

Type unification for structural types in Java

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Abstract. In the past we considered type inference for **Java** with generics and lambda-expressions. The base of our algorithm was a finitary type unification. The algorithm determines nominal types in subjection to a given environment. This is a hard restriction as separate compilation of **Java** classes without relying on type informations of other classes is impossible. In this paper we present an extended type unification algorithm as the base of a type inference algorithm for a **Java**-like language, that infers structural types without given environments.