

Socio-technical analysis result (Krita)

| | 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 | 36 | 13 | 19 | 4 | 0.3611 | 0.5278 | 0.1111 | 2 | 0.0556 | 0 | 0.0000 | 1 | 14 | 9 | 8 | 23 | 0 | 2 | 0 | 24 | 0.1111 | 0.6329 | 0.0000 | 0.0000 | |
| 2 | 2013-09 – 2013-12 | 33 | 8 | 20 | 5 | 0.2424 | 0.6061 | 0.1515 | 4 | 0.1212 | 0 | 0.0000 | 1 | 13 | 7 | 8 | 26 | 0 | 0 | 0 | 26 | 0.1333 | 0.6507 | 0.4058 | 0.2917 | |
| 3 | 2013-12 – 2014-03 | 52 | 19 | 29 | 4 | 0.3654 | 0.5577 | 0.0769 | 12 | 0.2308 | 3 | 0.0909 | 1 | 17 | 10 | 9 | 26 | 0 | 4 | 0 | 26 | 0.1034 | 0.6520 | 0.2353 | 0.1724 | |
| 4 | 2014-03 – 2014-05 | 40 | 11 | 23 | 6 | 0.2750 | 0.5750 | 0.1500 | 6 | 0.1500 | 2 | 0.0690 | 1 | 13 | 8 | 8 | 32 | 0 | 0 | 0 | 34 | 0.1282 | 0.6676 | 0.6522 | 0.6129 | |
| 5 | 2014-05 – 2014-08 | 35 | 8 | 23 | 4 | 0.2286 | 0.6571 | 0.1143 | 3 | 0.0857 | 1 | 0.0370 | 1 | 10 | 6 | 7 | 27 | 0 | 0 | 0 | 28 | 0.0968 | 0.7097 | 0.5600 | 0.4643 | |
| 6 | 2014-08 – 2014-11 | 36 | 9 | 21 | 6 | 0.2500 | 0.5833 | 0.1667 | 5 | 0.1389 | 0 | 0.0000 | 1 | 10 | 7 | 7 | 27 | 0 | 8 | 0 | 31 | 0.1622 | 0.6837 | 0.4789 | 0.4074 | |
| 7 | 2014-11 – 2015-02 | 40 | 11 | 19 | 10 | 0.2750 | 0.4750 | 0.2500 | 2 | 0.0500 | 0 | 0.0000 | 1 | 17 | 11 | 12 | 41 | 0 | 3 | 0 | 47 | 0.2034 | 0.6663 | 0.4737 | 0.3929 | |
| 8 | 2015-02 – 2015-05 | 51 | 23 | 21 | 7 | 0.4510 | 0.4118 | 0.1373 | 2 | 0.0392 | 0 | 0.0000 | 1 | 16 | 13 | 8 | 19 | 0 | 9 | 0 | 23 | 0.2333 | 0.7738 | 0.3077 | 0.2456 | |
| 9 | 2015-05 – 2015-08 | 41 | 7 | 26 | 8 | 0.1707 | 0.6341 | 0.1951 | 2 | 0.0488 | 0 | 0.0000 | 1 | 13 | 7 | 8 | 34 | 0 | 4 | 0 | 41 | 0.1277 | 0.7353 | 0.5217 | 0.1290 | |
| 10 | 2015-08 – 2015-11 | 35 | 12 | 13 | 10 | 0.3429 | 0.3714 | 0.2857 | 2 | 0.0571 | 0 | 0.0000 | 1 | 14 | 11 | 8 | 19 | 0 | 5 | 0 | 31 | 0.2439 | 0.6341 | 0.6053 | 0.6667 | |
| 11 | 2015-11 – 2016-02 | 29 | 11 | 13 | 5 | 0.3793 | 0.4483 | 0.1724 | 2 | 0.0690 | 0 | 0.0000 | 1 | 11 | 8 | 6 | 11 | 0 | 0 | 0 | 13 | 0.3158 | 0.7456 | 0.5625 | 0.4878 | |
| 12 | 2016-02 – 2016-05 | 36 | 15 | 15 | 6 | 0.4167 | 0.4167 | 0.1667 | 2 | 0.0556 | 0 | 0.0000 | 1 | 12 | 9 | 7 | 30 | 0 | 6 | 0 | 31 | 0.1389 | 0.6349 | 0.4000 | 0.2564 | |
| | 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 | | | | | |
| 1 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5000 | 0.6111 | 0.4706 | 0.6522 | 0.0595 | 0.3270 | 0.4778 | 0.1249 | 0.0333 | 0.1024 | 0.1222 | 6 | 5 | 3 | 0.4286 | 0.3571 | 0.2143 | | | | | |
| 2 | 0.3704 | 0.3750 | 0.3750 | 0.5000 | 0.4242 | 0.6061 | 0.4615 | 0.6800 | 0.0471 | 0.2802 | 0.5189 | 0.0105 | 0.2672 | 0.0094 | 0.1061 | 4 | 5 | 3 | 0.3333 | 0.4167 | 0.2500 | | | | | |
| 3 | 0.4000 | 0.3529 | 0.4706 | 0.0000 | 0.4423 | 0.6731 | 0.5652 | 0.7273 | 0.0304 | 0.4277 | 0.5588 | 0.0225 | 0.2124 | 0.0040 | 0.0490 | 8 | 7 | 2 | 0.4706 | 0.4118 | 0.1176 | | | | | |
| 4 | 0.4667 | 0.5556 | 0.3529 | 0.3333 | 0.4750 | 0.6750 | 0.5294 | 0.7241 | 0.0448 | 0.4020 | 0.5769 | 0.1567 | 0.3407 | 0.1825 | 0.0897 | 5 | 5 | 3 | 0.3846 | 0.3846 | 0.2308 | | | | | |
| 5 | 0.6087 | 0.8571 | 0.2667 | 0.2857 | 0.4286 | 0.7143 | 0.5000 | 0.7407 | 0.0336 | 0.1652 | 0.3429 | 0.3516 | 0.1264 | 0.3531 | 0.0689 | 3 | 4 | 3 | 0.3000 | 0.4000 | 0.3000 | | | | | |
| 6 | 0.4000 | 0.4615 | 0.4286 | 0.3529 | 0.6389 | 0.7222 | 0.5333 | 0.7407 | 0.0418 | 0.2421 | 0.4048 | 0.1369 | 0.1268 | 0.1364 | 0.0810 | 3 | 3 | 4 | 0.3000 | 0.3000 | 0.4000 | | | | | |
| 7 | 0.2222 | 0.2222 | 0.2105 | 0.5556 | 0.6500 | 0.5750 | 0.4762 | 0.5862 | 0.0845 | 0.5181 | 0.6564 | 0.1237 | 0.2560 | 0.1247 | 0.1128 | 4 | 5 | 7 | 0.2500 | 0.3125 | 0.4375 | | | | | |
| 8 | 0.5455 | 0.6667 | 0.5000 | 0.5000 | 0.4706 | 0.6863 | 0.5667 | 0.7143 | 0.0389 | 0.2824 | 0.4659 | 0.0143 | 0.1959 | 0.0036 | 0.0941 | 10 | 5 | 3 | 0.5556 | 0.2778 | 0.1667 | | | | | |
| 9 | 0.7586 | 1.1000 | 0.5000 | 0.2917 | 0.4146 | 0.6829 | 0.5333 | 0.7647 | 0.0282 | 0.2039 | 0.4159 | 0.0413 | 0.0849 | 0.0196 | 0.0841 | 5 | 6 | 2 | 0.3846 | 0.4615 | 0.1538 | | | | | |
| 10 | 0.3704 | 0.4444 | 0.3750 | 0.2174 | 0.6000 | 0.6000 | 0.5000 | 0.6522 | 0.0556 | 0.4148 | 0.5429 | 0.0008 | 0.2184 | -0.3120 | 0.1042 | 6 | 3 | 5 | 0.4286 | 0.2143 | 0.3571 | | | | | |
| 11 | 0.5600 | 0.7368 | 0.5714 | 0.5000 | 0.3448 | 0.6207 | 0.5000 | 0.6667 | 0.0535 | 0.3404 | 0.5086 | 0.0566 | 0.2457 | 0.0561 | 0.0985 | 6 | 4 | 2 | 0.5000 | 0.3333 | 0.1667 | | | | | |
| 12 | 0.4348 | 0.5882 | 0.1538 | 0.0769 | 0.4444 | 0.6667 | 0.5714 | 0.6667 | 0.0459 | 0.3338 | 0.5794 | 0.0940 | 0.0653 | 0.0947 | 0.1063 | 5 | 3 | 4 | 0.4167 | 0.2500 | 0.3333 | | | | | |

Community smells: Pearson’s correlation (Krita)

| | 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 | 0.21 | -0.30 | 0.44 | 0.32 | -0.54 | 0.39 | 0.16 | 0.09 | 0.07 | 0.13 | 0.15 | - | 0.23 | -0.13 | 0.66 | - | - | -0.02 | - | 0.91 | -0.56 | -0.28 | 0.02 | -0.24 |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| radio.silence | 0.49 | 0.54 | 0.00 | 0.36 | 0.38 | -0.43 | 0.15 | -0.04 | -0.15 | -0.24 | -0.28 | - | 0.22 | 0.53 | 0.04 | -0.02 | - | - | - | 0.13 | 0.16 | 0.15 | -0.47 | -0.33 |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| missing.links | 0.18 | -0.32 | 0.27 | 0.65 | -0.54 | 0.19 | 0.49 | -0.08 | -0.12 | -0.04 | -0.03 | - | 0.27 | 0.03 | 0.69 | 0.91 | - | 0.13 | - | - | -0.32 | -0.23 | 0.18 | -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 | -0.23 | -0.15 | -0.60 | -0.06 | 0.38 | 0.03 | -0.01 | -0.05 | 0.18 | 0.18 | 0.27 | 0.28 | -0.02 | 0.36 | -0.02 | -0.46 | 0.26 | 0.46 | -0.71 | 0.29 | 0.40 | | | |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| radio.silence | -0.07 | -0.08 | 0.08 | -0.19 | 0.44 | 0.33 | 0.63 | 0.13 | -0.15 | -0.05 | -0.07 | -0.35 | -0.35 | -0.34 | -0.07 | 0.40 | -0.21 | 0.22 | 0.27 | -0.56 | 0.17 | | | |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| missing.links | -0.22 | -0.12 | -0.52 | -0.02 | 0.56 | -0.07 | -0.03 | -0.11 | 0.26 | 0.25 | 0.28 | 0.13 | 0.01 | 0.06 | 0.07 | -0.40 | 0.12 | 0.61 | -0.65 | 0.08 | 0.51 | | | |

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

| | 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 | 0.52 | 0.35 | 0.15 | 0.31 | 0.07 | 0.21 | 0.63 | 0.78 | 0.83 | 0.68 | 0.65 | - | 0.47 | 0.68 | 0.02 | - | - | 0.95 | - | 0.00 | 0.06 | 0.37 | 0.96 | 0.47 |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| radio.silence | 0.11 | 0.07 | 1.00 | 0.25 | 0.22 | 0.16 | 0.65 | 0.90 | 0.64 | 0.45 | 0.38 | - | 0.50 | 0.07 | 0.90 | 0.95 | - | - | - | 0.68 | 0.62 | 0.63 | 0.14 | 0.32 |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| missing.links | 0.58 | 0.31 | 0.39 | 0.02 | 0.07 | 0.56 | 0.11 | 0.81 | 0.71 | 0.91 | 0.94 | - | 0.39 | 0.92 | 0.01 | 0.00 | - | 0.68 | - | - | 0.32 | 0.47 | 0.60 | 0.81 |
| | 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 | 0.50 | 0.65 | 0.05 | 0.86 | 0.22 | 0.92 | 0.98 | 0.89 | 0.58 | 0.57 | 0.39 | 0.37 | 0.95 | 0.25 | 0.95 | 0.13 | 0.42 | 0.14 | 0.01 | 0.37 | 0.19 | | | |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| radio.silence | 0.83 | 0.82 | 0.82 | 0.59 | 0.15 | 0.29 | 0.03 | 0.68 | 0.64 | 0.89 | 0.82 | 0.26 | 0.27 | 0.28 | 0.84 | 0.20 | 0.52 | 0.50 | 0.40 | 0.06 | 0.59 | | | |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| missing.links | 0.51 | 0.72 | 0.10 | 0.96 | 0.06 | 0.83 | 0.92 | 0.72 | 0.41 | 0.44 | 0.39 | 0.68 | 0.99 | 0.84 | 0.83 | 0.20 | 0.72 | 0.04 | 0.02 | 0.82 | 0.09 | | | |

Community smells: Spearman’s correlation (Krita)

| | 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 | 0.38 | -0.42 | 0.41 | 0.29 | -0.53 | 0.47 | 0.19 | 0.17 | -0.04 | 0.18 | 0.18 | - | -0.04 | -0.27 | 0.28 | - | - | -0.04 | - | 0.87 | -0.38 | -0.01 | 0.04 | -0.23 |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| radio.silence | 0.48 | 0.48 | -0.02 | 0.48 | 0.38 | -0.46 | 0.16 | -0.23 | -0.38 | -0.35 | -0.35 | - | 0.22 | 0.49 | 0.07 | -0.04 | - | - | - | 0.10 | 0.31 | 0.03 | -0.47 | -0.37 |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| missing.links | 0.28 | -0.39 | 0.19 | 0.61 | -0.53 | 0.23 | 0.52 | 0.04 | -0.07 | 0.04 | 0.04 | - | 0.04 | -0.09 | 0.32 | 0.87 | - | 0.10 | - | - | -0.10 | -0.13 | 0.29 | 0.03 |
| | | 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 | -0.03 | -0.05 | -0.56 | 0.00 | 0.20 | 0.12 | 0.11 | 0.25 | -0.18 | -0.04 | 0.25 | 0.47 | -0.01 | 0.55 | -0.06 | -0.61 | 0.21 | 0.24 | -0.75 | 0.28 | 0.31 | | | |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| radio.silence | -0.11 | -0.03 | 0.13 | -0.20 | 0.41 | 0.26 | 0.69 | 0.06 | -0.21 | 0.00 | -0.06 | -0.31 | -0.41 | -0.41 | -0.06 | 0.28 | -0.21 | 0.34 | 0.24 | -0.59 | 0.12 | | | |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| missing.links | -0.20 | -0.15 | -0.52 | -0.05 | 0.40 | -0.06 | 0.06 | 0.10 | -0.02 | 0.13 | 0.32 | 0.25 | 0.11 | 0.34 | -0.01 | -0.52 | -0.00 | 0.47 | -0.69 | 0.02 | 0.48 | | | |

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

| | 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 | 0.22 | 0.18 | 0.18 | 0.35 | 0.08 | 0.12 | 0.56 | 0.60 | 0.90 | 0.59 | 0.59 | - | 0.91 | 0.40 | 0.38 | - | - | 0.89 | - | 0.00 | 0.22 | 0.98 | 0.90 | 0.50 |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| radio.silence | 0.12 | 0.12 | 0.95 | 0.12 | 0.22 | 0.13 | 0.62 | 0.47 | 0.22 | 0.27 | 0.27 | - | 0.50 | 0.11 | 0.83 | 0.89 | - | - | - | 0.76 | 0.32 | 0.93 | 0.15 | 0.26 |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| missing.links | 0.38 | 0.21 | 0.55 | 0.04 | 0.08 | 0.47 | 0.08 | 0.89 | 0.83 | 0.90 | 0.90 | - | 0.91 | 0.77 | 0.31 | 0.00 | - | 0.76 | - | - | 0.76 | 0.69 | 0.39 | 0.93 |
| | 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 | 0.94 | 0.87 | 0.07 | 0.99 | 0.53 | 0.72 | 0.74 | 0.43 | 0.57 | 0.90 | 0.43 | 0.12 | 0.97 | 0.06 | 0.85 | 0.04 | 0.52 | 0.44 | 0.01 | 0.38 | 0.33 | | | |
| prima.donnas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| radio.silence | 0.74 | 0.92 | 0.70 | 0.56 | 0.19 | 0.41 | 0.01 | 0.85 | 0.51 | 0.99 | 0.86 | 0.32 | 0.18 | 0.19 | 0.84 | 0.39 | 0.51 | 0.28 | 0.46 | 0.04 | 0.71 | | | |
| black.cloud | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| missing.links | 0.56 | 0.66 | 0.10 | 0.89 | 0.20 | 0.86 | 0.84 | 0.77 | 0.95 | 0.69 | 0.31 | 0.43 | 0.74 | 0.29 | 0.98 | 0.08 | 0.99 | 0.13 | 0.01 | 0.96 | 0.11 | | | |