

Intermediate JavaScript

Cursusduur: 2 Dagen Cursuscode: JSI

Beschrijving:

Intermediate JavaScript Course Overview

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

JavaScript is one of the most popular and commonly used programming languages today. Not only is it the language of the web and front-end frame

Doelgroep:

Who will the Course Benefit?

The Intermediate JavaScript course is aimed at JavaScript developers who have a handle on the fundamentals and want to take the next step. It may also be of value to those who wish to refresh/renew their knowledge of JavaScript after some time away from it.

Doelstelling:

■ Course Objectives

■ This course aims to provide delegates with the skills and knowledge necessary to build modern, managed JavaScript applications that exploit modern syntax. Delegates should be able to devise object-oriented and functional solutions to problems, and deal with asynchronous tasks such as IO.

Vereiste kennis en vaardigheden:

■ Delegates should be able to produce scripts that exploit the fundamental features of the language including variables, functions, conditions and loops, DOM manipulation and event handling. Delegates should also be familiar with HTML and CSS. This knowledge can be gained by attendance on the pre-requisite Core JavaScript course.

Vervolg cursussen:

Further Learning

- React
 - Angular Development
 - Developing Node.js Web Applications
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Cursusinhoud:

Intermediate JavaScript Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: MODERN SYNTAX, OPERATORS, AND DATA STRUCTURES

- Destructuring
- Spread
- Rest parameters
- Short circuiting
- Logical assignment operators
- Enhanced object literals
- Optional chaining
- Nullish coalescing
- Sets and Maps

Session 2: SCOPE

- What is scope?
- Types of scope
- Lexical scope
- The scope chain
- Closures
- IIFEs

Session 3: OBJECT-ORIENTED PROGRAMMING

- What is object-oriented programming?
- Object templates
- Constructor functions
- The this keyword (review)
- Object prototypes (briefly)
- Classes
- Fields, constructors, and methods
- Static members
- Encapsulation
- Inheritance
- Composition
- Mutating arrays, e.g. push, splice etc.

Session 4: FUNCTIONAL PROGRAMMING

- Functions (review)
- What is functional programming?
- Pure functions
- Immutability
- Spread (again)
- Functions as first-class objects
- Higher-order functions
- Callbacks
- Transforming arrays, e.g. filter, map etc.

Intermediate JavaScript Training Course
Course Contents - DAY 2

Session 5: ASYNCHRONOUS PROGRAMMING

- What is asynchronous programming?
- The Event Loop
- Asynchronous callbacks
- setTimeout and setInterval
- Promises
- async and await
- Reactive programming and observables (briefly)
- Asynchronous programming and the fetching of data

Session 6: MODULES, MANAGED APPS, AND TOOLING

- What is a module?
- Exporting and importing module features
- Embedding a module in the HTML
- Default and named exports
- Aliases
- Module objects
- Modules, packages, libraries, and frameworks
- Categories of tools
- Package management
- Module bundling
- Transpilation
- TypeScript
- Creating a managed app

Session 7: TESTING

- The purpose of testing
- The types of testing
- Running tests
- Test tools
- Unit testing
- Integration testing
- E2E testing
- Testing async code
- Using mocks

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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