



# VBScript



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Training Services/Courseware Development

## Course Topics

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### Part 1: VBScript DataTypes

- Working with VBScript Data Types
- VBScript SubTypes
- Understanding Conversant Functions
- Understanding the VAR Type Functions

### Part 2: VBScript Variables

- Understanding Variables
- Declaring a Variable
- Variable Naming Restrictions
- Scope of Variables
- Assigning Variables
- Scalar Variables and Array Variables

### Part 3: VBScript Constants

- Understanding Constants
- Declaring a Constant
- Intrinsic Constants
- Assigning Constants

### Part 4: VBScript Operators

- Understanding Operators
- Arithmetic Operators
- Comparison Operators
- Concatenation Operators
- Logical Operators
- Operator Precedence

### Part 5-Functions

- Introduction to Functions in VBScript
- How functions help eliminate redundant code and make your scripts easier to reuse
- Using the <SCRIPT>...</SCRIPT> tags to enclose functions and specify in which version of VBScript those functions are implemented
- Structuring a function in VBScript and passing it variables

### Part 6-Working with Forms

- Relative and absolute object syntax for referring to form elements
- How to pass an entire form to a function
- Retrieving Form Values
- Processing Form Values

### Part 7: Object, Methods, Properties

- Exploring the Scripting Object Model
- Using the location.href property to change the browser's location
- Review of two scripts that cause the browser to load a new page based on choices the user makes
- Methods and properties of other objects

#### **Part 8: Putting it all Together**

- Working with Images in VBScript
- Controlling the .src property of an image via VBScript
- Techniques for preloading images
- Concluding Remarks/Suggestions
- The future of VBScript and its relationship with ASP
- Suggestions for growing your skills

# Introduction

## Understanding VBScript

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The Visual Basic Script Language is a Microsoft Scripting Technology. Scripting languages are generally used to provide control in another host environment. A program built with a scripting language like VBScript must run in the environment that contains the scripting language's interpreter. The Visual Basic Script Interpreter is located in the Browser.

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VBScript is an object-based interpreted scripting language that can be embedded in html pages. VBScript allows you to control and program elements in your web page without depending on Server-Scripts.

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VBScript allows you to design your own windows, create forms to capture input forms users of your web page, validate the forms, perform mathematical and statistical calculations, and connect to existing Java Applets and much more. With VBScript you can also, create your own VBScript custom objects.

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### Some Features of VBScript

- Dynamic creation of HTML written into the document being parsed by the browser, this is commonly called Document control.
  - The browser control feature enables a VBScript program to establish the URL to be loaded into a window, display messages in the browser status window and open multiple browser windows.
  - Document content, this is the ability to retrieve document information including links, images and applets.
  - Form interaction, event handling (the ability to react to mouse movements and mouse clicks) and persistent storage using cookies.
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### Course Check List

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Internet Explorer 4.0 or Later  
Text Editor e.g. Notepad

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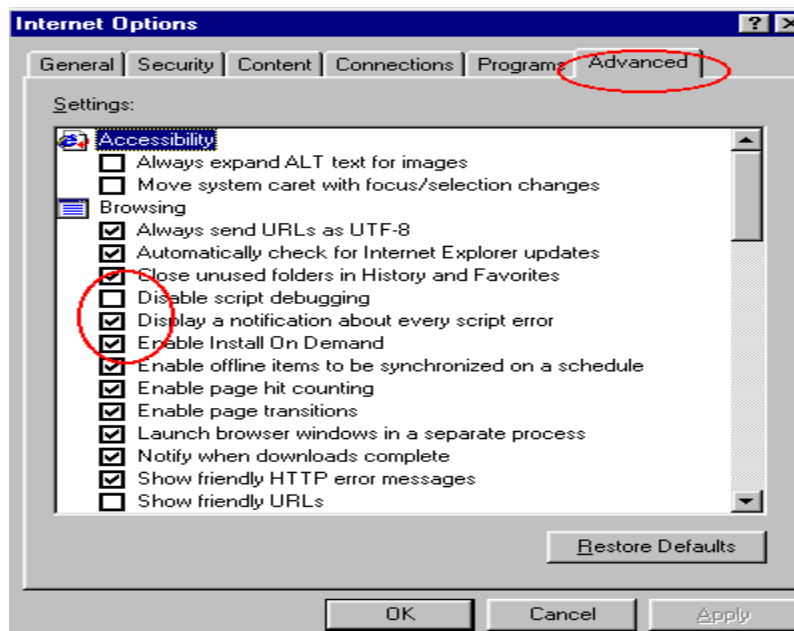
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### Enabling Script Debugging

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Now is a good time to enable your script debugger. Internet Explorer has a built-in Script Debugging utility that detects errors in your scripts. To enable your script debugger, complete the following steps:

1. Open up your browser
2. From the Tools Menu Select Internet Options
3. Click on the Advanced Tab
4. Scroll down to the Browsing Option
5. Make sure that the "disable script debugging" is unchecked
6. Make sure that "display notification message with every script error" is checked
7. Click on OK



### **Writing your first VBScript Code**

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You can use VBScript in an HTML file in three ways:

1. You can embed the VBScript code directly in the HTML document
  2. You can load the VBScript Code from a Separate File
  3. You can combine both 1 & 2
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### **The VBScript Language Declaration**

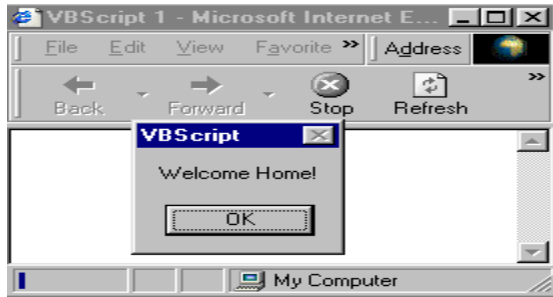
HTML provides a <script> tag, for embedding scripts in HTML pages. To declare the VBScript as the scripting language of choice, the language attribute is used as follows:

```
<Script language="VBScript">  
  
</Script>
```

The following is a sample script:

```
<HTML>  
<HEAD>  
<TITLE>VBScript 1</TITLE>  
</HEAD>  
<BODY>  
<Script type="text/vbscript">  
  MsgBox "Welcome Home!"  
</SCRIPT>  
</BODY>  
</HTML>
```

The resulting code is as follows:



**Code Review:**

The first and most important thing to note is the VBScript Language Declaration. The VBScript language declaration is made with the HTML Script tag and the language attribute as follows:

```
<Script type="text/vbscript" language="VBScript">  
</Script>
```

Secondly, the Script must be placed in-between the two script tags.

Thirdly, the MsgBox (discussed later) is a VBScript reserved word that is used to display a message box on the screen. Observe the syntax of the MsgBox below:

```
MsgBox "Welcome Home!"
```

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**Embedded VBScript Rules**

A single HTML document may contain multiple <script> tag pairs. VBScript is executed in the order encountered

All code is executed in one single program (memory) space (The document window)

Code in the body is executed as the body is rendered into a displayed document unless it is in an event

Code in the head section is executed as if it was placed in the body section unless it is placed in a function. Functions must be called by executing code or an event.

The Script tag can use the id attribute to help refer to the section later in the code e.g.


```
<script id="myScript">
```

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### **Saving Your File**

Embedded VBScript Code can be saved with the ".htm" or ".html" file extensions. To save your code in notepad, do the following:

- From the File Menu in Notepad, Select Save
  - Under "Save In", select Desktop
  - Click on the NewFolder Icon 
  - Name your NewFolder " Samples "
  - Double Click on the Sample folder
  - Under Filename, give your script a name e.g. script1.html
  - Under "Save As Type", Select All Files
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### **Viewing Your Code on the Browser**

There are several ways you can view you code on the browser. One ways is to do the following:

- Double Click on the "Samples" folder from the desktop
- Double Click on the file "Script1.html"

The following is what you script should look like:

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### **External VBScript File**

VBScript code can be placed into a separate file. Placing VBScript code in a separate file allows the same script to be shared by multiple HTML documents. The VBScript file must be saved with the ".vs" file extension e.g. script1.vs. To see how this works do the following:

Step 1: Open up note pad and type the following:  
MsgBox ("I am in a separate file")

Step 2: Save this code as "Script1.vs" (Now be careful when saving this file, very often instead of saving as "Script1.vs", it will save "Script1.vs.txt", to eliminate this you may have to manually change the file name to "Script1.vs" )

Step 3: Create the HTML File as follows:

```
<html>  
<head> </head>  
<body>  
<script language=vbscript src="Script1.vs" > </script>  
</body>  
</html>
```

Step 4: View the HTML document on the browser

**Note the following External File Rules:**

- External files are loaded into the script section
- It is good practice to only place functions into an external VBScript file instead of directly executable code
- You cannot reference one VBScript external file within another external file
- Load one external script file per <script> pairs, to load multiple scripts, multiple <script> pairs must be used.



# Homework

## Homework Assignments

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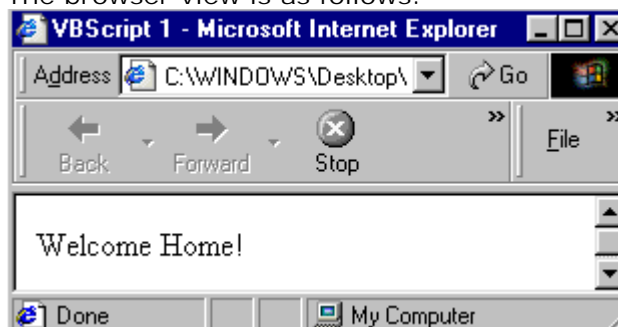
**Part One:** Write a VBScript Code that will Display a Message Box Welcoming a User to a Page. The following is an example:



**Part Two:** Write a VBScript Code that will use the document.write statement to write the message "This is an example of the document write statement" on the screen. The following is an example:

```
<HTML>
<HEAD>
<TITLE>VBScript 1</TITLE>
</HEAD>
<BODY>
<Script type="text/vbscript">
document.write "Welcome Home!"
</SCRIPT>
</BODY>
</HTML>
```


The browser view is as follows:



**Part Three:** Modify Part One so that it reads the Script from an external file link.



Certificate Programs	Classroom	Online	Self-Paced
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Ecommerce Developer (ColdFusion)	\$999.00	\$999.00	\$1999.00
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Ecommerce Overview	\$249.00	\$249.00	\$599.00
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HTML LEVEL I	\$249.00	\$249.00	\$599.00
HTML LEVEL II	\$249.00	\$249.00	\$599.00
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Java Level II	\$249.00	\$249.00	\$599.00
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1=Excellent; 2=Good; 3=Average; 4=Below Average; 5=Poor	1	2	3	4	5
Sequence of Topics					
Course Materials					
The progression of the materials was too slow					
The progression of the materials was too fast					
I would rate this Manual					

What did you like or not like about this Manual

What did you not like about this Manual

Additional Comments

