**HttpContext Class**

Encapsulates all HTTP-specific information about an individual HTTP request.

**Namespace:**  [System.Web](http://msdn.microsoft.com/en-us/library/system.web.aspx)  
**Assembly:**  System.Web (in System.Web.dll)

http://i.msdn.microsoft.com/Global/Images/clear.gif Syntax

Visual Basic (Declaration)

<AspNetHostingPermissionAttribute(SecurityAction.LinkDemand, Level := AspNetHostingPermissionLevel.Minimal)> \_

Public NotInheritable Class HttpContext \_

Implements IServiceProvider

Visual Basic (Usage)

Dim instance As HttpContext

C#

[AspNetHostingPermissionAttribute(SecurityAction.LinkDemand, Level = AspNetHostingPermissionLevel.Minimal)]

public sealed class HttpContext : IServiceProvider

Visual C++

[AspNetHostingPermissionAttribute(SecurityAction::LinkDemand, Level = AspNetHostingPermissionLevel::Minimal)]

public ref class HttpContext sealed : IServiceProvider

JScript

public final class HttpContext implements IServiceProvider

http://i.msdn.microsoft.com/Global/Images/clear.gif Remarks

Classes that inherit the [IHttpModule](http://msdn.microsoft.com/en-us/library/system.web.ihttpmodule.aspx) and [IHttpHandler](http://msdn.microsoft.com/en-us/library/system.web.ihttphandler.aspx) interfaces are provided a reference to an **HttpContext** object for the current HTTP request. The object provides access to the intrinsic [Request](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.request.aspx), [Response](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.response.aspx), and [Server](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.server.aspx) properties for the request.

Examples

The following example demonstrates how to access and display properties of the **HttpContext** object. The context of the current HTTP request is accessed by using the [Context](http://msdn.microsoft.com/en-us/library/system.web.ui.page.context.aspx) property of the [Page](http://msdn.microsoft.com/en-us/library/system.web.ui.page.aspx) object.

Visual Basic

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl73VisualBasic');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl73VisualBasic');)

<%@ Page Language="VB" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<script runat="server">

Protected Sub Page\_Load(ByVal sender As Object, ByVal e As System.EventArgs)

' The HttpContext associated with the page can be accessed by the Context property.

Dim sb As New System.Text.StringBuilder()

' Use the current HttpContext object to determine if custom errors are enabled.

sb.Append("Is custom errors enabled: " & \_

Context.IsCustomErrorEnabled.ToString() & "<br/>")

' Use the current HttpContext object to determine if debugging is enabled.

sb.Append("Is debugging enabled: " & \_

Context.IsDebuggingEnabled.ToString() & "<br/>")

' Use the current HttpContext object to access the current TraceContext object.

sb.Append("Trace Enabled: " & \_

Context.Trace.IsEnabled.ToString() & "<br/>")

' Use the current HttpContext object to access the current HttpApplicationState object.

sb.Append("Number of items in Application state: " & \_

Context.Application.Count.ToString() & "<br/>")

' Use the current HttpContext object to access the current HttpSessionState object.

' Session state may not be configured.

Try

sb.Append("Number of items in Session state: " & \_

Context.Session.Count.ToString() & "<br/>")

Catch ex As Exception

sb.Append("Session state not enabled. <br/>")

End Try

' Use the current HttpContext object to access the current Cache object.

sb.Append("Number of items in the cache: " & \_

Context.Cache.Count.ToString() & "<br/>")

' Use the current HttpContext object to determine the timestamp for the current HTTP Request.

sb.Append("Timestamp for the HTTP request: " & \_

Context.Timestamp.ToString() & "<br/>")

' Assign StringBuilder object to output label.

OutputLabel.Text = sb.ToString()

End Sub

</script>

<html >

<head runat="server">

<title>HttpContext Example</title>

</head>

<body>

<form id="form1" runat="server">

<div>

Using the current HttpContext to get information about the current page.

<br />

<asp:Label id="OutputLabel" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

C#

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl74CSharp');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl74CSharp');)

<%@ Page Language="C#" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<script runat="server">

protected void Page\_Load(object sender, EventArgs e)

{

// The HttpContext associated with the page can be accessed by the Context property.

System.Text.StringBuilder sb = new System.Text.StringBuilder();

// Use the current HttpContext object to determine if custom errors are enabled.

sb.Append("Is custom errors enabled: " +

Context.IsCustomErrorEnabled.ToString() + "<br/>");

// Use the current HttpContext object to determine if debugging is enabled.

sb.Append("Is debugging enabled: " +

Context.IsDebuggingEnabled.ToString() + "<br/>");

// Use the current HttpContext object to access the current TraceContext object.

sb.Append("Trace Enabled: " +

Context.Trace.IsEnabled.ToString() + "<br/>");

// Use the current HttpContext object to access the current HttpApplicationState object.

sb.Append("Number of items in Application state: " +

Context.Application.Count.ToString() + "<br/>");

// Use the current HttpContext object to access the current HttpSessionState object.

// Session state may not be configured.

try

{

sb.Append("Number of items in Session state: " +

Context.Session.Count.ToString() + "<br/>");

}

catch

{

sb.Append("Session state not enabled. <br/>");

}

// Use the current HttpContext object to access the current Cache object.

sb.Append("Number of items in the cache: " +

Context.Cache.Count.ToString() + "<br/>");

// Use the current HttpContext object to determine the timestamp for the current HTTP Request.

sb.Append("Timestamp for the HTTP request: " +

Context.Timestamp.ToString() + "<br/>");

// Assign StringBuilder object to output label.

OutputLabel.Text = sb.ToString();

}

</script>

<html >

<head runat="server">

<title>HttpContext Example</title>

</head>

<body>

<form id="form1" runat="server">

<div>

Using the current HttpContext to get information about the current page.

<br />

<asp:Label id="OutputLabel" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

http://i.msdn.microsoft.com/Global/Images/clear.gif Permissions

* [AspNetHostingPermission](http://msdn.microsoft.com/en-us/library/system.web.aspnethostingpermission.aspx)

for operating in a hosted environment. Demand value: [LinkDemand](http://msdn.microsoft.com/en-us/library/system.security.permissions.securityaction.linkdemand.aspx). Permission value: [Minimal](http://msdn.microsoft.com/en-us/library/system.web.aspnethostingpermissionlevel.minimal.aspx)

http://i.msdn.microsoft.com/Global/Images/clear.gif Inheritance Hierarchy

[System..::.Object](http://msdn.microsoft.com/en-us/library/system.object.aspx)  
  **System.Web..::.HttpContext**

http://i.msdn.microsoft.com/Global/Images/clear.gif Thread Safety

Any public **static** (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.

http://i.msdn.microsoft.com/Global/Images/clear.gif Platforms

Windows Vista, Windows XP SP2, Windows XP Media Center Edition, Windows XP Professional x64 Edition, Windows XP Starter Edition, Windows Server 2003, Windows Server 2000 SP4, Windows Millennium Edition, Windows 98

The .NET Framework and .NET Compact Framework do not support all versions of every platform. For a list of the supported versions, see [.NET Framework System Requirements](http://msdn.microsoft.com/en-us/library/8z6watww.aspx).

http://i.msdn.microsoft.com/Global/Images/clear.gif Version Information

**.NET Framework**

Supported in: 3.5, 3.0, 2.0, 1.1, 1.0