



**JOHANNES KEPLER
UNIVERSITY LINZ**

Praktikum Software Engineering

Antonio Garmendia

Unit 2 – CircleCI + Java Implementation

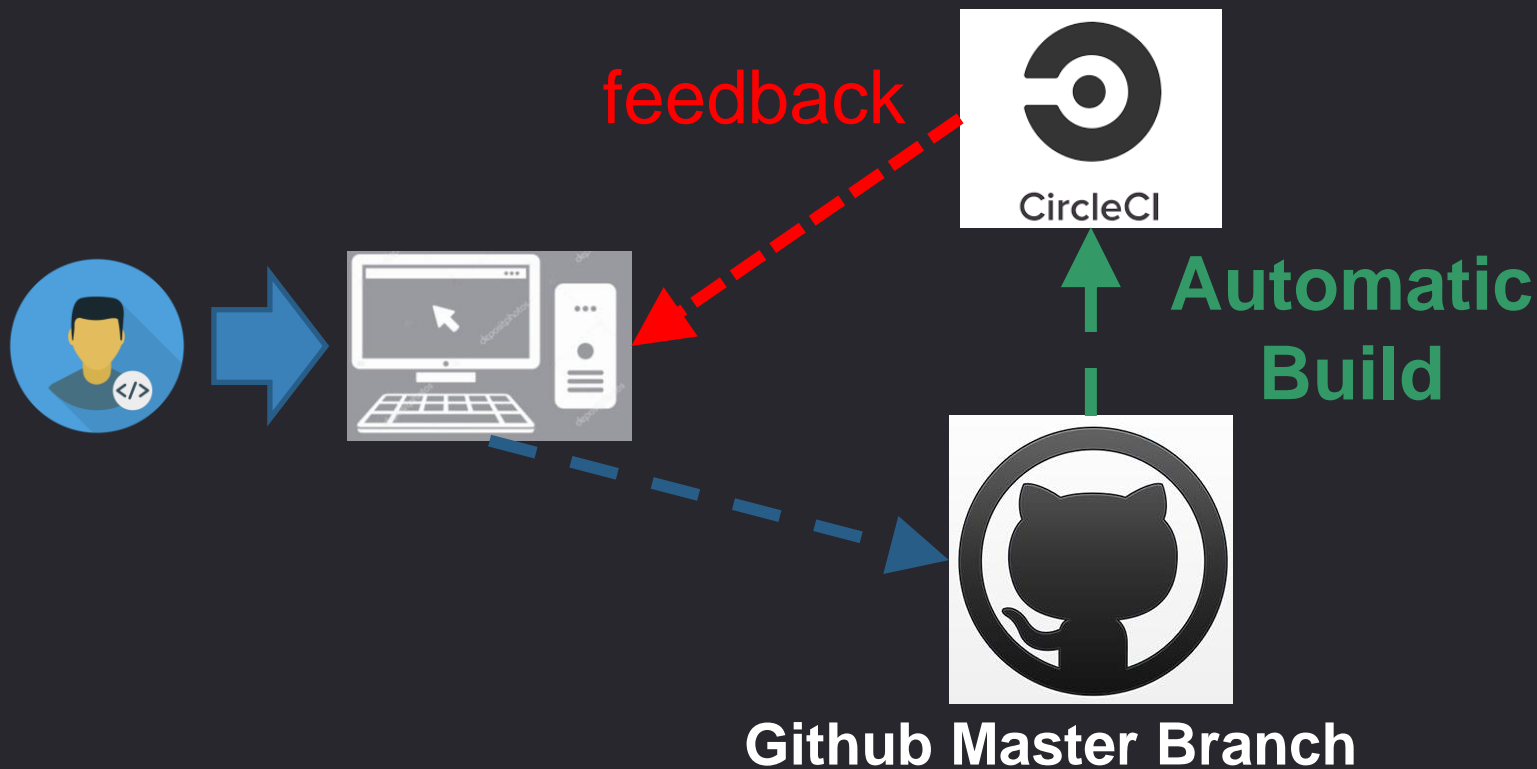
- **CircleCI**
 - Demo
- **Java**
 - DOM Parser
 - Stax Parser
 - Demo

- **Continuous Integration (CI) definition:**
CI is a software development practice wherein developers regularly merge their code with a central repository after which automated builds and tests are run.
- **This means that CI tools offer the possibility to automatically compile and test the code as soon as it is committed to a repository.**



CircleCI is not a testing tool!

Basic Workflow of CircleCI



- **Demo**

- <https://github.com/jku-win-se/teaching-2021.prse.circleci.example>

- **DOM Parser**
 - Entire document is read into memory
- **Why Stax?**
 - Small memory footprint and is typically much faster
- **Java Architecture for XML Binding (JAXB)**
 - The ability to marshal Java objects into XML and the inverse
 - Works on top of the parser

■ Demo

- <https://github.com/jku-win-se/teaching.teaching-2021.prse.xml.parser.example>

- **Java + XML**

- <https://www.vogella.com/tutorials/JavaXML/article.html>

- **Java + Stax + JAXB**

- <https://www.baeldung.com/java-stax>
- <https://www.journaldev.com/1191/java-stax-parser-example-read-xml-file>
- <https://dzone.com/articles/handle-middle-xml-document>