Grovico
Growth Innovation Company

JAVASCRIPT COURSE

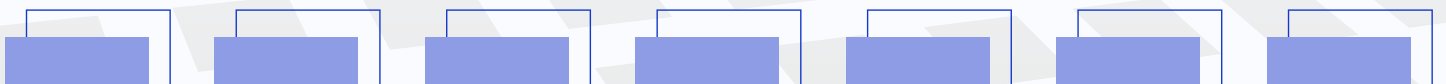## Live Classes with Placement Support

- Interactive Web Development
- Project-Based Learning
- Foundation for Frameworks
- Boost Your Employability

{.js}

JavaScript

Why choose JAVASCRIPT as your career?

MAKE WEBSITES INTERACTIVE & POWERFUL

JavaScript brings web pages to life — add animations, forms, dynamic content, and interactive features users love.

MOST POPULAR LANGUAGE IN WEB DEVELOPMENT

JavaScript is the backbone of the web, used in 98% of websites and essential for all modern front-end and full-stack roles.
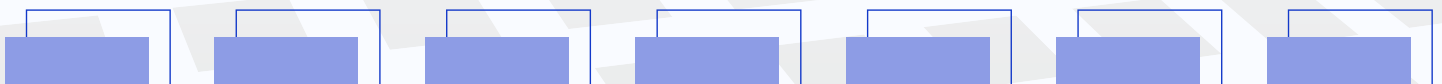
USED IN FRONT-END, BACK-END & MOBILE APPS

Powerful across platforms: build web apps, games, servers (Node.js), and mobile apps with one versatile language.

TOP COMPANIES HIRE JAVASCRIPT DEVELOPERS

Firms like Google, Microsoft, Meta, TCS, Infosys, Amazon, and startups are constantly looking for skilled JavaScript developers.

JAVASCRIPT Course Curriculum

Lesson 1: Introduction to JavaScript

1.1: Introduction to JavaScript
- Learn about JavaScript, its uses, and the basics of the language.

1.2: Setting Up JavaScript Development Environment
- Learn how to set up your local development environment and run JavaScript code.

1.3: Your First JavaScript Program: "Hello, World!"
- Write and run your first simple JavaScript script.

1.4: Understanding JavaScript Syntax
- Get familiar with JavaScript syntax, including identifiers, keywords, and basic operators.

1.5: Writing Comments and Documentation in JavaScript
- Learn how to document your code effectively.

1.6: Using User Input and Console
- Learn how to accept input from users and use the console object for debugging.

Lesson 2: Working with Variables and Data Types

2.1: JavaScript Variables and Data Types
Learn how to declare variables and work with different data types in JavaScript.
2.2: Arithmetic Operations in JavaScript
Explore JavaScript's arithmetic operators and how to perform basic math operations.
2.3: Working with Arrays in JavaScript
Learn how to create and manipulate arrays, including accessing and modifying elements.
2.4: Using Array Methods
Master array methods like '.map()', '.filter()', '.reduce()', and more.
2.5: Type Conversion in JavaScript
Understand how to convert between different data types in JavaScript.
2.6: JavaScript Constants and Let vs Var
Learn the difference between 'let', 'const', and 'var' for variable declarations.

Lesson 3: Strings and String Methods

3.1: Working with Strings
- Learn how to work with strings in JavaScript, including concatenation and manipulation.

3.2: JavaScript String Methods
- Explore essential string methods like '.slice()', '.split()", and '.replace()'.

3.3: String Template Literals
- Use template literals to build dynamic strings with embedded expressions.

3.4: String Padding and Trimming
- Learn how to pad and trim strings to meet your formatting needs.

3.5: Regular Expressions in JavaScript
- Understand the basics of regular expressions and how to use them with strings.

Lesson 4: Control Flow and Loops

4.1: Conditional Statements (if, else, switch)
- Master the control flow in JavaScript using 'if', `else', and 'switch' statements.

4.2: Loops in JavaScript (for, while, do-while)
- Understand the different types of loops and how to iterate over arrays and objects.

4.3: Break and Continue Statements
- Learn to control the flow of loops using 'break' and 'continue'.

Lesson 5: Objects, Set, and Map

5.1: Working with Objects in JavaScript
- Learn how to create and manipulate objects in JavaScript.

5.2: Using Set and Map
- Explore JavaScript's 'Set' and 'Map" collections and how to use them for efficient data management.

Lesson 6: Functions and Closures

6.1: JavaScript Functions
- Learn how to define functions in JavaScript and pass parameters.

6.2: Function Closures
- Understand closures and how to use them for better function management.

6.3: Arrow Functions
- Learn how to write concise and efficient arrow functions.

Lesson 7: Asynchronous JavaScript

7.1: Introduction to Asynchronous JavaScript
- Learn about asynchronous operations and how to use them with JavaScript.

7.2: Promises in JavaScript
- Understand how to handle asynchronous tasks using 'Promise' objects.

7.3: Async/Await Syntax
- Learn how to work with async/await to simplify asynchronous JavaScript code.

Lesson 8: Working with the DOM

8.1: Introduction to the DOM
- Learn about the Document Object Model (DOM) and how JavaScript interacts with web pages.

8.2: DOM Manipulation
- Master how to manipulate DOM elements using JavaScript to change content dynamically.

8.3: Event Handling in JavaScript
- Learn how to add event listeners and respond to user interactions with your web page.

Lesson 9: Fetch API and AJAX

9.1: Working with Fetch API
- Learn how to make API requests with the Fetch API and handle JSON data.

9.2: Introduction to AJAX
- Explore how AJAX allows for asynchronous web page updates.

Module 10: Final Project and Real-World Applications

10.1: Project Planning: From Idea to Execution
- Learn how to select and plan a JavaScript project that aligns with your learning goals.

10.2: Building and Testing Your JavaScript Application
- Hands-on project work: develop, test, and debug your application.

10.3: Deployment and Sharing Your Application
- Learn how to deploy your JavaScript project and share it with the world.

Hands-On Project

Digital Clock
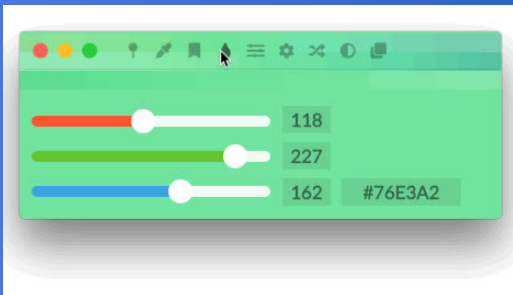
Build a live digital clock using JavaScript.

Build a basic blog platform where users can create, edit, and delete blog posts. Implement user authentication, comment sections, and a simple admin interface.

Color Picker
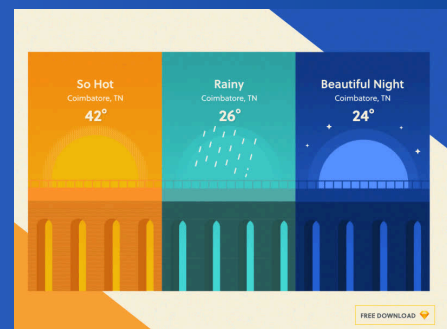
Allow users to pick colors in a web interface.

Create a color picker that lets users select a color and display the hex value. You can use HTML input elements, and JavaScript to manipulate the DOM to display the chosen color dynamically.

Weather App

Fetch weather data using an API and display it.

Build a simple weather app that fetches weather information from a public API (e.g., OpenWeather) and displays the current temperature, humidity, and weather conditions based on the user's location or a searched city.
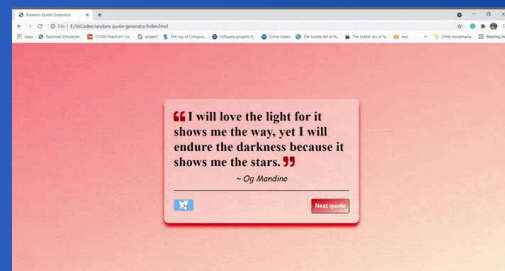
Hands-On Project

Quote Generator

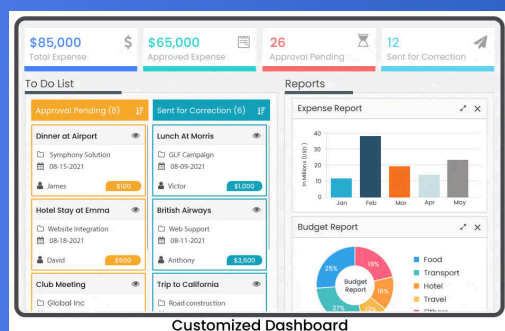**Generate random motivational quotes.**

Develop an app that fetches and displays random motivational quotes each time the user clicks a button. You can use a public quote API to pull new quotes.

Expense Tracker

Track daily expenses and generate reports.

Create an expense tracker where users can input their daily expenses, categorize them, and visualize the total expenses over time. Store the data in the browser's local storage .

Customized Dashboard

Memory Game

A fun game to test memory.

Develop a memory card game where the user has to match pairs of cards by flipping them over. Implement a timer and a scoring system to make it more engaging.

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CERTIFICATE
OF COMPLETION

This is to certify that

DHINESHKAR M

has successfully completed Advanced "XXXXXXX" Certification.

Sunday, April 20, 2025

Rajkumar M
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