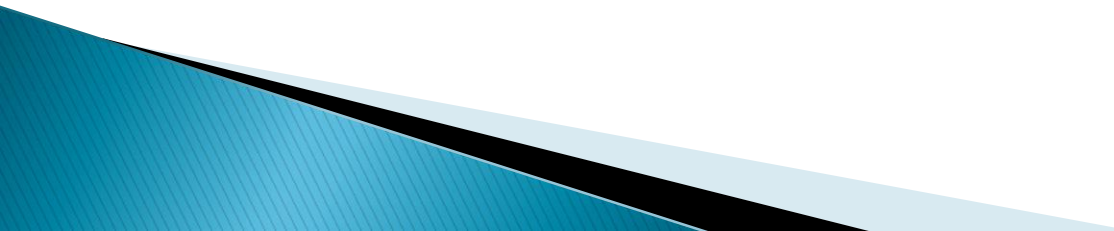
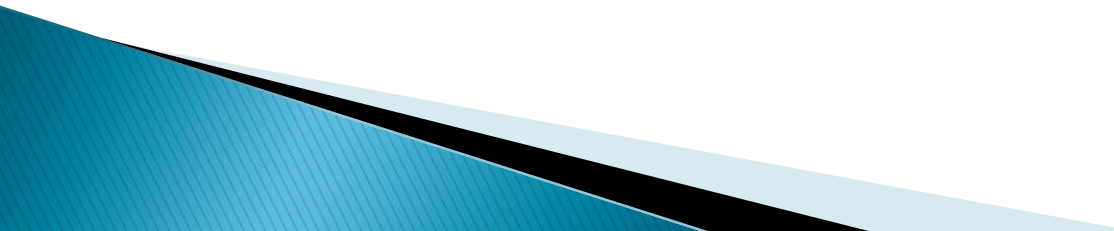


Javascript

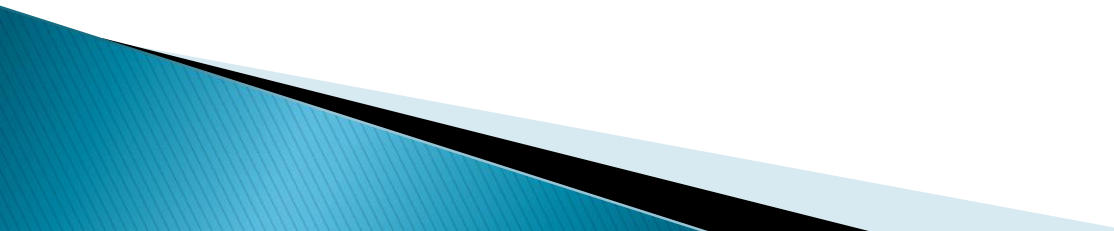
What is JavaScript

- It is a programming language.
 - It is an interpreted language.
 - It is object-based programming.
 - It is widely used and supported
 - It is accessible to the beginner.
- 

How can it be used?

- ▶ Use it to add multimedia elements
 - ▶ With JavaScript you can show, hide, change, resize images, and create image rollovers.
 - ▶ You can create scrolling text across the status bar.
 - ▶ Create pages dynamically
 - ▶ Based on the user's choices, the date, or other external data, JavaScript can produce pages that are customized to the user.
 - ▶ Interact with the user
 - ▶ It can do some processing of forms and can validate user input when the user submits the form.
- 

Writing JavaScript

- ▶ JavaScript code is typically embedded in the HTML, to be interpreted and run by the client's browser. Here are some tips to remember when writing JavaScript commands.
 - ▶ JavaScript code is case sensitive
 - ▶ White space between words and tabs are ignored
 - ▶ Line breaks are ignored except within a statement
 - ▶ JavaScript statements end with a semi- colon ;
- 

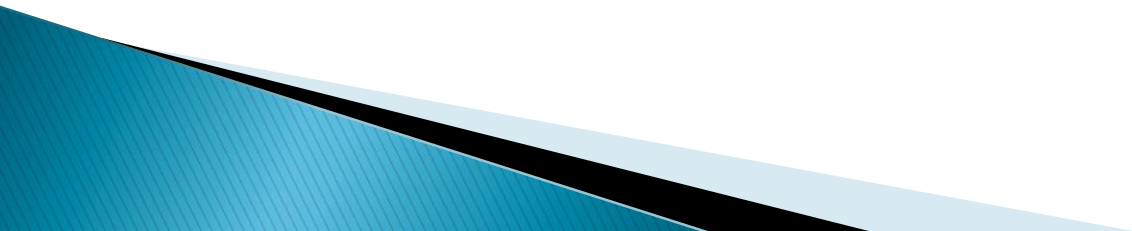
The SCRIPT Tag

The `<SCRIPT>` tag alerts a browser that JavaScript code follows. It is typically embedded in the HTML.

```
<SCRIPT language =  
  "JavaScript">  
statements  
</SCRIPT>
```

Example 1

```
<html>  
<body>  
<script type="text/JavaScript">  
    document.write("Hello World!")  
</script>  
</body>  
</html>
```



Example 2 – Function

- ▶ `<html>`
- ▶ `<head>`
- ▶ `<script type="text/JavaScript">`
- ▶ `<!--`
- ▶ `function popup() {`
- ▶ `alert("Hello World")`
- ▶ `}`
- ▶ `//-->`
- ▶ `</script>`
- ▶ `</head>`
- ▶ `<body>`
- ▶ `<input type="button" onclick="popup()" value="popup">`
- ▶ `</body>`
- ▶ `</html>`

Variable Names

- ▶ • The variable name must start with a letter or an underscore.
▶ firstName or _myName
- ▶ • You can use numbers in a variable name, but not as the first character.
▶ name01 or tuition\$
- ▶ • You can't use space to separate characters.
▶ userName not user Name
- ▶ • Capitalize the first letter of every word except the first
▶ salesTax or userFirstName

Example 3

```
<HTML>
<HEAD>
<TITLE>Test Input</TITLE>
<SCRIPT LANGUAGE="JavaScript">
function testResults (form) {
    var TestVar = form.inputbox.value;
    alert ("You typed: " + TestVar);
}
</SCRIPT>
</HEAD>
<BODY>
<FORM NAME="myform" ACTION="" METHOD="GET">Enter something in the box: <BR>
<INPUT TYPE="text" NAME="inputbox" VALUE=""><P>
<INPUT TYPE="button" NAME="button" Value="Click" onClick="testResults(this.form)">
</FORM>
</BODY>
</HTML>
```

Example 4

```
1 <html>
2 <head><title>Displaying Times and Dates</title></head>
3 <body>
4 <h1>Current Date and Time</h1>
5 <p>
6 <script language="JavaScript">
7 <!--
8 now = new Date();
9 localtime = now.toString();
10 utctime = now.toGMTString();
11 document.write("<b>Local time:</b> " + localtime + "<BR>");
12 document.write("<b>UTC time:</b> " + utctime + "</p>");
13 // -->
14 </script>
15 </body>
16 </html>
17
```