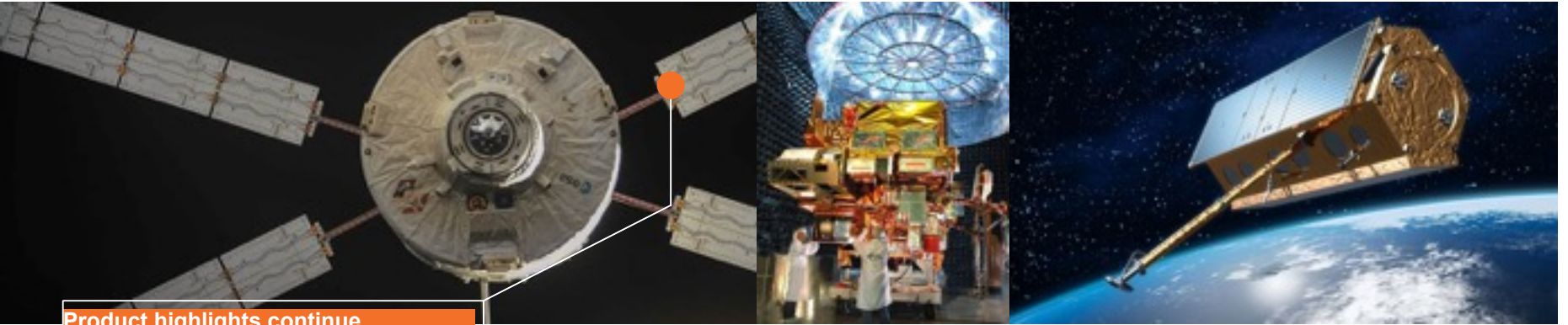
The background of the slide is a night sky featuring the Milky Way galaxy. In the foreground, there are several large satellite dishes and other ground station equipment silhouetted against the starry sky. The overall color palette is dark blue and black with white stars.

Return of the Code Quality Inquisition CON3258

JavaOne 2015 San Francisco, 25-29.10.2015

Space Systems



Product highlights continue

Earth Observation, Navigation and Science satellites and spacecraft, probes and rovers. Design and production of Earth Observation, Navigation and Science satellites. Leveraging a wide range of highly versatile satellite systems, optical and microwave instruments; ground segment.

Telecom satellites. Tailored solutions for a full range of missions, from fixed services and broadcast to mobile and broadband applications. Total satellite communications system capability: from design, manufacture, test, launch and operations to the provision of complete communications system infrastructure.

Defence. We deliver a full range of space-based security and defence systems and services for reconnaissance and surveillance, secure communications, early warning, and ballistic defence.

Propulsion. Rocket engines, complete space propulsion systems, sub-systems and components.

About Me

- System Engineer @ Airbus Defence & Space



- Founder and Leader of JUG Bodensee



- Member of NetBeans Dream Team



- NetBeans Community Acceptance Testing (NetCAT)



- Duke's Choice Award Winner



- Java One Content Committee



- Java Champion



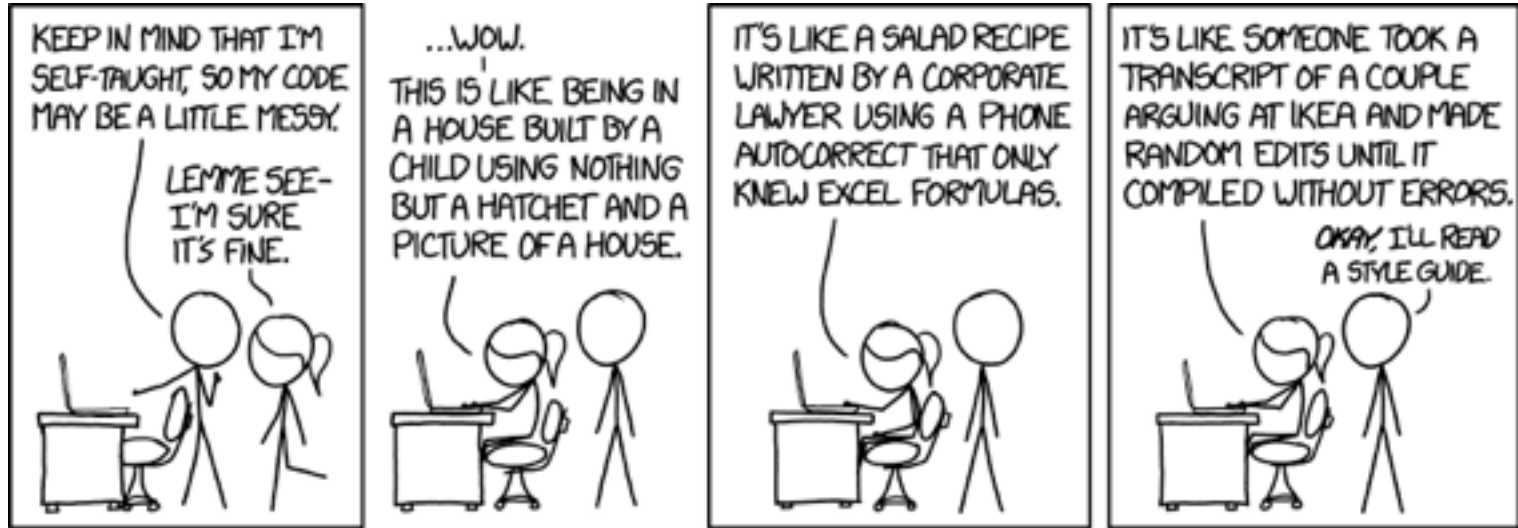
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Code Quality - What? Why?

Code Quality 101



<http://xkcd.com/1513/>

It is not only about style ...

... it is all about Quality

... it is all about Stability

... it is all about Maintainability

How do we Achieve Code Quality Today?

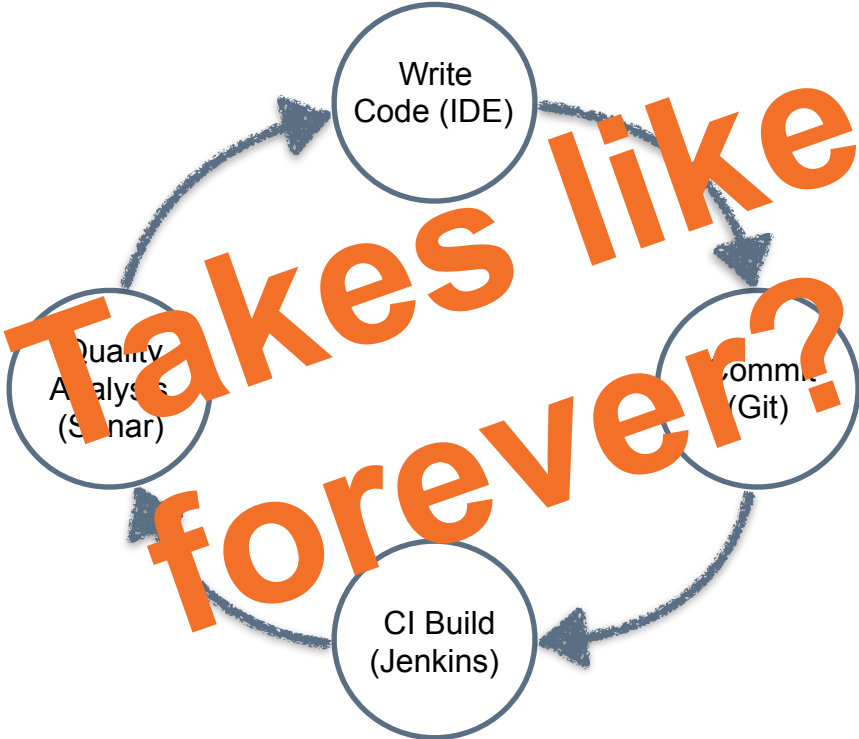
Tools

The Tools (Java centric, Open Source, Free)

- Code Style Checker
 - Checkstyle
 - PMD
- Issue Detector
 - Javac -Xlint
 - FindBugs
- Unit Tests and Code Coverage
 - JUnit & JaCoCo
- Continuous Integration of results
 - Jenkins
- Reporting / Visualization
 - Sonar

The Continuous Code Quality Process

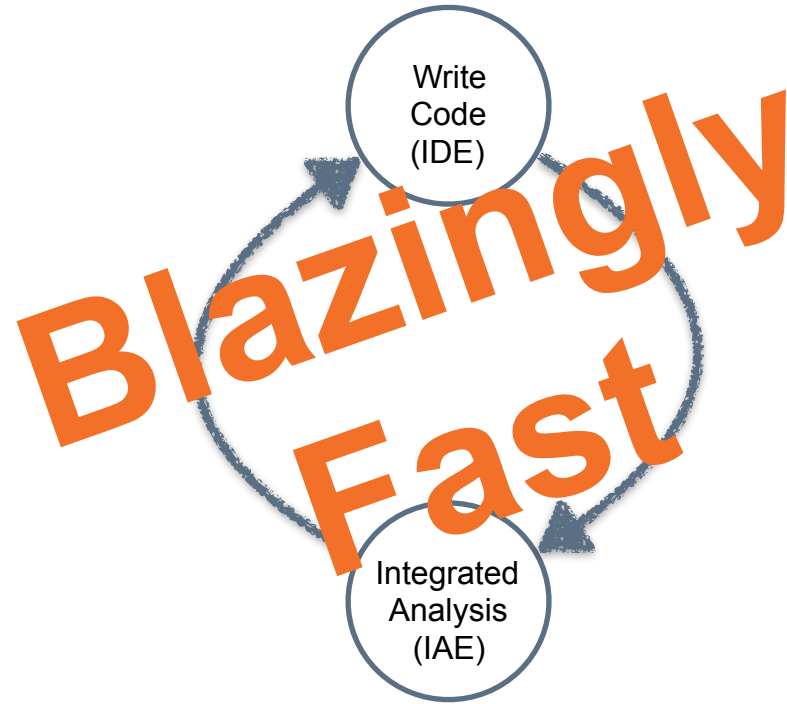
The Quality Feedback Loop



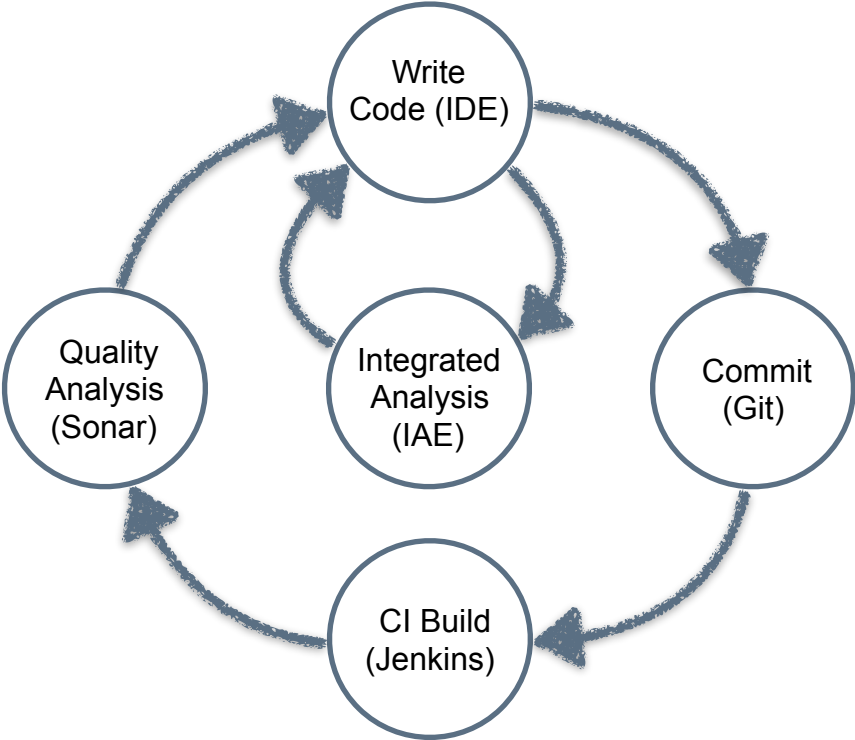
Solution

Code Quality as You Type

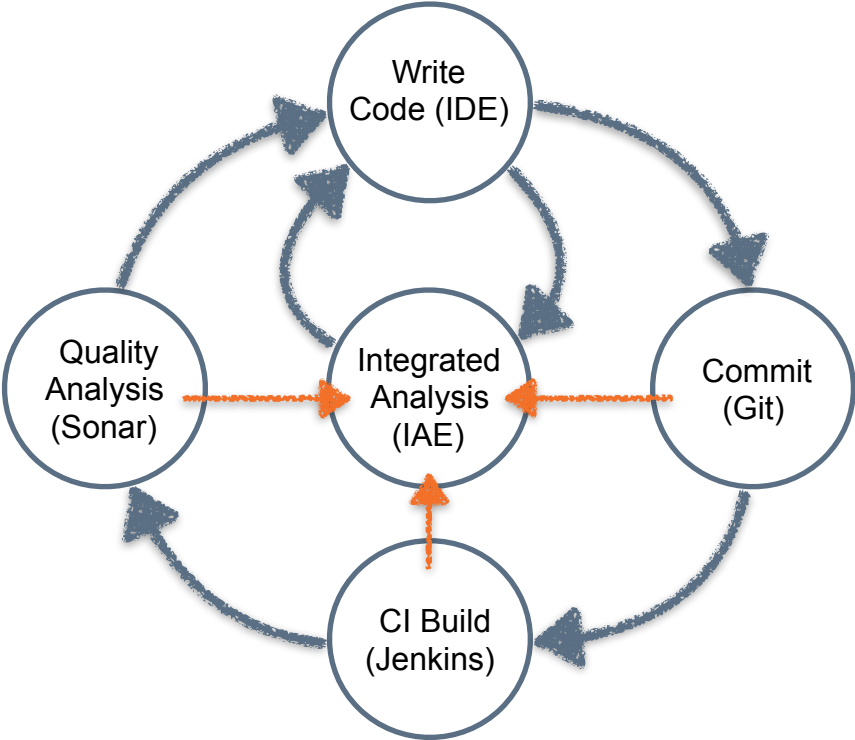
The Instantaneous Quality Feedback Loop



The Combined Quality Feedback Loop



The Enhanced Combined Quality Feedback Loop

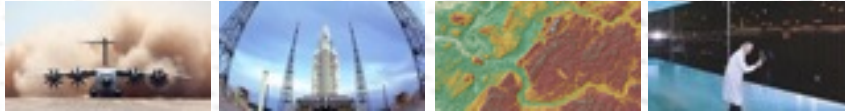


Demo

Looking into the Crystal Ball

Q&A

PIONEERING THE FUTURE TOGETHER



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