Defining Software Intelligence

Software intelligence

From Wikipedia, the free encyclopedia

Software Intelligence is insight into complex software structure produced by software designed to analyze database structure, software framework and source code to better understand and control complex software systems in Information Technology environments.[1] Similarly to Business Intelligence (BI), Software Intelligence is produced by a set of software tools and techniques for the mining of data and software inner-structure. End results are information used by business and software stakeholders to make informed decisions, communicate about software health, measure efficiency of software development organizations, and prevent software catastrophes.[2]

Software Health

Robustness, Efficiency, Security, Changeability, Transferability, Complexity risks and Cloud Readiness

Software Size

Functional and technical sizing to assess quantity of work

Software Flaws

Engineering patterns that create potential outages, security breaches, and data corruption

Software Blueprints

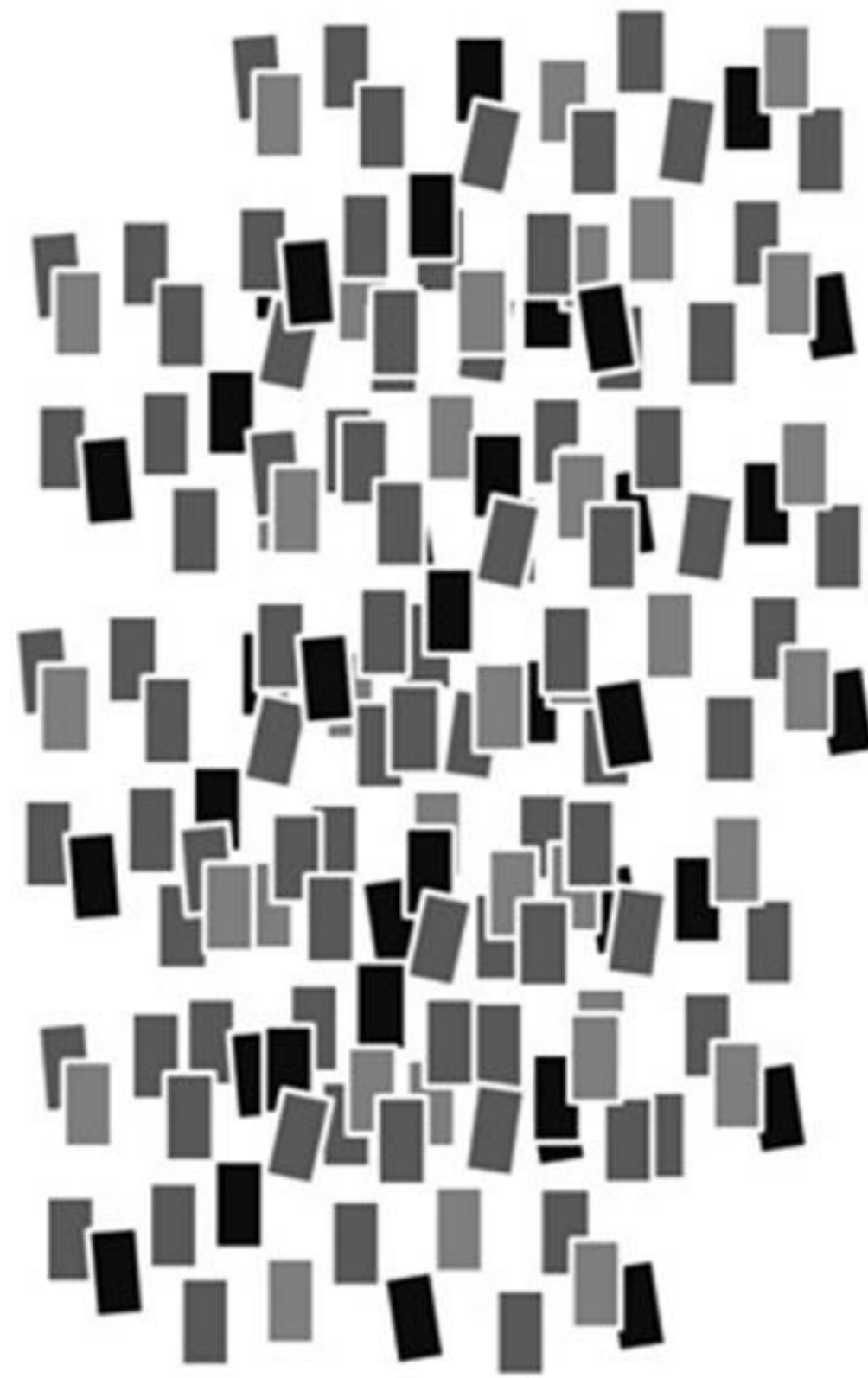Map and visualize software structure and architecture

Software Benchmarks

Accurate, consistent analytics by industry and geo, normalized by functional size, based on structural data from thousands of software systems

2 levels of Software Intelligence
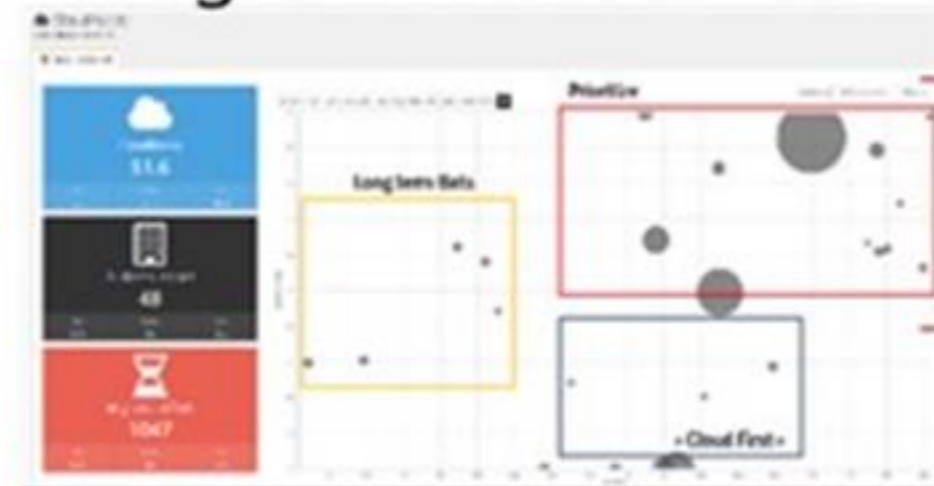
Portfolio Intelligence

Inventory & Structure

Understand & Analyze

Segment & Prioritize

Application Intelligence
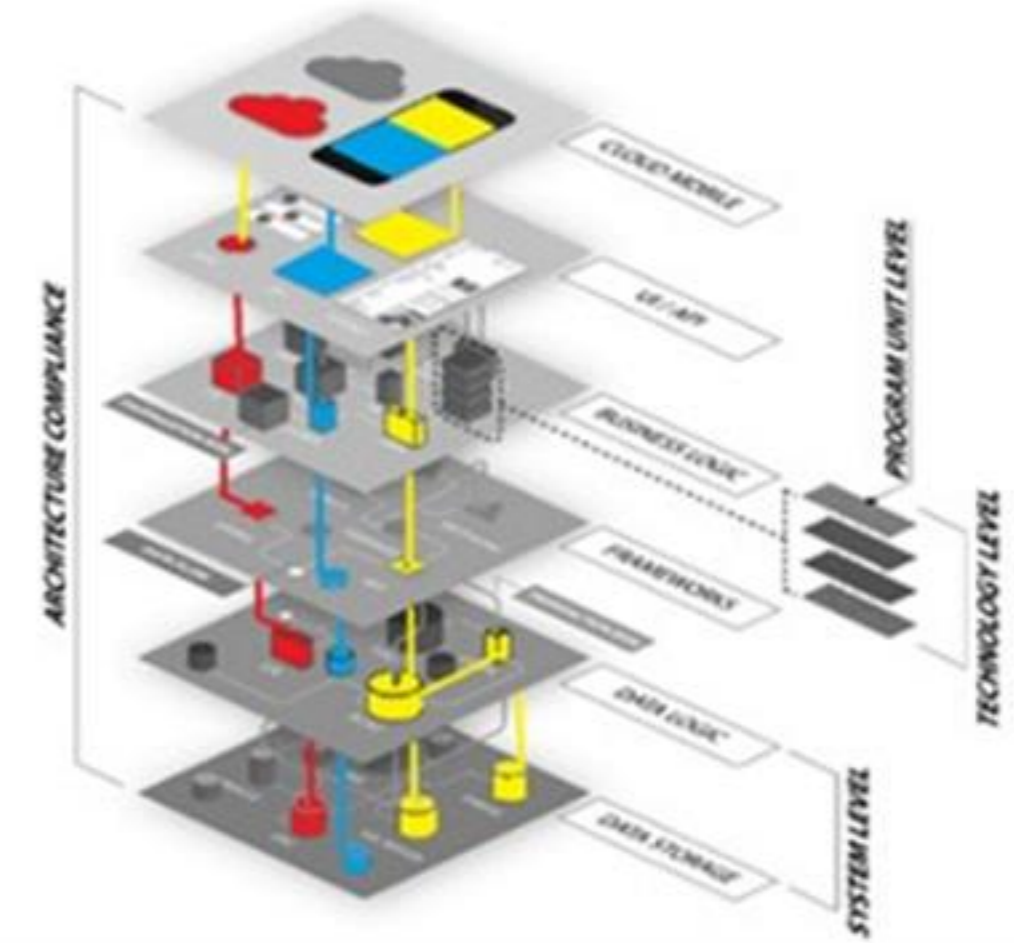
Software Composition Analysis at portfolio level

- Highlight visualizes version timelines (and CVEs) of millions of open source projects to help development team decide the best upgrade path easily.
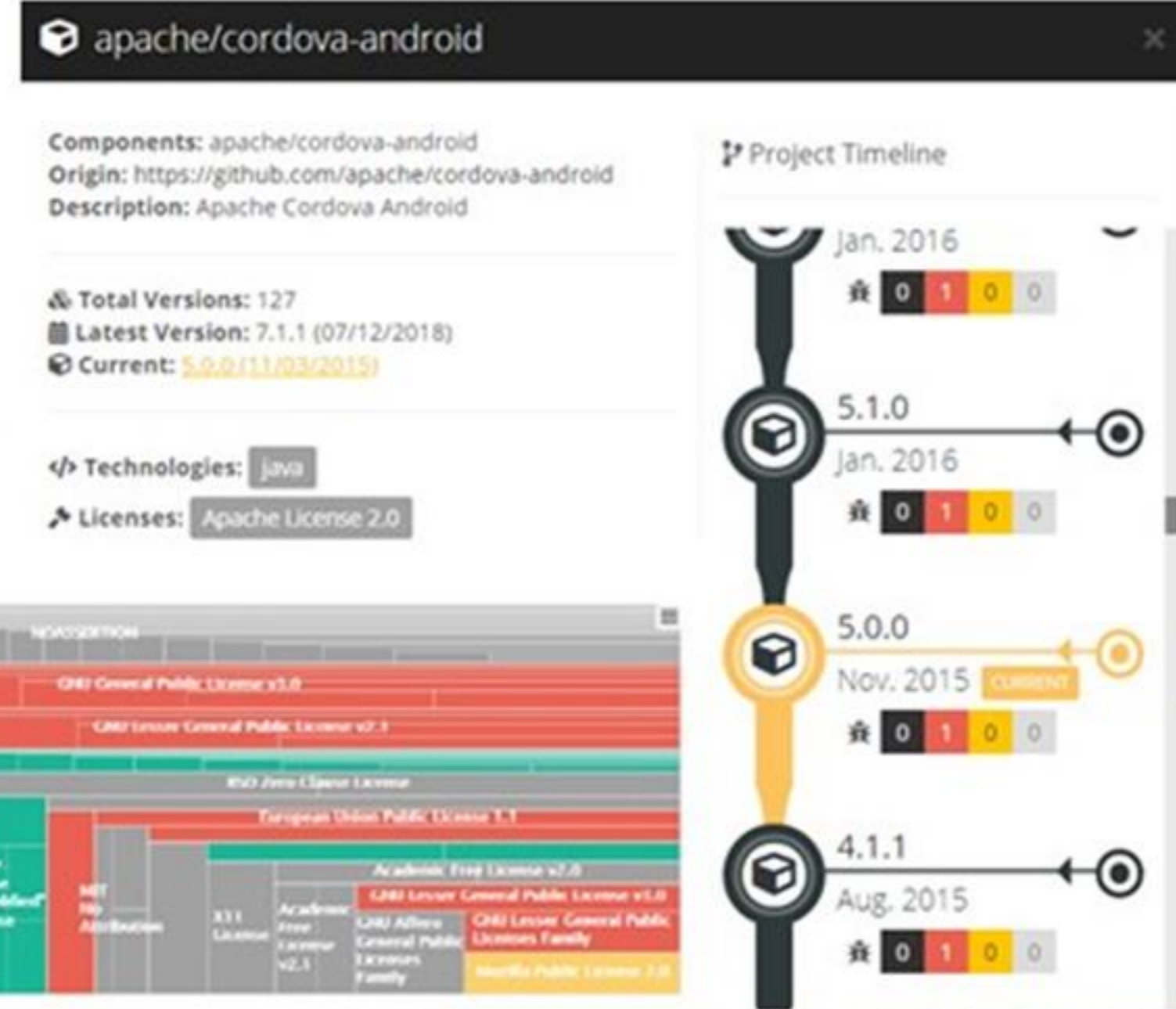
Structural security static analysis

- CAST is named a Strong Performer in Static Application Security Testing by Forrester Wave™: Static Application Security Testing, Q4 2017
  - With higher value of **Accuracy** and higher number of **Technologies** analyzed.

Software Intelligence in VM

- CISQ conforms to ISO 25010 quality characteristic definitions

SOFTWARE PRODUCT QUALITY

Functional Suitability	Performance Efficiency	Compatibility	Usability	Reliability	Security	Maintainability	Portability
• Functional Completeness • Functional Correctness • Functional Appropriateness	• Time Behaviour • Resource Utilization • Capacity	• Co-existence • Interoperability	• Appropriateness Recognizability • Learnability • Operability • User Error Protection • User Interface Aesthetics • Accessibility	• Maturity • Availability • Fault Tolerance • Recoverability	• Confidentiality • Integrity • Non-repudiation • Authenticity • Accountability	• Modularity • Reusability • Analysability • Modifiability • Testability	• Adaptability • Installability • Replaceability

- CAST is the only SAM solution that inspects and verifies software in accordance to CISQ's recommendations

AGID suggests to use OMG/CISQ standard in PA contracts.

Agenzia per l'Italia Digitale
Presidenza del Consiglio dei Ministri

Guida tecnica all'uso di metriche per il software applicativo sviluppato per conto delle pubbliche amministrazioni

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Software Intelligence for Digital Leaders