JavaScript: Fundamentals

Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: Intermediate knowledge or experience creating web pages using HTML. Basic knowledge of computer programming in C++, C#, or Java.

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Course description: JavaScript is the programming language of the World Wide Web, the code that makes a Web page come alive. Along with the objects exposed by a Web pages Document Object Model (DOM), the language lets you manipulate a page dynamically and provide instant responses to user actions, with or without ongoing interactions with the Web server. JavaScript is arguably also the most widely used programming language in the world, primarily because of its use in Web browsers. The language itself is a prototype-based interpreted scripting language that has dynamic and functional characteristics, is weakly typed and supports object-oriented programming. JavaScript long ago outgrew its scripting roots to become a solid, general-purpose programming language, suitable for large-scale development. In this course you will learn about the origins of JavaScript and its core language features, giving you a solid foundation on which to take advantage of the many benefits of this versatile language.

Course outline:

JavaScript Langauge
- Introduction
- A Brief History of JavaScript
- The Good, Bad, and Ugly
- Rise to Fame
- EMCAScript: Standardized JS
- ECMAScript Releases
- State of ECMAScript
- Which Version Should You Use?
- The Name of the Language
- Language Versions
- JavaScript Across Browsers
- JavaScript May Not Be Available
- Developing and Debugging
- Which Browser To Use?
- Summary

Developer Tools Part 1
- Introduction
- Demo: Chrome Dev Tools
- Demo: Window Sections
- Demo: Settings
- Demo: Error Screen
- Elements Panel
- Demo: Elements Panel
- Demo: Side Bar Panes
- Resources Panel

- Demo: Resources Panel
- Network Panel
- Demo: Network Panel
- Summary

Developer Tools Part 2
- Introduction
- Scripts Panel
- Demo: Scripts Panel
- Timeline Panel
- Demo: Timeline Panel
- Profiles Panel
- Demo: Profiles Panel
- Audits Panel
- Demo: Audits Panel
- Console Panel
- Demo: Console Panel
- JSLint
- Demo: JSLint
- Summary

Working With Javascript
- Introduction
- The HTML Script Element
- HTML Comments in Script Tag
- Demo: HTML 5
- The Anatomy of JavaScript
- Case Sensitivity
- Identifiers

- Reserved Words
- Literals
- Semicolons
- Demo: Write Method
- Whitespace
- Demo: Whitespace
- Comments
- Demo: Comments
- Learning from Other Web Sites
- Summary

JS Types and Numbers
- Introduction
- JavaScript Types
- Primary Types in JavaScript
- JavaScript Numbers
- Integer Literals
- Real Number Literals
- Arithmetic in JavaScript
- Demo: Math Object
- Summary

Strings and Escape Sequences
- Introduction
- JavaScript Strings
- String Delimiters
- String Literals
- Line Breaks in String Literals
- Escape Sequences

- JavaScript Escape Sequences
- Demo: Escape Sequences
- Summary

Booleans and Comparison
- Introduction
- JS Boolean Values
- Truthy and Falsy
- Demo: Boolean Values
- Special Values:null, undefined
- undefined
- Use null or undefined
- Demo: undefined
- Demo: null or undefined
- Type Comparisons
- Demo: Type Comparisons
- Object Comparisons
- Demo: Object Comparisons
- Summary

Type Conversions and Variables
- Introduction
- Demo: Conversions
- Demo: Implicit Conversions
- Explicit Type Conversions
- Wrapper Objects
- Demo: Wrapper Objects
- Methods and Parsing Functions
- Demo: Methods and Parsing

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