
Announcement

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How is your code health

As a developer, usually I'm concerned about how my code health is, and how the other coders code can affect to my own work. And I'm quite sure most of us feel very similar.

In our company we use a Static Code Analysis tool to analyze code for different languages to ensure we are writing high quality and easily maintainable code by following a few best practices in terms of code structure and content. And the question was: why should be different for Caché ObjectScript language?

objectscript_Q

Given lack of support from any popular Static Code Analysis tools, we developed a Caché ObjectScript analyzer which can be deployed on your preferred SCA tool. We decided to deploy on SonarQube by default, and take advantage of the features in the platform "just" feeding our analysis results:

- Centralized dashboard to manage hundreds of projects
- Rule-Based defect detection
- Mechanism to track issues raised against coding rules
- Configurable Quality Profiles to create rulesets that provide the right level of analysis depending on the type of project and the quality objectives
- Drilldowns, hotspots and other hunting services
- Comparison with various versions of software
- Quickly identify addition of new technical debt
- Avoid Duplicated Code
- Keep Code Complexity Low
- Enforce Coding Standards
- Eradicate Bugs
- ... and much more

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The screenshot shows the cacheQuality application interface. On the left, there's a sidebar with filters for 'Type' (Bug: 27, Vulnerability: 13, Code Smell: 7,603) and 'Resolution' (Unresolved: 5,975, Fixed: 1,453, False Positive: 12, Won't fix: 45, Removed: 158). The main content area displays a list of issues for 'my-sample-project' and 'Content.cls'. The issues include:

- 4 more comment lines need to be written to reach the minimum threshold of 25.0% comment density. (Code Smell, Major, Open, Not assigned, 8min effort)
- This class only contains class methods; make it abstract? (Code Smell, Info, Open, Not assigned, 5min effort)
- Prefer using \$ZDATE instead of \$ZD (Code Smell, Info, Open, Not assigned, 5min effort)
- Prefer using \$ZDATETIME instead of \$ZDT (Code Smell, Info, Open, Not assigned, 5min effort)
- Consider a redesign to avoid the use of \$PARAMETER (Code Smell, Critical, Reopened, Not assigned, 1d effort)
- 32 more comment lines need to be written to reach the minimum threshold of 25.0% comment density. (Code Smell, Major, Open, Not assigned, 1h4min effort)
- This class only contains class methods; make it abstract? (Code Smell, Info, Open, Not assigned, 5min effort)
- Argument definition Obj does not declare its type (Code Smell, Major, Open, Not assigned, 10min effort)
- Method declares too many variables (11 > 10) (Code Smell, Major, Open, Not assigned, 2d effort)
- Variable data is implicitly created but has no forward declaration; consider declaring it with #dim (Code Smell, Minor, Open, Not assigned, 2min effort)

It's some time since we released our first version of [cacheQuality](#), and we are glad today it has a high mature degree on the market. Also, now you can obtain your [subscription or license directly from the website](#).

We will appreciate you explain us your code analysis needs and expectations, so we can explain how cacheQuality can help your development team in your context.

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