

SONAR CODE QUALITY TOOL

DevOps Training

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CLEAN CODE

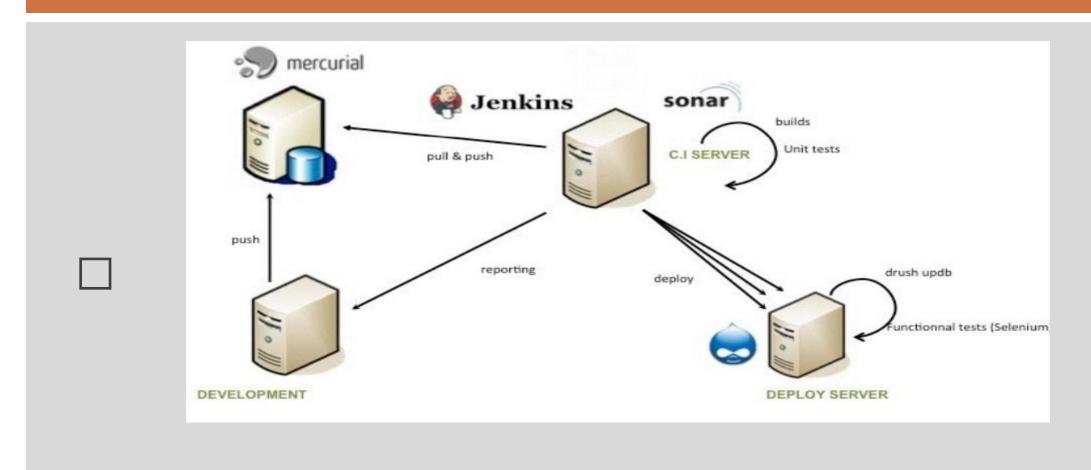
Readable

Acceptable by You

Acceptable by Team

Acceptable by Other

Sonar reporting



TOUCHABLE

Coding Rules –

Complexity –

Duplicated Code -

Potential Bugs -

Tests Coverage –

Architecture Design -

Comment

What is Sonar?

"Sonar is the central place to manage code quality, offering visual reporting on and across projects and enabling to replay the past to follow metrics evolution" Sonar? source:

http://www.sonarsource.org/

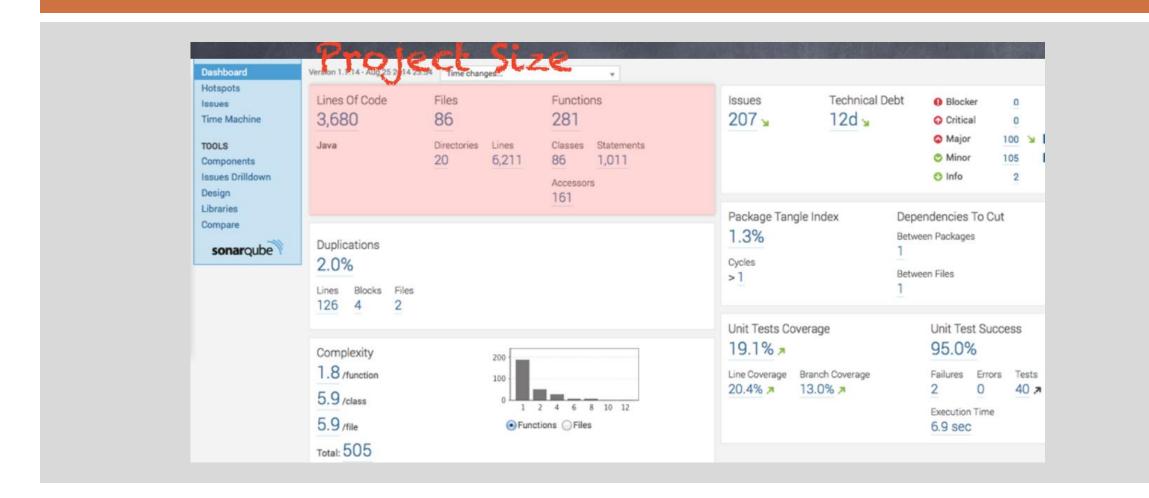
What is SonarQube?

An open web-based application platform to manage code quality

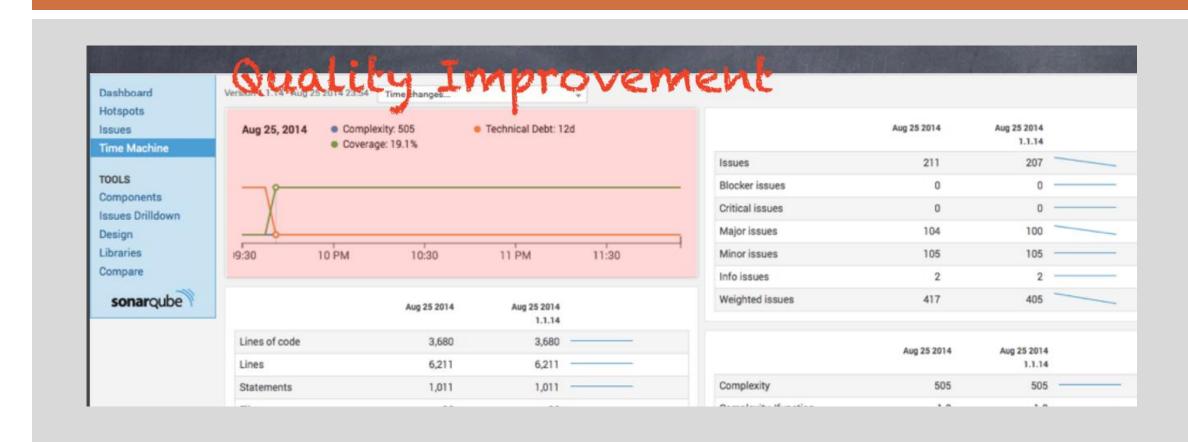
LANGUAGE SUPPORT



REPORT LOOKS LIKE



QUALITY IMPROVEMENT



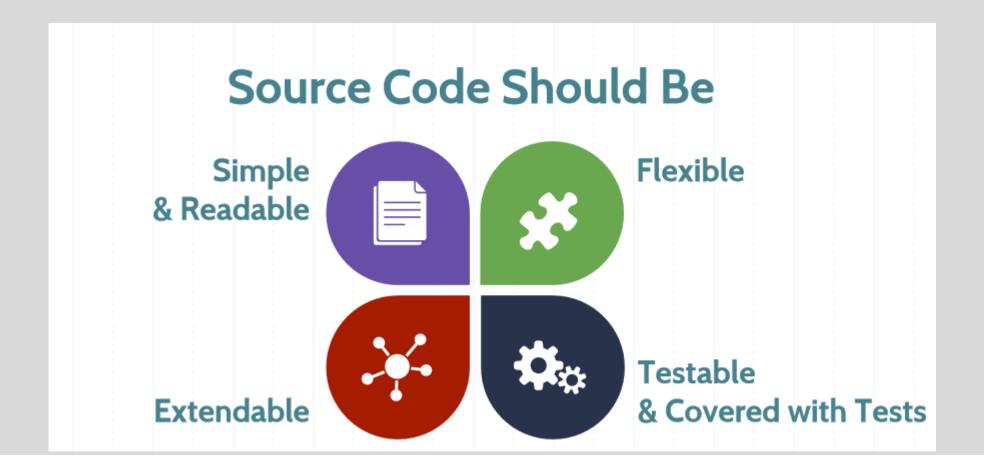
PROFILE ACTIVATION

```
ofiles>
        cprofile>
            <id>sonar</id>
            <activation>
                <activeByDefault>true</activeByDefault>
            </activation>
            cproperties>
                <sonar.jdbc.url>jdbc:h2:tcp://localhost:9092/sonar</sonar.jdbc.url>
                <sonar.jdbc.username>sonar</sonar.jdbc.username>
                <sonar.jdbc.password>sonar</sonar.jdbc.password>
                <sonar.host.url>http://localhost:9000</sonar.host.url>
            </properties>
            <repositories>
                <repository>
                    <id>Sonar (snapshots)</id>
                    <url>http://oss.sonatype.org/content/repositories/snapshots</url>
                </repository>
            </repositories>
        </profile>
    </profiles>
</settings>
```

LOW QUALITY CODE



How source code should be?



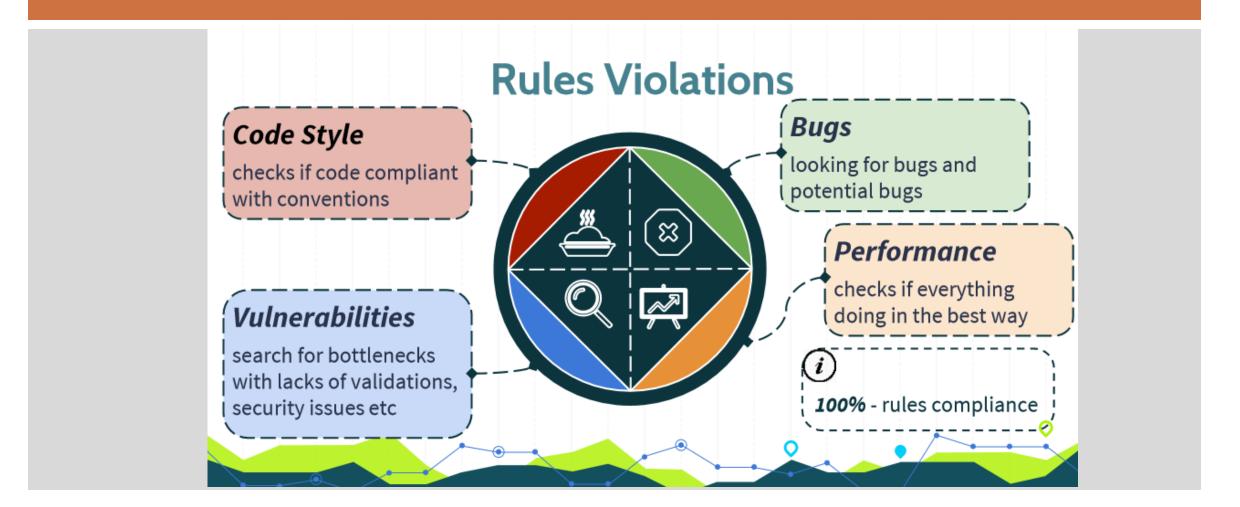
CODE METRICS



CODE METRICS



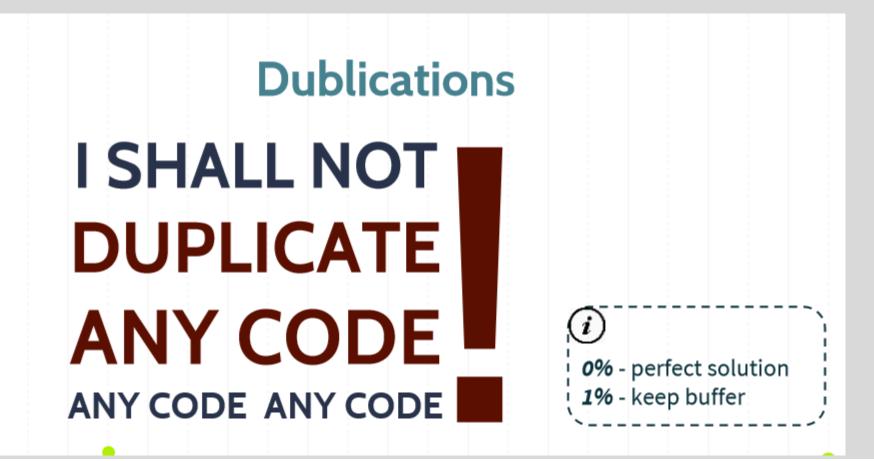
RULES



CODE COVERAGE



CODE DUPLICATIONS

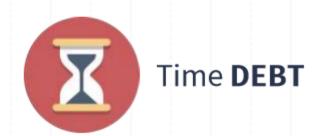


TECHNICAL DEBT

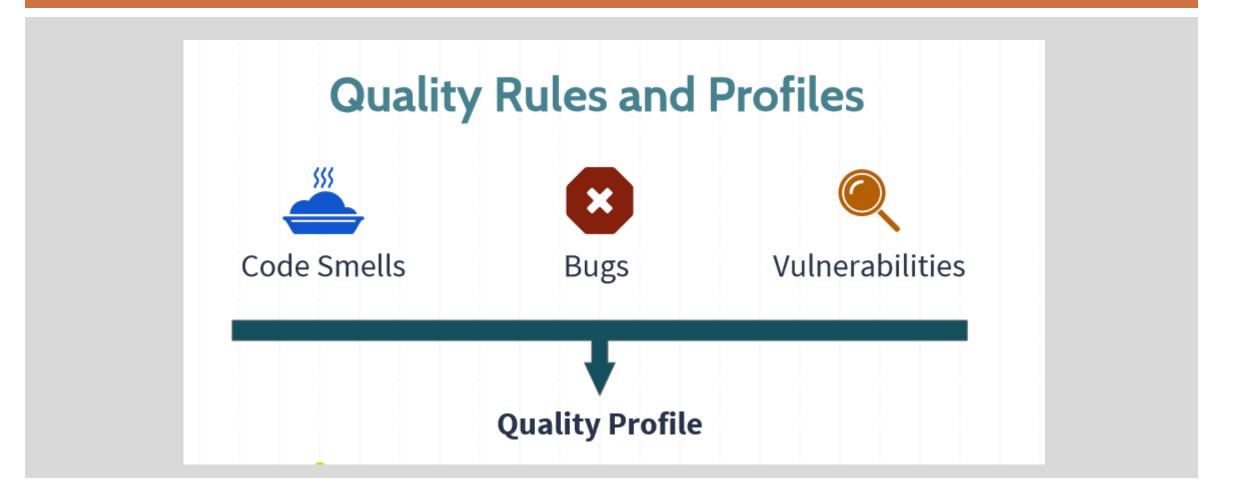
Technical Debt



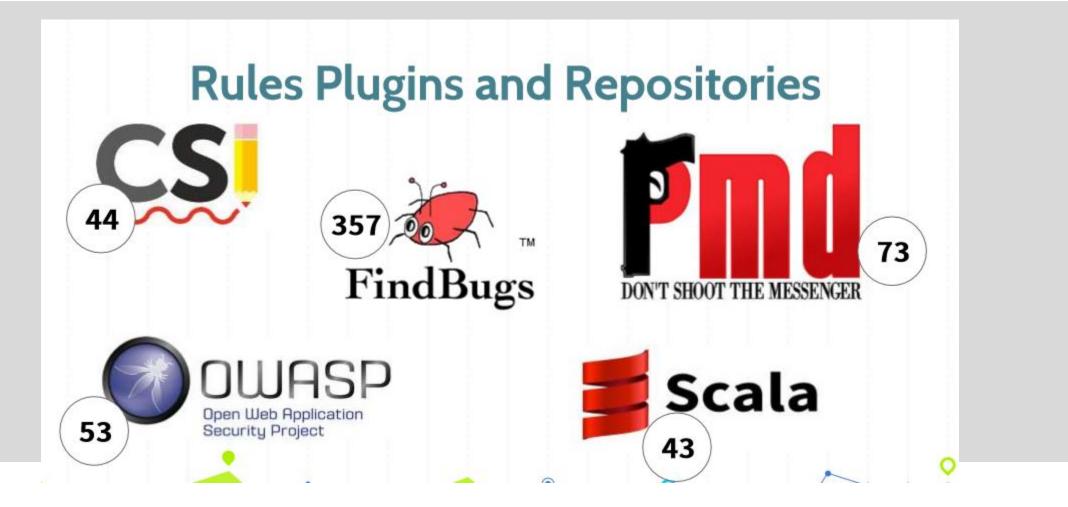
Extra development work, that rises with not clear code.



QUALITY PROFILES



RULES AND RULES



Quality gates

Quality Gates

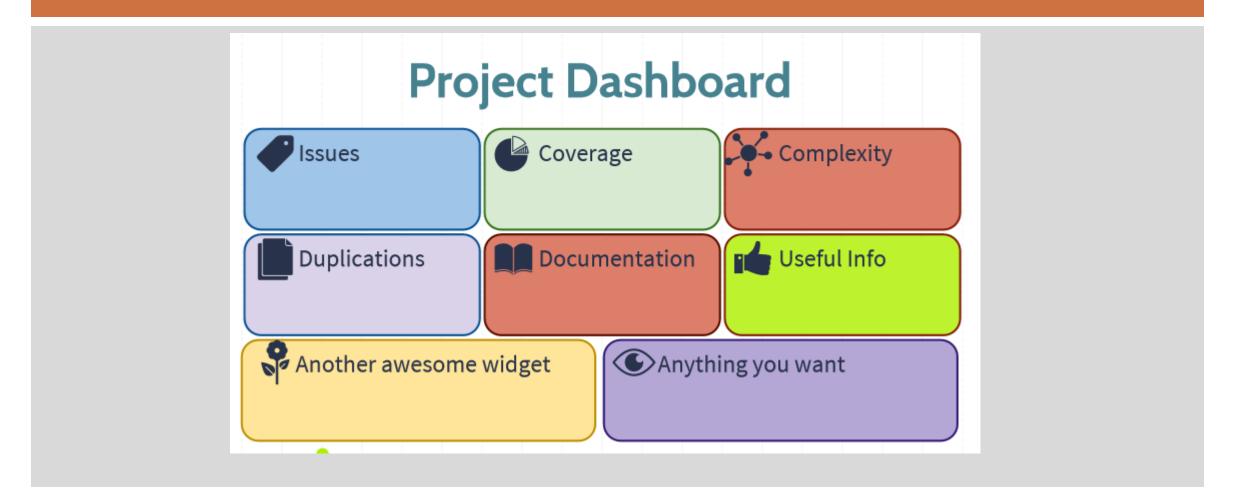
Set of boolean conditions per project, based on measure thresholds.

- Passed
- **A** Warning
- **▼** Failed

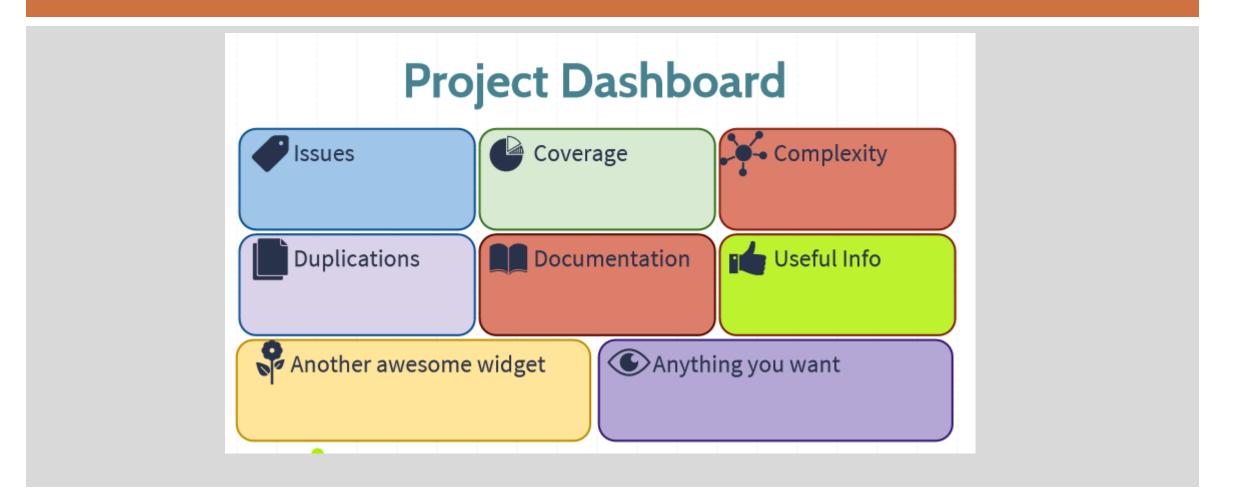
Quality gates

	Quality Gates		
Metric	Operator	A	8
Open Issues	Is greater than	70	100
Blocker Issues	Is greater than		0
Critical Issues	Is greater than		0
New Issues	Is greater than	0	10
Overall Coverage	Is less than	85	80
Unit Test Failures	Is greater than		0

Project Dashboard



Project Dashboard





THANK YOU!

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