Scalable Component Abstractions

… or "on the Awesomeness of Scala"

Abstract:

- What is a component?
- What is scalability?
- Constructs for component abstraction in Scala (with examples)
  - abstract type members
  - modular mixin composition
  - self type annotations
- Digressions:
  - service-oriented component model
  - out of the box Dependency Injection (a.k.a. the Cake Pattern)
- Case studies:
  - Subject / Observer
  - Scala compiler frontend

Literature:

- **Scalable Component Abstractions**
  by Martin Odersky, EPFL, and Matthias Zenger, Google
  Proceedings of OOPSLA 2005, San Diego, October 2005.