

**TECHNICAL DEBT
MANAGEMENT
WITH
CABL AND
SONARQUBE**

GILLES QUERRET • RIVERSIDE SOFTWARE

ABOUT THE SPEAKER

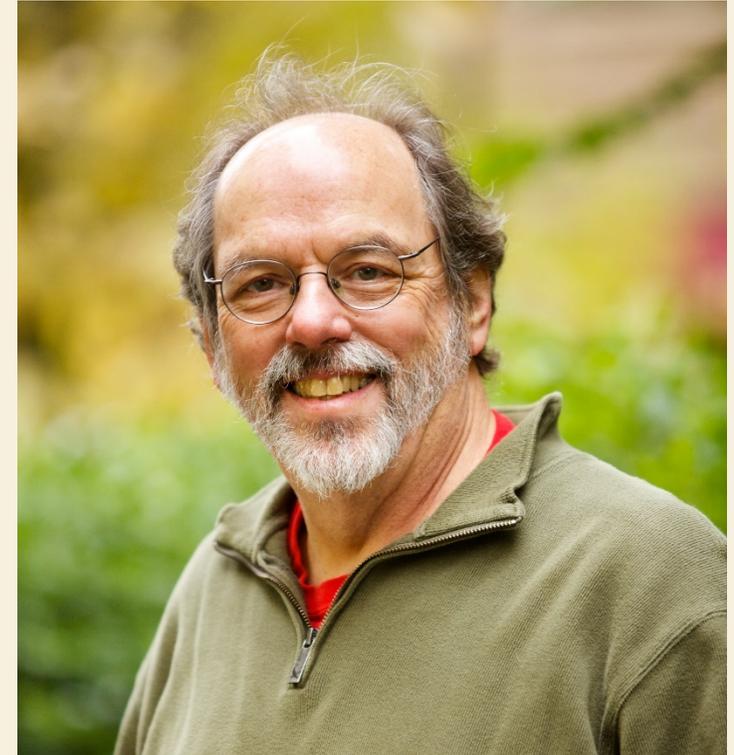
- Pronounced \ʒil.ke.ʁe\
- Founded Riverside Software in 2007
- Continuous integration and source code analysis in OpenEdge

TECHNICAL DEBT

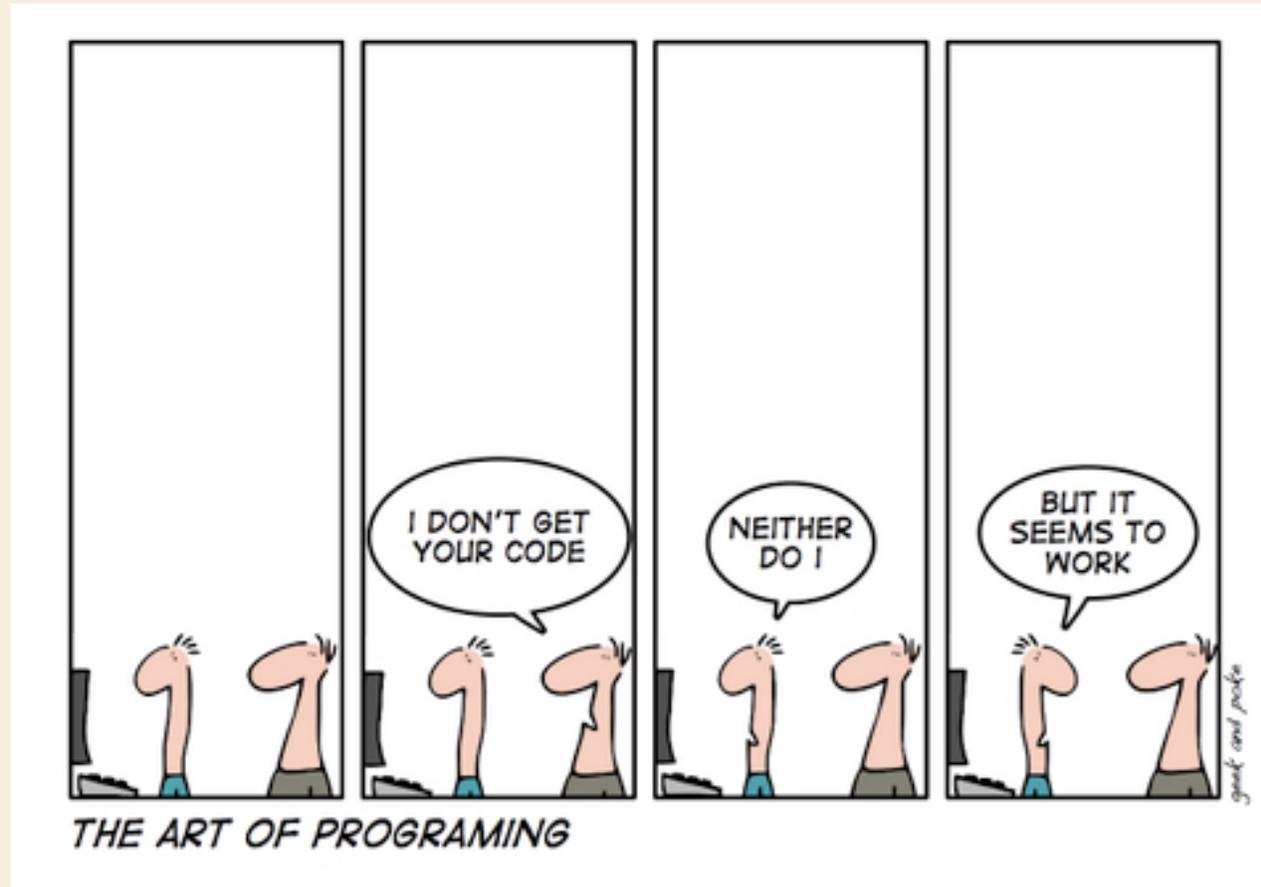
Ward Cunningham (1992)

Metaphor around the time it takes to work with low quality code :

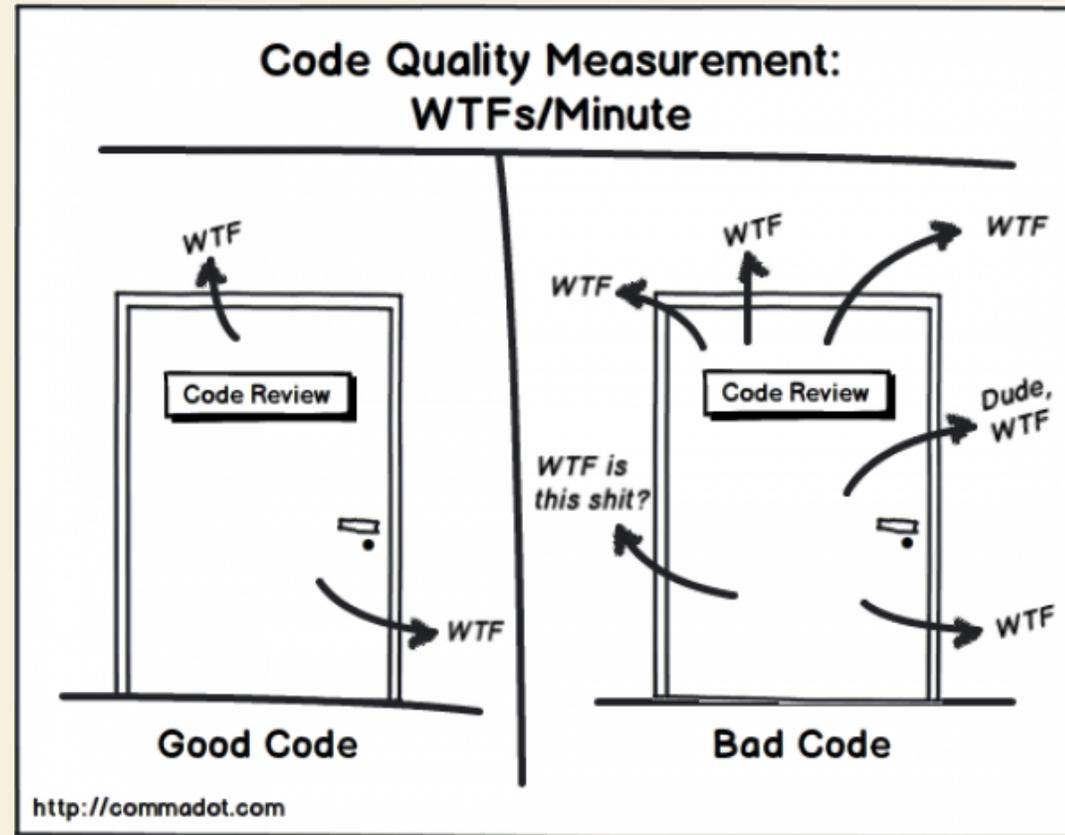
- If technical debt is high, you'll pay high interest (in terms of time spent) each time you work on the project
- Pay down the principal by refactoring code
- Increase the debt if you add quick and dirty code



CODE QUALITY

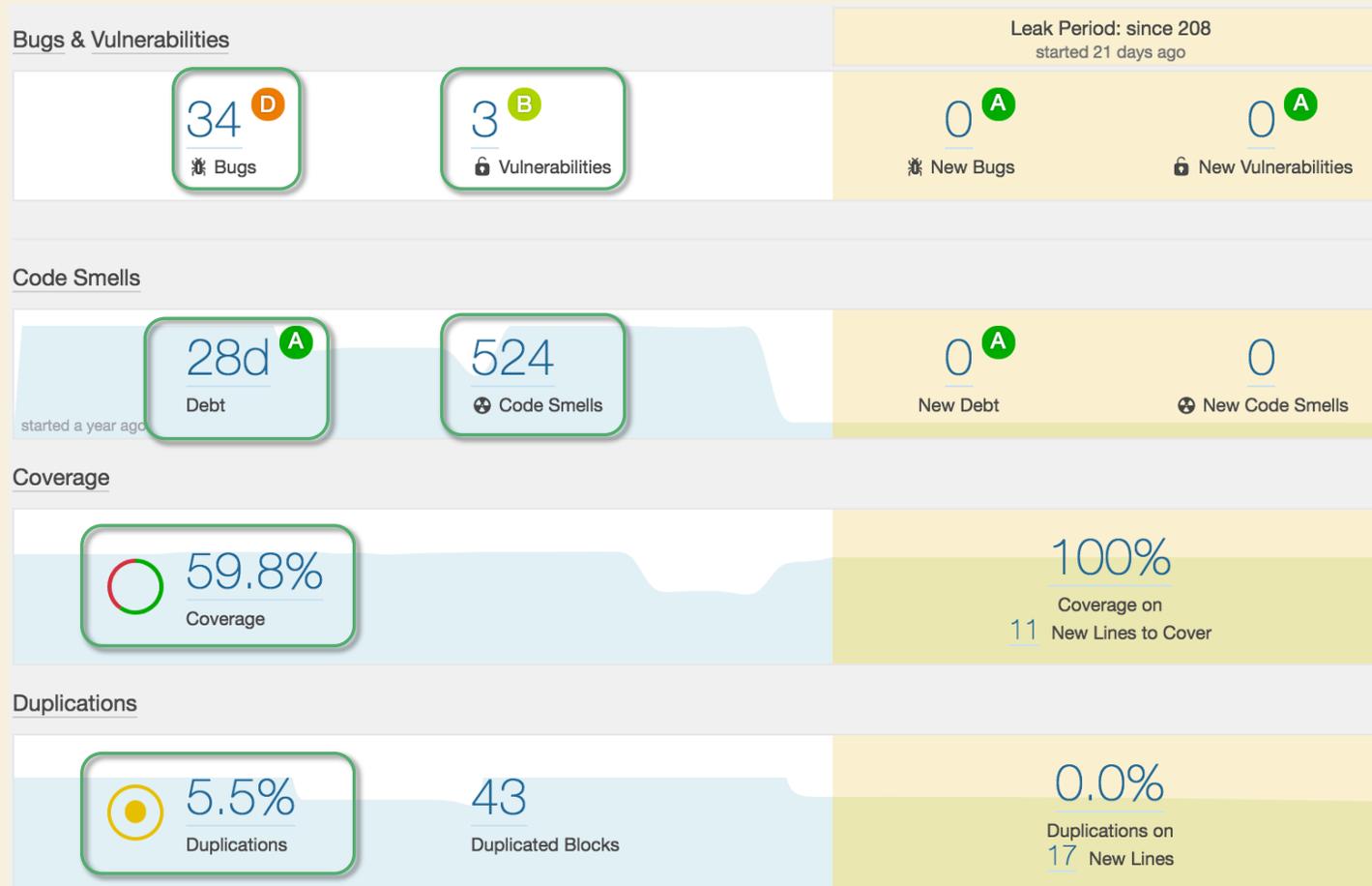


CODE QUALITY





- Code quality management platform
- Open source
- Extensible
- Over 20 languages (from COBOL to Javascript through C++)



FIRST ANALYSIS

☆ [Secret project](#)

Failed

Last analysis: April 30, 2019, 8:51 AM

10k **D**
🐛 Bugs

2 **D**
🔒 Vulnerabilities

99k **C**
☢️ Code Smells

—
Coverage

🎯 4.6%
Duplications

2m **XL**
OpenEdge, XML

SO WHAT CAN I DO ?



SO WHAT CAN I DO ?



SO WHAT CAN I DO ?



FIX THE LEAK

Bugs & Vulnerabilities

12 ^C

Bugs

5 ^D

Vulnerabilities

Leak Period: last 30 days
started a month ago

0

New Bugs

0

New Vulnerabilities

Code Smells

8d ^A

Debt

started a year ago

410

Code Smells

2h

New Debt

9

New Code Smells

Coverage



96.4%

Coverage

1.7k

Unit Tests

97.6%

Coverage on
733 New Lines to Cover

CABL

- Open-source plugin for SonarQube
 - Preprocessor + parser, metrics, code duplication, ABL warnings, XREF, code highlighting, extensible rules engine, sample rules
- Commercial rules package available from Riverside Software
 - Around 80 rules
 - Code coverage functionality
- Easy integration in a continuous integration environment
- SonarLint, on-the-fly code analysis in PDSOE



DEMO

QUESTIONS ?

REFERENCE ?

- Sonar Source : <http://www.sonarsource.com>
- Sonar OE plugin demo site : <http://sonar.riverside-software.fr>
- Riverside Software : <http://riverside-software.fr>
- Contact : contact@riverside-software.fr