# Professional JavaScript for Web Developers

*Nicholas C. Zakas*

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**Professional JavaScript for Web Developers** Nicholas C. Zakas

This book provides a developer-level introduction along with more advanced and useful features of JavaScript. Coverage includes:

- JavaScript use with HTML to create dynamic webpages, language concepts including syntax and flow control statements
- variable handling given their loosely typed nature
- built-in reference types such as object and array
- object-oriented programing
- powerful aspects of function expressions
- Browser Object Model allowing interaction with the browser itself
- detecting the client and its capabilities
- Document Object Model (DOM) objects available in DOM Level 1
- how DOM Levels 2 and 3 augmented the DOM
- events, legacy support, and how the DOM redefined how events should work
- enhancing form interactions and working around browser limitations
- using the  tag to create on-the-fly graphics
- JavaScript API changes in HTML5
- how browsers handle JavaScript errors and error handling
- features of JavaScript used to read and manipulate XML data
- the JSON data format as an alternative to XML
- Ajax techniques including the use of XMLHttpRequest object and CORS
- complex patterns including function currying, partial function application, and dynamic functions
- offline detection and storing data on the client machine
- techniques for JavaScript in an enterprise environment for better maintainability

This book is aimed at three groups of readers: Experienced object-oriented programming developers looking to learn JavaScript as it relates to traditional OO languages such as Java and C++; Web application developers attempting to enhance site usability; novice JavaScript developers.

Nicholas C. Zakas worked with the Web for over a decade. He has worked on corporate intranet applications used by some of the largest companies in the world and large-scale consumer websites such as MyYahoo! and the Yahoo! homepage. He regularly gives talks at companies and conferences regarding front-end best practices and new technology.

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