0 0.2	0000 503 984 738 560 777 2143	0.1812 0.2238 0.2097 0.1864 0.2294 0.2542 0.2330	2 0.6849 3 0.6537 7 0.6620 4 0.6655 2 0.7080 0 0.6544	9 0.662 7 0.601 0 0.602 3 0.574 1 0.542 0 0.600 4 0.581	3 0.736 7 0.793 0 0.743 5 0.810 5 0.733 8 0.774 8 0.773	5 (code:truck 7 (4 () 3 () 3 ()	0.0018 0.0018 0.0021 0.0023 0.0024 0.0029	0.2450 0.1938 0.3669 0.3377 0.2701 0.3540 0.3962	0.2023 0.1559 0.3017 0.2385 0.2317 0.3088 0.2833		.2241 .3164 .3880 .3129 .1664 .4675	0.509 0.589 0.460 0.519 0.527 0.493 0.668	pom: lipsu	D.1385 D.2815 D.2754 D.2180 D.1573 D.4233	0.005 0.004 0.004 0.005 0.006 0.006	\$\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat	276 276 241 258 222	25 43 46 39 41	9 2 3 2 4 1 3 2 3 2 4 1 3	0.8903 0.8598 0.8310 0.8629 0.8315 0.8095 0.8182	3 0.08 3 0.13 3 0.15 9 0.13 5 0.15 5 0.18 2 0.16	atio.code.only.core 306 0.0 340 0.0 386 0.0 368 0.0 361 0.0 361 0.0 365 0.0	290 062 103 067 150 043 160
1 2	0.0000 0.7410 0.8458 0.7319 0.9188 0.8252 0.7817 0.7596	0.0000 0.7922 0.8008 0.6905 0.8436 0.9082 0.9070 0.7764	0.0000 0.5823 0.7234 0.8889 0.7209 0.6966 0.7949 0.7869	0.00 0.11 0.11 0.11 0.12 0.13 0.14 0.15 0.10 0.10	000 503 884 738 560 777 1143 991	0.1812 0.2238 0.2097 0.1864 0.2294 0.2542 0.2330 0.1795	2 0.6849 3 0.6537 7 0.6620 4 0.6551 2 0.7080 0 0.6544 6 0.5983	0 0.662 7 0.601 0 0.602 6 0.574 1 0.542 0 0.600 4 0.581 3 0.555	3 0.736 7 0.793 0 0.743 5 0.810 5 0.733 8 0.774 8 0.773 0 0.727	33 (d)	0.0018 0.0018 0.0021 0.0023 0.0024 0.0029 0.0035	0.2450 0.1938 0.3669 0.3377 0.2701 0.3540 0.3962 0.5188	0.2023 0.1559 0.3017 0.2385 0.2317 0.3088 0.2833 0.4131		Pour regols .2241 .3164 .3880 .3129 .2429 .1664 .4675 .3684	0.509 0.589 0.460 0.519 0.527 0.493 0.668 0.486	pom:ligam 15 (2) 15 (2) 15 (3) 17 (4) 18 (4) 19 (4)	D.1385 D.2815 D.3278 D.2754 D.2180 D.1573 D.4233 D.3363	0.005 0.004 0.004 0.005 0.006 0.006	Attended 1	276 276 2241 258 222 187 153 164	25 43 46 39 41 43	9 2 3 2 4 1 3 2 2 4 1 3 2	0.8903 0.8598 0.8316 0.8095 0.8182 0.8586	3 0.08 3 0.13 3 0.15 5 0.15 5 0.18 2 0.16 3 0.13	0.0 code: only; core ratio: code: only; co	290 062 103 067 150 043 160 105
1 2 3 4 5 6 7	0.0000 0.7410 0.8458 0.7319 0.9188 0.8252 0.7817 0.7596 0.8222	0.0000 0.7922 0.8008 0.6905 0.8436 0.9082 0.9070 0.7764 0.8401	0.0000 0.5823 0.7234 0.8889 0.7209 0.6966 0.7949 0.7869 0.7500	0 0.0 0 0.1 0 0.1 0 0.1 0 0.1 0 0.2 0 0.1 0 0.2 0 0.1	000 503 560 777 143 991 486	0.1812 0.2238 0.2097 0.1864 0.2294 0.2542 0.2330 0.1795 0.4081	2 0.6849 3 0.6537 7 0.6620 4 0.65510 5 0.7080 6 0.5983 6 0.6328	0 0.662 7 0.601 0 0.602 6 0.574 1 0.542 0 0.600 4 0.581 3 0.555 6 0.586	3 0.736 7 0.793 0 0.743 5 0.810 5 0.774 8 0.774 8 0.773 0 0.727 5 0.790	33 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0018 0.0018 0.0021 0.0029 0.0029 0.0035 0.0036	0.2450 0.1938 0.3669 0.3377 0.2701 0.3540 0.3962 0.5188 0.5489	0.2023 0.1559 0.3017 0.2385 0.2317 0.3088 0.2833 0.4131 0.4344		Pour lead of local lead of loc	0.509 0.589 0.460 0.519 0.527 0.493 0.668	pom://pem 55 (0) 10 (0)	D.1385 D.2815 D.3278 D.2754 D.1573 D.4233 D.3363 D.2947	0.005 0.004 0.004 0.005 0.006 0.006 0.006	Atricup 56 2 46 2 49 2 42 2 57 2 64 1 66 1 66 1 67 1	276 276 241 258 222 187 153	25 43 46 39 41 43 31 25 20	9 2 3 2 4 1 3 2 1	0.8903 0.8598 0.8310 0.8629 0.8318 0.8095 0.8182 0.8586 0.8786	3 0.08 3 0.13 3 0.15 9 0.13 5 0.18 5 0.16 6 0.13 6 0.13	atio.code.only.core 306 0.0 340 0.0 386 0.0 368 0.0 361 0.0 361 0.0 361 0.0 369 0.0 369 0.0	290 062 103 067 150 043 160 105 058
1 2 3 4 5 6 7 8 9	0.0000 0.7410 0.8458 0.7319 0.9188 0.8252 0.7817 0.7596 0.8222 0.8069	0.0000 0.7922 0.8008 0.6905 0.8436 0.9082 0.9070 0.7764 0.8401 0.8167	0.0000 0.5823 0.7234 0.8889 0.7209 0.6966 0.7949 0.7869 0.7500 0.6222	0.00 0.11 0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17	000 503 984 738 560 777 1443 991 486 1768	0.1812 0.2238 0.2097 0.1864 0.2294 0.2542 0.2330 0.1795 0.4081 0.1617	2 0.6849 3 0.6537 0.6620 4 0.6510 4 0.6544 5 0.5983 0.6328 7 0.5958	0.662 7 0.601 0 0.602 6 0.574 1 0.542 0 0.600 4 0.581 3 0.555 6 0.586 8 0.542	3 0.736 7 0.793 0 0.743 5 0.810 5 0.774 8 0.773 0 0.727 5 0.790 0 0.730	7 code:truck 4 (0 5 (0 5 (0 4 (0 3 (0 3 (0 3 (0 3 (0) 3 (0)	0.0018 0.0018 0.0021 0.0023 0.0024 0.0029 0.0035 0.0036 0.0040	0.2450 0.1938 0.3669 0.3377 0.2701 0.3540 0.3962 0.5188 0.5489 0.5933	0.2023 0.1559 0.3017 0.2385 0.2317 0.3088 0.2833 0.4131 0.4344 0.4683		Pour lead of the l	0.509 0.589 0.460 0.519 0.668 0.486 0.364 0.442	pour: lieu	D.1385 D.2815 D.3278 D.2754 D.2180 D.1573 D.4233 D.3363 D.2947 D.1734	0.005 0.004 0.004 0.005 0.006 0.006 0.006 0.006	\$\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat	276 276 241 258 222 187 153 164 152 157	25 43 46 39 41 43 31 25 20 23	9 2 3 2 4 1 3 2 1 1	0.8903 0.8598 0.8310 0.8629 0.8315 0.8095 0.8182 0.8586 0.874	3 0.08 3 0.08 3 0.13 3 0.15 5 0.15 5 0.16 6 0.13 6 0.13 6 0.11 1 0.12	and the state of t	290 062 103 067 150 043 160 105 058
1 2 3 4 5 6 7 8 9	0.0000 0.7410 0.8458 0.7319 0.9188 0.8252 0.7817 0.7596 0.8222	0.0000 0.7922 0.8008 0.6905 0.8436 0.9082 0.9070 0.7764 0.8401	0.0000 0.5823 0.7234 0.8889 0.7209 0.6966 0.7949 0.7869 0.7500	0 0.0 0 0.1 0 0 0 0.1 0 0 0 0.1 0 0 0 0.1 0 0 0 0.1 0 0 0 0.1 0 0 0 0.1 0 0	0000 503 984 738 560 777 143 991 486 6768 379	0.1812 0.2238 0.2097 0.1864 0.2294 0.2542 0.2330 0.1795 0.4081	2 0.6848 3 0.6537 7 0.6620 4 0.6516 4 0.6652 6 0.5983 6 0.5983 7 0.5958 9 0.6448	0.662 7 0.601 0 0.602 3 0.574 1 0.542 0 0.600 4 0.581 3 0.555 5 0.586 8 0.542 5 0.593	3 0.736 7 0.793 0 0.743 5 0.810 5 0.774 8 0.773 0 0.727 5 0.790 0 0.730 3 0.792	3 0 0 0 3 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0	0.0018 0.0018 0.0021 0.0021 0.0023 0.0024 0.0029 0.0035 0.0036 0.0040 0.0032	0.2450 0.1938 0.3669 0.3377 0.2701 0.3540 0.3962 0.5188 0.5489	0.2023 0.1559 0.3017 0.2385 0.2317 0.3088 0.2833 0.4131 0.4344		Pour lead of local lead of loc	0.509 0.589 0.460 0.519 0.527 0.493 0.668 0.486 0.364	pour: jira ii	D.1385 D.2815 D.3278 D.2754 D.1573 D.4233 D.3363 D.2947	0.005 0.004 0.004 0.005 0.006 0.006 0.006	\$\frac{1}{56} & \frac{2}{46} & \frac{2}{49} & \frac{2}{2} & \frac{4}{65} & \frac{1}{66} & \frac{1}{63} & \frac{1}{175} & \frac	276 276 241 258 222 187 153 164 152	25 43 46 39 41 43 31 25 20	9 2 3 2 4 1 3 2 1 1 0	0.8903 0.8598 0.8310 0.8629 0.8318 0.8095 0.8182 0.8586 0.8786	3 0.08 3 0.13 3 0.15 5 0.15 5 0.18 2 0.16 6 0.13 6 0.11 4 0.12 2 0.09	100 0.00 0.00 0.00 0.00 0.00 0.00 0.00	290 062 103 067 150 043 160 105 058

## Community smells: Pearson's correlation (AngularJS)

					0011	man.	•••		10. 1	Cars	) II	JOI 1	CIGO	011	(		$\alpha i \circ \sim$	' '						
	devs	ml.only.devs	${ m code.only.devs}$	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	mohal turnovar	grobal.tumnover code.turnover
org.silo	0.65	0.54	0.79	0.51	-0.49	0.38	0.53	0.54	-0.16	0.13	-0.45	-	0.52	0.60	0.88	-	-	0.25	-	1.00	0.19	-0.08	-0.20	6 -0.32
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	0.50	0.51	0.25	0.48	0.13	-0.20	0.43	0.02	-0.43	0.06	-0.06	-	0.46	0.45	0.25	0.25	-	-	-	0.27	0.22	0.23	-0.4	4 -0.44
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
missing.links	0.68	0.58	0.78	0.56	-0.44	0.32	0.57	0.52	-0.19	0.11	-0.46	-	0.55	0.63	0.88	1.00		0.27	-	-	0.24	-0.10	-0.2	5 -0.32
		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		_	gionarimon	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.sil		0.06	-0.01	-0.26	-0.19	0.09	0.81	0.28	-0.07	-0.75	-0.61	-0.58	8 -0.1	4 (	).32	-0.00	-0.52	0.61	0.8	87 0	.30 -	-0.66	0.59	0.23
prima.donna		-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-	-
radio.silenc		0.15	-0.14	-0.12	-0.36	0.76	0.40	0.56	0.22	-0.39	-0.21	-0.20	6   0.2	4 -0	).18	0.18	-0.35	0.45	0.	18 0	.37	0.10	-0.19	0.32
black.clou missing.link		-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-	-
		0.05	-0.01	-0.26	-0.19	0.08	0.82	0.32	-0.09	-0.78	-0.63	-0.60	0 - 0.1		0.33	-0.01	-0.54	0.64	0.8		.36 -	-0.64	0.55	0.28

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

Core   Core							<i>J</i>								I		(	0			,				
prima.domas	devs	ml.only.devs	ml.only.devs	a)	ml.code.devs		perc.code.only.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
radio.silence 0.10 0.09 0.44 0.12 0.70 0.53 0.16 0.94 0.16 0.86 0.85 - 0.14 0.14 0.44 0.43 0.05 0.39 0.50 0.47 0.18 black.cloud	org.silo 0.02	0.07	07 0.	.00	0.09	0.11	0.23	0.07	0.07	0.61	0.69	0.15	-	0.08	0.04	0.00	-	-	0.43	-	0.00	0.56	0.81	0.45	0.33
black.cloud missing.links 0.01 0.05 0.00 0.06 0.15 0.30 0.05 0.08 0.55 0.74 0.13 - 0.06 0.03 0.00 0.00 - 0.39 0.46 0.76 0.46 0.46 0.76 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.4	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links 0.01 0.05 0.00 0.06 0.15 0.30 0.05 0.08 0.55 0.74 0.13 - 0.06 0.03 0.00 0.00 - 0.39 0.46 0.76 0.46 0.46 0.76 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.4		0.09	09 0.	.44	0.12	0.70	0.53	0.16	0.94	0.16	0.86	0.85	-	0.14	0.14	0.44	0.43	-	-	-	0.39	0.50	0.47	0.18	0.17
beal.turnover de.turnover de.turnover de.turnover aelly.quitters aelly.devs aelly.devs od od od od ly.core.devs ly.core.devs all.only.core de.only.core		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
re.global.turnover re.mail.turnover re.code.turnover tio.smelly.quitters tio.smelly.quitters tio.smelly.devs ail.truck de.truck ail.mod ail.mod ail.mod ail.mod de.mod de.mod cond.core.devs tio.mail.only.core tio.mail.only.core tio.mail.only.core tio.mail.only.core	missing.links 0.01	0.05	05 0.	.00	0.06	0.15	0.30	0.05	0.08	0.55	0.74	0.13	-	0.06	0.03	0.00	0.00	-	0.39	-	-	0.46	0.76	0.46	0.33
				core.mail.turno	core.code.turno	ratio.	${\rm ratio.smelly.devs}$	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.	global.1	<u> </u>				mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.	ratio.code.only.	ratio.ml.code.core	
org.silo  0.87  0.98  0.45  0.58  0.77  0.00  0.38  0.83  0.00  0.04  0.05  0.67  0.30  1.00  0.08  0.04  0.00  0.34  0.02  0.04  0.47	_		87 0.	98	0.45	0.58	0.77	0.00	0.38	0.83	0.00	0.04	0.05	0.67	0.30	1.00	0.08	8 0.	.04 (	0.00	0.34	0.02	0.04	0.47	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_		- 67 0.0	- 67	0.72	0.28	0.00	0.20	0.06	0.48	0.21	- 0.51	0.42	0.45	0.57	- 7 0.58	 8 0.27	- 7 0.	- .15 (	- 0.58	0.24	0.75	- 0.56	0.32	
black.cloud	black.cloud		-	-	-	-	-	-	-	-	-	-	-			-		-	-	-	-	-	-	-	
missing.links 0.87 0.98 0.43 0.57 0.80 0.00 0.31 0.78 0.00 0.03 0.04 0.66 0.29 0.97 0.07 0.03 0.00 0.25 0.03 0.07 0.37	missing.links	0.87	87 0.	98	0.43	0.57	0.80	0.00	0.31	0.78	0.00	0.03	0.04	0.66	0.29	9 0.9	7 0.07	7 0.	.03 (	0.00	0.25	0.03	0.07	0.37	-

## Community smells: Spearman's correlation ( AngularJS )

				_	OIIII	Laii	$\sigma_{\mathcal{J}}$		· ~P		ICII D	CO.		au.	( -		AIGH C	,~ ,						
	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	oreo obco oreo	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	b	communicability	global.turnover
org.silo	0.72	0.68	0.83	0.73	-0.64	0.57	0.64	0.65	-0.14	0.13	-0.35	-	0.71	0.67	0.87	7 -	-	0.52	-	1.00	0.35	6 -0.1	9 -0	.20 -0.3
prima.donnas	-	_	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-
radio.silence	0.69	0.67	0.57	0.62	-0.16	0.07	0.54	0.22	-0.38	0.05	-0.20	-	0.53	0.50	0.44	0.52	-	-	-	0.52	0.31	-0.0	08 -0	.53 -0.4
black.cloud	-	_	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-
missing.links	0.72	0.68	0.83	0.73	-0.64	0.57	0.64	0.65	-0.14	0.13	-0.35	-	0.71	0.67	0.87	1.00	-	0.52	-	-	0.35	6 -0.1	19 -0	.20 -0.3
		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.s		-0.01	-0.08	-0.29	0.06	0.54	0.83	0.36	0.03	-0.73	-0.58	-0.	55 -	0.01	0.59	0.08	-0.62	0.68	0.8	87 O.	.54 -	-0.64	0.66	0.35
prima.doni		-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	0.0	-	-	-	-	-
radio.silei		-0.06	-0.12	-0.13	-0.31	0.62	0.60	0.70	0.29	-0.56	-0.41	-0.	40	0.20	0.14	0.08	-0.40	0.50	0.3	38 0.	.38	0.00	0.02	0.27
black.clc		- 0.01	- 0.00	- 0.00	-	0.54	- 0.00	- 0.00	- 0.00	0.72	0.50	0	-	- 0.01	- 0.50	-	0.00	- 0.60	0.0	-	-	- 0.64	- 0.00	0.05
$_{ m missing.lin}$	nks	-0.01	-0.08	-0.29	0.06	0.54	0.83	0.36	0.03	-0.73	-0.58	-0.	05 -	0.01	0.59	0.08	-0.62	0.68	0.8	<i>57</i> 0.	.54 -	-0.64	0.66	0.35

			Coı	nmu	nity	sme	ells:	Spea	arma	n's	corre	elat	ion	- p-v	alue	es (	An	gula	rJS	)				
	devs	ml.only.devs	${\rm code.only.devs}$	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	0.02	0.00	0.01	0.03	0.06	0.02	0.02	0.67	0.69	0.27	-	0.01	0.02	0.00	-	-	0.08	-	0.00	0.27	0.56	0.56	0.37
prima.donnas radio.silence	0.01	0.00	0.05	0.02	0.60	0.00	0.07	0.50	0.00	- 0.00	0.52	-	- 0.00	0.00	0.15	0.00	-	-	-	- 0.00	0.20	- 0.00	0.10	0.14
black.cloud	0.01	0.02	0.05	0.03	0.62	0.82	0.07	0.50	0.22	0.89	0.53	-	0.08	0.09	0.15	0.08	-	_	-	0.08	0.32	0.80	0.10	0.14
missing.links	0.01	0.02	0.00	0.01	0.03	0.06	0.02	0.02	0.67	0.69	0.27	_	0.01	0.02	0.00	0.00	-	0.08	_	_	0.27	0.56	0.56	0.37
		core.global.turnover	core.mail.turnover	core.code.turnover	${\rm ratio.smelly.quitters}$	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr		-			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	
	g.silo	0.99	0.82	0.39	0.86	0.07	0.00	0.26	0.94	0.01	0.05	0.07	7 0.9	7 0.0	5 - 0.8	0.	03	0.02	0.00	0.07	0.03	0.02	0.26	
prima.do	onnas	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	

 $0.07 \quad 0.97 \quad 0.05 \quad 0.82 \quad 0.03 \quad 0.02 \quad 0.00 \quad 0.07 \quad 0.03 \quad 0.02 \quad 0.26$ 

black.cloud

missing.links 0.99 0.82 0.39 0.86 0.07 0.00 0.26 0.94 0.01 0.05