

Socio-technical analysis result ( Jena )

			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	2013-06 – 2013-09			25	20	0	5	0.8000	0.0000	0.2000	0	0.0000	0	0.0000	0	0.0000	1	12	12	2	0	0	11	0	0	1.0000	1.0000	0.0000	0.0000	
2	2013-09 – 2013-12			26	20	0	6	0.7692	0.0000	0.2308	1	0.0385	1	0.1667	1	0.1667	1	11	11	3	0	0	9	1	0	1.0000	1.0000	0.5490	0.0000	
3	2013-12 – 2014-02			14	10	0	4	0.7143	0.0000	0.2857	1	0.0714	0	0.0000	1	0.0000	1	8	8	1	0	0	0	0	0	1.0000	1.0000	0.8000	0.4000	
4	2014-02 – 2014-06			30	24	0	6	0.8000	0.0000	0.2000	1	0.0333	0	0.0000	1	0.0000	1	12	12	3	0	0	16	0	1	0.8333	0.9167	0.2727	0.2000	
5	2014-06 – 2014-08			21	17	0	4	0.8095	0.0000	0.1905	0	0.0000	0	0.0000	1	0.0000	1	11	11	2	0	0	0	0	0	1.0000	1.0000	0.8235	0.6000	
6	2014-08 – 2014-11			22	16	1	5	0.7273	0.0455	0.2273	2	0.0909	0	0.0000	1	0.0000	1	11	11	2	0	0	7	0	0	1.0000	1.0000	0.6047	0.4000	
7	2014-11 – 2015-02			23	14	3	6	0.6087	0.1304	0.2609	1	0.0435	0	0.0000	1	0.0000	1	9	9	3	2	0	9	2	2	0.6000	0.8222	0.2667	0.1333	
8	2015-02 – 2015-05			27	16	1	10	0.5926	0.0370	0.3704	4	0.1481	0	0.0000	1	0.0000	1	11	11	3	2	0	0	0	5	0.3750	0.6818	0.4000	0.3000	
9	2015-05 – 2015-08			20	11	1	8	0.5500	0.0500	0.4000	3	0.1500	0	0.0000	1	0.0000	1	11	10	4	2	0	4	0	5	0.4444	0.6543	0.3830	0.3000	
10	2015-08 – 2015-11			20	12	4	4	0.6000	0.2000	0.2000	1	0.0500	0	0.0000	1	0.0000	1	9	9	2	1	0	0	0	1	0.5000	0.8125	0.4500	0.3529	
11	2015-11 – 2016-02			17	8	3	6	0.4706	0.1765	0.3529	3	0.1765	0	0.0000	1	0.0000	1	8	8	3	0	0	0	0	1	0.7500	0.8611	0.4865	0.2353	
12	2016-02 – 2016-05			20	11	3	6	0.5500	0.1500	0.3000	3	0.1500	0	0.0000	1	0.0000	1	9	9	4	2	0	2	0	4	0.0000	0.6111	0.3243	0.5556	
			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	0.4400	0.5200	0.5200	0.6000	0.6262	0.5328	0.5200	0.0406	0.3410	-0.4838	0.1467	10	0	2	0.8333	0.0000	0.1667							
2	0.2609			0.2609	0.0000	0.5000	0.3462	0.5769	0.5769	0.5000	0.0896	0.4386	0.5569	0.0641	0.2220	-0.4077	0.1631	8	0	3	0.7273	0.0000	0.2727							
3	0.6316			0.6316	1.0000	0.3750	0.0000	0.4286	0.4286	0.7500	0.1880	0.5986	0.5824	0.0280	0.1753	-0.5000	0.1868	7	0	1	0.8750	0.0000	0.1250							
4	0.2000			0.2000	0.0000	0.0000	0.5333	0.6000	0.6000	0.5000	0.7742	0.7303	0.7011	0.0269	0.1027	0.0061	0.1609	9	0	3	0.7500	0.0000	0.2500							
5	0.4348			0.4348	0.4000	0.4762	0.0000	0.4762	0.4762	0.5000	0.7751	0.5717	0.6857	0.1508	0.3040	-0.4817	0.2143	9	0	2	0.8182	0.0000	0.1818							
6	0.4545			0.4545	0.0000	0.0000	0.3182	0.5000	0.4762	0.6667	0.0884	0.2015	0.4459	0.0107	0.2135	-0.4713	0.2208	9	0	2	0.8182	0.0000	0.1818							
7	0.5000			0.5000	0.4000	0.1667	0.5217	0.6087	0.5500	0.6667	0.2949	0.5963	0.6522	0.1442	0.1186	0.1746	0.1660	7	1	2	0.7000	0.1000	0.2000							
8	0.3000			0.3000	0.6667	0.4000	0.1481	0.5926	0.5769	0.7273	0.6707	0.6445	0.6368	0.0005	0.3402	-0.3419	0.1709	10	2	1	0.7692	0.1538	0.0769							
9	0.2727			0.2857	0.5714	0.1111	0.4000	0.4500	0.4737	0.5556	0.7637	0.6170	0.6368	0.3329	0.4864	0.1407	0.2579	7	1	3	0.6364	0.0909	0.2727							
10	0.5000			0.4211	0.6667	0.3333	0.1000	0.5500	0.4375	0.7500	0.1237	0.4751	0.5579	0.0242	0.1774	-0.4623	0.1789	8	1	1	0.8000	0.1000	0.1000							
11	0.3529			0.3529	0.4000	0.1111	0.1176	0.5294	0.4286	0.6667	0.1233	0.4311	0.3934	0.2588	0.2554	-0.3611	0.1691	5	0	3	0.6250	0.0000	0.3750							
12	0.3529			0.4706	0.2857	0.0000	0.3500	0.5500	0.4706	0.5556	0.3066	0.7596	0.6421	0.4228	0.3877	0.0593	0.1474	6	1	3	0.6000	0.1000	0.3000							

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

	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	0.03	-0.36	0.50	0.62	-0.64	0.42	0.57	0.58	0.48	-0.24	-0.24	-	-0.16	-0.24	0.64	-	-	-0.23	0.24	0.89	-0.87	-0.90	-0.63	0.05
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.71	0.77	-0.37	-0.00	0.53	-0.40	-0.44	-0.39	-0.48	0.24	0.24	-	0.61	0.63	0.14	-0.23	-	-	0.41	-0.25	0.33	0.32	-0.47	-0.57
black.cloud	0.22	0.15	0.17	0.02	0.03	0.09	-0.15	-0.30	-0.35	0.37	0.37	-	-0.11	-0.08	0.14	0.24	-	0.41	-	-0.09	0.07	0.10	-0.31	-0.60
missing.links	0.09	-0.31	0.30	0.82	-0.65	0.25	0.77	0.79	0.69	-0.25	-0.25	-	-0.01	-0.11	0.74	0.89	-	-0.25	-0.09	-	-0.85	-0.95	-0.60	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	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	0.00	0.29	-0.17	0.24	0.26	0.11	0.18	0.19	0.48	0.43	0.46	0.41	0.68	0.07	-0.20	0.91	-0.06	-0.53	0.94	-0.08			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.46	-0.46	-0.72	-0.39	0.86	0.43	0.69	-0.49	0.21	0.04	0.16	-0.27	-0.35	0.32	-0.26	0.35	-0.35	0.43	0.04	-0.33	0.18			
black.cloud	0.12	0.10	-0.19	0.13	0.49	0.49	0.43	-0.05	-0.24	-0.02	0.15	-0.05	-0.40	0.37	-0.28	-0.12	0.08	0.08	-0.15	0.13	0.06			
missing.links	-0.40	-0.26	0.25	-0.24	0.18	0.16	0.13	0.05	0.37	0.53	0.39	0.51	0.61	0.63	0.16	-0.16	0.85	0.10	-0.60	0.84	0.06			

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

	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	0.93	0.25	0.10	0.03	0.03	0.17	0.05	0.05	0.11	0.44	0.44	-	0.62	0.44	0.03	-	-	0.47	0.47	0.00	0.00	0.00	0.04	0.88
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.01	0.00	0.24	0.99	0.07	0.20	0.15	0.21	0.12	0.45	0.45	-	0.04	0.03	0.67	0.47	-	-	0.21	0.43	0.30	0.31	0.15	0.07
black.cloud	0.51	0.66	0.62	0.95	0.92	0.79	0.66	0.36	0.30	0.26	0.26	-	0.75	0.81	0.68	0.47	-	0.21	-	0.79	0.83	0.78	0.36	0.05
missing.links	0.79	0.32	0.35	0.00	0.02	0.43	0.00	0.00	0.01	0.43	0.43	-	0.99	0.72	0.01	0.00	-	0.43	0.79	-	0.00	0.00	0.05	0.82
		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	0.76	0.99	0.38	0.61	0.46	0.41	0.75	0.58	0.56	0.12	0.16	0.13	0.19	0.02	0.82	0.54	0.00	0.86	0.08	0.00	0.80			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	0.15	0.15	0.01	0.23	0.00	0.16	0.01	0.11	0.51	0.90	0.63	0.40	0.26	0.31	0.41	0.27	0.27	0.17	0.90	0.29	0.57			
black.cloud	0.73	0.76	0.57	0.71	0.12	0.13	0.19	0.89	0.48	0.95	0.67	0.88	0.23	0.26	0.40	0.72	0.81	0.81	0.66	0.69	0.86			
missing.links	0.22	0.43	0.45	0.48	0.58	0.62	0.68	0.87	0.23	0.08	0.22	0.09	0.04	0.03	0.61	0.62	0.00	0.75	0.04	0.00	0.86			

Community smells: Spearman’s correlation ( Jena )

		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	-0.03	-0.33	0.62	0.56	-0.62	0.56	0.57	0.55	0.45	-0.25	-0.25	-	-	-0.19	-0.27	0.61	-	-	-0.14	0.13	0.88	-0.89	-0.89	-0.67	-0.03
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.64	0.64	-0.34	0.22	0.44	-0.35	-0.27	-0.31	-0.45	0.27	0.27	-	-	0.64	0.61	0.22	-0.14	-	-	0.55	-0.13	0.24	0.21	-0.51	-0.58
black.cloud	0.37	0.27	0.01	0.16	0.20	-0.08	-0.07	-0.31	-0.36	0.59	0.59	-	-	-0.03	0.01	0.16	0.13	-	0.55	-	-0.08	0.16	0.16	-0.27	-0.66
missing.links	0.02	-0.35	0.59	0.75	-0.72	0.56	0.67	0.72	0.59	-0.32	-0.32	-	-	-0.13	-0.22	0.77	0.88	-	-0.13	-0.08	-	-0.95	-0.95	-0.77	-0.17
		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	0.00	0.12	0.35	-0.12	0.25	0.32	0.02	0.22	0.23	0.54	0.37	0.20	0.33	0.73	0.05	-0.24	0.97	-0.07	-0.52	0.94	-0.01				
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.45	-0.32	-0.74	-0.36	0.89	0.39	0.66	-0.52	0.06	0.06	0.12	-0.01	-0.19	0.25	-0.51	0.26	-0.25	0.46	-0.07	-0.26	0.27				
black.cloud	0.01	0.05	-0.28	0.34	0.39	0.54	0.40	-0.19	-0.27	-0.20	0.04	0.08	-0.32	0.34	-0.36	-0.13	0.04	0.13	-0.23	0.08	0.17				
missing.links	-0.29	-0.18	0.28	-0.28	0.32	0.38	0.05	0.12	0.33	0.60	0.36	0.21	0.31	0.84	0.00	-0.28	0.86	0.16	-0.68	0.82	0.17				

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

	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	0.93	0.29	0.03	0.06	0.03	0.06	0.06	0.07	0.14	0.44	0.44	-	0.55	0.40	0.03	-	-	0.66	0.71	0.00	0.00	0.00	0.02	0.94																			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
radio.silence	0.03	0.02	0.28	0.48	0.15	0.26	0.39	0.32	0.14	0.39	0.39	-	0.02	0.03	0.49	0.66	-	-	0.08	0.69	0.44	0.50	0.11	0.06																			
black.cloud	0.27	0.42	0.98	0.64	0.55	0.82	0.84	0.35	0.27	0.05	0.05	-	0.93	0.98	0.64	0.71	-	0.08	-	0.82	0.64	0.64	0.42	0.03																			
missing.links	0.95	0.27	0.05	0.00	0.01	0.06	0.02	0.01	0.04	0.31	0.31	-	0.69	0.48	0.00	0.00	-	0.69	0.82	-	0.00	0.00	0.01	0.62																			
		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	0.99	0.72	0.30	0.73	0.43	0.31	0.96	0.50	0.47	0.07	0.24	0.53	0.29	0.01	0.88	0.46	0.00	0.83	0.08	0.00	0.97																						
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																				
radio.silence	0.17	0.34	0.01	0.27	0.00	0.22	0.02	0.08	0.86	0.86	0.70	0.97	0.56	0.43	0.09	0.41	0.42	0.13	0.82	0.41	0.40																						
black.cloud	0.97	0.87	0.41	0.30	0.23	0.09	0.22	0.57	0.42	0.55	0.91	0.81	0.33	0.31	0.27	0.70	0.91	0.70	0.50	0.81	0.62																						
missing.links	0.38	0.59	0.40	0.40	0.31	0.23	0.88	0.72	0.29	0.04	0.25	0.51	0.32	0.00	0.99	0.38	0.00	0.63	0.01	0.00	0.60																						