Socio-technical analysis result (Gstreamer)

	range.date		devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	nerc code only devs		perc.ml.code.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	2013-06-2	2013-09	238	208	17	13	0.8739	0.0714	4 0.0	546 11	0.0462	2	0.0667	1	82	80	8	21	0	96	0	26	0.1	1333	0.7733	0.0000	0.0000
2	2013-09-2	2013-11	283	254	17	12	0.8975	0.0603	0.0	424 11	0.0389	1	0.0345	1	98	97	8	3	2	143	1	7	0.3	3000	0.9000	0.5988	0.5763
3	2013-11-2	2014-02	261	233	15	13	0.8927	0.0575	0.0	498 9	0.0345	1	0.0357	1	101	100	8	17	0	91	1	23	0.3	1786	0.7474	0.6507	0.5614
4	2014-02-2	2014-05	250	222	16	12	0.8880	0.0640	0.0	480 1	0.0040	0	0.0000	1	90	88	8	21	0	21	0	27	0.2	2703	0.7558	0.6654	0.6786
5	2014-05-2	2014-08	224	196	15	13	0.8750	0.0670	0.0	580 10	0.0446	1	0.0357	1	93	91	8	24	0	37	0	30	0.3	1429	0.6867	0.6793	0.4286
6	2014-08-2	2014-11	206	176	20	10	0.8544	0.097	0.0	485 16	0.0777	2	0.0667	1	77	75	9	10	0	29	0	15	0.3	1176	0.8275	0.7023	0.5172
7	2014 - 11 - 2	2015-02	191	166	11	14	0.8691	0.0576	0.0	733 9	0.0471	1	0.0400	1	74	73	6	7	0	39	0	14	0.2	2222	0.8178	0.6902	0.6545
8	2015-02-2	2015-05	211	167	29	15	0.7915	0.1374	4 0.0	711 19	0.0900	3	0.0682	1	85	80	12	21	0	32	0	25	0.3	1071	0.8774	0.5672	0.2029
9	2015 - 05 - 2	2015-08	214	180	17	17	0.8411	0.0794	1 0.0	794 10	0.0467	2	0.0588	1	81	78	11	21	0	30	0	32	0.3	3043	0.7980	0.6259	0.6667
10	2015 - 08 - 2	2015-11	212	178	22	12	0.8396	0.1038	8 0.0	566 12	0.0566	1	0.0294	1	83	79	9	19	0	17	0	21	0.0	0870	0.8133	0.6479	0.4118
11	2015 - 11 - 2	2016-02	212	177	21	14	0.8349	0.0991	0.0	660 14	0.0660	3	0.0857	1	83	80	11	24	0	59	0	34	0.0	0811	0.7598	0.6509	0.5217
12	2016-02-2	2016-05	241	207	22	12	0.8589	0.0913	3 - 0.0	498 13	0.0539	5	0.1471	1	93	88	10	24	0	78	0	25	0.0	0741	0.8235	0.5740	0.4348
	core.global.turnove	core.mail.turnover	and and then was	2010	ratio.smelly.quitters		ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr		betweenness.centr	degree.centr	global.mod)	mail.mod		code.mod	densitv			code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core
	0.0000	00000.0	0.0000	0.0	0000	0.44	112 0.6	ledolg 555 0	.6380	0.7333	closeness.	0.43	95 0.4	103	1 redol 2 0.4499	0.4	mail Bail	0.21	$\frac{63}{63}$	0.0196	7. Te	5	3	صم ml.code.core	0.9036 ratio.mail.only	0.0361	0.0602
	0.0000 0	0.0000 0.5424	0.0000 0.5000	0.0	0000	0.51	112 0.6 .94 0.6	[eqolg 555 0 537 0	.6380	0.7333 0.7241	0.0120 0.0127	0.56	95 0.4 41 0.5	403 154	0.4499 0.2625	$0.4 \\ 0.2$	608 410	0.40	63 10	0.0196	7 To 1 To	5 2	3	टा टा ml.code.core	0.9036 0.9200	0.0361 0.0300	$0.0602 \\ 0.0500$
	0.0000 0.5444 0.5829	0.0000 0.5424 0.5787	0.0000 0.5000 0.3750	0.0 0 0.3 0 0.5	0000 3846 5311	$0.51 \\ 0.39$	112 0.6 .94 0.6 .985 0.6	Fedoral 555 0 537 0 130 0	.6380 .6353 .5935	0.7333 0.7241 0.7143	0.0120 0.0127 0.0242	$0.56 \\ 0.71$	95 0.4 41 0.5 23 0.7	403 154 060	0.4499 0.2625 0.4000	0.4 0.2 0.3	608 410 288	$0.40 \\ 0.28$	63 10 43	0.0196 0.0165 0.0170	5 75 99 0 99	5 2 4	3	9 5 5 ml.code.core	0.9036 0.9200 0.9216	0.0361 0.0300 0.0196	0.0602 0.0500 0.0588
6	0.0000 (0.5444 (0.5829 (0.6806 (0.0000 0.5424 0.5787 0.6915	0.0000 0.5000 0.3750 0.3750	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0000 3846 5311 3882	0.51 0.39 0.14	112 0.6 194 0.6 1985 0.6 140 0.6	Fedolo 555 0 537 0 130 0 400 0	.6380 .6353 .5935 .6239	0.7333 0.7241 0.7143 0.7143	0.0120 0.0127 0.0242 0.0203	0.56 0.71 0.43	95 0.4 41 0.5 23 0.7 07 0.4	403 154 060 426	0.4499 0.2625 0.4000 0.3001	0.4 0.2 0.3 0.4	608 410 288 128	$0.40 \\ 0.28 \\ 0.31$	63 10 43 96	0.0196 0.0165 0.0176 0.0193	5 76 99 0 98 8	5 2 4 1	3 3 2 1	ml.code.core	0.9036 0.9200 0.9216 0.9101	0.0361 0.0300 0.0196 0.0112	0.0602 0.0500 0.0588 0.0787
	0.0000 0 0.5444 0 0.5829 0 0.6806 0 0.6011 0	0.0000 0.5424 0.5787 0.6915 0.6034	0.0000 0.5000 0.3750 0.3750	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0000 3846 5311 3882 0373	0.51 0.39 0.14 0.23	112 0.6 .94 0.6 .985 0.6 .140 0.6 .321 0.5	Fedoral 555 0 537 0 130 0 400 0 848 0	.6380 .6353 .5935 .6239 .5646	0.7333 0.7241 0.7143 0.7143 0.7143	0.0120 0.0127 0.0242 0.0203 0.0322	0.56 0.71 0.43 0.43	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3	103 154 060 126 908	0.4499 0.2625 0.4000 0.3001 0.2286	0.4 0.2 0.3 0.4 0.4	608 410 288 128 162	0.40 0.28 0.31 0.00	63 10 43 96 91	0.0196 0.0165 0.0176 0.0193 0.0173		5 2 4 1 5	3 3 2 1 2	5 5 6 7 6 ml.code.core	0.9036 0.9200 0.9216 0.9101 0.9140	0.0361 0.0300 0.0196 0.0112 0.0215	0.0602 0.0500 0.0588 0.0787 0.0645
	0.0000 (0.5444 (0.5829 (0.6806 (0.6011 (0.7412 (0.7412 (0.00000000000000000000000000000000000	0.0000 0.5424 0.5787 0.6915 0.6034 0.7590	0.0000 0.5000 0.3750 0.3750 0.3750	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0000 3846 5311 3882 0373 1722	0.51 0.39 0.14 0.23 0.20	112 0.6 .94 0.6 .085 0.6 .440 0.6 .0321 0.5 .039 0.6	Fequence Fequence	.6380 .6353 .5935 .6239 .5646 .5968	0.7333 0.7241 0.7143 0.7143 0.7143 0.7000	0.0120 0.0127 0.0242 0.0203 0.0322 0.0104	0.56 0.71 0.43 0.43 0.27	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3 50 0.3	103 154 060 126 908 216	0.4499 0.2625 0.4000 0.3001 0.2286 0.4309	0.4 0.2 0.3 0.4 0.4 0.3	608 410 288 128 162 837	0.40 0.28 0.31 0.00 0.15	900 63 10 43 96 91 26	0.0196 0.0165 0.0176 0.0193 0.0173 0.0198	5 75 92 9 8 8 8 8 8 8 7 9	5 2 4 1 5	3 3 2 1 2 4	5 5 6 7 6 5 ml.code.core	0.9036 0.9200 0.9216 0.9101 0.9140 0.8861	0.0361 0.0300 0.0196 0.0112 0.0215 0.0506	0.0602 0.0500 0.0588 0.0787 0.0645 0.0633
	0.0000 0 0.5444 0 0.5829 0 0.6806 0 0.6011 0 0.7412 0 0.5563 0	0.0000 0.5424 0.5787 0.6915 0.6034 0.7590 0.5541	0.0000 0.5000 0.3750 0.3750 0.3750 0.5882 0.5333	0 0.0 0 0.3 0 0.5 0 0.5 0 0.0 0 0.0 0 0.1 3 0.1	0000 3846 5311 3882 0373 1722	0.51 0.39 0.14 0.23 0.20 0.25	112 0.6 94 0.6 985 0.6 140 0.6 132 0.5 139 0.6 131 0.6	555 0 537 0 130 0 400 0 848 0 262 0 126 0	.6380 .6353 .5935 .6239 .5646 .5968	0.7333 0.7241 0.7143 0.7143 0.7143 0.7000 0.7600	0.0120 0.0127 0.0242 0.0203 0.0322 0.0104 0.0176	0.56 0.71 0.43 0.43 0.27 0.41	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3 50 0.3	403 154 060 426 908 216 314	0.4499 0.2625 0.4000 0.3001 0.2286 0.4309 0.5079	0.4 0.2 0.3 0.4 0.4 0.3 0.5	608 410 288 128 162 837 237	0.40 0.28 0.31 0.00 0.15 0.15	63 10 43 96 91 26 76	0.0196 0.0165 0.0170 0.0193 0.0173 0.0198 0.0228	5 75 95 95 95 8 8 8 8 8 8 6 8 8 6 8	5 2 4 1 5 0 7	3 3 2 1 2	5 5 6 7 6 5 6 6 5 6 6 5 6 6 6 6 6 6 6 6	0.9036 0.9200 0.9216 0.9101 0.9140 0.8861 0.9178	0.0361 0.0300 0.0196 0.0112 0.0215 0.0506 0.0000	0.0602 0.0500 0.0588 0.0787 0.0645 0.0633 0.0822
	0.0000 0 0.5444 0 0.5829 0 0.6806 0 0.6011 0 0.7412 0 0.5563 0 0.5157 0	0.0000 0.5424 0.5787 0.6915 0.6034 0.7590 0.5541 0.5490	0.0000 0.5000 0.3750 0.3750 0.5882 0.5333 0.1111	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0000 3846 5311 3882 0373 1722 1752	0.51 0.39 0.14 0.23 0.20 0.25 0.24	112 0.6 .94 0.6 .85 0.6 .440 0.6 .321 0.5 .339 0.6 .13 0.6 .64 0.5	Teques February Teques	.6380 .6353 .5935 .6239 .5646 .5968 .5944 .5604	0.7333 0.7241 0.7143 0.7143 0.7143 0.7000 0.7600 0.7273	0.0120 0.0127 0.0242 0.0203 0.0322 0.0104 0.0176 0.0115	0.56 0.71 0.43 0.43 0.27 0.41 0.35	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3 50 0.3 85 0.3 54 0.3	103 154 060 126 908 216 314	0.4499 0.2625 0.4000 0.3001 0.2286 0.4309 0.5079 0.6287	0.4 0.2 0.3 0.4 0.4 0.3 0.5 0.4	608 410 288 128 162 837 237 937	0.40 0.28 0.31 0.00 0.15 0.15 0.63	63 10 43 96 91 26 76 33	0.0196 0.0165 0.0176 0.0193 0.0173 0.0198 0.0228 0.0174	3 75 99 94 88 88 88 67 64 74	5 2 4 1 5 0 7	3 3 2 1 2 4 0 6	5 5 6 7 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.9036 0.9200 0.9216 0.9101 0.9140 0.8861 0.9178 0.8605	0.0361 0.0300 0.0196 0.0112 0.0215 0.0506 0.0000 0.0698	0.0602 0.0500 0.0588 0.0787 0.0645 0.0633 0.0822 0.0698
	0.0000 0 0.5444 0 0.5829 0 0.6806 0 0.6011 0 0.7412 0 0.5563 0 0.5157 0 0.6506 0	0.0000 0.5424 0.5787 0.6915 0.6034 0.7590 0.5541 0.5490 0.6456	0.0000 0.5000 0.3750 0.3750 0.3750 0.5882 0.5333 0.1111	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0000 3846 5311 3882 0373 1722 1752 1842	0.51 0.39 0.14 0.23 0.20 0.25 0.24	112 0.6 .94 0.6 .085 0.6 .40 0.6 .321 0.5 .339 0.6 .113 0.6 .644 0.5 .443 0.6	[a] 555 0 537 0 130 0 400 0 848 0 262 0 126 0 972 0 215 0	.6380 .6353 .5935 .6239 .5646 .5968 .5944 .5604	0.7333 0.7241 0.7143 0.7143 0.7143 0.7000 0.7600 0.7273 0.6765	0.0120 0.0127 0.0242 0.0203 0.0322 0.0104 0.0176 0.0115 0.0142	0.56 0.71 0.43 0.43 0.27 0.41 0.35 0.36	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3 50 0.3 85 0.3 54 0.3 30 0.3	103 154 060 126 908 216 314 064	0.4499 0.2625 0.4000 0.3001 0.2286 0.4309 0.5079 0.6287 0.3183	0.4 0.2 0.3 0.4 0.4 0.3 0.5 0.4	608 410 288 128 162 837 237 937 337	0.40 0.28 0.31 0.00 0.15 0.63 0.25	90 63 10 43 96 91 26 76 33 50	0.0196 0.0165 0.0170 0.0193 0.0173 0.0198 0.0228 0.0174	3 75 99 9 8 8 8 76 77 77 77 77 77 77 77 77 77 77 77 77	5 2 4 1 5 0 7 4	3 3 2 1 2 4 0 6 4	5 5 6 7 6 5 6 6 7 6 5 6 6 7	0.9036 0.9200 0.9216 0.9101 0.9140 0.8861 0.9178 0.8605 0.8659	0.0361 0.0300 0.0196 0.0112 0.0215 0.0506 0.0000 0.0698 0.0488	0.0602 0.0500 0.0588 0.0787 0.0645 0.0633 0.0822 0.0698 0.0854
; ; ; ; ; ; ; ; ; ; ; ;	0.0000 0 0.5444 0 0.5829 0 0.6806 0 0.6011 0 0.7412 0 0.5563 0 0.5157 0 0.6506 0 0.5488 0	0.0000 0.5424 0.5787 0.6915 0.6034 0.7590 0.5541 0.5490 0.6456 0.5732	0.0000 0.5000 0.3750 0.3750 0.3750 0.5882 0.5333 0.1111 0.6087 0.7000	0 0.0 0 0.5 0 0.5 0 0.5 0 0.6 0 0.0 0 0.1 0 0.1 7 0.1 0 0.1	0000 3846 5311 3882 0373 1722 1752 1842 1805 1159	0.51 0.39 0.14 0.23 0.20 0.25 0.24 0.22	112 0.6 .94 0.6 .95 0.6 .40 0.6 .321 0.5 .339 0.6 .113 0.6 .64 0.5 .43 0.6 .62 0.6	[Fed] 555 0 537 0 130 0 400 0 848 0 262 0 126 0 972 0 215 0 085 0	.6380 .6353 .5935 .6239 .5646 .5968 .5944 .5604 .6041	0.7333 0.7241 0.7143 0.7143 0.7143 0.7000 0.7600 0.7273 0.6765 0.7353	0.0120 0.0127 0.0242 0.0203 0.0322 0.0104 0.0176 0.0115 0.0142 0.0115	0.56 0.71 0.43 0.43 0.27 0.41 0.35 0.36	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3 50 0.3 85 0.3 54 0.3 30 0.3 47 0.4	103 154 060 126 908 216 314 064 972	0.4499 0.2625 0.4000 0.3001 0.2286 0.4309 0.5079 0.6287 0.3183 0.4857	0.4 0.2 0.3 0.4 0.4 0.3 0.5 0.4 0.4	608 410 288 128 162 837 237 937 337 894	0.40 0.28 0.31 0.00 0.15 0.63 0.25 0.08	90 63 10 43 96 91 26 76 33 50 30	0.0196 0.0165 0.0176 0.0193 0.0173 0.0198 0.0228 0.0174 0.0207 0.0173	3 76 99 98 88 87 77 77 78 78 78	5 2 4 1 5 0 7 4 1 5	3 3 2 1 2 4 0 6 4 5	5 5 6 7 6 5 6 6 7 4	0.9036 0.9200 0.9216 0.9101 0.9140 0.8861 0.9178 0.8605 0.8659 0.8929	0.0361 0.0300 0.0196 0.0112 0.0215 0.0506 0.0000 0.0698 0.0488 0.0595	0.0602 0.0500 0.0588 0.0787 0.0645 0.0633 0.0822 0.0698 0.0854 0.0476
	0.0000 (0.5444 (0.5829 (0.6806 (0.6011 (0.5563 (0.5157 (0.6506 (0.6506 (0.5488 (0.6627 (0.6506 (0.6627 (0.5563 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506 (0.6627 (0.6506	0.0000 0.5424 0.5787 0.6915 0.6034 0.7590 0.5541 0.5490 0.6456	0.0000 0.5000 0.3750 0.3750 0.3750 0.5882 0.5333 0.1111 0.6087	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0000 3846 5311 3882 0373 1722 1752 1842	0.51 0.39 0.14 0.23 0.20 0.25 0.24	112 0.6 .94 0.6 .985 0.6 .40 0.6 .321 0.5 .339 0.6 .13 0.6 .64 0.5 .43 0.6 .62 0.6 .338 0.6	Tequipment Teq	.6380 .6353 .5935 .6239 .5646 .5968 .5944 .5604	0.7333 0.7241 0.7143 0.7143 0.7143 0.7000 0.7600 0.7273 0.6765	0.0120 0.0127 0.0242 0.0203 0.0322 0.0104 0.0176 0.0115 0.0142	0.56 0.71 0.43 0.43 0.27 0.41 0.35 0.36	95 0.4 41 0.5 23 0.7 07 0.4 42 0.3 50 0.3 85 0.3 54 0.3 30 0.3 47 0.4 70 0.5	103 154 160 126 126 126 1314 164 172 1234 1742	0.4499 0.2625 0.4000 0.3001 0.2286 0.4309 0.5079 0.6287 0.3183	0.4 0.2 0.3 0.4 0.4 0.3 0.5 0.4 0.4 0.4 0.3	608 410 288 128 162 837 237 937 337	0.40 0.28 0.31 0.00 0.15 0.63 0.25	φου 63 10 43 96 91 26 76 33 50 37	0.0196 0.0165 0.0170 0.0193 0.0173 0.0198 0.0228 0.0174	\$\frac{1}{6} \frac{1}{6} \frac	5 2 4 1 5 0 7 4 1 5 4	3 3 2 1 2 4 0 6 4	5 5 6 7 6 5 6 6 7 4 6	0.9036 0.9200 0.9216 0.9101 0.9140 0.8861 0.9178 0.8605 0.8659	0.0361 0.0300 0.0196 0.0112 0.0215 0.0506 0.0000 0.0698 0.0488	0.0602 0.0500 0.0588 0.0787 0.0645 0.0633 0.0822 0.0698 0.0854

Community smells: Pearson's correlation (Gstreamer)

							·							`			,							
	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	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	-0.16	-0.23	0.36	0.30	-0.37	0.35	0.23	0.00	0.03	0.39	0.32	-	0.09	-0.02	0.53	-	-0.65	-0.36	-0.49	0.93	-0.46	-0.57	-0.21	-0
prima.donnas	0.65	0.64	-0.10	-0.19	0.40	-0.29	-0.42	-0.02	-0.17	-0.20	-0.18	-	0.43	0.47	-0.18	-0.65	-	0.71	0.67	-0.65	0.49	0.55	-0.31	0
radio.silence	0.76	0.75	-0.17	-0.16	0.51	-0.40	-0.49	0.02	-0.18	0.12	0.19	-	0.57	0.61	-0.21	-0.36	0.71	-	0.84	-0.39	0.18	0.26	-0.40	0
black.cloud	0.79	0.80	-0.27	-0.16	0.58	-0.48	-0.50	-0.14	-0.31	-0.29	-0.25	-	0.71	0.78	-0.31	-0.49	0.67	0.84	-	-0.48	0.38	0.19	-0.18	0
missing.links	-0.24	0.20	0.19	0.50	-0.35	0.23	0.42	-0.07	-0.02	0.27	0.21		-0.03	-0.10	0.52	0.93	-0.65	-0.39	-0.48		-0.26	-0.65	-0.06	0
	-0.24	-0.29	0.19	0.50	-0.55	0.20	0.42	-0.07	-0.02	0.21	0.21		-0.03	-0.10	0.02	0.95	-0.05	-0.59	-0.40		-0.20	-0.00	-0.00	-0
		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	-0.00	-0
OI	g.silo	01.0 core.global.turnover	91.0 core.mail.turnover	-0.26	ratio.smelly.quitters	ratio.smelly.devs	-0.42	-0.37 mail.truck	-0.42	closeness.centr	8 betweenness.centr	0.13	0.15	0.33 mail.mod	pow-opoo 0.15	-0.28 density	60.0 mail.only.core.devs	code.only.core.devs	ml.code.core.devs	-0- ratio.mail.only.core	28.0 ratio.code.only.core	11:0 ratio.ml.code.core	-0.00	-0
oi prima.d	rg.silo onnas	0.10 core.global.turnover	0.16 core.mail.turnover	-0.26 0.07	2.0-2 0.33 ratio.smelly.quitters	sc.0- ratio.smelly.devs	-0.42 8lobal.truck	-0.37 mail:truck	-0.42 0.11	closeness.centr 0.23 -0.17	0.08 petweenness centr.	0.13 0.16	pom:leqol8 0.15 -0.41	0.33 -0.71	pow-epos 0.15 0.18	frag. 28 -0.30	0.50 mail.only.core.devs	0.06 code.only.core.devs	0.24 -0.24	-0.44 -0.34	0.12 ratio.code.only.core	0.11 0.39 ratio.ml.code.core		-0
or prima.de radio.s	rg.silo onnas ilence	0.10 -0.29 -0.34	0.16 core.mail.turnover	-0.26 0.07 -0.03	27.0-27.0-27.0-27.0-27.0-27.0-27.0-27.0-	20.58 -0.24 -0.28 -0.97	-0.42 -0.50 -0.54	-0.37 mail:trnck	-0.42 0.11 0.08	0.23 -0.17 -0.09	0.08 0.25 0.65	0.13 0.16 0.59	0.15 -0.41 -0.19	0.33 -0.71 -0.70	0.15 0.18 0.30	-0.28 -0.30 -0.40	-0.40 -0.50 0.64	0.37 -0.06 -0.06	0.24 -0.24 -0.28	-0.44 0.43 0.43	0.37 -0.12 -0.14	0.11 -0.39 -0.50		-0
oi prima.d	rg.silo onnas ilence cloud	0.10 core.global.turnover	0.16 core.mail.turnover	-0.26 0.07	2.0-2 0.33 ratio.smelly.quitters	sc.0- ratio.smelly.devs	-0.42 8lobal.truck	-0.37 mail:truck	-0.42 0.11	closeness.centr 0.23 -0.17	0.08 0.25 0.65 0.64	0.13 0.16	pom:leqol8 0.15 -0.41	0.33 -0.71	pow-epos 0.15 0.18	frag. 28 -0.30	0.50 mail.only.core.devs	0.06 code.only.core.devs	0.24 -0.24	-0.44 -0.34	0.12 ratio.code.only.core	0.11 0.39 ratio.ml.code.core		-0

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

				•	JO1111	mun.	ity S.		· I	arsc	11 5	COLL	CIG	101011	\mathbf{P}_{-}	vaic	ics (Cist	i cai	,	,				
		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 cilence	black cloud	missing links	st.congruence	communicability	global.turnover	code.turnover
org	.silo	0.62	0.48	0.25	0.34	0.23	0.26	0.47	0.99	0.93	0.22	0.31	_	0.79	0.96	0.08	-	0.02	0.25	0.12	2 0.00	0.13	0.05	0.53	0.30
prima.dor		0.02	0.03	0.75	0.55	0.20	0.37	0.17	0.96	0.60	0.54	0.57	-	0.16	0.12	0.57	0.02	-	0.01	0.02	0.02	0.11	0.07	0.35	0.67
radio.sile	ence	0.00	0.00	0.59	0.62	0.09	0.20	0.11	0.94	0.58	0.71	0.56	-	0.05	0.04	0.51	0.25	0.01		0.00	0.21	0.57	0.41	0.22	0.73
black.cl	loud	0.00	0.00	0.42	0.65	0.06	0.14	0.12	0.69	0.36	0.39	0.46	-	0.01	0.00	0.36	0.12	0.02	0.00	-	- 0.14	0.25	0.58	0.60	0.57
missing.li	inks	0.45	0.36	0.56	0.10	0.26	0.47	0.17	0.82	0.96	0.39	0.51	-	0.93	0.77	0.08	0.00	0.02	0.21	0.14	1 .	- 0.41	0.02	0.87	0.73
			oon alobal tumomo	COI C. BIODAL. CUI IIOVEI	core.mail.turnover	core.code.turnover	ratio smelly devs	global.truck	mail tmick	monto tenolo	occession and a	Closeffess.Ceffel	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.silc	0.7	7 0.6	3 0.4	4 0.4	3 0.46	0.18	0.24	0.17	0.47	7 0.8	0 (0.68	0.65	0.29	0.64	0.37	0.90	0.23	0.45	0.15	0.23	0.73	
p		donnas							0.12	0.72	0.60			0.61		0.01	0.57	0.34	0.10	0.86	0.46	0.28	0.71	0.21	
		.silence														0.01	0.34	0.20	0.03	0.85	0.38	0.16	0.66	0.09	
		k.cloud														0.00	0.75	0.26	0.00	0.51	0.72	0.08	0.38	0.17	
	missir	ng.links	0.4	4 - 0.3	9 - 0.43	3 - 0.3	4 - 0.43	0.21	0.27	0.06	0.35	0.9	0 (0.72	0.91	0.35	0.84	0.89	0.65	0.43	0.12	0.11	0.39	0.23	

Community smells: Spearman's correlation (Gstreamer)

									· · · · I						(
	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	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	0.05	-0.03	0.29	0.26	-0.34	0.41	0.28	0.19	0.13	0.47	0.45	-	0.16	0.19	0.46	-	-0.49	-0.06	-0.53	0.86	-0.47	-0.46	-0.19	-
prima.donnas	0.48	0.48	-0.04	-0.27	0.48	-0.31	-0.48	0.00	-0.31	-0.23	-0.31	-	0.39	0.40	-0.23	-0.49	-	0.48	0.67	-0.48	0.39	0.48	-0.30	
radio.silence	0.49	0.47	-0.20	0.10	0.47	-0.45	-0.20	-0.04	-0.30	0.20	0.28	-	0.40	0.50	-0.28	-0.06	0.48	-	0.67	-0.15	0.05	0.06	-0.27	
black.cloud	0.67	0.67	-0.30	-0.15	0.67	-0.60	-0.49	-0.26	-0.52	-0.31	-0.34	-	0.67	0.67	-0.38	-0.53	0.67	0.67	-	-0.45	0.37	0.07	-0.22	
missing.links	0.06	0.01	0.06	0.47	-0.29	0.26	0.39	-0.04	-0.04	0.28	0.27	-	-0.01	0.08	0.42	0.86	-0.48	-0.15	-0.45	-	-0.10	-0.63	-0.08	
		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	coue.moa densitv	mail.onlv.core.devs	only	m ondo obos data	mi.code.core.devs ratio.mail.only.core	ratio.code.onlv.core	-	ratio.mi.code.core	
Ol	rg.silo	0.27	0.41	-0.22	-0.32	-0.11	-0.37	-0.29	-0.43	0.20	0.20	0.18												
prima.de		-0.40	-0.50	0.00	0.30	0.48	0.39	0.39	0.13	-0.04	0.22	0.22						-0.09						
radio.s	ilence	-0.31	-0.43	-0.29	0.33	0.99	0.29	0.30	0.08	0.20	0.66	0.52			2 - 0.35							-0.3)	
black.		-0.30	-0.45	-0.23	0.60	0.67	0.37	0.30	0.15	0.22	0.52	0.52	-0.37								-0.30	-		
missing	links:	0.46	0.54	-0.23	-0.27	-0.21	-0.21	-0.16	-0.55	0.34	0.05	0.17	-0.11	0.0	3 - 0.14	4 - 0.15	6 -0.02	0.16	0.56	6 - 0.46	0.16	0.4	9	

			\mathbf{C}	omm	unit	y sn	nells:	Spe	earm	an's	corr	ela	tio	n - p	o-val	lues	(Gs	strea	mer	•)				
	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	$_{ m num.tz}$	core.global.devs	core.mail.devs	core.code.devs		prima.donnas	7	ratio.shence	black.cloud	missing miks		global.turnover	code. turn over
org.silo	0.87	0.94	0.37	0.42	0.28	0.19	0.37	0.56	0.69	0.12	0.14		0.62	0.56	0.13		0.10				-			0.36
prima.donnas	0.11	0.11	0.89	0.40	0.11	0.33	0.11	1.00	0.33	0.47	0.33		0.20	0.20	0.48			0.1					0.37	0.56
radio.silence	0.10	0.13	0.52	0.75	0.13	0.14	0.53	0.90	0.34	0.53	0.38		0.20	0.09	0.37	0.84	-		- 0.03					0.78
black.cloud	0.02	0.02	0.37	0.65	0.02	0.05	0.13	0.44	0.10	0.35	0.31		0.02	0.02	0.24	0.09				- 0.1				0.51
missing.links	0.86	0.97	0.85	0.12	0.36	0.42	0.21	0.90	0.90	0.38	0.40	-	0.99	0.80	0.17	0.00	0.11	0.6	$\frac{5}{0.1}$	7	- 0.7	5 0.03	0.82	0.97
				core.man.turnover	ratio sme		ratio.smeny.devs global.truck			close			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.sil							0.37	0.16			0.			0.86	0.48	0.59	0.72	0.27	0.43	0.13	0.29	0.54	
prima	ı.donna	s = 0.2	2 - 0.1	2 1.00	0.37	7 0.1	1 0.21	0.21	0.68	0.89	0.50	0.	50 (0.21	0.11	0.50	0.21	0.20	0.78	0.38	0.21	0.68	0.21	

radio.silence 0.36

black.cloud 0.37

missing.links 0.16

 $0.19 \quad 0.38$

 $0.17 \quad 0.50$

0.49

0.09

0.33

0.05

0.00

0.02

 $0.42 \quad 0.52 \quad 0.50$

0.36

0.26

0.34

0.37

0.62

0.79

0.66

 $0.06 \quad 0.28$

0.53

0.51

0.02

0.10

0.87

0.09

0.99

 $0.10 \quad 0.26$

 $0.59 \quad 0.74$

 $0.18 \quad 0.27 \quad 0.23$

0.67

 $0.66 \quad 0.10$

0.64

0.02

0.93

 $0.15 \quad 0.64$

 $0.02 \quad 0.43$

 $0.94 \quad 0.61$

0.54

0.64

0.06

 $0.16 \quad 0.48$

 $0.02 \quad 0.37$

 $0.14 \quad 0.62 \quad 0.10$

0.34

0.17