

Synopsis

JavaScript is the de facto programming language for developing browser-based web applications that provide the rich functionality traditionally associated with desktop applications (commonly referred to as Web 2.0 applications). This class explains the JavaScript language in terms familiar to a Java Technology Developer, or a developer familiar with other object-oriented languages, such as C++. Additionally, you will learn tips and tricks for developing web applications that leverage best practices for using client-side JavaScript, and especially the Ajax technique, to provide a richer and more responsive user experience than can be achieved by server-side logic alone.

Who Can Benefit

Java Developers who create Web Applications. Web Application Developers familiar with other object-oriented languages.

Prerequisites

To succeed fully in this course, students should be able to:

- Java Developers who create Web Applications. Web Application Developers familiar with other object-oriented languages.

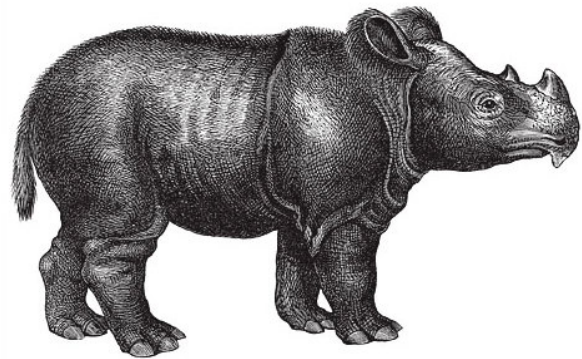
Skills Gained

Upon completion of this course, you should be able to:

- List significant differences between the syntax and semantics of the JavaScript language and Java language
- Avoid bugs caused by ignorance of the differences between objects in the prototype-based JavaScript language and the class-based Java language
- Use Object Literals to bring best practice techniques of Object-Oriented Programming to your JavaScript code
- Use constructor functions, instead of class files, dynamically change the behavior or structure of any object in your JavaScript program
- Leverage prototypal inheritance to mutate objects, including the standard built-in objects, even after they have been instantiated
- Increase the performance and efficiency of your JavaScript code
- Recognize a closure in JavaScript code and explain when it is advantageous when to use a closure

REGISTRATION AND INFORMATION

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Content

JavaScript for Java Developers

The JavaScript Language

- JavaScript Objects
- Arrays extend Object with an integer index
- Strings extend Object with a string value
- Functions extend Object with a JavaScript function body
- JavaScript and the Document Object Model (DOM)
- Additional Information

Ajax and Advanced Javascript

- Introducing Ajax
- Programming With Ajax
- Introducing JSON
- Programming with JSON
- Alternatives to using the XMLHttpRequest object
- Ajax Security
- JavaScript Recommendations

Related Courses

Related courses before

- SL-275: Java Programming Language (SL-275)