

# Introduction to Aspect-oriented Programming (AOP) with Spring AOP and AspectJ

Eberhard Wolff  
<http://ewolff.com>  
[eberhard.wolff@gmail.com](mailto:eberhard.wolff@gmail.com)



**pluralsight**  
hardcore developer training

# Why This Course?

- AOP is a very powerful tool
- Foundation of Spring
- Seldom used fully
- Trainings and books often academic
- AOP allows you to add enterprise functionality to your application
- Transactions, security ...
- AOP reduces boiler plate code
- Course uses a very practical approach

# Modules

- **Spring Quick Start**
  - Basic introduction to Spring Dependency Injection
  - Skip if you already know Spring
- **Why AOP?**
  - How AOP helps to solve problems in enterprise applications
- **Your First Aspect**
  - First example of an aspect

# Modules

- **Advice Deep Dive**
  - What code can be used in aspects?
- **Pointcut Deep Dive**
  - How to define where aspects are added to your application
- **Expressing Architecture Using Pointcuts**
  - Make architecture a part of your application
- **How Aspects are Added to Objects**
  - Deeper understanding about Spring AOP's internals

# Modules

- **Spring AOP vs. AspectJ**
  - Introduction to AspectJ
  - Compare Spring AOP to AspectJ
- **Spring's Aspect Library**
  - Out-of-the-box aspects for your application
- **Real Life Aspects**
  - Some ideas for your own aspects
- **Next steps**
  - How to get started

# Prerequisites

- **Java knowledge**
- **Basic Spring knowledge**
  - **E.g. Dependency Injection**
  - **Covered in the quick start module**
- **Will use Maven / Spring Tool Suite**

# Where You Can Find More Information

- **Spring Tool Suite**

- <http://www.springsource.org/sts>

- **Spring Reference Documentation**

- <http://static.springsource.org/spring/docs/3.2.x/spring-framework-reference/html/>
- <http://static.springsource.org/spring/docs/3.2.x/spring-framework-reference/html/aop.html>

- **AspectJ**

- <http://eclipse.org/aspectj/doc/released/adk15notebook/index.html>
- <http://eclipse.org/aspectj/doc/released/progguide/index.html>

- **Quick Reference for Spring AOP / AspectJ syntax**

- <http://eclipse.org/aspectj/doc/next/quick5.pdf>