

## Client Side Languages.

- \* These programming languages help you to create interactive web sites. The most popular are
  - JavaScript
  - VBscript.

○ \* Server side languages are preferred over client side languages. This is due to the problems caused by users choosing to de-activate script execution on their browsers. In addition, some clients don't support JavaScript or any other scripting language.

- \* Users may deactivate script processing in their browsers. Often, organizations instruct their employees to disable scripts to enhance security.

- \* If web pages use a client side scripting language for browser recognition, these pages may not perform as expected.

\* JavaScript is an object-based scripting language that enables developers to add interactivity to a web page. JavaScript can be used on the client side or on the server side. If it is used on the client side, JavaScript must be located within the HTML documents.

\* The functionality that can be added by JavaScript includes

- Pop-ups (alert, dialog, prompt)
- automatic date and time changes
- images and text that change on mouse rollover
- cookie creation + identification

\* JavaScript is considered an object-based scripting language, which contains a collection of built-in objects. These objects include

- document
- navigator
- array

\* JavaScript is not considered to be an object-oriented language because it doesn't support inheritance.



- \* A document object enables you to obtain values from and write values to a document.

The type of browser accessing a webpage can be determined using a Navigator. An Array enables you to create a series of variables that can be changed later.

- \* JavaScript offers several advantages to programmers. It doesn't require much time for compilation, and scripts are developed within a short period. The development time is further shortened, as browser and XHTML/HTML code control interface features, such as forms, frames, and other GUI elements.

- \* JavaScript is easy to learn and implement as its syntax and rules are simpler than that of the Java programming language.

You can use a JavaScript program on any browser that supports JavaScript. You can use JavaScript for copyright protection.

You can use a simple JavaScript to prevent your website from being incorporated into another website without proper recognition.

- \* There are several ways to include JavaScript into your HTML pages. Two ways are

- using a `<script>` tag
- specifying a file as JavaScript source



- \* The `<script>` tag is an extension to HTML that can enclose any number of JavaScript elements. A document can have multiple `<script>` tags, and each can enclose any number of JavaScript statements.
- \* The `src` attribute of the `<script>` tag enables you to specify a file as the JavaScript source.  
This attribute is useful for sharing functions among different pages.
- \* JavaScript can be used to detect the type and version of a browser. Using simple JavaScript code, you can use cookies to store passwords and user preferences, and select which web pages will be displayed, based on the browser used.  
You only need the JavaScript interpreter for this code, which is included on all browsers.
- \* JavaScript is used to detect the browser type and version. This can be used to present different versions of a site to different browsers, inform users to upgrade their browsers and to ensure access to disabled users.
- \* JavaScript can also be used to place cookies on the hard disks of visitors' PCs. Using a simple JavaScript code enables you to use cookies to store passwords, user preferences, and to select web pages to be displayed based on the version of the browser used.

\* VBScript is MS implementation of Javascript. It can be used on either the client side or on the server side.

VBScript enables access to built-in documents and methods.

The syntax used for VBScript is similar to the syntax used for Javascript.

\* A VBScript interpreter can be installed only in MS Internet Explorer.

If VBScript is used on the client side, Internet Explorer is the only browser that can recognize the code used.

All browsers recognize the code if VBScript is used on the server side.

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