



Mastering TypeScript

By Nathan Rozentals

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Build enterprise-ready, industrial strength web applications using TypeScript and leading JavaScript frameworks

About This Book

- Focus on test-driven development to help build quality applications that are modular, scalable, maintainable, and adaptable.
- Practical examples that show you how to use TypeScript with popular JavaScript frameworks including Backbone, Angular, Node.js, require.js, and Marionette
- Enhance your TypeScript knowledge with in-depth discussions on language features, third-party libraries, declaration files, and so on using practical scenarios.

Who This Book Is For

Whether you are a JavaScript developer aiming to learn TypeScript, or an experienced TypeScript developer wanting to take your skills to the next level, this book is for you. From basic to advanced language constructs, test-driven development, and object-oriented techniques, you will learn how to get the most out of the TypeScript language.

What You Will Learn

- Gain an insight into core and advanced TypeScript language features including inheritance and generics
- Integrate your existing JavaScript code and third-party JavaScript libraries by writing and using declaration files
- Write TypeScript code to target popular JavaScript frameworks such as jQuery, Backbone, Angular, Node, and Marionette
- Create extensive testing suites for your application, including unit testing, integration testing, and browser automation with Jasmine and Selenium
- Organize your application code using modules, and utilize Asynchronous Module Loading with require.js

- Explore advanced object-oriented techniques including dependency injection and strongly typed domain events
- Build a complete single-page web application with TypeScript and Marionette, incorporating object-oriented design patterns along the way

In Detail

The TypeScript compiler and language has brought JavaScript development up to the enterprise level, yet still maintains backward compatibility with existing JavaScript browsers and libraries.

Packed with practical code samples, this book brings the benefits of strongly typed, object-oriented programming and design principles into the JavaScript development space. Starting with core language features, and working through more advanced topics such as generics and modules, you will learn how to gain maximum benefit from your JavaScript development with TypeScript. With a strong focus on test-driven development and coverage of many popular JavaScript frameworks, you can fast-track your TypeScript knowledge to a professional level. By the end of this book, you will be able to confidently implement a TypeScript application from scratch.

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Mastering TypeScript By Nathan Rozentals Bibliography

- Sales Rank: #368946 in Books
- Published on: 2015-04-30
- Released on: 2015-04-23
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .82" w x 7.50" l, 1.38 pounds
- Binding: Paperback
- 259 pages

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Editorial Review

About the Author

Nathan Rozentals

Nathan Rozentals has been writing commercial software for over 24 years. Starting with mainframe COBOL, then moving on to C, followed by C++ and Java, and finally settling on C# and ASP.NET. He has been working with and writing blogs about the TypeScript language, since its release towards the end of 2012. In TypeScript, he found a language through which he could bring all of the object-oriented design patterns and unit testing practices that he had learned over the years, through a variety of languages, to JavaScript. Nathan currently works in the Health Industry, bringing touch-screen interfaces to medical systems; thereby enabling Bring Your Own Device (BYOD) solutions for clinicians and hospital staff. He is passionate about code quality, unit testing, and Continuous Integration (CI) and has helped many large teams implement CI, across many different software projects, in many different languages. When he is not coding, Nathan loves windsurfing and playing soccer; he is also an avid Liverpool FC supporter. You can find Nathan's blog at <http://blorkfish.wordpress.com>.

Users Review

From reader reviews:

Juan Harrell:

The feeling that you get from Mastering TypeScript will be the more deep you excavating the information that hide inside the words the more you get thinking about reading it. It doesn't mean that this book is hard to comprehend but Mastering TypeScript giving you joy feeling of reading. The article author conveys their point in particular way that can be understood through anyone who read that because the author of this e-book is well-known enough. This particular book also makes your own vocabulary increase well. That makes it easy to understand then can go together with you, both in printed or e-book style are available. We recommend you for having this kind of Mastering TypeScript instantly.

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