Socio-technical analysis result (${\it FFmpeg}$)

									CCCIIII		· carro	-5 ~ = ~		. •		P	<u> </u>	<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	black.cloud	missing.links		st.congruence	communicability	global.turnover	code.turnover
1	2013-04 -	- 2013-07	155	61	28	66	0.3935	0.1806	0.4258	19	0.1226	1	0.0106	24	50	44	23	86	0 70	0	127	0.3	351 (0.8662	0.0000	0.0000
2	2013-07 -		162	64	39	59	0.3951	0.2407	0.3642	18	0.1111	. 0	0.0000	29	48	38	26	147	0 78	1	164	0.2		0.8185	0.5047	
3	2013-10 -		174	67	41	66	0.3851	0.2356	0.3793	16	0.0920	1	0.0093	32	53	43	16	90	0 66	1	95	0.0		0.8542	0.4821	
4	2014-01 -		552	56	400	96	0.1014	0.7246	0.1739	24	0.0435		0.0060	31	60	47	34	145	0 92	2	189	0.2		0.9676	0.1019	
5	2014-04 -	- 2014-07	190	68	44	78	0.3579	0.2316	0.4105	23	0.1211		0.0246	28	58	47	34	120	0 94	0	145	0.2		0.8657	1.2102	2 1.3948
6	2014-07 -		228	173	30	25	0.7588	0.1316	0.1096	9	0.0395	1	0.0182	30	67	59	15	63	0 72	0	66	0.0		0.7500	0.4785	
7	2014-10 -		662	52	505	105	0.0785	0.7628	0.1586	27	0.0408		0.0033	31	59	52	28	56	2 63		85	0.4		0.9832	0.1551	
8	2015-01 -		208	87	33	88	0.4183	0.1587	0.4231	26	0.1250		0.0248	31	63	58	30	91	0 83		138	0.4		0.9077	1.2828	
9	2015-04 -		189	68	40	81	0.3598	0.2116	0.4286	28	0.1481	3	0.0248	31	57	52	25	55	0 74		107	0.3		0.8998	0.6297	
10	2015-07 -		215	87	32	96	0.4047	0.1488	0.4465	24	0.1116		0.0312	30	68	59	36	83	0 100		177	0.4		0.8895	0.4554	
11	2015-10 -		190	88	21	81	0.4632	0.1105	0.4263	27	0.1421	3	0.0294	31	58		27	48	0 86		117	0.4		0.9050	0.5827	
12	2016-01 -	- 2016-04	220	100	22	98	0.4545	0.1000	0.4455	23	0.1045	2	0.0167	30	62	58	28	35	4 114	2	99	0.5	580 C	0.9398	0.4488	0.4324
													0.010.													
	core.global.turnover	core.mail.turnover	ooda tumowar		ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	truck		closeness.centr	betweenness.centr	degree.centr		global.mod		mail.mod	code.mod	density	mail.only.core.devs		ml.code.core.devs		ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core
1	0.0000	0.0000	0.000.0	core.code.turnover	o ratio.smelly.quitters	9169.0 ratio.smelly.devs	global.truck) No. 10.6535	900- 900- 100- 100- 100- 100- 100- 100-	0.0	closeness.centr	betweenness centr	degree.centr	0.1	pom.ledolg 88	0.16	mail.mod	0.2293	A:isua-p 0.0517	8 mail.only.core.devs	code.only.core.devs	16 ml.code.core.devs	0.549	ratio.mail.only.core	22 ratio.code.only.core	ratio.ml.code.core
	$0.0000 \\ 0.4082$	$0.0000 \\ 0.5122$	0.0000 0.3673	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	22.69 ratio.smelly.quitters	0.6516 0.7284	global.truck) E 0.6535 0.6911	75n.t.; po 0.7553 0.7347	0.0	closeness: centr. 0182 0 0198 0	0.4164 0.4473	1	0.17 0.43	pom:leqolg 738	0.16 0.120	pom:lism 14 63	0.2293 0.4467	0.0517 0.0493	25 28 mail.only.core.devs	2 code.only.core.devs	ml.code.core.devs	0.549 0.490	ratio.mail.only.core 0.1 0.2 0.2	1373 0. 2549 0. 2540 0	.3137 .2549
	0.0000 0.4082 0.2970	0.0000 0.5122 0.2963	0.0000 0.3673 0.8095	Core.code.turnover.	0000 ratio.smelly.quitters	0.6516 0.7284 0.5402	0.6774 0.7037 0.6954 0.6954	0.6535 0.6911 0.6767	7 0.8505	0.0	Closeness central 0 0 0 0 1 8 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 1 4 2 0 0 0 0 0 1 4 2 0 0 0 0 0 1 4 2 0 0 0 0 0 1 4 2 0 0 0 0 0 1 4 2 0 0 0 0 0 0 1 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D.4164 0.4473 0.4054	0.6626 0.6277 0.5823	0.17 0.43 0.43	pom:legolg 738 346 179	0.16 0.12 0.16	pom:limail.mod 14 63 78	0.2293 0.4467 0.3759	0.0517 0.0493 0.0478	mail.only.core.devs	2 code.only.core.devs	2 13 3 ml.code.core.devs	0.549 0.490 0.714	0.10 0.2 0.2 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	2549 0.2321 0.2321 0.2321 0.2321	.3137 .2549 .0536
	0.0000 0.4082 0.2970 0.3894	0.0000 0.5122 0.2963 0.3778	0.0000 0.3673 0.8095 0.2800	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0000 6375 7407 6757	0.6516 0.7284 0.5402 0.2500	0.6774 0.7037 0.6954 0.8913	0.6535 0.6911 0.6767 0.6908	yn.t.; poo 0.7553 0.7347 0.8505 0.9315	0.0 0.0 0.0	11	0.4164 0.4473 0.4054 0.0624	0.6626 0.6277 0.5823 0.2506	0.17 0.43 0.41 0.28	pom:mools 738 346 179 844	0.16° 0.12° 0.16° 0.16°	pom:lisum 14 63 78	0.2293 0.4467 0.3759 0.4297	0.0517 0.0493 0.0478 0.0053	28 25 40 30 mail.only.core.devs	7 13 13 17 code.only.core.devs	16 13 3 17	0.549 0.490 0.714 0.468	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	2321 0.2656 0.2656	.2549 .0536 .2656
1 2 3 4 5	0.0000 0.4082 0.2970 0.3894 0.4915	0.0000 0.5122 0.2963 0.3778 0.4468	0.0000 0.3675 0.8095 0.2800 0.4700	0 0.6 0 0.6 0 0.6 0 0.6 0 0.6 0 0.6	0000 6375 7407 6757 6757	0.6516 0.7284 0.5402 0.2500 0.7526	0.6774 0.7037 0.6954 0.8913 0.6947	0.6535 0.6911 0.6767 0.6908 0.6781	30.7553 0.7347 0.8505 0.9315 0.7213	0.0 0.0 0.0 0.0	The second of th	0.4164 0.4473 0.4054 0.0624 0.5297	0.6626 0.6277 0.5823 0.2506 0.6935	0.17 0.43 0.43 0.28 0.29	pom:ledolg 738 346 179 844 914	0.16; 0.12; 0.16; 0.16; 0.08;	pom:jism 14 63 78 79 41	0.2293 0.4467 0.3759 0.4297 0.4604	0.0517 0.0493 0.0478 0.0053 0.0366	28 25 40 30 29	7 13 13 17 16	2 13 3 ml.code.core.devs	0.549 0.490 0.714 0.468 0.460	0.2 0.2 0.2 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	373 0. 2549 0. 2321 0. 2656 0. 2540 0.	3137 .2549 .0536 .2656 .2857
1 2 3 4 5 6	0.0000 0.4082 0.2970 0.3894 0.4915 0.4480	0.0000 0.5122 0.2963 0.3778 0.4468 0.3962	0.0000 0.3673 0.8095 0.2800 0.4706 1.0612	0 0.6 3 0.6 5 0.7 0 0.6 6 0.1	0000 6375 7407 6757 7300	0.6516 0.7284 0.5402 0.2500 0.7526 0.4430	0.6774 0.7037 0.6954 0.8913 0.6947 0.7061	0.6535 0.6911 0.6767 0.6908 0.6781 0.7020	6 0.7553 0.7347 0.8505 0.9315 0.7213 0.7273	0.0 0.0 0.0 0.0 0.0	11	0.4164 0.4473 0.4054 0.0624 0.5297 0.5442	0.6626 0.6277 0.5823 0.2506 0.6935 0.7183	0.17 0.43 0.42 0.28 0.29 0.23	pour:legols 738 346 179 844 914 304	0.16; 0.12; 0.16; 0.16; 0.08; 0.16;	pom:jiem 14 63 78 41 10	0.2293 0.4467 0.3759 0.4297 0.4604 0.4857	0.0517 0.0493 0.0478 0.0053 0.0366 0.0439	28 25 40 30 55 55	7 13 13 17 16 11	16 13 3 17 18 4	0.549 0.490 0.714 0.468 0.460 0.785	00 0.1 02 0.2 13 0.2 13 0.2 13 0.2 15 0.1	1373 0. 2549 0. 2321 0. 2656 0. 2540 0.	
3 4 5 6 7	0.0000 0.4082 0.2970 0.3894 0.4915 0.4480 0.5238	0.0000 0.5122 0.2963 0.3778 0.4468 0.3962 0.5405	0.0000 0.3673 0.8095 0.2800 0.4700 1.0612 0.2791	0 0.0 3 0.6 5 0.7 0 0.6 6 0.1 2 0.7	0000 6375 7407 6757 1670 7300 4203	0.6516 0.7284 0.5402 0.7526 0.4430 0.1586	0.6774 0.7037 0.6954 0.8913 0.6947 0.7061 0.9109	0.6535 0.6911 0.6767 0.6908 0.6781 0.7020 0.6688	900 0.7553 0.7347 0.8505 0.9315 0.7213 0.7273 0.9541	0.0 0.0 0.0 0.0 0.0 0.0	11	0.4164 0.4473 0.4054 0.5297 0.5442 0.0452	0.6626 0.6277 0.5823 0.2506 0.6935 0.7183 0.2103	0.1° 0.4° 0.2° 0.2° 0.2° 0.3°	pour: leqols 738 346 179 844 914 304 092	0.16 0.12 0.16 0.16 0.08- 0.16 0.09	Pom:lim 14 63 78 79 41 10 09	0.2293 0.4467 0.3759 0.4297 0.4604 0.4857 0.5509	0.0517 0.0493 0.0478 0.0053 0.0366 0.0439 0.0030	28 25 40 29 55 32	7 13 13 17 16 11 8	16 13 3 17 18 4 20	0.549 0.490 0.714 0.468 0.460 0.785 0.533	00 0.1 02 0.2 13 0.2 13 0.2 15 0.1 13 0.1	1373 0. 2549 0. 2321 0. 2656 0. 2540 0. 1571 0.	.3137 .2549 .0536 .2656 .2857 .0571
3 4 5 6 7 8	0.0000 0.4082 0.2970 0.3894 0.4915 0.4480 0.5238 0.3934	0.0000 0.5122 0.2963 0.3778 0.4468 0.3962 0.5405 0.3818	0.0000 0.3673 0.8095 0.2800 0.4700 1.0612 0.2791 0.5517	0 0.0 3 0.6 5 0.7 0 0.6 6 0.1 1 0.4 7 0.0	0000 6375 7407 6757 1670 7300 4203 0950	0.6516 0.7284 0.5402 0.2500 0.7526 0.4430 0.1586 0.6058	0.6774 0.7037 0.6954 0.8913 0.6947 0.7061 0.9109 0.6971	0.6535 0.6911 0.6767 0.6908 0.6781 0.7020 0.6688 0.6686	30.7553 0.7553 0.7347 0.8505 0.7213 0.7273 0.07273 0.07541 0.7521	0.0 0.0 0.0 0.0 0.0 0.0	11	0.4164 0.4473 0.4054 0.0624 0.5297 0.5442 0.0452 0.0452	0.6626 0.6277 0.5823 0.2506 0.6935 0.7183 0.2103 0.7003	0.17 0.43 0.28 0.29 0.20 0.30 0.30	pour:leqols 738 346 179 844 914 304 092 070	0.16 0.12 0.16 0.16 0.08 0.16 0.09 0.17	pom:limii 14 63 78 79 41 10 09 52	0.2293 0.4467 0.3759 0.4297 0.4604 0.4857 0.5509 0.5314	0.0517 0.0493 0.0478 0.0053 0.0366 0.0439 0.0030 0.0388	28 25 30 29 55 32 38	7 13 13 17 16 11 8 10	16 13 3 17 18 4 20 20	0.549 0.490 0.714 0.468 0.460 0.785 0.533 0.558	00 0.1 02 0.2 13 0.2 13 0.2 157 0.1 133 0.1 188 0.1	9.00 0.00	.3137 .2549 .0536 .2656 .2857 .0571 .3333 .2941
3 4 5 6 7 8 9	0.0000 0.4082 0.2970 0.3894 0.4915 0.4480 0.5238 0.3934 0.4833	0.0000 0.5122 0.2963 0.3778 0.4468 0.3962 0.5405 0.3818 0.5455	0.0000 0.3673 0.8095 0.2800 0.4706 1.0612 0.2791 0.5517 0.6909	0 0.0 0 0.0 3 0.6 5 0.7 0 0.6 6 0.1 1 0.4 7 0.0 9 0.5	0000 6375 7407 6757 1670 7300 4203 0950 5840	0.6516 0.7284 0.5402 0.2500 0.7526 0.4430 0.1586 0.6058 0.6032	0.6774 0.7037 0.6954 0.8913 0.6947 0.7061 0.9109 0.6971 0.6984	0.6535 0.6911 0.6767 0.6908 0.6781 0.7020 0.6688 0.6686	30.7553 0.7553 0.7347 0.8505 0.9315 0.7273 0.7273 0.9541 0.7521 0.7934	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0182 0 0198 0 0142 0 0012 0 0139 0 0175 0 0008 0 0127 0 0112 0	0.4164 0.4473 0.4054 0.0624 0.5297 0.5442 0.0452 0.0452 0.4993 0.4971	0.6626 0.6277 0.5823 0.2506 0.6935 0.7183 0.2103 0.7003 0.6894	0.17 0.43 0.44 0.28 0.29 0.23 0.30 0.30	pom: leqols 738 346 179 844 914 304 092 070 595	0.16 0.12 0.16 0.16 0.08 0.16 0.09 0.17 0.23	pom:liem 14 63 78 79 41 10 09 52 06	0.2293 0.4467 0.3759 0.4297 0.4604 0.4857 0.5509 0.5314 0.3422	0.0517 0.0493 0.0478 0.0053 0.0366 0.0439 0.0030 0.0388 0.0341	28 25 30 38 38 38 38	7 13 13 17 16 11 8 10 11	16 13 3 17 18 4 20 20 14	0.549 0.490 0.714 0.468 0.460 0.785 0.533 0.558 0.603	00 0.1 00 0.2 13 0.2 13 0.2 13 0.2 13 0.1 13 0.1 13 0.1 13 0.1	9.00 % Proposed Propo	.2549 .0536 .2656 .2857 .0571 .3333 .2941 .2222
3 4 5 6 7 8 9	0.0000 0.4082 0.2970 0.3894 0.4915 0.4480 0.5238 0.3934 0.4833 0.3200	0.0000 0.5122 0.2963 0.3778 0.4468 0.3962 0.5405 0.3818 0.5455 0.3784	0.0000 0.3673 0.8095 0.2800 0.4706 1.0612 0.2791 0.5517 0.6909 0.3279	0 0.0 0 0.0 3 0.6 5 0.7 0 0.6 6 0.1 1 0.4 7 0.0 9 0.5 9 0.5	0000 6375 7407 6757 1670 7300 4203 0950 5840 5435	0.6516 0.7284 0.5402 0.2500 0.7526 0.4430 0.1586 0.6058 0.6032 0.6977	0.6774 0.7037 0.6954 0.8913 0.6947 0.7061 0.9109 0.6971 0.6984 0.6837	0.6535 0.6911 0.6767 0.6908 0.6781 0.7020 0.6688 0.6686 0.6510	5 0.7553 0.7347 0.8505 0.7213 0.7273 0.9541 0.7521 0.7521 0.7934 0.7188	0.0 0.0 0.0 0.0 0.0 0.0 0.0	11000000000000000000000000000000000000	0.4164 0.4473 0.4054 0.0624 0.5297 0.5442 0.0452 0.4993 0.4971 0.3761	0.6626 0.6277 0.5823 0.2506 0.6935 0.7183 0.2103 0.7003 0.6894 0.6334	0.17 0.43 0.41 0.28 0.29 0.30 0.30 0.28 0.30	pom: ledolg 738 346 179 844 914 304 092 070 595 073	0.16; 0.12; 0.16; 0.16; 0.08; 0.16; 0.09; 0.17; 0.23; 0.16;	pomiliem 14 63 78 79 41 10 09 52 06 25	0.2293 0.4467 0.3759 0.4297 0.4604 0.4857 0.5509 0.5314 0.3422 0.4603	0.0517 0.0493 0.0478 0.0053 0.0366 0.0439 0.0030 0.0388 0.0341 0.0442	28 25 40 30 29 55 32 38 38 37	7 13 13 17 16 11 8 10 11 14	16 13 3 17 18 4 20 20 14 22	0.549 0.490 0.714 0.468 0.460 0.785 0.533 0.558 0.603	00 0.1 02 0.2 03 0.2 03 0.2 03 0.2 03 0.1 03 0.1 03 0.1 03 0.1 03 0.1 03 0.1 03 0.1	2549 0. 2549 0. 2540 0. 2540 0. 2571 0. 2571 0. 2571 0. 2571 0. 2571 0. 2571 0. 2571 0.	.2549 .0536 .2656 .2857 .0571 .3333 .2941 .2222 .3014
3 4 5 6 7 8 9	0.0000 0.4082 0.2970 0.3894 0.4915 0.4480 0.5238 0.3934 0.4833 0.3200 0.4762	0.0000 0.5122 0.2963 0.3778 0.4468 0.3962 0.5405 0.3818 0.5455	0.0000 0.3673 0.8095 0.2800 0.4706 1.0612 0.2791 0.5517 0.6909	0 0.6 0 0.6 0 0.6 0 0.6 0 0.6 0 0.6 0 0.6 0 0.6 0 0.6 0 0.5 0 0.6 0 0 0 0.6 0 0 0.6 0 0 0.6 0 0 0.6 0 0 0 0.6 0 0 0.6 0 0 0.6 0	\$\frac{1}{3}\$ \text{constant}\$ con	0.6516 0.7284 0.5402 0.2500 0.7526 0.4430 0.1586 0.6058 0.6032	0.6774 0.7037 0.6954 0.8913 0.6947 0.7061 0.9109 0.6971 0.6984 0.6837 0.6947	0.6535 0.6911 0.6767 0.6908 0.6781 0.7020 0.6688 0.6686 0.6510 0.6776 0.6923	5 0.7553 0.7347 0.8505 0.7213 0.7273 0.07521 0.7521 0.7521 0.77934 0.7188 0.7353	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	The second of th	0.4164 0.4473 0.4054 0.0624 0.5297 0.5442 0.0452 0.0452 0.4993 0.4971	0.6626 0.6277 0.5823 0.2506 0.6935 0.7183 0.2103 0.7003 0.6894	0.17 0.43 0.44 0.28 0.29 0.23 0.30 0.30	Poom: redols 346 179 844 914 304 092 070 595 073 053	0.16 0.12 0.16 0.16 0.08 0.16 0.09 0.17 0.23	pom:liem 114 63 78 79 41 10 009 52 40 625 440	0.2293 0.4467 0.3759 0.4297 0.4604 0.4857 0.5509 0.5314 0.3422	0.0517 0.0493 0.0478 0.0053 0.0366 0.0439 0.0030 0.0388 0.0341	28 25 40 30 29 55 32 38 38 37 36	7 13 13 17 16 11 8 10 11	16 13 3 17 18 4 20 20 14	0.549 0.490 0.714 0.468 0.460 0.785 0.533 0.558 0.603	0.1 0.1 0.2 0.2 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	2549 0.2540 0.2540 0.2541 0.25	.2549 .0536 .2656 .2857 .0571 .3333 .2941 .2222

Community smells: Pearson's correlation (FFmpeg)

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	devs	ml.only.devs	code.only.devs	m 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	$_{ m num.tz}$	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover
org.silo	0.06	-0.39	0.15	-0.11	-0.32	0.31	-0.12	-0.17	-0.13	-0.16	-0.42	-0.18	-0.37	-0.65	0.30	-	-0.51	-0.01	-0.03	0.74	-0.37	-0.14	0.09
prima.donnas	0.28	0.04	0.21	0.44	-0.13	0.10	0.00	0.18	-0.19	-0.06	-0.18	0.10	0.17	0.33	0.08	-0.51	-	0.41	0.17	-0.36	0.53	0.46	-0.28
radio.silence	-0.15	0.11	-0.23	0.43	0.07	-0.27	0.39	0.28	0.22	0.50	0.42	0.03	0.43	0.38	0.63	-0.01	0.41	-	0.49	0.43	0.53	0.27	0.14
black.cloud	-0.07	-0.23	-0.08		-0.18		0.34	0.27	0.23	0.28		0.20	0.00	0.00	0.26	-0.03	0.17	0.49	-	0.39	0.29	0.32	-0.45
missing.links	0.02	-0.47	0.07	0.35	-0.40	0.16	0.25	0.31	0.19	0.37	0.02	-0.16	-0.08	-0.28	0.75	0.74	-0.36	0.43	0.39	-	0.20	0.22	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	
								п															
	_	-0.10	0.10	-0.35	-0.16	0.07	0.14	0.01	0.08	-0.04	-0.10	-0.18	0.61	0.13	0.09	-0.14	-0.49	0.73	-0.12	-0.45	0.83	-0.06	
prima.do	nnas	-0.10 -0.16	0.10	-0.35 -0.24	-0.16 0.06	0.07	0.14 0.28	0.01 0.36	0.08 0.23	-0.04 -0.19	-0.10 -0.21	-0.18 -0.21	0.61 -0.25	0.13 -0.48	0.09 0.17	-0.14 -0.23	-0.49 -0.10	0.73	-0.12 0.48	-0.45 -0.10	0.83	-0.06 0.51	
prima.do radio.sil	nnas lence	-0.10 -0.16 -0.41	0.10 -0.28 -0.50	-0.35 -0.24 -0.38	-0.16 0.06 -0.09	0.07 -0.18 0.38	0.14 0.28 -0.14	0.01 0.36 0.51	0.08 0.23 -0.33	-0.04 -0.19 0.11	-0.10 -0.21 0.10	-0.18 -0.21 0.18	0.61 -0.25 -0.30	0.13 -0.48 -0.32	0.09 0.17 0.09	-0.14 -0.23 0.08	-0.49 -0.10 -0.18	0.73 -0.70 0.02	-0.12 0.48 0.63	-0.45 -0.10 -0.47	0.83 -0.69 -0.13	-0.06 0.51 0.52	
prima.do	nnas lence cloud	-0.10 -0.16	0.10	-0.35 -0.24	-0.16 0.06	0.07	0.14 0.28	0.01 0.36	0.08 0.23	-0.04 -0.19	-0.10 -0.21 0.10 -0.16	-0.18 -0.21	0.61 -0.25	0.13 -0.48	0.09 0.17	-0.14 -0.23	-0.49 -0.10	0.73	-0.12 0.48	-0.45 -0.10	0.83	-0.06 0.51	

					C	omn	nunit	y sr	nells	s: P	ears	on's	co	rrela	atic	n -	p-v	alu	es ((FF	mp	eg)					
		devs	ml.only.devs	code.only.devs	m ondo dorre		perc.m.omy.devs		perc.mr.coge.gevs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	املواه وهوو	core.grobal.devs	core.mail.devs	core.code.devs	org.silo		prima.uomias	radio.silence	black.cloud	missing.links	st.congruence	communicability	${ m global.turnover}$	code.turnover
org.s		0.85	0.21	0.64	0.74	0.3	2 0.33						0.18	0.57	0.2			0.35	_	0.0	9 0.		0.92	0.01	0.24	0.66	0.80	0.94
prima.don		0.38	0.90	0.51	0.15								0.58	0.75	0.5			0.81	0.09		- 0.	_	0.61	0.25	0.08			0.34
radio.sile		0.65	0.73	0.48	0.17	0.0							0.18	0.94	0.1	-		0.03	0.97	0.1			0.12	0.16	0.08		0.69	0.83
black.clc		0.83	0.50	0.82	0.27	0.5	9 - 0.89	0.3			50 0		0.82	0.56	1.0	0 1.	00 (0.43	0.92		1 0.	12	-	0.24	0.39		0.16	0.06
missing.li	nks	0.95	0.13	0.84	0.26	0.2	0 - 0.61	0.4	3 0.3	33 0.	55 0	.24 0	0.95	0.63	0.8	0 0.	38 (0.01	0.01	0.2	5 0.	16	0.24	-	0.53	0.49	0.84	0.79
_				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	sode only core devs	<u> </u>	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core	
		org.s				0.28		0.83	0.66	0.98	0.81	0.91	0.7		.58	0.04	0.69			0.66	0.11	0.0					0.84	
]	prim	a.donn	as 0.	.63 0	.41	0.47	0.87	0.58	0.38	0.25	0.48	0.56	0.5	02	.52	0.43	0.12	0.6	b0 (0.48	0.75	0.01	1 0.1	11 0	.75 0	.01 (0.09	

radio.silence 0.21

black.cloud 0.12

 $0.12 \quad 0.25$

 $0.49 \quad 0.42$

missing.links 0.48 0.96 0.02 0.56

0.79

0.10

0.23

0.67

 $0.69 \quad 0.95$

 $0.45 \quad 0.85$

0.09

0.86

0.91

0.29

0.73

 $0.83 \quad 0.94$

 $0.83 \quad 0.86$

0.75

0.64

0.55

 $0.58 \quad 0.35$

 $0.86 \quad 0.70$

 $0.67 \quad 0.42$

0.31

0.36

 $0.79 \quad 0.81$

0.95

0.03

 $0.76 \quad 0.99 \quad 0.76$

 $0.57 \quad 0.95$

 $0.53 \quad 0.93$

 $0.04 \quad 0.04$

0.03

0.46

 $0.12 \quad 0.70$

 $0.49 \quad 0.98$

 $0.18 \quad 0.00 \quad 0.05$

0.08

0.51

0.22

										L						1 0	,						
	devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	${\rm sponsored.devs}$	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	$_{ m num.tz}$	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover
org.silo	-0.25	-0.48	0.50	-0.36	-0.36	0.60	-0.44	-0.38	-0.13	-0.15	-0.41	-0.20	-0.26	-0.56	0.21	-	-0.53	-0.02	-0.20	0.63	-0.67	-0.32	0.13
prima.donnas	0.50	-0.01	0.01	0.64	-0.08	-0.06	0.05	0.17	-0.37	-0.14	-0.30	0.04	0.20	0.24	0.13	-0.53	-	0.06	0.05	-0.44	0.59	0.57	-0.51
radio.silence	0.20	0.46		0.36	0.27	-0.46	0.55	0.14	0.22	0.59	0.46	-0.27	0.44	0.34	0.70	-0.02	0.06	-	0.47	0.57	0.40	0.20	-0.03
black.cloud	-0.08	0.00	-0.17	0.32	-0.03	-0.17	0.57	0.19	0.20	0.30	0.14	0.11	-0.02	0.00	0.17	-0.20	0.05	0.47	-	0.40	0.20	0.20	-0.37
missing.links	-0.16	-0.26	0.13	0.11	-0.20	0.20	0.24	0.13	0.31	0.45	0.10	-0.28	-0.02	-0.23	0.68	0.63	-0.44	0.57	0.40	_	-0.03	0.08	0.06
	0.10	0.20	0.10				0.21	0.10															
	0.10	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	
or	g.silo	core.global.turnover	10.0 core.mail.turnover	core.code.turnover	6 ratio.smelly.quitters	cratio.smelly.devs	80.0 8 global.truck	mail.truck	code.truck	closeness.centr	o.15	6.00-2 degree.centr	pom:ladolg 0.57	pom:liem 0.27	pom.opoo	ensity density	09.00 mail.only.core.devs	code.only.core.devs	sop:-0.23	ratio.mail	0.7 ratio.code.only.core	ratio.ml.code.core	
or prima.do	g.silo onnas	10.0 0- 01 core.global.turnover	0.01 core.mail.turnover	-0.32 -0.34	-0.12 -0.12	22.0.22	80.0- 80.0- 75.0	.0.13 -0.13 -0.24	-0.15 code:truck	0.10 -0.22	0.15 -0.29	-0.03 -0.29	pom:leqops 0.57 -0.04	0.27 -0.39	po w.epoo 0.24 0.22	60.0- 60.0- 60.0-	-0.40 -0.12	0.62 0.60 code.only.core.devs	-0.23 0.56	-0.50 -0.12	9.0- 6.0- 7.0- 8.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9	ratio.ml.code.core	
or prima.do radio.si	g.silo onnas ilence	01.0- 10.00 core.global.turnover	0.01 -0.13 -0.45	-0.32 -0.34 -0.28	-0.19 -0.12 -0.21	0.22 -0.22 0.52	-0.08 -0.57 -0.12	-0.13 -0.24 0.48	-0.15 -0.43 -0.45	0.10 -0.22 0.05	0.15 -0.29 0.09	-0.03 -0.29 0.17	pom:ledolg 0.57 -0.04 -0.23	0.27 -0.39 -0.22	рош. фроз 0.24 0.22 0.01	-0.03 -0.36 -0.02	-0.40 -0.12 -0.17	0.62 -0.60 0.28	-0.23 0.56 0.60	-0.50 -0.12 -0.50	0.70 ratio.code.only.core	-0.17 -0.65 -0.31	
or prima.do	g.silo onnas ilence cloud	10.0 0- 01 core.global.turnover	0.01 -0.13 -0.45 -0.34	-0.32 -0.34 -0.28 -0.13	-0.12 -0.12	0.22 -0.52 -0.10	-0.08 -0.08 -0.12 -0.02	-0.13 -0.24 -0.48 0.10	-0.15 code:truck	0.10 -0.22 0.05 0.07	0.15 -0.29 0.09 -0.37	-0.03 -0.29 0.17	pom:leqops 0.57 -0.04	0.27 -0.39 -0.22 0.27	po w.epoo 0.24 0.22	60.0- 60.0- 60.0-	-0.40 -0.12	0.62 0.60 code.only.core.devs	-0.23 0.56	-0.50 -0.12	9.0- 6.0- 7.0- 8.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9	ratio.ml.code.core	

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

					\mathbf{C}	11111	mui	поу	21116	115.	phe	ai ii	ıan	5 C	OLIC	Jaur	011 -	Р-	vari	ues	(T. 1	тпр	c _g)					
		devs	ml.only.devs	code.onlv.devs		ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio enoncorod	ratio.aponaoi eu	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs		core.mail.devs	core.code.devs	org.silo	prima.donnas		radio.snence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.	silo	0.44	0.11	0.10	0.2	26 (0.25	0.04	0.15	0.22	0.6	8 0.	64 ().19	0.54	0.42	2 0.0	6 (0.51	-	0.07	0.90	6 0.	.55 (0.03	0.02	0.31	0.71	0.99
prima.don	nas	0.10	0.97	0.97	7 0.0)2 (0.80	0.86	0.88	0.60	0.2	4 0.	68 (0.34	0.89	0.52	0.4	5 (0.69	0.07	-	0.80	6 0.	.88 (0.15	0.04	0.05	0.11	0.11
radio.sile		0.53	0.13	0.35			0.39	0.13	0.07	0.67				0.14	0.40	0.15			0.01	0.96	0.86				0.06	0.20	0.53	0.95	0.92
black.clo		0.80	1.00	0.62			0.92	0.62	0.07	0.58				0.69	0.75	0.96			0.62	0.55	0.88				0.22	0.55	0.55	0.26	0.09
missing.li	nks	0.62	0.42	0.70	0.7	73 (0.53	0.54	0.44	0.70	0.3	3 0.	15 ().75	0.37	0.96	0.4	7 (0.02	0.03	0.15	0.00	6 0.	.22	-	0.92	0.82	0.86	0.67
				core.global.turnover	core.mail.turnover	core-code turnover			ratio.smelly.devs	${ m global.truck}$	mail.truck	code.truck	closeness.centr		betweenness.centr	degree.centr	global.mod	mail.mod	при	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	ilo 0	.78	0.99	0.34				81 (0.70	0.65	0.75				0.06	0.40					0.03	0.47				.60	
	-	a.donn			0.69	0.31	0.					0.16	0.49				0.91	0.21					0.04	0.06				.02	
		o.silen			0.17	0.40						0.14	0.89				0.47	0.50					0.37	0.04				.33	
		ck.clo			0.31	0.69						0.69	0.84				0.55	0.42					0.55	0.62				.84	
	miss	ing.lin	.ks 0	.60	0.80	0.09	0.3	34 0.	10 - 0	35 (0.89	0.32	0.90	0.	70 - 0).78 (0.59	0.59	9.0	3 9 0	.92 (0.08	0.04	0.38	0.0)1 ().	.03 0	.59	