



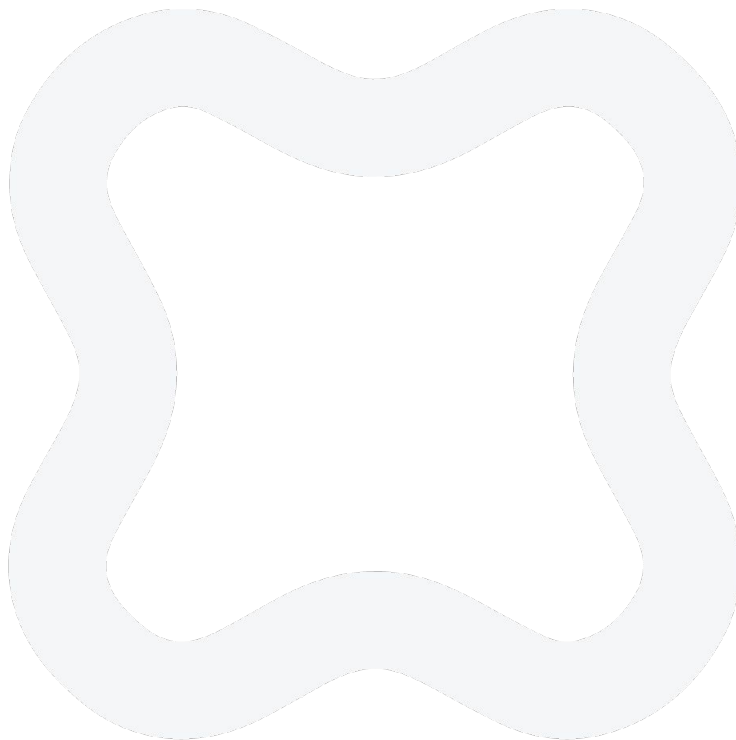
JAVASCRIPT

Vijay Raj. S
Software Developer
897 163 3471
vrsuryaprakash@qwinix.io

Prakruthi S
Software Developer
7829360422
psudanandappa@qwinix.io

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What is javascript?

- JavaScript is the programming language of HTML and the Web.
- JavaScript is a lightweight, interpreted programming language.

JavaScript is one of the **3 languages** all web developers **must** learn:

1. **HTML** to define the content of web pages
2. **CSS** to specify the layout of web pages
3. **JavaScript** to program the behavior of web pages

Why?

Advantages:

- Less server interaction
- Immediate feedback
- Increased interactivity
- Richer interfaces

Where to write javascript?

JavaScript can be placed in the <body> and the <head> sections of an HTML page.

Syntax:

```
<script language="javascript" type="text/javascript">
```

```
// Javascript code
```

```
document.getElementById("demo").innerHTML = 5 + 6;
```

```
</script>
```

Output

JavaScript does NOT have any built-in print or display functions.

JavaScript can "display" data in different ways:

- `window.alert();`
- `console.log();`
- `document.write();`
- `innerHTML;`

Variables

- JavaScript variables are containers for storing data values.

Example:

```
var x = 5;
```

```
var y = 7;
```

```
var z = x + y;
```

Operators

There are two types of operators:

- **Arithmetic Operators** - Arithmetic operators are used to perform arithmetic on numbers (literals or variables).
- **Assignment Operators** - Assignment operators assign values to JavaScript variables.

Functions

A JavaScript function is a block of code designed to perform a particular task.

A JavaScript function is executed when "something" invokes it (calls it).

Syntax:

```
function name(parameter1, parameter2, parameter3) {  
    code to be executed  
}
```

Events

- HTML events are "**things**" that happen to HTML elements.
- When JavaScript is used in HTML pages, JavaScript can "**react**" on these events.
- An HTML event can be something the browser does, or something a user does.

Common HTML Events:

onchange	An HTML element has been changed
onclick	The user clicks an HTML element
onmouseover	The user moves the mouse over an HTML element
onmouseout	The user moves the mouse away from an HTML element
onkeydown	The user pushes a keyboard key
onload	The browser has finished loading the page

Statements

In HTML, JavaScript statements are "instructions" to be "executed" by the web browser.

JavaScript statements often start with a **keyword** to identify the JavaScript action to be performed.

var	Declares a variable
debugger	Stops the execution of JavaScript, and calls (if available) the debugging function
if ... else	Marks a block of statements to be executed, depending on a condition
do while	Executes a block of statements, and repeats the block, while a condition is true
function	Declares a function
return	Exits a function

JSON

What is JSON?

- JSON stands for **J**ava**S**cript **O**bject **N**otation
- JSON is a format for storing and transporting data.
- JSON is often used when data is sent from a server to a web page.

Example:

```
"employees":[  
  {"firstName":"John", "lastName":"Doe"},  
  {"firstName":"Anna", "lastName":"Smith"},  
  {"firstName":"Peter", "lastName":"Jones"}  
]
```

THANK YOU



HQ | North America
9155 E Nichols Ave, Suite 300
Centennial, CO 80112

www.qwinix.io | 303 459 4310

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