

Visual Basic Scripting

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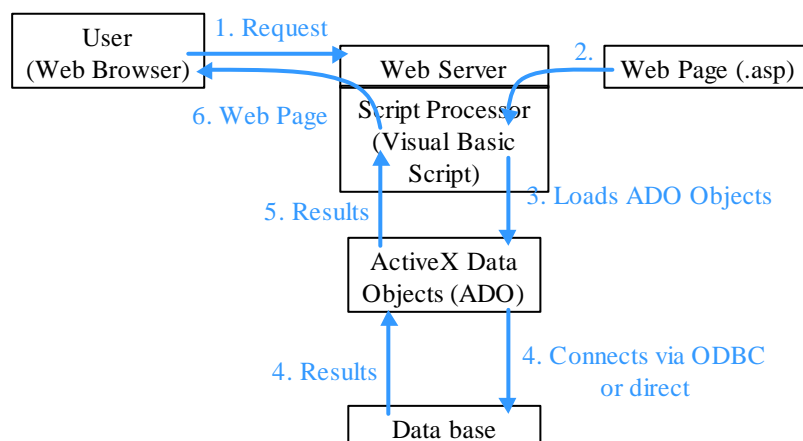
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Scripting

- Client side: JavaScript
- Server side: **VBScript** for MS-servers; most other servers support Perl, C, Java, PHP,...

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Processing of Active Server Pages



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A simple ASP file

```
<html><head></head><body>
<%
Response.Write "<p>Hello World!</p>" &_
    vbCrLf
%>
</body></html>
```

The Browser gets:

```
<html><head></head><body>
<p>Hello World!</p>
</body></html>
```

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Other ways to include Code

Short for Response.Write:

```
<% = "<p>It's " & Now()& "</p>" %>
```

Specify the script language:

```
<script runat=server language=VVBScript>
Response.Write "<p>Hello!</p>"
</script>
```

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Features of VBScript

- Implicit variable definitions (exception arrays `Dim a_array(100)`)
- Weak typing of variables
- No Modules
- Objects specific to VBScript
 - Dictionary (associative array)
 - File (access to files)

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Dictionary

```
Set person =  
    Server.CreateObject("Scripting.Dictionary")
```

```
person("fname") = "Jim"  
person("sname") = "Buyens"  
person("state") = "Arizona"
```

- You can: (see Book pp. 114-116)
 - Test if a key exists
 - Remove a key
 - Count keys

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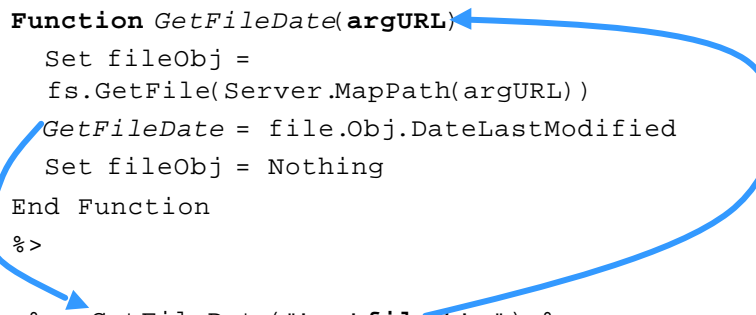
Dictionary: Example

```
Set holdRec =  
  Server.CreateObject("Scripting.Dictionary")  
For Each fld In rs.Fields  
  holdRec(fld.Name) = fld.Value  
Next  
For Each ky In holdRec  
  Response.Write "<p>" & ky & "=" &  
    holdRec(ky) & "</p>" & vbCrLf  
Next
```

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File and Function

```
<%  
Set fs = Server.CreateObject("Scripting.FileSystemObject")  
  
Function GetFileDate(argURL)  
  Set fileObj =  
    fs.GetFile(Server.MapPath(argURL))  
  GetFileDate = file.Obj.DateLastModified  
  Set fileObj = Nothing  
End Function  
%>  
  
<% = GetFileDate("testfile.htm") %>
```

A blue hand-drawn arrow starts at the function definition line `Function GetFileDate(argURL)` and points to the function call line `= GetFileDate("testfile.htm")` in the code block.

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Formatting Functions

```
amt = 12.25
Response.Write FormatCurrency(amt)
Response.Write FormatPercent(amt)

Response.Write FormatDateTime(Date())
```

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String Functions

```
status = Split("test,21,guest",",")
statusJoined = Join(status,";")
result = Filter(status,"es")

pos = InStr("--xy-----xy--","xy")
Replace("bicycle","bi","motor")
```

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Loops

```
Do [{While | Until} condition]  
  [Exit Do]
```

```
  ...
```

```
Loop
```

```
For counter = start To end [Step step]
```

```
  ...
```

```
Next
```

```
While expression
```

```
  ...
```

```
Wend
```

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Logic Control

```
if expression Then
```

```
  ...
```

```
Else
```

```
  ...
```

```
End If
```

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Functions and Subroutines

```
Function name [(argument,...)]
```

```
...
```

```
name=expression
```

```
End Function
```

```
Sub name [(argument,...)]
```

```
...
```

```
End Sub
```