



Testing Spring

Beginner to Guru

Test-Driven Development by Example - Kent Beck

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The Addison Wesley Signature Series

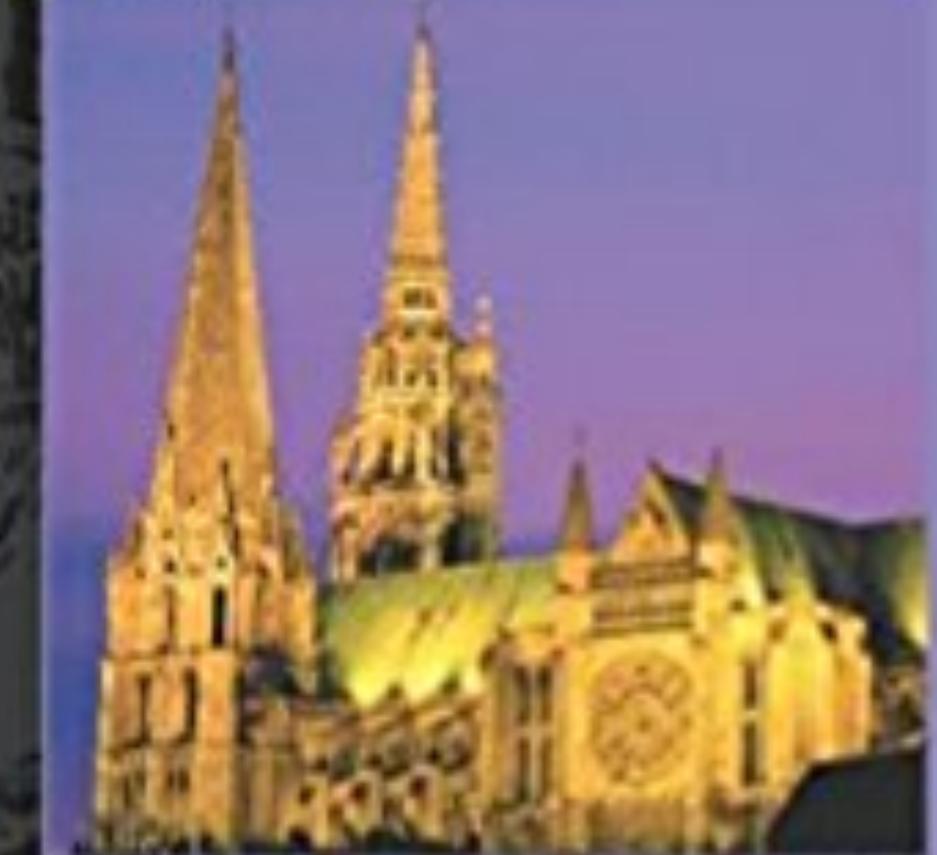


A KENT BECK SIGNATURE
BOOK

TEST-DRIVEN DEVELOPMENT

BY EXAMPLE

KENT BECK



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Test-Driven Development By Example

- Published in 2002 by Kent Beck
- Considered an 'iconic' book on testing software
- Per Amazon, September 2018
 - #17 in Testing
 - #33 in Software Design & Engineering
- This book helped establish TDD as a modern best practice





About Kent Beck

- Original 17 signatory of the Agile Manifesto
- Wrote SUnit, the Smalltalk Precursor to JUnit
- Helped found the Extreme Programming Movement
- Considered the Leading Advocate for TDD
- Well Known Keynote Speaker at Conferences





I'm not a great programmer;
I'm just a good programmer
with great habits.

Kent Beck



Other Popular Kent Beck Quotes

- If I have the same logic in two places, I work with the design to understand how I can have only one copy. Designs without duplication tend to be easy to change.
- Don't make more versions of your source code. Rather than add more code bases, fix the underlying design problem that is preventing you from running from a single code base.
- If there are forms of testing, like stress and load testing, that find defects after development is "complete," bring them into the development cycle. Run load and stress tests continuously and automatically.





Objective of This Section

- TDD is widely considered a best practice in software development
- In this section of the course you will get to see TDD in action
- Learn how to start with a very simple example - with tests of course!
- See how to evolve the simple example:
 - Start with - it compiles
 - Know it will not be complete
 - Use TDD to evolve to clean, quality code





The Money Example

- This is an example used to show TDD in action from Beck's book
- The Money Example is Frequently Used to Teach TDD
- Kent got the example back in the Smalltalk days from Ward Cunningham (founder of the wiki)
- In this example:
 - We will start with a very simple example, having tests before it can compile
 - Initial example WILL NOT follow commonly accepted practices
 - Code will evolve using TDD





Approach

- This part of the course will mirror the first part of the TDD By Example Book.
- You do not need a copy of the book for the course.
 - I do however, recommend reading the book!
- Each lesson will follow a chapter from the first part of the book.
- Book examples are updated to use Java 8+ and JUnit 5.



