Javassist Appetiser

A brief introduction to Javassist by Ruwen Schwedewsky at September 2014's MelbJVM

MessageMedia
THE SMS SPECIALISTS

Techniker
Krankenkasse
Gesund in die Zukunft.

About Javassist

- Byte code manipulation > Reflection
  - Faster: can be optimised by HotSpot like normal code
  - More powerful, for example: replace all field access
- Other libs
  - BCEL
  - ASM
  - CGLIB
- High level API

DEMO

Pitfalls/Limitations

- Other libs see generated code as real code
  - Static code analysis before enhancement (dependencies/API usage)
- Watch out for synthetic fields
- Sometimes source code analysis (e.g. PMD) is needed
  - `try { … } catch (…) { // empty is ok when commented }`

Questions?