

Title: **Java Generics Explained**
Everything You Ever Wanted to Know About Java Generics But Were Afraid to Ask

Presenter: Angelika Langer

Abstract: Generic and parameterized types and method, collectively known as Java Generics, are the most recent major extension of the Java programming language. They affect almost every Java programmer because many of the most popular JDK classes are generic since Java 5.0. Many, even seasoned Java developers were taken aback by the complexity of the related language features, probably because generics unlike all other Java language features have a substantial learning curve. In this tutorial we take a closer look at the language feature, how it is supposed to be used and where its limitations are.

Audience: Java developers who want to use and understand the full range of Java language features.

Level: intermediate

Prerequisite: basic knowledge of Java

Duration: half day

Format: The tutorial can be given as

- a lecture with interspersed discussions, or
- as a workshop with a mix of lectures and hands-on labs provided the attendants are willing bring their notebooks, or
- as a mob programming session where the audience suggests issues to tackle and the presenter programs as suggested; this format provide plenty of opportunities for discussions and explanations.

History: Variations of this session have been presented at OOPSLA 2006, JavaOne 2005, JAX 2006.

Speaker Bio: Angelika Langer is a freelance trainer/consultant with focus on software development in C++ and Java. She is author of the online java generics FAQ, co-author of the book "Standard C++ IOStreams and Locales", author of countless articles on C++ and Java, a veteran columnist of JavaSpektrum ("Effective Java"), and a recognized speaker at conferences world-wide (OOPSLA, JavaOne, and many more). A more comprehensive bio can be found at www.AngelikaLanger.com.

Short Bio: Angelika Langer is a freelance trainer/consultant with focus on software development in C++ and Java and author of the online java generics FAQ. A more comprehensive bio can be found at www.AngelikaLanger.com.

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Equipment: A beamer, to which I can attach my laptop for projecting the slides.
A flipchart of whiteboard for discussions and further explanations.
A clip-on microphone, if the size of the audience exceeds ~30 people.
If the tutorial is conducted as a workshop, computers would be required for the the students, with JDK 5.0 or higher and a Java IDE installed.