

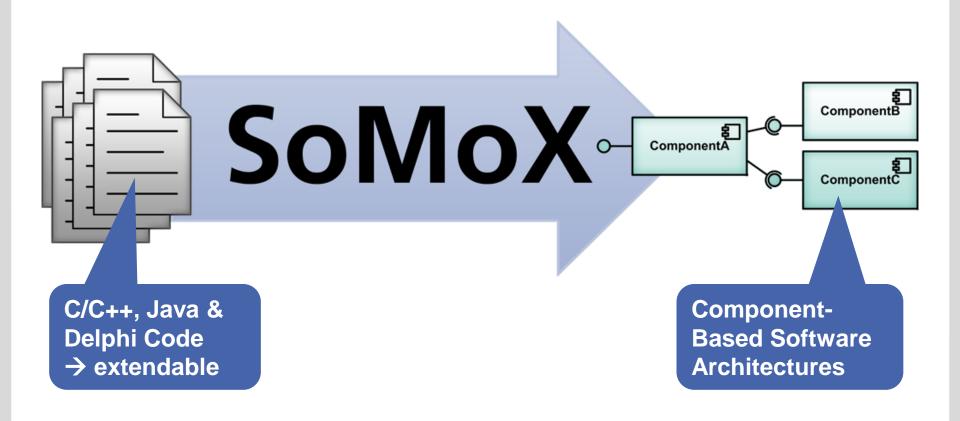
SoMoX – The SOftware MOdel eXtractor

Reverse Engineering Component-Based Architectures from Source Code Klaus Krogmann



What SoMoX does



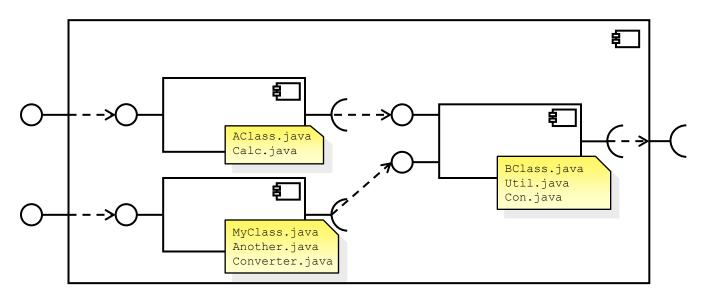


What is Recognized?



- Components
 - Boundaries
 - Their related classes
 - Composite Components

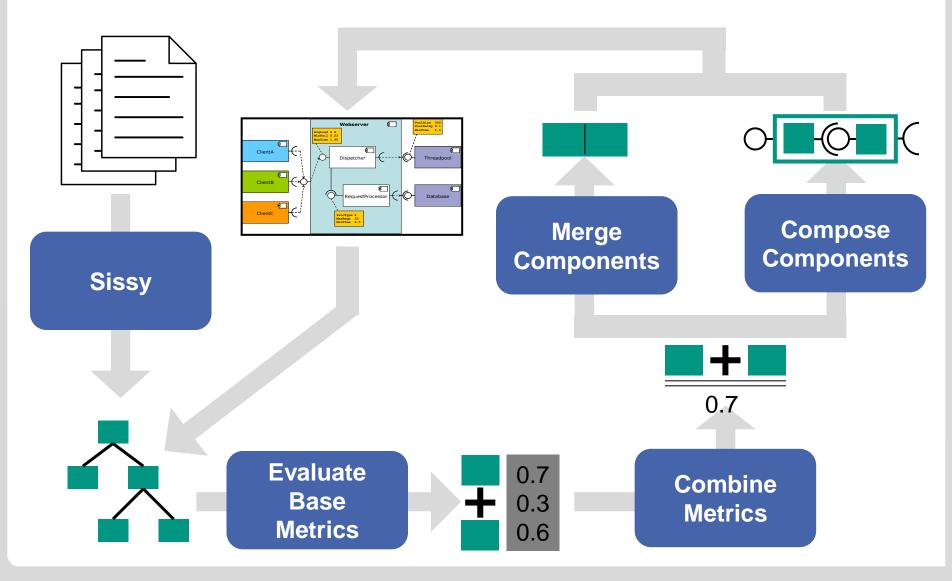
- Interfaces
- Connectors
- Additionally: Trace Model
 - Behaviour Model



Target Model:Q-ImPrESS Software Architecture Model (SAM)

How SoMoX works

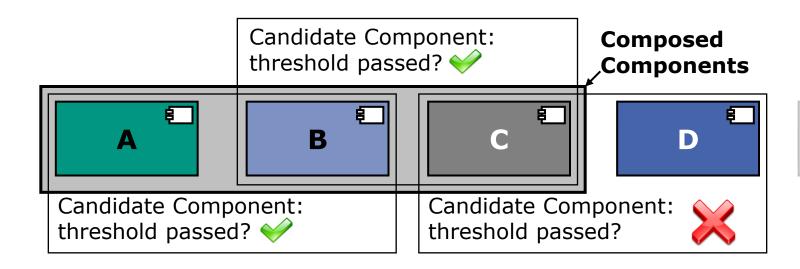




Composition

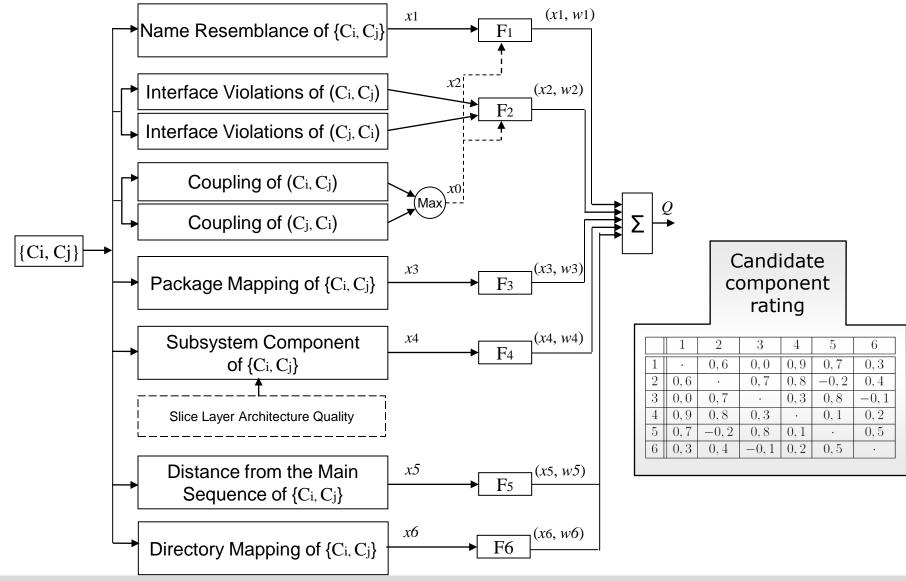


- Component candidates
 - Weakly connected components in the graph
 - Metrics evaluate pairs of component candidates



Combine Metrics





Live Demo





Customize SoMoX



Adaptable to your needs

- Configure weights
- Change structure of metrics
- Plug in new metrics, e.g.
 - EJB deployment descriptor support
 - Custom interface definition language
- Eclipse Technologies
 - Data models and metrics: EMF
 - Graphical editors: GMF

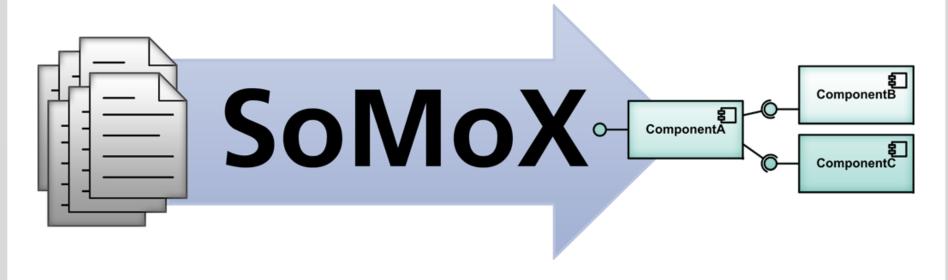
Further information





Reconstructs a component-based software architecture from a pile of files





web: www.SoMoX.org

mail: krogmann@kit.edu