



Test-Driven Development in Microsoft® .NET (Developer Reference)

By James W. Newkirk, Alexei Vorontsov, Alexei A. Vorontsov

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With the clarity and precision intrinsic to the Test-Driven Development (TDD) process itself, experts James Newkirk and Alexei Vorontsov demonstrate how to implement TDD principles and practices to drive lean, efficient coding—and better design. The best way to understand TDD is to see it in action, and Newkirk and Vorontsov walk step by step through TDD and refactoring in an n-tier, .NET-connected solution. And, as members of the development team for NUnit, a leading unit-testing framework for Microsoft .NET, the authors can offer matchless insights on testing in this environment—ultimately making their expertise your own.

Test first—and drive ambiguity out of the development process:

- Document your code with tests, rather than paper
- Use test lists to generate explicit requirements and completion criteria
- Refactor—and improve the design of existing code
- Alternate programmer tests with customer tests
- Change how you build UI code—a thin layer on top of rigorously tested code
- Use tests to make small, incremental changes—and minimize the debugging process
- Deliver software that's verifiable, reliable, and robust

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Editorial Review

About the Author

James W. Newkirk, coauthor of *Enterprise Solution Patterns in .NET* and *Extreme Programming in Practice*, led the development of NUnit 2.0. He's currently the development lead for the Microsoft Platform Architecture Guidance team, which provides guidance and reusable assets to enterprise customers through the Patterns & Practices reference series.

Alexei A. Vorontsov has been developing software in a variety of environments—from scientific and mathematical applications to enterprise systems—for more than eight years. He specializes in developing, testing, and managing large distributed software solutions—applying agile development methods for more pragmatic, cost-efficient results.

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