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# Programming Language Javascript



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Javascript:Introduction

Javascript (JS) is a scripting language, primarily used on the Web.It is used to enhance HTML pages and is commonly found embedded in HTML code.JavaScript is an interpreted language.Thus, it doesn't need to be compiled. JavaScript renders web pages in an interactive and dynamic fashion. This allowing the pages to react to events, exhibit special effects, accept variable text, validate data, create cookies, detect a user’s browser, etc.

Operators

JavaScript supports the following types of operators:

Arithmetic Operators

Comparison Operators

Logical (or Relational) Operators

Assignment Operators

Conditional (or ternary) Operators

Variable

Like many other programming languages, JavaScript has variables. Variables can be thought of as named containers. You can place data into these containers and then refer to the data simply by naming the container. Before you use a variable in a JavaScript program, you must declare it. Variables are declared with the **var** keyword.

Function

Functions are one of the fundamental building blocks in JavaScript. A function is a JavaScript procedure - a set of statements that performs a task or calculates a value. To use a function, you must define it somewhere in the scope from which you wish to call it.

Condition

A condition is an expression that evaluates whether something is true or false. When the value of a condition is true, we say that this condition is satisfied. If/else is the conditional statement of Javascript

Loop

There are many different kinds of loops, but they all essentially do the same thing: they repeat an action some number of times (and it's actually possible that number could be zero). The various loop mechanisms offer different ways to determine the start and end points of the loop. There are various situations that are more easily served by one type of loop over the others.

Arrays

In JavaScript, array is a single variable that is used to store different elements. It is often used when we want to store list of elements and access them by a single variable. Unlike most languages where array is a reference to the multiple variable, in JavaScript array is a single variable that stores multiple elements.

Object

A JavaScript object is a collection of properties where each property has a name and a value, similar to Hash, Map, or Dictionary in other languages. The name of a property can be any string, including an empty string. The value can be any value, such as a string, Boolean, number, and null, but it cannot be undefined. The object's properties can be defined even after you start using the object. But first, let's look at how we create objects in JavaScript.The easiest way is to create a new object is with object literal notation which is bracketed by a pair of curly braces: {}. Properties and their values can be added as you go.

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