



NOTES

A large, stylized JavaScript logo in the background, featuring a yellow 'J' and 'S' on a dark grid.

JavaScript

Zero to Hero
in 5 Days

Notes - JavaScript Zero to Hero in 5 Days

Basics of JavaScript

Introduction

- ▶ History of JavaScript
- ▶ Program, Programming and Programmer
- ▶ How Does JavaScript Work on the Web?
- ▶ Setting Up the Coding Environment
- ▶ How do Browsers Execute JavaScript?
- ▶ Where to write JavaScript?

Logging into Browser

- ▶ `console.log` & `clear` Functions
- ▶ `alert`
- ▶ `prompt()`

Variables and Data Types

- ▶ Literals and Variables
- ▶ Variable Declaration and Initialization
- ▶ Manipulating Variables

Operators

- ▶ Arithmetic
- ▶ Relational
- ▶ Equality
- ▶ Logical
- ▶ Assignment
- ▶ Precedence and Associativity

Data Types

- ▶ Strings
- ▶ String functions
- ▶ Type Coercion
- ▶ Conversion Between String and Number Type
- ▶ Boolean
- ▶ Null
- ▶ Undefined

Conditionals

- ▶ Truthy and Falsy
- ▶ if, if...else and and if-else-if
- ▶ Ternary Operator

- ▶ Nested if...else
- ▶ switch...case

Loops

- ▶ while loop
- ▶ do while loop
- ▶ for loop
- ▶ break and continue

Arrays

- ▶ Understanding Arrays

Objects

- ▶ Understanding Objects
- ▶ Accessing keys
- ▶ for...in loop
- ▶ Properties and Methods

Functions

- ▶ Understanding Functions
- ▶ Declaring and defining function
- ▶ anonymous functions

- ▶ methods
- ▶ Higher Order Functions

Advanced JavaScript

ES6

- ▶ What is ECMAScript?
- ▶ Pass by Value & Pass by Reference
- ▶ Scope, Lifetime and Lexical Scope
- ▶ Using 'let' and 'const'

Classes

- ▶ Understanding classes
- ▶ constructor & this keyword
- ▶ inheritance in classes - extends

DOM

- ▶ Introduction to DOM
- ▶ Injecting JS in Website
- ▶ Document Object
- ▶ Difference between tag selector and query selector

- ▶ Difference between `textContent` and `innerText`
- ▶ Manipulating DOM

Events and Event Handling

- ▶ What are events in JavaScript?
- ▶ Event Flow: Event Capturing & Event Bubbling
- ▶ Handling Events : event listeners

Forms

- ▶ Taking user inputs via forms
- ▶ Client side form validation using Js



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