An Absolute Beginner's Guide to JavaScript

Introduction

JavaScript is one of the core technologies behind interactive web pages. This absolute beginner's guide will provide an introduction to JS.

What is JavaScript?

- Lightweight scripting language for the web.
- Runs in browsers and other environments like Node.js.
- Adds interactivity and dynamic behavior to pages

Setting Up a JS Environment

- Text editor like VS Code or Sublime.
- Modern web browser like Chrome or Firefox.
- Browser developer tools for debugging.

JavaScript Syntax Basics

- Variables, data types like strings, numbers, Booleans.
- Operators like arithmetic, comparison, logical.
- Control flow with if/else statements and loops.
- Functions and parameters

DOM Manipulation with Vanilla JS

- Selecting DOM elements.
- Changing styles, attributes, content.
- Creating, appending, removing elements.
- Handling click events

Intro to ES6 Features

- Constants, arrow functions, template literals.
- Classes and inheritance.
- Spread syntax, destructuring assignment.
- Asynchronous promises and callbacks

Conclusion

These foundations will equip beginners to start building interactive JavaScript programs.