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title: "Alambic – R analysis document" author: "Boris Baldassari" output: pdf_document: toc: true toc_depth: 3 —

Summary

This plugin generates a PDF document with information about project **technology.scout**.

This plugin is intended as an example of R Markdown document to help people easily setup their own R analysis on software development data.

Metrics

Mnemo	Value
CI_JOBS	66.00
CI_JOBS_FAILED_1W	3.00
CI_JOBS_GREEN	40.00
CI_JOBS_GREEN_RATIO	88.00
CI_JOBS_RED	3.00
CI_JOBS_YELLOW	2.00
DOC_GOV	1.00
GOV_BOARD_PUBLIC	1.00
ITS_AUTHORS	188.00
ITS_AUTHORS_1M	0.00
ITS_AUTHORS_1W	0.00
ITS_AUTHORS_1Y	8.00
ITS_CREATED_1M	0.00
ITS_CREATED_1W	0.00
ITS_CREATED_1Y	10.00
ITS_DIVERSITY_RATIO_1Y	1.00
ITS_ISSUES_ALL	1989.00
ITS_OPEN	10.00
ITS_OPEN_OLD	0.00
ITS_OPEN_PERCENT	1.00
ITS_OPEN_UNASSIGNED	0.00
ITS_UPDATED_1M	0.00
ITS_UPDATED_1W	0.00
ITS_UPDATED_1Y	65.00
MLS_USR_AUTHORS	427.00
MLS_USR_AUTHORS_1M	15.00
MLS_USR_AUTHORS_1W	7.00
MLS_USR_AUTHORS_1Y	51.00
MLS_USR_DIVERSITY_RATIO_1Y	9.00
MLS_USR_POSTS	1677.00
MLS_USR_POSTS_1M	42.00
MLS_USR_POSTS_1W	15.00
MLS_USR_POSTS_1Y	494.00
MLS_USR_THREADS	1677.00
MLS_USR_THREADS_1M	14.00
MLS_USR_THREADS_1W	4.00
MLS_USR_THREADS_1Y	124.00
OSS_DEP_CHECK	1.00
OSS_ESCALATE	1.00
OSS_INCLUSION	1.00
PROJECT_ACCESS_INFO	1.00
PROJECT_CI_ACCESS	0.00
PROJECT_CI_INFO	0.00
PROJECT_DL_ACCESS	1.00
PROJECT_DL_INFO	1.00
PROJECT_DOC_ACCESS	1.00
PROJECT_DOC_INFO	6.00
PROJECT_GETTINGSTARTED_INFO	1.00
PROJECT_ITS_ACCESS	0.00
PROJECT_ITS_INFO	5.00
PROJECT_MLS_ACCESS	1.00
PROJECT_MLS_INFO	1.00
PROJECT_REL_VOL	11.00
PROJECT_SCM_ACCESS	1.00
PROJECT_SCM_INFO	1.00
SCM_AUTHORS	146.00
SCM_AUTHORS_1M	7.00
SCM_AUTHORS_1W	5.00
SCM_AUTHORS_1Y	35.00
SCM_BRANCHES	140.00
SCM_COMMITS	21228.00
SCM_COMMITS_1M	44.00
SCM_COMMITS_1W	7.00
SCM_COMMITS_1Y	919.00
SCM_COMMITTERS	61.00
SCM_COMMITTERS_1M	10.00
SCM_COMMITTERS_1W	5.00
SCM_COMMITTERS_1Y	20.00
SCM_DIVERSITY_RATIO_1Y	45.00
SCM_MOD_LINES	7413337.00
SCM_MOD_LINES_1M	4273.00
SCM_MOD_LINES_1W	804.00
SCM_MOD_LINES_1Y	231535.00
SC_AUTHORS_VOL	18.00
SC_COPYRIGHTS_VOL	16.00
SC_FILES_COUNT	5848.00
SC_FILES_VOL	7585.00
SC_GENERATED_VOL	135.00
SC_HAS_CODEOFCONDUCT	0.00
SC_HAS_CONTRIBUTING	1.00
SC_HAS_LICENCE	0.00
SC_HAS_README	1.00
SC_HOLDERS_VOL	14.00
SC_LICENSES_VOL	13.00
SC_LIC_CHECK	9.00
SC_PROGS_VOL	8.00

Number of critical issues

ID: SQ_VIOLATIONS_CRITICAL

Value:

Description: The total number of issues (violations) found by SonarQube with a severity equal to CRITICAL. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Issues>.

Number of major issues

ID: SQ_VIOLATIONS_MAJOR

Value:

Description: The total number of issues (violations) found by SonarQube with a severity equal to MAJOR. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Issues>.

Stack Overflow Answer rate (5Y)

ID: SO_ANSWER_RATE_5Y

Value: 1.05

Description: The average number of answers per questions related to the project's tag on Stack Overflow during the last 5 years. Having many answers posted about the project indicates a strong interest from the community, and a good support. The list of questions and their answers associated to the tag can be browsed on the Stack Overflow web site.

Stack Overflow Answer rate (1Y)

ID: SO_ANSWER_RATE_1Y

Value: 0.75 (1 / 5)

Description: The average number of answers per questions related to the project's tag on Stack Overflow during the last year. Having many answers posted about the project indicates a strong interest from the community, and a good support. The list of questions and their answers associated to the tag can be browsed on the Stack Overflow web site.

Total number of failed builds

ID: CI_BUILDS_FAILED

Value:

Description: The total number of builds with state failed for the project.

SCM committers one week

ID: SCM_COMMITTERS_1W

Value: 5

Description: Total number of identities found as committers of commits in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

Stack Overflow Askers (5Y)

ID: SO_ASKERS_5Y

Value: 11

Description: The number of distinct people asking questions related to the project's tag posted on Stack Overflow during the last 5 years. Having many people ask questions about the project indicates a strong interest from the community, and a good support. The list of questions and their answers associated to the tag can be browsed on the Stack Overflow web site.

SCM committers one month

ID: SCM_COMMITTERS_1M

Value: 10

Description: Total number of identities found as committers of commits in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

ITS Late issues

ID: ITS_LATE

Value:

Description: Number of issues with a past due date. It is considered good practice to keep this number low. Either fix it or maintain its due date.

Number of green jobs

ID: CI_JOBS_GREEN

Value: 40

Description: The number of green (successful) jobs on the CI engine. Green (or blue) jobs in CI define successful builds.

Programming languages

ID: SC_PROGS_VOL

Value: 8

Description: Number of programming languages detected in the code.

SCM authors one week

ID: SCM_AUTHORS_1W

Value: 5

Description: Total number of identities found as authors of commits in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

SCM Open Pull requests one week

ID: SCM_PRS_OPENED_1W

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that have been opened within the last week in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

ITS Old open issues

ID: ITS_OPEN_OLD

Value: 0

Description: Number of dead issues, i.e. issues that are in state open and have not been updated for a long time (one year). It is considered to be good practice to keep this number low because it impacts the confidence in the Issue Tracking System if there are too many open dead issues. Some projects close issues after some time of inactivity and re-open it if needed.

SCM Commits one week

ID: SCM_COMMITS_1W

Value: 7

Description: Total number of commits in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

Dependency check

ID: OSS_DEP_CHECK

Value: 1 (5 / 5)

Description: Analysis of dependencies to identify old, vulnerable dependencies, as provided by tools like dependency-check or JFrog/Nexus. As an example, projects hosted at the Eclipse Foundation have a rigorous IP cleanliness procedure that makes sure that all dependencies meet defined requirements.

Number of releases

ID: PROJECT_REL_VOL

Value: 11 (5 / 5)

Description: The number of releases recorded in the PMI. Milestones are retrieved from the PMI file and are counted whatever their target release is. Milestones are useful to assess the maturity of the release and improves predictability of the project's output, in terms of quality and time.

Public API

ID: SQ_PUBLIC_API

Value:

Description: Number of public Classes + number of public Functions + number of public Properties

Sqale Debt ratio

ID: SQ_SQALE_DEBT_RATIO

Value:

Description: The Technical Debt Ratio, as defined in Sqale. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Maintainability>.

Number of releases

ID: PMI_REL_VOL

Value:

Description: The number of releases recorded in the PMI. Milestones are retrieved from the PMI file and are counted whatever their target release is. Milestones are useful to assess the maturity of the release and improves predictability of the project's output, in terms of quality and time.

Ratio of green jobs

ID: CI_JOBS_GREEN_RATIO

Value: 88 (4 / 5)

Description: The number of green (successful) jobs on the CI engine, divided by the total number of jobs. Green (or blue) jobs in CI define successful builds.

SCM Open Pull requests one year

ID: SCM_PRS_OPENED_1Y

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that have been opened within the last year in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

ITS Open issues

ID: ITS_OPEN

Value: 10

Description: Number of issues with a state 'open' at the time of analysis.

Authors

ID: SC_AUTHORS_VOL

Value: 18

Description: Number of authors detected in the code.

Total number of builds

ID: CI_BUILDS_VOL

Value:

Description: The total number of builds listed in the GitLab Builds section. Builds are individual runs of jobs. See the GitLab documentation for more details.

Number of copyrights

ID: SC_COPYRIGHTS_VOL

Value: 16

Description: Number of copyrights detected by Scancode in the code base.

Total number of files analysed

ID: SC_FILES_VOL

Value: 7585

Description: Total number of files analysed (and documented) by Scancode. Metric is the number of files provided in the list of analysed files returned by Scancode.

SCM diversity ratio

ID: SCM_DIVERSITY_RATIO_1Y

Value: 45 (5 / 5)

Description: The ration of commits divided by the number of authors, over a period of one year.

SCM committers one year

ID: SCM_COMMITTERS_1Y

Value: 20

Description: Total number of identities found as committers of commits in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

Project authors

ID: PROJECT_AUTHORS

Value:

Description: Total number of identities found as authors of commits in source code management repository. Source code management repositories are those considered as such in the project documentation. Commits in all branches are considered. Date used for each commit is 'author date' (when there is a difference between author date and committer date). An identity is considered as author if it appears as such in the commit record (for systems logging several identities related to the commit, authoring identity will be considered).

Technical debt

ID: SQ_SQALE_INDEX

Value:

Description: Effort to fix all maintainability issues. The measure is stored in minutes in the DB. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metrics+Definition+Maintainability>.

SCM Closed Pull requests

ID: SCM_PRS_CLOSED

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) in the closed state in source code management repositories.

User ML Posts one month

ID: MLS_USR_POSTS_1M

Value: 42 (4 / 5)

Description: The total number of posts found in the User mailing list during last month. Having many posts shows the mailing list is active. It encourages people to participate, ask and answer questions.

ITS Authors

ID: ITS_AUTHORS

Value: 188

Description: Number of different authors who created issues during the lifetime of the project. A high number of authors shows diversity and improves the bus factor of the project.

Has contributing

ID: SC_HAS_CONTRIBUTING

Value: 1 (5 / 5)

Description: The number of files considered as a contributing or development guide, as detected by Scancode.

Code of Conduct

ID: SC_HAS_CODEOFCONDUCT

Value: 0 (4 / 5)

Description: The number of files considered as a code of conduct, as detected by Scancode. These can be any initiative and written document to regulate the behaviour of individuals As an example, the Eclipse Foundation enforces the following code of conduct: https://www.eclipse.org/org/documents/Community_Code_of_Conduct.php .

DL access

ID: PROJECT_DL_ACCESS

Value: 1 (5 / 5)

Description: Is the access info (downloads, update sites..) correctly filled in the PMI records? The project management infrastructure file holds information about how to access binaries of the project. This test checks the number of access-related entries defined in the PMI: download_url, downloads, update_sites.

Stack Overflow Views (5Y)

ID: SO_VIEWS_VOL_5Y

Value: 3064

Description: The total number of views for questions related to the project's tag on Stack Overflow during the last 5 years. Having many views on questions about the project indicates a strong interest from the

community. The list of questions and their answers associated to the tag can be browsed on the Stack Overflow web site.

DL information

ID: PROJECT_DL_INFO

Value: 1 (5 / 5)

Description: Is the access info (downloads, update sites..) correctly filled in the PMI records? The project management infrastructure file holds information about how to access binaries of the project. This test checks the number of access-related entries defined in the PMI: download_url, downloads, update_sites.

Number of stars

ID: PROJECT_STARS

Value:

Description: The number of times people have starred this project. Users use stars to show their interest for a project, and more stars usually mean a greater visibility and interest.

Number of lines of code

ID: SQ_NCLOC

Value:

Description: Number of physical lines that contain at least one character which is neither a whitespace or a tabulation or part of a comment. For Cobol, generated lines of code and pre-processing instructions (SKIP1, SKIP2, SKIP3, COPY, EJECT, REPLACE) are not counted as lines of code.

ITS authors last week

ID: ITS_AUTHORS_1W

Value: 0

Description: Number of authors who created issues during last week. If today is Wed. 2017-02-01 then the range is from Wed. 2017-01-25 to Wed. 2017-02-01.

User ML Threads one year

ID: MLS_USR_THREADS_1Y

Value: 124

Description: The total number of threads (one question followed by zero or more answers) found in the User mailing list during last year. Having many threads shows the mailing list is active. It encourages people to participate, ask and answer questions.

ITS issues updated last week

ID: ITS_UPDATED_1W

Value: 0

Description: Number of issues updated during last week. If today is Wed. 2017-02-01 then the range is from Wed. 2017-01-25 to Wed. 2017-02-01.

SCM authors

ID: SCM_AUTHORS

Value: 146

Description: Total number of identities found as authors of commits in source code management repository. Source code management repositories are those considered as such in the project documentation. Commits in all branches are considered. Date used for each commit is 'author date' (when there is a difference between author date and committer date). An identity is considered as author if it appears as such in the commit record (for systems logging several identities related to the commit, authoring identity will be considered).

SCM Open Pull requests one month

ID: SCM_PRS_OPENED_1M

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that have been opened within the last month in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

Project Commits

ID: PROJECT_COMMITS

Value:

Description: Total number of commits in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date).

ITS authors last month

ID: ITS_AUTHORS_1M

Value: 0 (1 / 5)

Description: Number of authors who created issues during last month. If today is 2017-02-01 then the range is from 2017-01-01 to 2017-02-01.

User ML Threads one week

ID: MLS_USR_THREADS_1W

Value: 4

Description: The total number of threads (one question followed by zero or more answers) found in the User mailing list during last week. Having many threads shows the mailing list is active. It encourages people to participate, ask and answer questions.

Escalation procedure

ID: OSS_ESCALATE

Value: 1 (5 / 5)

Description: Is there an easy and visible way for anybody to report toxic behaviour or unfair practices? As an example, people willing to report unfair practices or bad behaviour within an Eclipse project can send an email at codeofconduct@eclipse.org.

Project authors one week

ID: PROJECT_AUTHORS_1W

Value:

Description: Total number of identities found as authors of commits in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

File complexity

ID: SQ_CPX_FILE_IDX

Value:

Description: Average complexity by file. File complexity is computed using the Total complexity (SQ_CPX, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Complexity>) divided by the number of files (SQ_FILES).

Project authors one year

ID: PROJECT_AUTHORS_1Y

Value:

Description: Total number of identities found as authors of commits in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

Doc access

ID: PROJECT_DOC_ACCESS

Value: 1 (5 / 5)

Description: Is the documentation info correctly filled in the PMI records? The project management infrastructure file holds information about various documentation and manuals. This test checks the number of doc-related entries defined in the PMI: build_doc, documentation, documentation_url, forums, gettingstarted_url, mailing_lists, website_url, wiki_url.

Project committers

ID: PROJECT_COMMITTERS

Value:

Description: Total number of identities found as committers of commits in source code management repository. Source code management repositories are those considered as such in the project documentation. Commits in all branches are considered. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). An identity is considered as committer if it appears as such in the commit record.

ITS Total issues

ID: ITS_ISSUES_ALL

Value: 1989

Description: Number of issues registered in the database, whatever their state is.

Readme

ID: DOC_README

Value:

Description: Is the documentation info correctly filled in the PMI records? The project management infrastructure file holds information about various documentation and manuals. This test checks the number of doc-related entries defined in the PMI: build_doc, documentation, documentation_url, forums, gettingstarted_url, mailing_lists, website_url, wiki_url.

Total number of Actors

ID: ITS_PEOPLE

Value:

Description: The total number of people involved in issues tracking, includes authors (submitters), closers and updaters XXX.

User ML diversity ratio

ID: MLS_USR_DIVERSITY_RATIO_1Y

Value: 9 (3 / 5)

Description: The ration of posts divided by the number of authors, over a period of one year.

Project Commits one week

ID: PROJECT_COMMITS_1W

Value:

Description: Total number of commits in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

Number of copyright holders

ID: SC_HOLDERS_VOL

Value: 14

Description: Number of copyright holders detected in the code.

Package Tangle index

ID: SQ_PACKAGES_TANGLE_IDX

Value:

Description: The Package tangle index, as defined in SonarQube.

Licences check

ID: SC_LIC_CHECK

Value: 9 (2 / 5)

Description: Unwanted licences in the code, as provided by tools like ScanCode (or Black Duck or..). All licences found in the codebase that do not conform to a custom regexp are considered wrong. One should have as few as possible of them.

ITS authors last year

ID: ITS_AUTHORS_1Y

Value: 8

Description: Number of authors who created issues during last year. If today is 2017-02-01 then the range is from 2016-02-01 to 2017-02-01.

ITS issues updated last year

ID: ITS_UPDATED_1Y

Value: 65

Description: Number of issues updated during last year. If today is 2017-02-01 then the range is from 2016-02-01 to 2017-02-01.

SCM authors one year

ID: SCM_AUTHORS_1Y

Value: 35

Description: Total number of identities found as authors of commits in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

SCM Changed Lines one year

ID: SCM_MOD_LINES_1Y

Value: 231535

Description: Total number of changed lines (added, removed, changed) in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

SCM authors one month

ID: SCM_AUTHORS_1M

Value: 7 (4 / 5)

Description: Total number of identities found as authors of commits in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

Number of minor issues

ID: SQ_VIOLATIONS_MINOR

Value:

Description: The total number of issues (violations) found by SonarQube with a severity equal to MINOR. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Issues>.

CI information

ID: PROJECT_CI_INFO

Value: 0 (4 / 5)

Description: Is the continuous integration info correctly filled in the PMI records? The project management infrastructure file holds information about the location of CI services. This test checks the number of ci-related entries defined in the PMI.

Docs information

ID: PROJECT_DOC_INFO

Value: 6 (5 / 5)

Description: Is the documentation info correctly filled in the PMI records? The project management infrastructure file holds information about various documentation and manuals. This test checks the number of doc-related entries defined in the PMI: build_doc, documentation, documentation_url, forums, gettingstarted_url, mailing_lists, website_url, wiki_url.

Number of blocker issues

ID: SQ_VIOLATIONS_BLOCKER

Value:

Description: The total number of issues (violations) found by SonarQube with a severity equal to BLOCKER. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Issues>.

Number of forks

ID: PROJECT_FORKS

Value:

Description: The number of forks for this project. More forks usually mean a greater activity.

Number of functions

ID: SQ_FUNCS

Value:

Description: Number of functions. Depending on the language, a function is either a function or a method or a paragraph. For Java, constructors are considered as methods and accessors are considered as methods if the sonar.squid.analyse.property.accessors property is set to false. For Cobol, it is the number of paragraphs.

Commented code

ID: SQ_COM_CODE

Value:

Description: Commented lines of code See more information about commented code on SonarQube doc web site. There is a well-documented debate on Stack Overflow as well. For more information on comments for each language, see <https://docs.sonarqube.org/display/SONAR/Metrics+-+Comment+lines>.

Last activity

ID: PROJECT_LAST_ACTIVITY_AT

Value:

Description: The date of last activity for this project. This includes any type of action: changes on issues, git commits or pushes, merge requests, comments... A project with a old last activity timestamp shows the project is dead (or in agony at least).

Public documented API (%)

ID: SQ_PUBLIC_API_DOC_DENSITY

Value:

Description: Density of public documented API = (Public API - Public undocumented API) / Public API * 100

SCM access

ID: PROJECT_SCM_ACCESS

Value: 1 (5 / 5)

Description: Is the source_repo info correctly filled in the PMI records? The project management infrastructure file holds information about one or more source repositories. This test checks that at least one source repository is defined, and accessible.

Open issues

ID: PROJECT_ISSUES_OPEN

Value:

Description: The number of issues opened at the time of analysis on the GitLab project. This information is retrieved from GitLab itself, and may differ from numbers gathered from the actual issue tracking system used.

Duplicated lines (%)

ID: SQ_DUPLICATED_LINES_DENSITY

Value:

Description: Density of duplication = Duplicated lines / Lines * 100.

ITS issues created last week

ID: ITS_CREATED_1W

Value: 0

Description: Number of issues created during last week. If today is Wed. 2017-02-01 then the range is from Wed. 2017-01-25 to Wed. 2017-02-01.

MLS access

ID: PROJECT_MLS_ACCESS

Value: 1 (5 / 5)

Description: Is the communication channel for the team info correctly filled in the PMI records? The project management infrastructure file holds information about the various communication means used by the project. This test checks the number of MLS-related entries defined in the PMI: mailing lists, forums, etc.

Project Commits one month

ID: PROJECT_COMMITS_1M

Value:

Description: Total number of commits in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

SCM Changed Lines one week

ID: SCM_MOD_LINES_1W

Value: 804

Description: Total number of changed lines (added, removed, changed) in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

Contributing

ID: DOC_CONTRIBUTING

Value:

Description: Is the documentation info correctly filled in the PMI records? The project management infrastructure file holds information about various documentation and manuals. This test checks the number of doc-related entries defined in the PMI: build_doc, documentation, documentation_url, forums, gettingstarted_url, mailing_lists, website_url, wiki_url.

User ML Posts one week

ID: MLS_USR_POSTS_1W

Value: 15

Description: The total number of posts found in the User mailing list during last week. Having many posts shows the mailing list is active. It encourages people to participate, ask and answer questions.

Comment lines density

ID: SQ_COMR

Value:

Description: Density of comment lines = $\text{Comment lines} / (\text{Lines of code} + \text{Comment lines}) * 100$. With such a formula, 50% means that the number of lines of code equals the number of comment lines and 100% means that the file only contains comment lines For more information on comments for each language, see <https://docs.sonarqube.org/display/SONAR/Metrics+-+Comment+lines>.

ITS Open issues (%)

ID: ITS_OPEN_PERCENT

Value: 1

Description: Percentage of open issues compared to the overall number of issues registered in the system.

SCM information

ID: PROJECT_SCM_INFO

Value: 1 (4 / 5)

Description: Is the source_repo info correctly filled in the PMI records? The project management infrastructure file holds information about one or more source repositories. This test checks that at least one source repository is defined, and accessible.

Successful builds 1 week

ID: CI_BUILDS_SUCCESS_1W

Value:

Description: The number of builds with state success for the project during the last 7 days.

ITS issues created last year

ID: ITS_CREATED_1Y

Value: 10

Description: Number of issues created during last year. If today is 2017-02-01 then the range is from 2016-02-01 to 2017-02-01.

Stack Overflow Questions (5Y)

ID: SO_QUESTIONS_VOL_5Y

Value: 22

Description: The number of questions related to the project's tag posted on Stack Overflow during the last 5 years. Having many questions posted about the project indicates a strong interest from the community. The list of questions associated to the tag can be browsed on the Stack Overflow web site.

CI access

ID: PROJECT_CI_ACCESS

Value: 0 (4 / 5)

Description: Is the continuous integration info correctly filled in the PMI records? The project management infrastructure file holds information about the location of CI services. This test checks the number of ci-related entries defined in the PMI.

User ML Posts

ID: MLS_USR_POSTS

Value: 1677

Description: The total number of posts found in the User mailing list. Having many posts shows the mailing list is active. It encourages people to participate, ask and answer questions.

Total complexity

ID: SQ_CPX

Value:

Description: It is the complexity calculated based on the number of paths through the code. Whenever the control flow of a function splits, the complexity counter gets incremented by one. Each function has a minimum complexity of 1. This calculation varies slightly by language because keywords and functionalities do. For more information on complexity for each language, see <https://docs.sonarqube.org/display/SONAR/Metrics+-+Complexity>.

ITS information

ID: PROJECT_ITS_INFO

Value: 5 (5 / 5)

Description: Is the bugzilla info correctly filled in the PMI records? The project management infrastructure file holds information about one or more bugzilla instances. This test checks that at least one bugzilla instance is defined, with a product identifier, a create_url to enter a new issue, and a query_url to fetch all the issues for the project.

Number of red jobs

ID: CI_JOBS_RED

Value: 3

Description: The number of red (failed) jobs on the CI engine. Red jobs in CI define failed builds.

SCM Still Open Pull requests one year

ID: SCM_PRS_OPENED_STILL_1Y

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that have been opened more than one year ago and are still in the opened state in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

Number of comment lines

ID: SQ_COMMENT_LINES

Value:

Description: Number of lines containing either comment or commented-out code. Non-significant comment lines (empty comment lines, comment lines containing only special characters, etc.) do not increase the number of comment lines. For Java, file headers are not counted as comment lines (as they usually define the license). Lines containing the following instructions are counted both as comments and lines of code: AUTHOR, INSTALLATION, DATE-COMPILED, DATE-WRITTEN, SECURITY. For more information on comments for each language, see <https://docs.sonarqube.org/display/SONAR/Metrics++Comment+lines>.

Project committers one month

ID: PROJECT_COMMITTERS_1M

Value:

Description: Total number of identities found as committers of commits in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

SCM Commits one year

ID: SCM_COMMITS_1Y

Value: 919

Description: Total number of commits in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time

range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

Special files

ID: SC_SPECIAL_FILES

Value: 60

Description: Number of legal, license, readmes, manifests, copyright and other files for key, top-level files. Key files are top- level codebase files such as COPYING, README and package manifests as reported by the `-classify` option 'is_legal', 'is_readme', 'is_manifest' and 'is_top_level' flags.

Board transparency

ID: GOV_BOARD_PUBLIC

Value: 1 (5 / 5)

Description: Are the minutes of the board publicly available?

SCM Commits one month

ID: SCM_COMMITS_1M

Value: 44 (4 / 5)

Description: Total number of commits in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

Number of files

ID: SQ_FILES

Value:

Description: The total number of files analysed.

Maintainability rating

ID: SQ_SQALE_RATING

Value:

Description: Rating given to your project related to the value of your Technical Debt Ratio. The default Maintainability Rating grid is: A=0-0.05, B=0.06-0.1, C=0.11-0.20, D=0.21-0.5, E=0.51-1. The Maintainability Rating scale can be alternately stated by saying that if the outstanding remediation cost depends on the time that has already gone into the application: A <=5% , B between 6 to 10%, C between 11 to 20%, D between 21 to 50%, and anything over 50% is an E. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Maintainability>.

Number of jobs

ID: CI_JOBS

Value: 66

Description: The total number of jobs defined on the CI engine.

Project Commits one year

ID: PROJECT_COMMITS_1Y

Value:

Description: Total number of commits in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

SCM Merged Pull requests

ID: SCM_PRS_MERGED

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) in the 'merged' state in source code management repositories.

Successful builds 1 month

ID: CI_BUILDS_SUCCESS_1M

Value:

Description: The number of builds with state success for the project during the last month.

Branch coverage

ID: SQ_COVERAGE_BRANCH

Value:

Description: Branch test coverage.

SCM Changed Lines one month

ID: SCM_MOD_LINES_1M

Value: 4273 (5 / 5)

Description: Total number of changed lines (added, removed, changed) in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

Inclusion initiative

ID: OSS_INCLUSION

Value: 1 (5 / 5)

Description: Is there a formal procedure to help people join and benefit from the community, whoever they are? As an example

SCM Still Open Pull requests one month

ID: SCM_PRS_OPENED_STILL_1M

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that have been opened more than one month ago and are still in the opened state in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

Automatically generated files

ID: SC_GENERATED_VOL

Value: 135

Description: Number of files tagged as automatically generated, as detected by Scancode.

Project committers one year

ID: PROJECT_COMMITTERS_1Y

Value:

Description: Total number of identities found as committers of commits in source code management repositories dated during the last year. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). Time range is measured as a one year period starting the day before the data retrieval (example: if retrieval is on Feb 3rd 2016, period is from Feb 3rd 2015 to Feb 3rd 2016, both included).

Failed builds 1 month

ID: CI_BUILDS_FAILED_1M

Value:

Description: The number of builds with state failed for the project during the last month.

SCM Changed Lines

ID: SCM_MOD_LINES

Value: 7413337

Description: Total number of changed lines (added, removed, changed) in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date).

Total number of pipelines

ID: CI_PIPELINES_VOL

Value:

Description: The total number of pipelines listed in the GitLab Pipelines section. A pipeline is a group of builds that get executed in stages. See the GitLab documentation for more details.

User ML Authors one year

ID: MLS_USR_AUTHORS_1Y

Value: 51

Description: The total number of different identities found in the User mailing list during last year. Having many different authors is a sign of diversity and activity. It makes the support more reliable (i.e. increased presence of people) and more complete (i.e. more eyes to solve a problem).

Number of info issues

ID: SQ_VIOLATIONS_INFO

Value:

Description: The total number of issues (violations) found by SonarQube with a severity equal to INFO. For more information on maintainability metrics as computed by SonarQube, see <https://docs.sonarqube.org/display/SONAR/Metric+Definitions#MetricDefinitions-Issues>.

Total number of successful builds

ID: CI_BUILDS_SUCCESS

Value:

Description: The total number of builds with state success for the project.

User ML Threads

ID: MLS_USR_THREADS

Value: 1677

Description: The total number of threads (one question followed by zero or more answers) found in the User mailing list. Having many threads shows the mailing list is active. It encourages people to participate, ask and answer questions.

SCM Open Pull requests

ID: SCM_PRS_OPENED

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) in the opened state in source code management repositories.

SCM committers

ID: SCM_COMMITTERS

Value: 61

Description: Total number of identities found as committers of commits in source code management repository. Source code management repositories are those considered as such in the project documentation. Commits in all branches are considered. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). An identity is considered as committer if it appears as such in the commit record.

Failed builds 1 week

ID: CI_BUILDS_FAILED_1W

Value:

Description: The number of builds with state failed for the project during the last 7 days.

SCM Pull requests

ID: SCM_PRS

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) in source code management repositories. Source code management repositories are those considered as such in the project documentation.

Project committers one week

ID: PROJECT_COMMITTERS_1W

Value:

Description: Total number of identities found as committers of commits in source code management repositories dated during the last week. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'committer date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

Has licence

ID: SC_HAS_LICENCE

Value: 0 (4 / 5)

Description: The number of files considered as legal (i.e. licences), as detected by Scancode.

Line coverage

ID: SQ_COVERAGE_LINE

Value:

Description: Line test coverage.

User ML Authors one month

ID: MLS_USR_AUTHORS_1M

Value: 15 (5 / 5)

Description: The total number of different identities found in the User mailing list during last month. Having many different authors is a sign of diversity and activity. It makes the support more reliable (i.e. increased presence of people) and more complete (i.e. more eyes to solve a problem).

ITS access

ID: PROJECT_ITS_ACCESS

Value: 0 (4 / 5)

Description: Is the bugzilla info correctly filled in the PMI records? The project management infrastructure file holds information about one or more bugzilla instances. This test checks that at least one bugzilla instance is defined, with a product identifier, a create_url to enter a new issue, and a query_url to fetch all the issues for the project.

ITS issues updated last month

ID: ITS_UPDATED_1M

Value: 0 (1 / 5)

Description: Number of issues updated during last month. If today is 2017-02-01 then the range is from 2017-01-01 to 2017-02-01.

ITS issues created last month

ID: ITS_CREATED_1M

Value: 0

Description: Number of issues created during last month. If today is 2017-02-01 then the range is from 2017-01-01 to 2017-02-01.

Access information

ID: PROJECT_ACCESS_INFO

Value: 1 (3 / 5)

Description: Is the access info (downloads, update sites..) correctly filled in the PMI records? The project management infrastructure file holds information about how to access binaries of the project. This test checks the number of access-related entries defined in the PMI: download_url, downloads, update_sites.

Number of failed jobs one week

ID: CI_JOBS_FAILED_1W

Value: 3 (4 / 5)

Description: The number of jobs that failed during last week on the CI engine.

ITS diversity ratio

ID: ITS_DIVERSITY_RATIO_1Y

Value: 1 (1 / 5)

Description: The ration of bugs divided by the number of submitters, over a period of one year.

Has Readme

ID: SC_HAS_README

Value: 1 (5 / 5)

Description: The number of files considered as a readme, as detected by Scancode.

Governance documentation

ID: DOC_GOV

Value: 1 (5 / 5)

Description: Is there a documentation explaining how decisions are made?

MLS information

ID: PROJECT_MLS_INFO

Value: 1 (4 / 5)

Description: Is the communication channel for the team info correctly filled in the PMI records? The project management infrastructure file holds information about the various communication means used by the project. This test checks the number of MLS-related entries defined in the PMI: mailing lists, forums, etc.

Stack Overflow Answers (5Y)

ID: SO_ANSWERS_VOL_5Y

Value: 23

Description: The number of answers to questions related to the project's tag posted on Stack Overflow during the last 5 years. Having many answers posted about the project indicates a strong interest from the community, and a good support. The list of questions and their answers associated to the tag can be browsed on the Stack Overflow web site.

Stack Overflow Votes (5Y)

ID: SO_VOTES_VOL_5Y

Value: 5

Description: The total number of votes on questions related to the project's tag on Stack Overflow during the last 5 years. Having many votes on questions about the project indicates a strong interest from the community. The list of questions and their answers associated to the tag can be browsed on the Stack Overflow web site.

SCM Commits

ID: SCM_COMMITS

Value: 21228

Description: Total number of commits in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date).

User ML Authors one week

ID: MLS_USR_AUTHORS_1W

Value: 7

Description: The total number of different identities found in the User mailing list during last week. Having many different authors is a sign of diversity and activity. It makes the support more reliable (i.e. increased presence of people) and more complete (i.e. more eyes to solve a problem).

Getting started

ID: PROJECT_GETTINGSTARTED_INFO

Value: 1 (5 / 5)

Description: Is the documentation info correctly filled in the PMI records? The project management infrastructure file holds information about various documentation and manuals. This test checks the number of doc-related entries defined in the PMI: build_doc, documentation, documentation_url, forums, gettingstarted_url, mailing_lists, website_url, wiki_url.

User ML Posts one year

ID: MLS_USR_POSTS_1Y

Value: 494

Description: The total number of posts found in the User mailing list during last year. Having many posts shows the mailing list is active. It encourages people to participate, ask and answer questions.

Number of statements

ID: SQ_STATEMENTS

Value:

Description: Number of statements. For Java, it is the number of statements as defined in the Java Language Specification but without block definitions. Statements counter gets incremented by one each time a following keyword is encountered: if, else, while, do, for, switch, break, continue, return, throw, synchronized, catch, finally.. Statements counter is not incremented by a class, method, field, annotation definition, package declaration and import declaration. For Cobol, a statement is one of move, if, accept, add, alter, call, cancel, close, compute, continue, delete, display, divide, entry, evaluate, exitProgram, goback, goto, initialize, inspect, merge, multiply, open, perform, read, release, return, rewrite, search, set, sort, start, stop, string, subtract, unstring, write, exec, ibmXmlParse, ibmXmlGenerate, readyReset, mfCommit, mfRollback.

Test coverage

ID: SQ_COVERAGE

Value:

Description: Overall test coverage.

SCM Still Open Pull requests one week

ID: SCM_PRS_OPENED_STILL_1W

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that have been opened more than one week ago and are still in the opened state in source code management repositories. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one week period starting the day before the data retrieval.

SCM Branches

ID: SCM_BRANCHES

Value: 140

Description: Number of branches as returned by `git branch --all`.

Number of yellow jobs

ID: CI_JOBS_YELLOW

Value: 2

Description: The number of yellow (unstable) jobs on the CI engine. Yellow jobs in CI define unstable builds. According to CI's documentation, a build is unstable if it was built successfully and one or more publishers report it unstable. For example if the JUnit publisher is configured and a test fails then the build will be marked unstable.

Project authors one month

ID: PROJECT_AUTHORS_1M

Value:

Description: Total number of identities found as authors of commits in source code management repositories dated during the last month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

SCM Staled Open Pull requests one month

ID: SCM_PRS_OPENED_STALED_1M

Value:

Description: Total number of Pull Requests (PRs) or Merge Requests (MRs) that are in the opened state and have not been updated since one month. Source code management repositories are those considered as such in the project documentation. Date used for each commit is 'author date' (when there is a difference between author date and committer date). Time range is measured as a one month period starting the day before the data retrieval (example: if retrieval is on Feb 3rd, period is from Jan 3rd to Feb 2nd, both included).

User ML Authors

ID: MLS_USR_AUTHORS

Value: 427

Description: The total number of different identities found in the User mailing list. Having many different authors is a sign of diversity and activity. It makes the support more reliable (i.e. increased presence of people) and more complete (i.e. more eyes to solve a problem).

User ML Threads one month

ID: MLS_USR_THREADS_1M

Value: 14 (4 / 5)

Description: The total number of threads (one question followed by zero or more answers) found in the User mailing list during last month. Having many threads shows the mailing list is active. It encourages people to participate, ask and answer questions.

ITS Pending issues

ID: ITS_OPEN_UNASSIGNED

Value: 0

Description: Number of issues in state open with no assignee (i.e. pending). It is considered to be good practice to keep this number low. In an active project, people would either work on the bug (i.e. assign it) or triage it (pass it to some other state or assigning it).

Attributes

Mnemo	Value
QM_ACTIVITY	3.60
QM_AGG_COLLAB	4.80
QM_AGG_DECISIONS	5.00
QM_AGG_DOC	4.50
QM_AGG_ENGAGEMENT	2.50
QM_AGG_ETHICS	4.70
QM_AGG_IP	3.50
QM_AGG_OPENNESS	4.70
QM_AGG_OSS_CORE	4.70
QM_DIVERSITY	3.30
QM_DOC	4.20
QM_ECOSYSTEM	3.50
QM_PROCESS	4.00
QM_QUALITY	4.10
QM_REL_ENG	4.50
QM_SCM	4.00
QM_SUPPORT	3.30

Activity

ID: QM_ACTIVITY

Value: 3.6 / 5

Description: The activity of the project's ecosystem, as measured on the mailing lists and configuration management system. An active project will provide a lot of information on the mailing lists, so when an user encounters an issue she will quickly find the information she needs, and has more chances to get answers if she asks. Fixes and improvements are added regularly.

Collaboration

ID: QM_AGG_COLLAB

Value: 4.8 / 5

Description: Are the required pieces of basic documentation available?

Decisions

ID: QM_AGG_DECISIONS

Value: 5 / 5

Description: How public and open is the project's decision-making process?

Information

ID: QM_AGG_DOC

Value: 4.5 / 5

Description: Is the project well documented?

Engagement

ID: QM_AGG_ENGAGEMENT

Value: 2.5 / 5

Description: How the community is invited to participate, and how much is it heard when talking?

Ethics

ID: QM_AGG_ETHICS

Value: 4.7 / 5

Description: Is the project compliant regarding OSS' ethics?

Intellectual Property Management

ID: QM_AGG_IP

Value: 3.5 / 5

Description: How is intellectual property handled in the project? Is there an IP log? Are the project and the Eclipse Foundation safe regarding IP?

Openness

ID: QM_AGG_OPENNESS

Value: 4.7 / 5

Description: Is the project open and transparent?

OSS Core

ID: QM_AGG_OSS_CORE

Value: 4.7 / 5

Description: The conformance of the project to the core Open-Source Software principles and good practices.

Diversity

ID: QM_DIVERSITY

Value: 3.3 / 5

Description: The diversity of the project's ecosystem, as measured on the mailing lists and configuration management system. If many different actors from different companies are involved in the project, then it improves its sustainability (by eliminating a single point of failure) and adaptability to different situations. Having developers and users with different contexts and perspectives on the project helps widening its scope and provide a more generic support.

Documentation

ID: QM_DOC

Value: 4.2 / 5

Description: The maturity of code. Good code is vital for maintenance and evolution. It will encourage people to contribute, lower the number of bugs, and make a better product for the end-user as well as for the maintainers.

Ecosystem

ID: QM_ECOSYSTEM

Value: 3.5 / 5

Description: The sustainability of the ecosystem evolving around the project. Sustainability is a key point for long term support. If there is a lot of activity, if people can get fast and complete answers, if many people from different companies contribute to the project, then it will have more chance to still be there in a few years, and to continue providing fixes and improvements. Ecosystem requirements have been discussed on the mailing list and during meetings, and have been further described on the Polarsys wiki.

Process

ID: QM_PROCESS

Value: 4 / 5

Description: The maturity of the process used to run the project. A sound process helps people to do things right and ease collaborative work. If the process is documented, has predictable output, helps enforcing good development practices, etc. then new comers will easily find the information to collaborate, test or change code, or participate in the community. A good process also helps producing a good product [[Ing2003](/documentation/references.html#Ing2003)] – although it is agreed that the process is not enough by itself. Process requirements have been discussed on the mailing list and during meetings, and have been further described on the Polarsys wiki. Some may also recognise CMMi Key Process Areas among the attributes.

Eclipse Maturity

ID: QM_QUALITY

Value: 4.1 / 5

Description: The overall Maturity of the project. In the context of embedded software, Maturity is usually associated with some kind of reliability (most bugs have been already found) and functionality of code, sustainability of the project (will it still deliver fixes and improvements in a few years), and process predictability. Maturity in the PolarSys context has been further described on the wiki, and is actually precisely defined by the decomposition of this quality model.

Build and Release Management

ID: QM_REL_ENG

Value: 4.5 / 5

Description: Does the project apply best practices regarding Build and Release management?

Configuration Management

ID: QM_SCM

Value: 4 / 5

Description: The maturity of the project regarding access and usage of the configuration management system. Configuration management is an essential part of the collaboration in the project. Access to the source should be documented and facilitated for new comers to easily come in.

Support

ID: QM_SUPPORT

Value: 3.3 / 5

Description: The amount of knowledge provided when someone asks for support. Having many answers on a single question helps better understand how the product works in different conditions, and also provides help for people looking for a similar information later on, since mailing lists are archived and public.

Git analysis

```
## Error in as.POSIXct.default(evolve$date): do not know how to convert 'evolve$date' to class "POSIXct"
```

The repository contains a total of 0 commits made by 146 authors. The first commit was made on the 47553759ba5f47d5594b0a966bc2cbc2055e40f5 and the last analysed commits was made on 930082c49993547b51fdf0901fde14cd17b7e26c.

During the last month, there has been 44 commits made by 7 authors.

Weekly commits

```
## Error in FUN(X[[i]], ...): object 'evolve_xts' not found
```

```
## Error in is.xts(x): object 'evolve_xts' not found
```

```
## Error in ggplot(evolve_xts_commits, aes(x = index(evolve_xts_commits), y = commits)): object 'evolve_xts_c
```

Weekly authors

```
## Error in is.xts(x): object 'evol_xts' not found
```

```
## Error in ggplot(evol_xts_authors, aes(x = index(evol_xts_authors), y = authors)): object 'evol_xts_a
```