



## JavaScript

### ➤ Introducing JavaScript

- Evolution of JavaScript since 1996
- Current uses of JavaScript in web applications

### ➤ Where JavaScript goes

- JavaScript language fundamentals
- Statements
- Variables and data types
- Operators (for both numbers and strings)
- Conditionals (if-else else-if and switch-case)
- Loops (while, do-while, for)

### ➤ Functions

- Creating functions
- Calling functions
- Returning values

### ➤ Understanding JavaScript objects

- The role of objects in JavaScript programming
- Working with methods and properties
- The JavaScript object hierarchy
- The implicit window object
- Event handlers

### ➤ JavaScript with forms

- How forms fit into the JavaScript DOM
- Setting focus on a specific field
- Blocking a field from being edited
- Setting field values based on user input
- Basic validation: requiring field values to be filled in

### ➤ Handling calculations within forms JavaScript with links and images

- Using on Mouse Over and on Mouse Out to detect the presence of the mouse
- Using on Click to process clicks on hyperlinks
- Having hyperlinks call functions via javascript: URLs
- Conditionally navigating the user to a page when they click a link
- Dynamically swapping one or more images on a page based on the position of the mouse

### ➤ JavaScript for navigation

- Overview of the history and location objects



- Building a jump menu
- Navigating the user to a specific page based on their input in a form
- JavaScript for pop-up help
- Pros and cons of having JavaScript open another window
- Generating and sizing a new (child) window via JavaScript
- Communication between the child window and the parent window
- Implementing attractive pop-up help or information windows using JavaScript

➤ **Using the RegExp object in JavaScript**

- To test whether a string matches a pattern
- To extract pieces of a string (e.g., the month, day, and year from a date the user has entered)
- To clean up illegal characters the user has entered



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