**VB Script introduction**

VBScript is short for Visual Basic Script. Visual Basic, as you may know, is a powerful programming language developed by Microsoft. VBScript is a scripting language, a subset of Visual Basic, by Microsoft, intended to be used with Microsoft products.   
  
Like JavaScript it can be run on the client-side, through a web browser and like PHP it can also be run on the server-side on a web server. It is the default scripting language for ASP. On the client-side we can mix it with HTML to make our web pages live and interactive.  
  
VBScript is only supported by the Internet Explorer.

## Features of VBScript

* VBScript is a lightweight scripting language, which has a lightning fast interpreter.
* VBScript, for the most part, is case insensitive. It has a very simple syntax, easy to learn and to implement.
* Unlike C++ or Java, VBScript is an object-based scripting language and NOT an Object-Oriented Programming language.
* It uses Component Object Model **(COM)** in order to access the elements of the environment in which it is executing.
* Successful execution of VBScript can happen only if it is executed in Host Environment such as Internet Explorer **(IE)** ,Internet Information Services **(IIS)** and Windows Scripting Host **(WSH)**

## VB script – Version History and Uses

VBScript was introduced by Microsoft way back in 1996 and the first version was 1.0. The Current Stable version of VBScript is 5.8, which is available as part of IE8 or Windows 7.

The VBScript usage areas are aplenty and not restricted to the below list.

* VBScript is used as a scripting language in one of the popular Automation testing tools – Quick Test Professional abbreviated as **QTP**
* Windows Scripting Host, which is used mostly by Windows System administrators for automating the Windows Desktop.
* Active Server Pages **(ASP)**, a server side scripting environment for creating dynamic webpages which uses VBScript or Java Script.
* VBScript is used for Client side scripting in Microsoft Internet Explorer.
* Microsoft Outlook Forms usually runs on VBScript; however, the application level programming relies on VBA (Outlook 2000 onwards).

## Disadvantages

* VBscript is used only by IE Browsers. Other browsers such as Chrome, Firefox DONOT Support VBScript. Hence, JavaScript is preferred over VBScript.
* VBScript has a Limited command line support.
* Since there is no development environment available by default, debugging is difficult.

## Where VBScript is today?

The current version of VBScript is 5.8, and with the recent development of .NET framework, Microsoft has decided to provide future support of VBScript within ASP.NET for web development.

Hence, there will NOT be any more new versions of VBScript engine but the entire defect fixes and security issues are being addressed by the Microsoft sustaining Engineering Team.

However, VBScript engine would be shipped as part of all Microsoft Windows and IIS by default.

## Case Sensitivity

VBScript is a case-insensitive language. This means that language keywords, variables, function names and any other identifiers need NOT be typed with a consistent capitalization of letters.

So identifiers int\_counter, INT\_Counter and INT\_COUNTER have the same meaning within VBScript.

## Comments in VBScript

Comments are used to document the program logic and the user information with which other programmers can seamlessly work on the same code in future.

It can include information such as developed by, modified by and it can also include incorporated logic. Comments are ignored by the interpreter while execution.

Comments in VBScript are denoted by two methods.

**Any statement that starts with a Single Quote (‘) is treated as comment.** Following is the example:

' This Script is invoked after successful login

' Written by : Talentsprint

' Return Value : True / False

**Any statement that starts with the keyword “REM”.** Following is the example:

<script language="vbscript" type="text/vbscript">

REM This Script is written to Validate the Entered Input

REM Modified by : Talentsprint/user2

**Variables in VB scripts**

Variables are named memory locations where we store our values that we use in our programs. A variable is a fundamental part of any programming language. The purpose of a variable is to hold some value.

Once we store or assign some value to a variable, we can, then, use or reference the same in our subsequent code.

**Declaring a variable in VBScript** is very simple. We use the Dim keyword to declare a variable in VBScript.

Dim age

**Assign Values to Variables in VBScript**

Dim age  
age = 25

## Option Explicit

**Option Explicit** forces the developer to declare the variables using **Dim**statement before they are used in some part of the code.

### SYNTAX :

Option Explicit

### EXAMPLE :

If we use **Option Explicit** and if we don't declare the variables then the interpreter will throw

an error.

Option Explicit

Dim x, y, z, a

x = 10

y = 20

z = fnadd(x,y)

a = fnmultiply(x,y)

Function fnadd(x,y)

fnadd = x+y

End Function