

# Socio-technical analysis result ( gPhoto )

	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	2013-04 – 2013-07		49	48	1	0	0.9796	0.0204	0	0	0.0000	0	0	1	23	23	0	0	0	21	0	0	1	1	0.0000	0.0000
2	2013-07 – 2013-10		38	37	1	0	0.9737	0.0263	0	0	0.0000	0	0	1	15	15	0	0	0	22	1	0	1	1	0.8966	0.0000
3	2013-10 – 2014-01		27	26	1	0	0.9630	0.0370	0	0	0.0000	0	0	1	11	11	0	0	0	0	0	0	1	1	0.8923	0.0000
4	2014-01 – 2014-04		42	40	2	0	0.9524	0.0476	0	0	0.0000	0	0	1	17	17	0	0	0	2	0	0	1	1	0.6377	0.0000
5	2014-04 – 2014-07		36	34	2	0	0.9444	0.0556	0	0	0.0000	0	0	1	18	17	1	1	0	18	0	1	0	0	0.8462	0.5000
6	2014-07 – 2014-09		31	29	2	0	0.9355	0.0645	0	1	0.0323	0	0	1	13	13	0	0	0	0	0	0	1	1	0.7463	0.5000
7	2014-09 – 2014-12		31	30	1	0	0.9677	0.0323	0	0	0.0000	0	0	1	14	14	0	0	0	0	0	0	1	1	0.7742	0.6667
8	2014-12 – 2015-03		34	33	1	0	0.9706	0.0294	0	0	0.0000	0	0	1	15	15	0	0	0	15	0	0	1	1	0.8000	0.0000
9	2015-03 – 2015-06		29	28	1	0	0.9655	0.0345	0	0	0.0000	0	0	1	16	16	0	0	0	16	0	0	1	1	0.8889	0.0000
10	2015-06 – 2015-08		22	21	1	0	0.9545	0.0455	0	0	0.0000	0	0	1	8	8	0	0	0	0	0	0	1	1	0.9804	0.0000
11	2015-08 – 2015-12		41	40	1	0	0.9756	0.0244	0	0	0.0000	0	0	1	19	19	0	0	0	0	0	0	1	1	0.5079	0.0000
12	2015-12 – 2016-03		38	37	1	0	0.9737	0.0263	0	0	0.0000	0	0	1	18	18	0	0	0	2	0	0	1	1	0.9114	0.0000

	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	0.0000	0.4286	0.5306	0.5208	1.0000	0.1163	0.8520	0.8440	0.0537	0.0537	0.0000	0.0519	23	0	0	1.0000	0.0000	0
2	1.0000	1.0000	0	0.4103	0.5789	0.6053	0.5946	1.0000	0.3177	0.8503	0.7895	0.1438	0.1438	0.0000	0.0754	15	0	0	1.0000	0.0000	0
3	0.8462	0.8462	0	0.6207	0.0000	0.5926	0.5769	1.0000	0.1242	0.7086	0.7678	0.1924	0.1924	0.0000	0.1168	11	0	0	1.0000	0.0000	0
4	0.5714	0.5714	0	0.0000	0.0476	0.5952	0.5750	1.0000	0.1785	0.8689	0.8618	0.0885	0.0885	0.0000	0.0650	17	0	0	1.0000	0.0000	0
5	0.7429	0.8235	0	0.0303	0.5556	0.5000	0.5000	0.5000	0.0914	0.7595	0.8175	0.5018	0.0860	-0.5000	0.0683	17	1	0	0.9444	0.0556	0
6	0.8387	0.8667	2	0.5600	0.0000	0.5806	0.5517	1.0000	0.1833	0.8366	0.8473	0.0446	0.0446	0.0000	0.0860	13	0	0	1.0000	0.0000	0
7	0.8148	0.8148	0	0.0000	0.0000	0.5484	0.5333	1.0000	0.3305	0.8686	0.8430	0.0768	0.0768	0.0000	0.0903	14	0	0	1.0000	0.0000	0
8	0.6897	0.6897	0	0.0000	0.4412	0.5588	0.5455	1.0000	0.3341	0.9033	0.8610	0.0888	0.0888	0.0000	0.0784	15	0	0	1.0000	0.0000	0
9	0.7097	0.7097	0	0.4643	0.5517	0.4483	0.4286	1.0000	0.1264	0.7857	0.8214	0.0611	0.0611	0.0000	0.0714	16	0	0	1.0000	0.0000	0
10	1.2500	1.2500	0	0.5600	0.0000	0.6364	0.6190	1.0000	0.1284	0.6615	0.7229	0.0471	0.0471	0.0000	0.1342	8	0	0	1.0000	0.0000	0
11	0.4444	0.4444	0	0.0000	0.0000	0.5366	0.5250	1.0000	0.3388	0.9352	0.9140	0.0942	0.0942	0.0000	0.0610	19	0	0	1.0000	0.0000	0
12	0.9189	0.9189	0	0.0000	0.0526	0.5263	0.5135	1.0000	0.3355	0.9165	0.8805	0.2117	0.2117	0.0000	0.0654	18	0	0	1.0000	0.0000	0

Community smells: Pearson's correlation ( gPhoto )

	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	0.05	0.02	0.52	-	-0.43	0.43	-	-0.09	-0.09	-	-	-	0.19	0.12	1.00	-	-	0.34	-0.10	1.00	-1.00	-1.00	0.09	0.44
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.40	0.40	-0.09	-	0.29	-0.29	-	-0.27	-0.27	-	-	-	0.47	0.45	0.34	0.34	-	-	0.57	0.34	-0.34	-0.34	0.31	-0.10
black.cloud	0.24	0.26	-0.19	-	0.31	-0.31	-	-0.10	-0.10	-	-	-	0.01	0.02	-0.10	-0.10	-	0.57	-	-0.10	0.10	0.10	0.22	-0.19
missing.links	0.05	0.02	0.52	-	-0.43	0.43	-	-0.09	-0.09	-	-	-	0.19	0.12	1.00	1.00	-	0.34	-0.10	-	-1.00	-1.00	0.09	0.44
	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	-0.09	0.02	-0.10	-0.25	0.40	-0.34	-0.25	-1.00	-0.38	-0.26	-0.08	0.90	-0.07	-1.00	-0.16	0.12	1.00	-	-1.00	1.00	-	-		
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
radio.silence	-0.01	0.03	-0.26	-0.04	0.97	-0.38	-0.32	-0.34	-0.16	0.04	-0.08	0.26	-0.13	-0.34	-0.47	0.45	0.34	-	-0.34	0.34	-	-		
black.cloud	0.30	0.29	-0.10	0.20	0.47	0.30	0.34	0.10	0.29	0.09	-0.25	0.01	0.24	0.10	-0.11	0.02	-0.10	-	0.10	-0.10	-	-		
missing.links	-0.09	0.02	-0.10	-0.25	0.40	-0.34	-0.25	-1.00	-0.38	-0.26	-0.08	0.90	-0.07	-1.00	-0.16	0.12	1.00	-	-1.00	1.00	-	-		

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

	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	0.88	0.96	0.08	-	0.16	0.16	-	0.78	0.78	-	-	-	0.55	0.71	0.00	-	-	0.29	0.77	0.00	0.00	0.00	0.78	0.18
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.20	0.19	0.79	-	0.37	0.37	-	0.40	0.40	-	-	-	0.12	0.14	0.29	0.29	-	-	0.07	0.29	0.29	0.29	0.36	0.77
black.cloud	0.48	0.44	0.57	-	0.36	0.36	-	0.77	0.77	-	-	-	0.98	0.96	0.77	0.77	-	0.07	-	0.77	0.77	0.77	0.52	0.57
missing.links	0.88	0.96	0.08	-	0.16	0.16	-	0.78	0.78	-	-	-	0.55	0.71	0.00	0.00	-	0.29	0.77	-	0.00	0.00	0.78	0.18

	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	0.79	0.96	0.77	0.45	0.19	0.28	0.42	0.00	0.22	0.42	0.80	0.00	0.82	0.00	0.62	0.71	0.00	-	-	0.00	-
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.98	0.93	0.45	0.90	0.00	0.22	0.31	0.29	0.62	0.89	0.81	0.42	0.68	0.29	0.12	0.14	0.29	-	0.29	0.29	-
black.cloud	0.36	0.39	0.77	0.55	0.14	0.37	0.31	0.77	0.38	0.80	0.46	0.98	0.48	0.77	0.75	0.96	0.77	-	0.77	0.77	-
missing.links	0.79	0.96	0.77	0.45	0.19	0.28	0.42	0.00	0.22	0.42	0.80	0.00	0.82	0.00	0.62	0.71	0.00	-	-	0.00	-

# Community smells: Spearman's correlation ( gPhoto )

	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	0.04	0.04	0.52	-	-0.39	0.39	-	-0.09	-0.09	-	-	-	0.26	0.18	1.00	-	-	0.32	-0.10	1.00	-1.00	-1.00	0.00	0.45
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.47	0.46	0.00	-	0.31	-0.31	-	-0.32	-0.32	-	-	-	0.51	0.48	0.32	0.32	-	-	0.53	0.32	-0.32	-0.32	0.24	-0.18
black.cloud	0.25	0.25	-0.19	-	0.35	-0.35	-	-0.10	-0.10	-	-	-	-0.05	-0.05	-0.10	-0.10	-	0.53	-	-0.10	0.10	0.10	0.30	-0.19
missing.links	0.04	0.04	0.52	-	-0.39	0.39	-	-0.09	-0.09	-	-	-	0.26	0.18	1.00	1.00	-	0.32	-0.10	-	-1.00	-1.00	0.00	0.45
	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	0.00	-0.10	0.00	0.41	-0.39	-0.39	-1.00	-0.48	-0.31	-0.22	0.48	-0.04	-1.00	-0.13	0.18	1.00	-	-1.00	1.00	-			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
radio.silence	-0.05	0.01	-0.32	-0.16	0.95	-0.30	-0.33	-0.32	-0.32	0.01	-0.10	0.25	0.10	-0.32	-0.48	0.48	0.32	-	-0.32	0.32	-			
black.cloud	0.40	0.40	-0.10	0.11	0.52	0.40	0.40	0.10	0.10	0.00	-0.30	0.20	0.30	0.10	0.00	-0.05	-0.10	-	0.10	-0.10	-			
missing.links	-0.10	0.00	-0.10	0.00	0.41	-0.39	-0.39	-1.00	-0.48	-0.31	-0.22	0.48	-0.04	-1.00	-0.13	0.18	1.00	-	-1.00	1.00	-			

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

	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	0.89	0.89	0.08	-	0.21	0.21	-	0.78	0.78	-	-	-	0.41	0.59	0.00	-	-	0.31	0.77	0.00	0.00	0.00	1.00	0.17
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
radio.silence	0.12	0.13	1.00	-	0.33	0.33	-	0.31	0.31	-	-	-	0.09	0.11	0.31	0.31	-	-	0.10	0.31	0.31	0.31	0.48	0.60
black.cloud	0.46	0.46	0.57	-	0.29	0.29	-	0.77	0.77	-	-	-	0.88	0.88	0.77	0.77	-	0.10	-	0.77	0.77	0.77	0.37	0.57
missing.links	0.89	0.89	0.08	-	0.21	0.21	-	0.78	0.78	-	-	-	0.41	0.59	0.00	0.00	-	0.31	0.77	-	0.00	0.00	1.00	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	0.77	1.00	0.77	1.00	0.19	0.21	0.21	0.00	0.11	0.33	0.50	0.11	0.89	0.00	0.68	0.59	0.00	-	0.00	0.00	-			
prima.donnas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
radio.silence	0.88	0.97	0.34	0.64	0.00	0.34	0.30	0.31	0.31	0.96	0.76	0.43	0.76	0.31	0.11	0.11	0.31	-	0.31	0.31	-			
black.cloud	0.22	0.22	0.77	0.76	0.10	0.22	0.22	0.77	0.77	1.00	0.37	0.56	0.37	0.77	1.00	0.88	0.77	-	0.77	0.77	-			
missing.links	0.77	1.00	0.77	1.00	0.19	0.21	0.21	0.00	0.11	0.33	0.50	0.11	0.89	0.00	0.68	0.59	0.00	-	0.00	0.00	-			