Socio-technical analysis result ( Django )

												J				<u> </u>	<u> </u>	<u> </u>								
	range.date		devs	m 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	ij	black.cloud	missino links		$\operatorname{st.congruence}$	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 (	) 47	0	270	6 (	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	50	0	273	3 (	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	) 5	0	16	5 (	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	67	0	263	3 (	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 (	37	0	148	8 (	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 (	40	1	114	4 (	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	) 41	0	230	6 (	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 (	53	0	198	8 (	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	45	0	163	3 (	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 (	) 46	0	108	8 (	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 (	52	0	98	8 (	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 (	55	0	13	1 (	0.0709	0.8477	0.6510	0.7197
	vei	٠	2	_	E.																$\infty$	$\infty$		j.	re	
	core.global.turnover	core.mail.turnover	eore code turnover		ratio.smelly.quitters	m ratio.smellv.devs	Activities for the state of the	Sionaria mon	mail.truck	code.truck	closeness.centr	hetweenness centr	æ.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	00000.0 core.mail.	0.0000	) 0.0	0000 ratio	0.4129	$\frac{2}{5}$ $\frac{2}{5}$ $0.723$	5 0.641	5 0.783	2 (	closeness 0000.0	0.1578	0.3609 degree.centr	0.	[reqola   2643]		920	0.2347	0.03	07	.kluo:liem 44	8 code.only.core	ml.code.cor	ratio.mail.	0.2400	0.1733
1 2	0.0000 0.4000	0.0000 0.4426	0.0000 0.5574	) 0.0 1 0.3	0000 3621	0.4129 0.4291	$\frac{2}{6}$ $\frac{2}$	5 0.641 8 0.591	5 0.783 2 0.793	2 (	Selles Clooso 0.0060 0.0057	0.1578 0.1364	0.3609 0.2650	0. 0.	7eqola 2643 .2969	0.3	920 357	0.2347 0.2551	0.02	07 33	.kluo:liem 44 54	18 code.only.core	13 ml.code.cor	0.5867 0.6429	0.2400 0.2262	0.1733 0.1310
$-\frac{1}{2}$	0.0000 0.4000 0.7626	0.0000 0.4426 0.7179	0.0000 $0.5574$ $0.6122$	0.0 0.0 1 0.3 2 0.3	0000 3621 2000 3621	0.4129 0.4291 0.2537	0.723 0.701 0.701 7 0.716	5 0.641 8 0.591 4 0.563	5 0.783 2 0.793 30 0.817	2 (3 3 (3	0.0060 0.0057 0.0074	0.1578 0.1364 0.1680	0.3609 0.2650 0.2951	0. 0. 0.	[reqola .2643 .2969 .2389	$0.3 \\ 0.5$	920 357 284	0.2347 0.2551 0.2499	$0.02 \\ 0.02$	07 33 49	.kluo:liem 44 54 43	18 19 code.only.core	13 11 9 ml.code.cor	0.5867 0.6429 0.6935	0.2400 0.2262 0.1613	$   \begin{array}{c c}     \hline       0.1733 \\       0.1310 \\       0.1452   \end{array} $
$-\frac{1}{2}$	0.0000 0.4000 0.7626 0.5280	0.0000 0.4426 0.7179 0.6465	0.0000 0.5574 0.6122 0.2642	0.0 0.0 1 0.3 2 0.3 2 0.1	0000 3621 3816 1884	0.4129 0.4291 0.2537 0.5430	9 0.723 1 0.701 7 0.716 0 0.734	5 0.641 8 0.591 4 0.563 4 0.654	5 0.783 2 0.793 30 0.817 44 0.765	2 (3 1 (3 5 (5	0.0060 0.0057 0.0060 0.0060	0.1578 0.1364 0.1680 0.1678	0.3609 0.2650 0.2951 0.3201	0. 0. 0.	.2643 .2969 .2389 .3388	$0.3 \\ 0.5 \\ 0.2$	920 357 284 837	0.2347 0.2551 0.2499 0.3117	0.02 $0.02$ $0.02$	07 33 49 50	·śluo:liem 44 43 36	18 19 10 23 23 23 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	13 11 9 11	0.5867 0.6429 0.6935 0.5143	0.2400 0.2262 0.1613 0.3286	0.1733 0.1310 0.1452 0.1571
$-\frac{1}{2}$ $\frac{3}{4}$	0.0000 0.4000 0.7626 0.5280 0.6929	0.0000 0.4426 0.7179 0.6465 0.6526	0.0000 0.5574 0.6122 0.2642 0.5938	0.0 0.0 1 0.3 2 0.3 2 0.1 8 0.5	0000 3621 3816 1884 5161	0.4129 0.4291 0.2537 0.5430 0.4298	9 0.723 1 0.701 7 0.716 0 0.734 8 0.741	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627	5 0.783 2 0.793 30 0.817 44 0.765 79 0.776	2 (3 3 (4 5 (5)	0.0060 0.0057 0.0060 0.0060 0.0068	0.1578 0.1364 0.1680 0.1678 0.1982	0.3609 0.2650 0.2951 0.3201 0.3337	0. 0. 0. 0.	Teqologia .2643 .2969 .2389 .3388 .4496	$0.3 \\ 0.5 \\ 0.2 \\ 0.3$	920 357 284 837 409	0.2347 0.2551 0.2499 0.3117 0.4221	0.02 $0.02$ $0.02$ $0.02$	07 33 49 50 76	44 54 43 36 35	18 19 10 23 17	13 11 9 11 13	0.5867 0.6429 0.6935 0.5143 0.5385	0.2400 0.2262 0.1613 0.3286 0.2615	0.1733 0.1310 0.1452 0.1571 0.2000
1 2 3 4 5 6	0.0000 0.4000 0.7626 0.5280 0.6929 0.5512	0.0000 0.4426 0.7179 0.6465 0.6526 0.5283	0.0000 0.5574 0.6122 0.2642 0.5938 0.6897	0.0 1 0.3 2 0.3 2 0.1 3 0.5 7 0.4	0000 3621 3816 1884 5161 4069	0.4129 0.4291 0.2537 0.5430 0.4298 0.3529	9 0.723 1 0.701 7 0.716 9 0.734 8 0.741 9 0.750	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627 0 0.635	5 0.783 2 0.793 30 0.817 44 0.765 79 0.776 52 0.798	2 (3) 3 (3) 5 (4) 5 (4) 6 (6)	0.0060 0.0057 0.0060 0.0057 0.0060 0.0068 0.0053	0.1578 0.1364 0.1678 0.1982 0.1549	0.3609 0.2650 0.2951 0.3201 0.3337 0.2841	0. 0. 0. 0. 0.	78 Fedoral Reports 1 Fedoral Reports 2643 Fedoral Reports 2389 Fedoral Reports 2388 Fedoral Reports 2486 Fedoral R	0.3 0.5 0.2 0.3 0.3	920 357 284 837 409 651	0.2347 0.2551 0.2499 0.3117 0.4221 0.3688	0.02 0.02 0.02 0.02 0.02	07 33 49 50 76 59	· Kiluo:liem 44 54 43 36 35 50	18 19 10 23 17 20	13 11 9 11 13 8	0.5867 0.6429 0.6935 0.5143 0.5385 0.6410	0.2400 0.2262 0.1613 0.3286 0.2615 0.2564	0.1733 0.1310 0.1452 0.1571 0.2000 0.1026
6	0.0000 0.4000 0.7626 0.5280 0.6929 0.5512 0.6015	0.0000 0.4426 0.7179 0.6465 0.5283 0.6981	0.0000 0.5574 0.6122 0.2642 0.5938 0.6897 0.6207	5 0 0.0 4 0.3 2 0.3 2 0.1 3 0.5 7 0.4 7 0.2	0000 3621 3816 1884 5161 4069 2985	0.4129 0.4291 0.2537 0.5430 0.4298 0.3529 0.4353	0.723 0.7016 0.734 0.741 0.750 0.750 0.750 0.745	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627 0 0.635 1 0.657	5 0.783 2 0.793 30 0.817 4 0.765 79 0.776 52 0.798 71 0.797	2 (d. 1) (d. 3) (d. 4)	0.0060 0.0057 0.0060 0.0060 0.0068 0.0053 0.0059	0.1578 0.1364 0.1680 0.1678 0.1982 0.1549 0.1748	0.3609 0.2650 0.2951 0.3337 0.2841 0.3133	0. 0. 0. 0. 0.	2643 2969 2389 3388 4496 4571 4773	0.3 0.5 0.2 0.3 0.3 0.4	920 357 284 837 409 651 247	0.2347 0.2551 0.2499 0.3117 0.4221 0.3688 0.4673	0.02 0.02 0.02 0.02 0.02 0.02	07 33 49 50 76 59	in Signature	18 19 10 23 17 20 21	13 11 9 11 13 8 9	0.5867 0.6429 0.6935 0.5143 0.5385 0.6410 0.5652	0.2400 0.2262 0.1613 0.3286 0.2615 0.2564 0.3043	0.1733 0.1310 0.1452 0.1571 0.2000 0.1026 0.1304
$-\frac{1}{2}$ $\frac{3}{3}$ $\frac{4}{5}$ $\frac{6}{7}$ $\frac{7}{8}$	0.0000 0.4000 0.7626 0.5280 0.6929 0.5512 0.6015 0.5441	0.0000 0.4426 0.7179 0.6465 0.6526 0.5283 0.6981 0.5143	0.0000 0.5574 0.6122 0.2642 0.5938 0.6897 0.6207 0.5862	65 0 0.0 1 0.3 2 0.3 2 0.1 8 0.5 7 0.4 7 0.2 2 0.3	0000 3621 3816 1884 5161 4069 2985 3626	0.4129 0.4291 0.2537 0.5430 0.4298 0.3529 0.4353 0.4181	0.723 0.701 0.701 7 0.716 0 0.734 8 0.741 0 0.750 3 0.745 1 0.752	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627 0 0.635 1 0.657 6 0.627	5 0.783 2 0.793 60 0.817 44 0.765 79 0.776 12 0.798 71 0.797 75 0.825	2 (1 (3 (5 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6	0.0060 0.0057 0.0060 0.0060 0.0068 0.0053 0.0059 0.0051	0.1578 0.1364 0.1680 0.1678 0.1982 0.1549 0.1748 0.2201	0.3609 0.2650 0.2951 0.3201 0.3337 0.2841 0.3133 0.3956	0. 0. 0. 0. 0. 0.	.2643 .2969 .2389 .3388 .4496 .4571 .4773 .2957	0.3 0.5 0.2 0.3 0.3 0.4 0.3	920 357 284 837 409 651 247 169	0.2347 0.2551 0.2499 0.3117 0.4221 0.3688 0.4673 0.2889	0.02 0.02 0.02 0.02 0.02 0.02 0.02	07 33 49 50 76 59 92	% Marie Mari	18 19 10 23 17 20 21 15	13 11 9 11 13 8 9 13	0.5867 0.6429 0.6935 0.5143 0.5385 0.6410 0.5652 0.6111	0.2400 0.2262 0.1613 0.3286 0.2615 0.2564 0.3043 0.2083	0.1733 0.1310 0.1452 0.1571 0.2000 0.1026 0.1304 0.1806
6	0.0000 0.4000 0.7626 0.5280 0.6929 0.5512 0.6015 0.5441 0.5306	0.0000 0.4426 0.7179 0.6465 0.6526 0.5283 0.6981 0.5143 0.5981	0.0000 0.5574 0.6122 0.2642 0.5938 0.6897 0.6207 0.5862 0.3582	6 0 0.0 1 0.3 2 0.3 2 0.1 3 0.5 7 0.4 7 0.2 0 .3 0 .3 0 .5 0 .3 0	0000 3621 3816 1884 5161 4069 2985 3626 3667	0.4129 0.4291 0.2537 0.5430 0.4298 0.3529 0.4353 0.4181 0.4456	0 0.723 0 0.701 7 0.716 0 0.734 8 0.741 9 0.750 3 0.745 1 0.752 3 0.733	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627 0 0.635 1 0.657 6 0.627 3 0.629	5 0.783 2 0.793 60 0.817 44 0.765 79 0.776 62 0.798 71 0.797 75 0.825 96 0.775	2 (d.1 (d.3 (d.5 (d.3 (d.3 (d.3 (d.3 (d.3 (d.3 (d.3 (d.3	0.0060 0.0057 0.0060 0.0060 0.0068 0.0053 0.0059 0.0051	0.1578 0.1364 0.1680 0.1678 0.1982 0.1549 0.1748 0.2201 0.2927	0.3609 0.2650 0.2951 0.3201 0.3337 0.2841 0.3133 0.3956 0.3893	0. 0. 0. 0. 0. 0.	2643 2969 2389 3388 4496 4571 4773 2957 3999	0.3 0.5 0.2 0.3 0.3 0.4 0.3	920 357 284 837 409 651 247 169 629	0.2347 0.2551 0.2499 0.3117 0.4221 0.3688 0.4673 0.2889 0.3705	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01	07 33 49 50 76 59 92 05	% in	18 19 10 23 17 20 21 15 30	13 11 9 11 13 8 9	0.5867 0.6429 0.6935 0.5143 0.5385 0.6410 0.5652 0.6111 0.5125	0.2400 0.2262 0.1613 0.3286 0.2615 0.2564 0.3043 0.2083 0.3750	0.1733 0.1310 0.1452 0.1571 0.2000 0.1026 0.1304 0.1806 0.1125
6 7 8 9 10	0.0000 0.4000 0.7626 0.5280 0.6929 0.5512 0.6015 0.5441 0.5306 0.6620	0.0000 0.4426 0.7179 0.6465 0.6526 0.5283 0.6981 0.5143 0.5981 0.5400	0.0000 0.5574 0.6122 0.2642 0.5938 0.6897 0.5862 0.3582 0.8169	66 0 0.0 14 0.3 12 0.3 12 0.1 13 0.5 17 0.4 17 0.2 18 0.3 19 0.3 10	9 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.4129 0.4291 0.2537 0.5430 0.4298 0.3529 0.4353 0.4181 0.4456	0 0.723 1 0.701 7 0.716 0 0.734 8 0.741 9 0.750 3 0.745 1 0.752 6 0.733 8 0.719	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627 0 0.635 1 0.657 6 0.627 3 0.629	5 0.783 2 0.793 60 0.817 44 0.765 79 0.776 62 0.798 71 0.797 75 0.825 66 0.775 11 0.744	2 (d. 1) (d. 3) (d. 5) (d. 1) (d. 6) (d. 3) (d. 6) (d. 9) (d. 0) (d. 0) (d. 1)	0.0060 0.0057 0.0060 0.0068 0.0068 0.0053 0.0059 0.0051 0.0066	0.1578 0.1364 0.1680 0.1678 0.1982 0.1549 0.1748 0.2201 0.2927 0.3651	0.3609 0.2650 0.2951 0.3201 0.3337 0.2841 0.3133 0.3956 0.3893 0.4991	0. 0. 0. 0. 0. 0. 0.	2643 .2969 .2389 .3388 .4496 .4571 .4773 .2957 .3999 .3940	0.3 0.5 0.2 0.3 0.3 0.4 0.3 0.3 0.3	920 357 284 837 409 651 247 169 629 115	0.2347 0.2551 0.2499 0.3117 0.4221 0.3688 0.4673 0.2889 0.3705 0.3100	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02	07 33 49 50 76 59 92 05 56 23	% luo: lieu   44   54   43   36   35   50   39   44   45   45	18 19 10 23 17 20 21 15 30 27	13 11 9 11 13 8 9 13	0.5867 0.6429 0.6935 0.5143 0.5385 0.6410 0.5652 0.6111 0.5125 0.5844	0.2400 0.2262 0.1613 0.3286 0.2615 0.2564 0.3043 0.2083 0.3750 0.3506	0.1733 0.1310 0.1452 0.1571 0.2000 0.1026 0.1304 0.1806 0.1125 0.0649
6 7 8 9	0.0000 0.4000 0.7626 0.5280 0.6929 0.5512 0.6015 0.5441 0.5306	0.0000 0.4426 0.7179 0.6465 0.6526 0.5283 0.6981 0.5143 0.5981	0.0000 0.5574 0.6122 0.2642 0.5938 0.6897 0.6207 0.5862 0.3582	68 00 0.0 14 0.3 12 0.3 12 0.1 13 0.5 17 0.4 17 0.2 18 0.5 19 0.4 19 0.4 19 0.4 19 0.4 19 0.4 19 0.4 19 0.3 19 0.5 19 0.5 10	9 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.4129 0.4291 0.2537 0.5430 0.4298 0.3529 0.4353 0.4181 0.4456	0 0.723 0 0.701 7 0.716 0 0.734 8 0.741 9 0.750 3 0.745 1 0.752 3 0.733 8 0.719 8 0.726	5 0.641 8 0.591 4 0.563 4 0.654 2 0.627 0 0.635 1 0.657 6 0.627 3 0.629 1 0.624	5 0.783 2 0.793 30 0.817 44 0.765 79 0.776 52 0.798 71 0.797 75 0.825 11 0.744 75 0.827	2 (1 (3 (5 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6	0.0060 0.0057 0.0074 0.0060 0.0068 0.0053 0.0059 0.0051 0.0066 0.0066	0.1578 0.1364 0.1680 0.1678 0.1982 0.1549 0.1748 0.2201 0.2927	0.3609 0.2650 0.2951 0.3201 0.3337 0.2841 0.3133 0.3956 0.3893	0. 0. 0. 0. 0. 0. 0.	2643 2969 2389 3388 4496 4571 4773 2957 3999	0.3 0.5 0.2 0.3 0.3 0.4 0.3 0.3 0.3	920 357 284 837 409 651 247 169 629 115 673	0.2347 0.2551 0.2499 0.3117 0.4221 0.3688 0.4673 0.2889 0.3705	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01	07 33 49 50 76 59 92 05 56 23 32	% in	18 19 10 23 17 20 21 15 30	13 11 9 11 13 8 9 13 9	0.5867 0.6429 0.6935 0.5143 0.5385 0.6410 0.5652 0.6111 0.5125	0.2400 0.2262 0.1613 0.3286 0.2615 0.2564 0.3043 0.2083 0.3750	0.1733 0.1310 0.1452 0.1571 0.2000 0.1026 0.1304 0.1806 0.1125

					C	omn	nunit	y sm	ells:	Pear	rson's	s co	rrela	tion	( D	jang	go )							
	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	orima.donnas		biological desired	Diack.cloud	or consuments	comminicability	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	2 0.9	7 0.0	6 -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		0.24	-	0.62	0.15	0.60	0.31			-0.10	0.2			-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	2 -	-0.10		0.3	1 - 0.4	5 - 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	7 -	0.23	-0.31	1	- 0.1	6 -0.78	-0.15	-0.50
		$core. {\bf global.turnover}$	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr			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	
	g.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	0.0	0 -0.	19 0	).21	-0.26	-0.08	0.62	-0.36	-0.04	0.52	
prima.do		_	_	_	-	_	_	_	_	_	_	-	-	_	-	-	-	-	-	_	_	-	_	
radio.si	lence	-0.74	-0.52	-0.19	-0.41	0.81	0.15	0.68	-0.28	-0.65	0.24	0.33	0.15	6.0.8	9 0.0	00 -0	0.23	0.14	0.55	-0.02	-0.39	0.52	-0.16	

-0.29

-0.63

-0.31

-0.50

0.36

-0.44

0.08

-0.00

0.17

-0.25

0.22

0.40

0.23

-0.29

-0.05

-0.20

-0.09

0.70

0.20

-0.33

-0.10

-0.15

-0.13

0.60

black.cloud -0.06

missing.links -0.33

-0.18

0.17

0.14

-0.66

0.14

-0.67

-0.28

0.37

0.39

-0.18

0.14

0.13

0.09

-0.07

-0.25

-0.01

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

					COII	ши	ii by	211161	19. 1	cars	our s	COL	LCI	auto	11 - 1	p-vc	uuc	9 ( L	Jang	$\mathbf{o}_{j}$					
		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.s	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	0.3	5		0.33	0.33	0.00	0.85	0.01	0.56	0.09
prima.doni		-	-	-	-	-	-	-	-	-	-	-	_	-	-		-		_	-	-	-	-	-	-
radio.siler		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	0.0	4 0.	33 -	_	0.77	0.48	0.34	0.72	0.01	0.04
black.clo	oud (	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	0.7	7 0.	33 -	0.77	-	0.35	0.17	0.22	0.16	0.49
missing.lir	nks (	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	0.4	9 0.	- 00	0.48	0.35	-	0.61	0.00	0.67	0.12
			$\operatorname{core.global.turnover}$			ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.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	
		g.silo	0.21	0.71	0.02	0.01	0.15	0.70	0.63	0.89	0.64	0.07	0.	14 0	0.21	1.00	0.55	0.52	0.41	0.80	0.03	0.24	0.89	0.09	
_	$_{ m ima.do}$		-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	
	adio.si		0.01	0.10	0.58	0.21	0.00	0.65	0.01	0.38	0.02	0.45				0.00	0.99	0.48	0.67	0.06	0.95	0.21	0.09	0.62	
	black.o		0.86		0.68	0.68	0.40	0.23	0.69	0.79	0.46	0.39				0.83	0.62	0.51	0.49	0.89	0.80	0.56	0.77	0.71	
m:	issing.	.links	0.32	0.61	0.03	0.02	0.24	0.57	0.69	0.82	0.96	0.03	0.	10 0	0.15	1.00	0.43	0.20	0.37	0.54	0.01	0.30	0.64	0.04	

					Co	omm	unity	sme	ells:	Spea	rmar	ı's c	corre	elatio	on ( ]	Djan	go	)						
	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	. =	global.turnover	${\rm code.turnover}$
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	7 -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		-0.50	-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			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	
or	g.silo	-0.28	0.13	-0.78	-0.82	0.37	-0.00	0.32	-0.16	-0.04	-0.51	-0.4	7 -0.3	37 0.0	07 -0.	21  0	.25	-0.29	-0.03	0.63	-0.32	-0.12	0.53	

0.20

-0.40

0.11 -0.61

0.45

-0.40

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-0.31

0.30

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-0.25

-0.03

-0.20

0.76

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0.14

-0.10

-0.30

-0.15

-0.20

0.66

prima.donnas radio.silence

black.cloud

missing.links

-0.76

-0.16

0.10

-0.51

-0.20

0.17

-0.31

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-0.74

-0.52

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-0.73

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-0.40

0.23

0.01

0.40

-0.09

0.16

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0.27

-0.07

0.20

-0.12

-0.47

-0.20

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

				•	<i>/</i> 01111	Hair	ity S.		. Dr	Car	ııaıı	b CO.	110	iaui	OII	P	varu	CD (	$\boldsymbol{\nu}_{\mathrm{Jan}}$	$\mathbf{s}^{\mathbf{c}}$					
		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 dave		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	0.3			0.38	0.37	0.00	0.59	0.01	0.58	0.07
prima.don		_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	_		_	_	_	_	_	_	_
radio.sile	ence	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	0.2	23 0.	38 -	-	0.37	0.64	0.12	0.68	0.10	0.12
black.cl	loud	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	0.4	l5 0.	37 -	0.37	-	0.37	0.22	0.22	0.12	0.22
missing.li	inks	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	0.5	66 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	
	0	rg.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	
-		onnas	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	
		silence	0.01	0.11	0.36	0.11	0.46	0.97	0.62	0.83	0.13	0.54				0.00	0.37	0.22	0.25	0.34	0.92	1.00	0.67	0.65	
		.cloud	0.77	0.56	0.37	0.56	0.22	0.22	0.37	0.56	0.55	0.22	0.			0.37	0.56	0.37	0.56	1.00	0.55	0.56	0.77	0.56	
n	nissing	g.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	