<http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx>

HttpContext Class

**.NET Framework 4**

[Other Versions](javascript:;)

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

[Inheritance Hierarchy](javascript:void(0))

[System.Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx)  
  System.Web.HttpContext

**Namespace:**  [System.Web](http://msdn.microsoft.com/en-us/library/system.web(v=vs.100).aspx)  
**Assembly:**  System.Web (in System.Web.dll)

[Syntax](javascript:void(0))

C#

[**C++**](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx?cs-save-lang=1&cs-lang=cpp#code-snippet-1)

[**F#**](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx?cs-save-lang=1&cs-lang=fsharp#code-snippet-1)

[**VB**](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx?cs-save-lang=1&cs-lang=vb#code-snippet-1)

public sealed class HttpContext : IServiceProvider

The HttpContext type exposes the following members.

[Constructors](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public method | [HttpContext(HttpWorkerRequest)](http://msdn.microsoft.com/en-us/library/868d56xs(v=vs.100).aspx) | Initializes a new instance of the HttpContext class that uses the specified worker-request object. |
| Public method | [HttpContext(HttpRequest, HttpResponse)](http://msdn.microsoft.com/en-us/library/c2zzwa6y(v=vs.100).aspx) | Initializes a new instance of the HttpContext class by using the specified request and response objects. |

[Top](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx#mainBody)

[Properties](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public property | [AllErrors](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.allerrors(v=vs.100).aspx) | Gets an array of errors accumulated while processing an HTTP request. |
| Public property | [Application](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.application(v=vs.100).aspx) | Gets the [HttpApplicationState](http://msdn.microsoft.com/en-us/library/system.web.httpapplicationstate(v=vs.100).aspx) object for the current HTTP request. |
| Public property | [ApplicationInstance](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.applicationinstance(v=vs.100).aspx) | Gets or sets the [HttpApplication](http://msdn.microsoft.com/en-us/library/system.web.httpapplication(v=vs.100).aspx) object for the current HTTP request. |
| Public property | [Cache](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.cache(v=vs.100).aspx) | Gets the [Cache](http://msdn.microsoft.com/en-us/library/system.web.caching.cache(v=vs.100).aspx) object for the current application domain. |
| Public propertyStatic member | [Current](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.current(v=vs.100).aspx) | Gets or sets the HttpContext object for the current HTTP request. |
| Public property | [CurrentHandler](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.currenthandler(v=vs.100).aspx) | Gets the [IHttpHandler](http://msdn.microsoft.com/en-us/library/system.web.ihttphandler(v=vs.100).aspx) object that represents the currently executing handler. |
| Public property | [CurrentNotification](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.currentnotification(v=vs.100).aspx) | Gets a [RequestNotification](http://msdn.microsoft.com/en-us/library/system.web.requestnotification(v=vs.100).aspx) value that indicates the current [HttpApplication](http://msdn.microsoft.com/en-us/library/system.web.httpapplication(v=vs.100).aspx) event that is processing. |
| Public property | [Error](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.error(v=vs.100).aspx) | Gets the first error (if any) accumulated during HTTP request processing. |
| Public property | [Handler](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.handler(v=vs.100).aspx) | Gets or sets the [IHttpHandler](http://msdn.microsoft.com/en-us/library/system.web.ihttphandler(v=vs.100).aspx) object responsible for processing the HTTP request. |
| Public property | [IsCustomErrorEnabled](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.iscustomerrorenabled(v=vs.100).aspx) | Gets a value indicating whether custom errors are enabled for the current HTTP request. |
| Public property | [IsDebuggingEnabled](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.isdebuggingenabled(v=vs.100).aspx) | Gets a value indicating whether the current HTTP request is in debug mode. |
| Public property | [IsPostNotification](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.ispostnotification(v=vs.100).aspx) | Gets a value that indicates whether the current ASP.NET event is considered a *post* event. |
| Public property | [Items](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.items(v=vs.100).aspx) | Gets a key/value collection that can be used to organize and share data between an [IHttpModule](http://msdn.microsoft.com/en-us/library/system.web.ihttpmodule(v=vs.100).aspx)interface and an [IHttpHandler](http://msdn.microsoft.com/en-us/library/system.web.ihttphandler(v=vs.100).aspx) interface during an HTTP request. |
| Public property | [PreviousHandler](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.previoushandler(v=vs.100).aspx) | Gets the [IHttpHandler](http://msdn.microsoft.com/en-us/library/system.web.ihttphandler(v=vs.100).aspx) object for the parent handler. |
| Public property | [Profile](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.profile(v=vs.100).aspx) | Gets the [ProfileBase](http://msdn.microsoft.com/en-us/library/system.web.profile.profilebase(v=vs.100).aspx) object for the current user profile. |
| Public property | [Request](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.request(v=vs.100).aspx) | Gets the [HttpRequest](http://msdn.microsoft.com/en-us/library/system.web.httprequest(v=vs.100).aspx) object for the current HTTP request. |
| Public property | [Response](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.response(v=vs.100).aspx) | Gets the [HttpResponse](http://msdn.microsoft.com/en-us/library/system.web.httpresponse(v=vs.100).aspx) object for the current HTTP response. |
| Public property | [Server](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.server(v=vs.100).aspx) | Gets the [HttpServerUtility](http://msdn.microsoft.com/en-us/library/system.web.httpserverutility(v=vs.100).aspx) object that provides methods used in processing Web requests. |
| Public property | [Session](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.session(v=vs.100).aspx) | Gets the [HttpSessionState](http://msdn.microsoft.com/en-us/library/system.web.sessionstate.httpsessionstate(v=vs.100).aspx) object for the current HTTP request. |
| Public property | [SkipAuthorization](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.skipauthorization(v=vs.100).aspx) | Gets or sets a value that specifies whether the [UrlAuthorizationModule](http://msdn.microsoft.com/en-us/library/system.web.security.urlauthorizationmodule(v=vs.100).aspx) object should skip the authorization check for the current request. |
| Public property | [Timestamp](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.timestamp(v=vs.100).aspx) | Gets the initial timestamp of the current HTTP request. |
| Public property | [Trace](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.trace(v=vs.100).aspx) | Gets the [TraceContext](http://msdn.microsoft.com/en-us/library/system.web.tracecontext(v=vs.100).aspx) object for the current HTTP response. |
| Public property | [User](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.user(v=vs.100).aspx) | Gets or sets security information for the current HTTP request. |

[Top](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx#mainBody)

[Methods](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public method | [AddError](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.adderror(v=vs.100).aspx) | Adds an exception to the exception collection for the current HTTP request. |
| Public method | [ClearError](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.clearerror(v=vs.100).aspx) | Clears all errors for the current HTTP request. |
| Public method | [Equals(Object)](http://msdn.microsoft.com/en-us/library/bsc2ak47(v=vs.100).aspx) | Determines whether the specified [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx) is equal to the current [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx). (Inherited from[Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Protected method | [Finalize](http://msdn.microsoft.com/en-us/library/system.object.finalize(v=vs.100).aspx) | Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public methodStatic member | [GetAppConfig](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.getappconfig(v=vs.100).aspx) | **Obsolete.**Returns requested configuration information for the current application. |
| Public method | [GetConfig](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.getconfig(v=vs.100).aspx) | **Obsolete.**Returns requested configuration information for the current HTTP request. |
| Public methodStatic member | [GetGlobalResourceObject(String, String)](http://msdn.microsoft.com/en-us/library/ms149948(v=vs.100).aspx) | Gets an application-level resource object based on the specified [ClassKey](http://msdn.microsoft.com/en-us/library/system.web.compilation.resourceexpressionfields.classkey(v=vs.100).aspx) and[ResourceKey](http://msdn.microsoft.com/en-us/library/system.web.compilation.resourceexpressionfields.resourcekey(v=vs.100).aspx) properties. |
| Public methodStatic member | [GetGlobalResourceObject(String, String, CultureInfo)](http://msdn.microsoft.com/en-us/library/ms149949(v=vs.100).aspx) | Gets an application-level resource object based on the specified [ClassKey](http://msdn.microsoft.com/en-us/library/system.web.compilation.resourceexpressionfields.classkey(v=vs.100).aspx) and[ResourceKey](http://msdn.microsoft.com/en-us/library/system.web.compilation.resourceexpressionfields.resourcekey(v=vs.100).aspx) properties, and on the [CultureInfo](http://msdn.microsoft.com/en-us/library/system.globalization.cultureinfo(v=vs.100).aspx) object. |
| Public method | [GetHashCode](http://msdn.microsoft.com/en-us/library/system.object.gethashcode(v=vs.100).aspx) | Serves as a hash function for a particular type. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public methodStatic member | [GetLocalResourceObject(String, String)](http://msdn.microsoft.com/en-us/library/ms149952(v=vs.100).aspx) | Gets a page-level resource object based on the specified [VirtualPath](http://msdn.microsoft.com/en-us/library/system.web.compilation.expressionbuildercontext.virtualpath(v=vs.100).aspx) and [ResourceKey](http://msdn.microsoft.com/en-us/library/system.web.compilation.resourceexpressionfields.resourcekey(v=vs.100).aspx)properties. |
| Public methodStatic member | [GetLocalResourceObject(String, String, CultureInfo)](http://msdn.microsoft.com/en-us/library/ms149953(v=vs.100).aspx) | Gets a page-level resource object based on the specified [VirtualPath](http://msdn.microsoft.com/en-us/library/system.web.compilation.expressionbuildercontext.virtualpath(v=vs.100).aspx) and [ResourceKey](http://msdn.microsoft.com/en-us/library/system.web.compilation.resourceexpressionfields.resourcekey(v=vs.100).aspx)properties, and on the [CultureInfo](http://msdn.microsoft.com/en-us/library/system.globalization.cultureinfo(v=vs.100).aspx) object. |
| Public method | [GetSection](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.getsection(v=vs.100).aspx) | Gets a specified configuration section for the current application's default configuration. |
| Public method | [GetType](http://msdn.microsoft.com/en-us/library/system.object.gettype(v=vs.100).aspx) | Gets the [Type](http://msdn.microsoft.com/en-us/library/system.type(v=vs.100).aspx) of the current instance. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Protected method | [MemberwiseClone](http://msdn.microsoft.com/en-us/library/system.object.memberwiseclone(v=vs.100).aspx) | Creates a shallow copy of the current [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx). (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public method | [RemapHandler](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.remaphandler(v=vs.100).aspx) | Enables you to specify a handler for the request. |
| Public method | [RewritePath(String)](http://msdn.microsoft.com/en-us/library/sa5wkk6d(v=vs.100).aspx) | Rewrites the URL using the given path. |
| Public method | [RewritePath(String, Boolean)](http://msdn.microsoft.com/en-us/library/1kz7fdx9(v=vs.100).aspx) | Rewrites the URL using the given path and a Boolean value that specifies whether the virtual path for server resources is modified. |
| Public method | [RewritePath(String, String, String)](http://msdn.microsoft.com/en-us/library/7hkaxdb4(v=vs.100).aspx) | Rewrites the URL by using the given path, path information, and query string information. |
| Public method | [RewritePath(String, String, String, Boolean)](http://msdn.microsoft.com/en-us/library/ms223300(v=vs.100).aspx) | Rewrites the URL using the given virtual path, path information, query string information, and a Boolean value that specifies whether the client file path is set to the rewrite path. |
| Public method | [SetSessionStateBehavior](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.setsessionstatebehavior(v=vs.100).aspx) | Sets the type of session state behavior that is required in order to support an HTTP request. |
| Public method | [ToString](http://msdn.microsoft.com/en-us/library/system.object.tostring(v=vs.100).aspx) | Returns a string that represents the current object. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |

[Top](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx#mainBody)

[Explicit Interface Implementations](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Explicit interface implemetationPrivate method | [IServiceProvider.GetService](http://msdn.microsoft.com/en-us/library/bb342484(v=vs.100).aspx) | Infrastructure. Returns an object for the current service type. |

[Top](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx#mainBody)

[Remarks](javascript:void(0))

Classes that inherit the [IHttpModule](http://msdn.microsoft.com/en-us/library/system.web.ihttpmodule(v=vs.100).aspx) and [IHttpHandler](http://msdn.microsoft.com/en-us/library/system.web.ihttphandler(v=vs.100).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(v=vs.100).aspx), [Response](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.response(v=vs.100).aspx), and [Server](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.server(v=vs.100).aspx) properties for the request.

| **Topic** | **Location** |
| --- | --- |
| [How to: Create an Asynchronous HTTP Handler](http://msdn.microsoft.com/en-us/library/ms227433(v=vs.85).aspx) | Building ASP .NET Web Applications |
| [Developing Custom Data-Bound Web Server Controls for ASP.NET 1.1](http://msdn.microsoft.com/en-us/library/ms366538(v=vs.85).aspx) | Authoring ASP.NET Controls |
| [Walkthrough: Developing and Using a Custom Server Control](http://msdn.microsoft.com/en-us/library/yhzc935f(v=vs.85).aspx) | Authoring ASP.NET Controls |
| [Developing Custom Data-Bound Web Server Controls for ASP.NET 2.0](http://msdn.microsoft.com/en-us/library/ms366539(v=vs.85).aspx) | Authoring ASP.NET Controls |
| [Walkthrough: Creating a Custom Data-Bound ASP.NET Web Control for ASP.NET 2.0](http://msdn.microsoft.com/en-us/library/ms366540(v=vs.85).aspx) | Authoring ASP.NET Controls |
| [Walkthrough: Creating a Custom Data-Bound ASP.NET Web Control for ASP.NET 1.1](http://msdn.microsoft.com/en-us/library/ms366541(v=vs.85).aspx) | Authoring ASP.NET Controls |
| [Walkthrough: Developing and Using a Custom Server Control](http://msdn.microsoft.com/en-us/library/yhzc935f(v=vs.80).aspx) | Authoring ASP.NET Controls |
| [Developing Custom Data-Bound Web Server Controls for ASP.NET 1.1](http://msdn.microsoft.com/en-us/library/ms366538(v=vs.80).aspx) | Authoring ASP.NET Controls |
| [Developing Custom Data-Bound Web Server Controls for ASP.NET 2.0](http://msdn.microsoft.com/en-us/library/ms366539(v=vs.80).aspx) | Authoring ASP.NET Controls |
| [Walkthrough: Creating a Custom Data-Bound ASP.NET Web Control for ASP.NET 2.0](http://msdn.microsoft.com/en-us/library/ms366540(v=vs.80).aspx) | Authoring ASP.NET Controls |
| [Walkthrough: Creating a Custom Data-Bound ASP.NET Web Control for ASP.NET 1.1](http://msdn.microsoft.com/en-us/library/ms366541(v=vs.80).aspx) | Authoring ASP.NET Controls |
| [How to: Create an Asynchronous HTTP Handler](http://msdn.microsoft.com/en-us/library/ms227433(v=vs.80).aspx) | Building ASP .NET Web Applications |
| [Developing Custom Data-Bound Web Server Controls for ASP.NET 1.1](http://msdn.microsoft.com/en-us/library/ms366538(v=vs.100).aspx) | Building ASP .NET Web Applications in Visual Studio |
| [Walkthrough: Creating a Custom Data-Bound ASP.NET Web Control for ASP.NET 1.1](http://msdn.microsoft.com/en-us/library/ms366541(v=vs.100).aspx) | Building ASP .NET Web Applications in Visual Studio |

[Examples](javascript:void(0))

A Visual Studio Web site project with source code is available to accompany this topic: [Download](http://go.microsoft.com/fwlink/?LinkId=192422).

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(v=vs.100).aspx) property of the [Page](http://msdn.microsoft.com/en-us/library/system.web.ui.page(v=vs.100).aspx) object.

C#

[**VB**](http://msdn.microsoft.com/en-us/library/system.web.httpcontext(v=vs.100).aspx?cs-save-lang=1&cs-lang=vb#code-snippet-2)

<%@ 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 xmlns="http://www.w3.org/1999/xhtml" >

<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>

[Version Information](javascript:void(0))

.NET Framework

Supported in: 4, 3.5, 3.0, 2.0, 1.1, 1.0

[Platforms](javascript:void(0))

Windows 7, Windows Vista SP1 or later, Windows XP SP3, Windows XP SP2 x64 Edition, Windows Server 2008 (Server Core not supported), Windows Server 2008 R2 (Server Core supported with SP1 or later), Windows Server 2003 SP2

The .NET Framework does 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(v=vs.100).aspx).

[Thread Safety](javascript:void(0))

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