

VBSCRIPT CLASS OBJECTS

http://www.tutorialspoint.com/vbscript/vbscript_class_objects.htm

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What is a Class?

Class is a construct that is used to define a unique type. Like Object Oriented Programming, VbScript 5.0 supports the creation of classes and it is very similar to writing COM objects with VB.

Class is simply the template for an object and we instantiate an object to access the properties and methods of it. Classes can contain variables, properties, methods or events.

Syntax

VBScript classes are enclosed within **Class End Class**

```
'Defining the Class
Class classname      'Declare the object name
...
End Class

' Instantiation of the Class
Set objectname = new classname
```

Class Variables

Classes can contain variables, which can be of private or public. Variables within classes should follow VBScript naming conventions. By default, the variables in class are **Public**. That is why they can be accessed outside the class.

```
Dim var1 , var2.
Private var1 , var2.
Public var1 , var2.
```

Class Properties

Class properties, such as Property Let, which handles the process of data validation and assigning the new value to the private variable. Property set, which assigns the new property value to the private object variable.

Read-only properties have only a Property Get procedure while write-only properties *which are rare* have only a Property Let or a Property Set procedure.

Example

In the below example, we are using Properties to wrap private variables.

```
Class Comp

    Private modStrType
    Private OS

    Public Property Let ComputerType(strType)
        modStrType = strType
    End Property

    Public Property Get ComputerType()
        ComputerType = modStrType
    End Property

    Public Property Set OperatingSystem(oObj)
        Set OS = oObj
    End Property
```

```
Public Property Get OperatingSystem()  
    Set OperatingSystem = OS  
End Property  
  
End Class
```

Class Methods

Methods allow the class to perform the operation that the developer wants. The Methods are nothing but Functions or Subroutines.

Example

In the below example, we are using Properties to wrap private variables.

```
Class Car  
  
    Private Model  
    Private Year  
  
    Public Start()  
        Fuel = 2.45  
        Pressure = 4.15  
    End Function  
  
End Class
```

Class Events

There are two events that are automatically associated with every class by default. Class_Initialize and Class_Terminate.

Class_Initialize is triggered whenever you instantiate an object based on the class.

Class_Terminate event is fired when the object goes out of scope or when the object is set to Nothing.

Example

In the below example, we will make you understand how the events work in VBScript.

```
'Instantation of the Object  
Set objectname = New classname  
  
Private Sub Class_Initialize( )  
    Initialization code goes here  
End Sub  
  
'When Object is Set to Nothing  
Private Sub Class_Terminate( )  
    Termination code goes here  
End Sub
```

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