

Type Classes as Objects and Implicits

Abstract:

- What are type classes?
- Language mechanisms
 - type classes in Haskell
 - Scala implicits
- The CONCEPT Pattern
 - benefits and limitations
 - examples and comparison with type classes
 - type class programs vs. OO programs
- Advanced uses of type classes
 - associated types
 - examples of advanced Scala features
- Real-world applications
 - language support and comparison

Sources:

- Type Classes as Objects and Implicits
Bruno C. d. S. Oliveira (*Seoul National University*),
Adriaan Moors, Martin Odersky (*Ecole Polytechnique Fédérale de Lausanne*),
OOPSLA 2010