

Socio-technical analysis result (Audacity)

	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	34	28	5	1	0.8235	0.1471	0.0294	0	0.0000	0	0	2	15	14	2	4	0	21	0	4	0.0000	0.3750	0.0000	0.0000
2	2013-08 – 2013-11	43	33	9	1	0.7674	0.2093	0.0233	0	0.0000	0	0	3	22	17	5	22	0	15	0	22	0.0000	0.2318	0.2597	0.0000
3	2013-11 – 2014-02	48	39	8	1	0.8125	0.1667	0.0208	0	0.0000	0	0	2	19	18	2	5	0	20	0	5	0.0000	0.5333	0.2198	0.1053
4	2014-02 – 2014-05	34	28	5	1	0.8235	0.1471	0.0294	1	0.0294	0	0	3	14	14	0	0	0	2	0	0	1.0000	1.0000	0.6829	0.5333
5	2014-05 – 2014-08	56	46	9	1	0.8214	0.1607	0.0179	1	0.0179	0	0	2	21	20	4	6	0	15	0	6	0.0000	0.6000	0.2444	0.1250
6	2014-08 – 2014-11	54	43	10	1	0.7963	0.1852	0.0185	1	0.0185	0	0	3	22	20	4	16	0	10	0	16	0.0000	0.3750	0.5273	0.0952
7	2014-11 – 2015-02	41	33	8	0	0.8049	0.1951	0.0000	0	0.0000	0	0	2	18	16	4	11	0	8	0	11	0.0000	0.3182	0.4842	0.4211
8	2015-02 – 2015-05	59	39	10	10	0.6610	0.1695	0.1695	1	0.0169	0	0	15	25	23	7	9	0	10	0	28	0.2632	0.6987	0.2400	0.1429
9	2015-05 – 2015-08	36	26	4	6	0.7222	0.1111	0.1667	0	0.0000	0	0	13	16	15	6	16	0	17	0	16	0.3333	0.5417	0.6526	0.8000
10	2015-08 – 2015-10	39	30	2	7	0.7692	0.0513	0.1795	1	0.0256	0	0	14	16	16	4	2	0	28	0	3	0.7692	0.8632	0.3733	0.3158
11	2015-10 – 2016-02	39	26	8	5	0.6667	0.2051	0.1282	2	0.0513	0	0	16	15	15	3	3	0	14	0	5	0.2857	0.8132	0.4615	0.1818
12	2016-02 – 2016-05	41	27	7	7	0.6585	0.1707	0.1707	2	0.0488	0	0	15	17	17	5	3	0	13	0	3	0.8125	0.9107	0.4750	0.4444

	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	0.7353	0.5588	0.5172	0.6667	0.1208	0.2118	0.4528	0.3306	0.1063	-0.3547	0.2139	14	2	0	0.8750	0.1250	0.0000
2	0.2162	0.3226	0.0000	0.9000	0.5349	0.4884	0.5000	0.5000	0.0378	0.0852	0.4241	0.4687	0.0038	-0.3191	0.2425	17	5	0	0.7727	0.2273	0.0000
3	0.3415	0.2286	0.8571	0.7000	0.5000	0.6042	0.5500	0.7778	0.0633	0.1807	0.3803	0.3598	0.0981	0.0759	0.1516	18	2	0	0.9000	0.1000	0.0000
4	0.5455	0.5000	2.0000	0.4286	0.0588	0.5882	0.5172	1.0000	0.0514	0.1608	0.2834	0.1952	0.1952	0.0000	0.1105	14	0	0	1.0000	0.0000	0.0000
5	0.3429	0.3529	0.0000	0.0000	0.3929	0.6250	0.5745	0.6000	0.0368	0.3127	0.5948	0.4228	0.2191	0.4380	0.1325	20	4	0	0.8333	0.1667	0.0000
6	0.3256	0.3000	0.5000	0.3793	0.3333	0.5926	0.5455	0.6364	0.0318	0.0909	0.4319	0.4879	0.0008	0.0009	0.2096	20	4	0	0.8333	0.1667	0.0000
7	0.3500	0.3889	0.2500	0.4348	0.3415	0.5610	0.5152	0.5000	0.0423	0.1080	0.4366	0.1672	0.1570	-0.3708	0.2134	16	4	0	0.8000	0.2000	0.0000
8	0.2791	0.2051	0.7273	0.3333	0.2712	0.5763	0.5306	0.6500	0.0362	0.1481	0.5088	0.1535	0.1728	-0.1885	0.1636	19	3	4	0.7308	0.1154	0.1538
9	0.6341	0.6316	0.3077	0.2581	0.6389	0.5556	0.5312	0.4000	0.1160	0.1443	0.4270	0.0137	0.1427	-0.2860	0.2302	11	2	4	0.6471	0.1176	0.2353
10	0.3125	0.2581	0.6000	0.5000	0.7692	0.5897	0.5676	0.5556	0.2121	0.2430	0.4717	0.0026	0.0226	-0.3356	0.1862	12	0	4	0.7500	0.0000	0.2500
11	0.4516	0.4516	0.5714	0.8889	0.4103	0.6154	0.5161	0.7692	0.0499	0.1985	0.4710	0.0496	0.1021	0.0658	0.1606	13	1	2	0.8125	0.0625	0.1250
12	0.1875	0.1875	0.2500	0.3684	0.3659	0.5854	0.5000	0.6429	0.0600	0.1883	0.5274	0.0047	0.1017	-0.2910	0.1976	12	0	5	0.7059	0.0000	0.2941

Community smells: Pearson’s correlation (Audacity)

	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	0.25	0.25	0.40	-0.17	0.00	0.34	-0.20	-0.49	-0.55	-	-	-0.21	0.56	0.26	0.56	-	-	-0.09	-	0.78	-0.55	-0.76	-0.07	-0.16
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	-0.13	-0.09	-0.47	0.20	0.03	-0.57	0.31	-0.19	-0.18	-	-	0.20	-0.15	-0.13	0.12	-0.09	-	-	-	-0.18	-0.13	-0.09	-0.43	-0.13
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.53	0.33	0.52	0.28	-0.32	0.31	0.11	-0.28	-0.39	-	-	0.11	0.79	0.61	0.75	0.78	-	-0.18	-	-	-0.43	-0.49	-0.29	-0.26
	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	-0.10	0.15	-0.54	0.11	0.13	-0.69	-0.18	-0.66	-0.29	-0.68	-0.01	0.42	-0.39	-0.24	0.71	0.32	0.78	-0.16	-0.42	0.79	-0.19			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.18	-0.25	-0.40	0.16	0.93	-0.00	0.43	-0.39	0.77	0.45	0.31	-0.11	-0.43	-0.19	0.28	-0.27	-0.17	0.25	-0.32	-0.11	0.33			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.20	-0.09	-0.36	0.02	-0.06	-0.52	-0.14	-0.49	-0.34	-0.58	0.15	0.23	-0.15	-0.23	0.44	0.44	0.67	0.12	-0.49	0.61	-0.01			

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

	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	0.43	0.44	0.20	0.60	1.00	0.28	0.53	0.11	0.06	-	-	0.52	0.06	0.41	0.06	-	-	0.77	-	0.00	0.06	0.00	0.83	0.64
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.68	0.78	0.12	0.53	0.92	0.05	0.33	0.55	0.57	-	-	0.54	0.64	0.69	0.71	0.77	-	-	-	0.57	0.69	0.77	0.19	0.70
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.08	0.29	0.08	0.39	0.30	0.33	0.74	0.38	0.20	-	-	0.73	0.00	0.04	0.00	0.00	-	0.57	-	-	0.16	0.10	0.39	0.43
	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.cent	betweenness.cent	degree.cent	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	0.77	0.66	0.09	0.74	0.70	0.01	0.57	0.02	0.35	0.02	0.98	0.17	0.21	0.45	0.01	0.31	0.00	0.62	0.17	0.00	0.56			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.59	0.46	0.22	0.64	0.00	1.00	0.16	0.21	0.00	0.14	0.32	0.72	0.16	0.55	0.37	0.40	0.60	0.42	0.32	0.73	0.30			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	0.56	0.79	0.28	0.96	0.86	0.08	0.67	0.10	0.28	0.05	0.64	0.48	0.64	0.48	0.15	0.16	0.02	0.70	0.11	0.03	0.96			

Community smells: Spearman’s correlation (Audacity)

	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	0.48	0.38	0.55	-0.26	-0.17	0.41	-0.45	-0.54	-0.65	-	-	-0.24	0.70	0.44	0.57	-	-	-0.06	-	0.91	-0.63	-0.81	-0.04	-0.43
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	-0.18	-0.11	-0.43	0.20	0.08	-0.46	0.27	-0.32	-0.31	-	-	-0.13	-0.14	-0.13	-0.05	-0.06	-	-	-	-0.14	-0.16	-0.14	-0.47	-0.19
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.61	0.41	0.68	-0.02	-0.34	0.44	-0.28	-0.34	-0.51	-	-	0.00	0.77	0.56	0.66	0.91	-	-0.14	-	-	-0.54	-0.63	-0.24	-0.46
	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.cent	betweenness.cent	degree.cent	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	-0.11	0.09	-0.56	-0.09	0.01	-0.44	-0.07	-0.64	-0.51	-0.71	-0.18	0.49	-0.20	-0.07	0.64	0.41	0.87	-0.24	-0.30	0.85	-0.28			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.11	-0.15	-0.10	0.16	0.94	-0.02	0.41	-0.17	0.66	0.48	0.11	-0.14	-0.34	-0.10	0.23	-0.28	-0.14	0.13	-0.09	-0.06	0.19			
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
missing.links	-0.17	-0.03	-0.36	-0.16	-0.12	-0.32	-0.01	-0.50	-0.63	-0.63	-0.02	0.37	-0.07	0.05	0.45	0.48	0.82	-0.07	-0.37	0.72	-0.15			

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

	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	0.12	0.23	0.06	0.41	0.59	0.18	0.14	0.07	0.02	-	-	0.45	0.01	0.16	0.05	-	-	0.85	-	0.00	0.03	0.00	0.92	0.19
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.57	0.73	0.16	0.53	0.79	0.13	0.39	0.31	0.33	-	-	0.70	0.66	0.69	0.87	0.85	-	-	-	0.67	0.62	0.67	0.14	0.57
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.03	0.19	0.01	0.96	0.28	0.16	0.38	0.28	0.09	-	-	1.00	0.00	0.06	0.02	0.00	-	0.67	-	-	0.07	0.03	0.48	0.16

	core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.cent	betweenness.cent	degree.cent	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	0.75	0.79	0.07	0.80	0.97	0.16	0.84	0.02	0.09	0.01	0.57	0.10	0.53	0.83	0.03	0.18	0.00	0.46	0.35	0.00	0.38
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.74	0.67	0.78	0.63	0.00	0.96	0.19	0.60	0.02	0.11	0.74	0.66	0.28	0.76	0.48	0.37	0.67	0.70	0.79	0.85	0.55
black.cloud	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
missing.links	0.61	0.93	0.28	0.65	0.72	0.31	0.98	0.10	0.03	0.03	0.96	0.24	0.84	0.88	0.15	0.12	0.00	0.83	0.24	0.01	0.65