



**CHAITANYA BHARATHI
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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

46
years

1. Locating Mouse coordinates using JavaScript.

```
<!-- mouseCoordinates.html-->
<!DOCTYPE html>
<html>
<body>

<h2 onclick="showCoords(event)">Click this heading to get the
  x (horizontal) and y (vertical) coordinates of the mouse pointer when
  it was clicked.</h2>

<p><strong>Tip:</strong> Try to click different places in the
  heading.</p>

<p id="demo"></p>

<script>
function showCoords(event) {
  var x = event.clientX;
  var y = event.clientY;
  var coords = "X coords: " + x + ", Y coords: " + y;
  document.getElementById("demo").innerHTML = coords;
}
</script></body></html>
```

2. Create Dynamic Table content using Dynamic Document in Javascript.

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//w3c//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<!-- dynamic.html -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Manipulating Tables</title>
<script type="text/javascript">
function addRow(tableId, c){
var tabEle = document.getElementById(tableId);

var newRow = tabEle.insertRow(tabEle.rows.length);
```

```

    console.log(tabEle.rows.length);
    var newCell;
    for (var i = 0; i < c.length; i++) {
        console.log(newRow.cells.length);
        newCell = newRow.insertCell(newRow.cells.length);
        newCell.innerHTML = c[i];
    }
    return newRow;
}
</script>
</head>
<body>
<table id="tblPeople" border="1">
<tr>
<th>First Name</th>
<th>Middle Name</th>
<th>Last Name</th>
</tr>
</table>
<hr>
<form name="formName">
First Name: <input type="text" name="FirstName">
Middle Name: <input type="text" name="MiddleName">
Last Name: <input type="text" name="LastName">
<br />
<br />
<center><input type="button" value="Add Name"
onclick="addRow('tblPeople',
[this.form.FirstName.value,this.form.MiddleName.value,
this.form.LastName.value]
);"> </center>
<hr>
</form>
</body>
</html>

```

3. Stacking Elements using Javascript.

```

<!DOCTYPE html>
<html>
<head>
<style>
#img1 {
position: absolute;    left: 0px;    top: 0px;z-index: -1
}
</style>
</head>

```

```

<body>
<h1>This is a Heading</h1>

<button type="button" onclick="myFunction()">Change stack
order</button>
<p>Default z-index is 0. Z-index -1 has lower priority.</p>
<script>
function myFunction() {
document.getElementById("img1").style.zIndex = "1";
}
</script>

```

4. Moving the Elements using Javascript

```

/* moveImage.js JavaScript to move image*/
var dom, x, y, finalx = 700;
// function to initialize the x and y coordinates of the current
position of the image to move

function initImage() {
dom = document.getElementById('image').style;
/* Get the current position of the image and covert string values of
lef and topto numbers */
var x = parseInt(dom.left);
var y = parseInt(dom.top);
/* Call the function that moves it */
moveImage(x, y);
}
// A function to move the image from its original position to (x,
finalx)
function moveImage(x, y) {
/* If the x coordinates are not equal, move
x toward finalx */

if ((x != finalx) ) {
x++;
// assign x and y values to propeties to cause the move
dom.left = x + "px";
dom.top = y + "px";
/* Recursive call, after a 1-millisecond delay */
setTimeout("moveImage(" + x + "," + y + ")", 1);
}
}

```

5. Explore the new features introduced in ES5 to recent.

JavaScript (JS) has evolved significantly from ECMAScript 5 (ES5) to the latest ECMAScript versions, introducing new features to improve syntax, performance, and developer experience.

[JavaScript Versions](#)

6. Web Development Challenge: Build an Interactive Static Website

Modify the Existing **static website** to incorporate interactive elements using **JavaScript, Regular Expressions, and CSS** to enhance the user experience. Your website should include the following features:

Requirements:

1. **User Authentication Interface**

- a) Create **Login and Signup pages** with form validation using **JavaScript and Regular Expressions**.
- b) Ensure fields like **UserName, email, password, and Phone Number** follow proper validation rules.

2. **Layered Layout with Stacking Elements**

- a) Implement **stacking (z-index) techniques** to overlay elements creatively.
- b) Demonstrate layering for pop-ups, modals, tooltips, or banners.

3. **Dynamic Table Generation**

- a) Use **JavaScript** to create and populate a table dynamically.
- b) The table content should be generated based on **user input or pre-defined data arrays**.

4. **Element Animations & Movement**

- a) Add **animations or transitions** to make elements move dynamically on the webpage.
- b) Examples: Sliding menus, scrolling text, bouncing buttons, or draggable elements.

