

Clustrex

Software Training



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Web Development

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Topics	Sub Topics
Introduction to Web Development	Basics of Web Technology
	The 3 Musketeers of Web
	How Browser works?
HTML	Basic Structure of HTML
	Layout Standards
	Tags which are dominant in Web Development
CSS	Why CSS?
	Structure of a CSS
	Selectors & Pseudo elements
	Media Query
	Flexbox - The Superhero
Introduction to Javascript	Javascript - The Magician of Web Technology
	Is Java script a programming Language?
	JS - Prototype-based Language
	VanillaJS
	Structure of Javascript
Variables and Datatypes	Variable Declarations
	Data types supported in Javascript
	Scope and Hoisting

Arrays and Objects	What are Arrays and Objects?
	Inbuilt Methods
	Looping
Functions	Functions Syntax
	What are Arguments & parameters
	Scope and Closures
	ES6 function shorthand
Conditional and Looping Statements	Syntax for Conditional statements
	For, While and Do...While
	ES6 standards for Loops
	Iterators & Generators
Expressions and Operators	Assignment & Comparisons
	Arithmetic operators
	Bitwise & logical operators
	Conditional (ternary) operator
Document Object Model	What is a DOM?
	Accessing elements using DOM
	DOM properties used to Update HTML
Object Oriented Programming	Is OOP possible in a Prototype-based Language? Yes
	Syntax for Class
	Getters and Setters
	Inheritance
Built-In Objects	Date
	Number



	Math
	String, Array and Object
Promises and Error Handling	Async Programming
	What is a Promise?
	Callbacks and async...await
	Chaining and Error Propagation
Extended Libraries	JQuery - Write Less, Do More, JavaScript Library.
	Bootstrap - Toolkit for developing with HTML, CSS, and JS