

# Fundamentals of JavaScript

## Overview of JavaScript

- Role in Web development
- Difference between object-oriented (like Java) and object-based (like JavaScript) languages
- Incorporation of JavaScript in an HTML page

## JavaScript Syntax

- Variables
- Statements and operators
- Built-in Window methods
- Literals

## Writing your own functions

- Deferred vs. non-deferred code
- Function syntax
- Calling functions – argument passing
- Scoping rules

## BOM and the DOM

- JavaScript Object Model
- Browser Object Model
- Document Object Model
- Document object
- Using methods and accessing properties within the DOM

## Controlling Program flow and Error Handling

- Various looping techniques
- If and switch statements
- Try-catch clauses

## Forms and events

- Working with and validating forms

- Working with form elements
- Add event handlers
- Event object

#### Built-in Objects

- Strings
- Dates
- Math Object
- Arrays

#### Maintaining State

- Overview of state issues
- Cookies
- Saving
- Reading

#### JavaScript and Images

- Image object
- Managing images
- Rollovers

#### More on Arrays

- FIFO vs. LIFO array handling
- Sorting
- Associative arrays

#### Appendix

- Browser issues
- JavaScript versions
- Best Practices
- Recommended references