

# HttpContext Class

.NET Framework (current version)

## Note

The .NET API Reference documentation has a new home. Visit the [.NET API Browser](https://docs.microsoft.com/dotnet/api/) on docs.microsoft.com to see the new experience.

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

**Namespace:** [System.Web](#)

**Assembly:** System.Web (in System.Web.dll)

## Inheritance Hierarchy

[System.Object](#)



System.Web.HttpContext

## Syntax





















C#













```
public sealed class HttpContext : IServiceProvider
```

## Constructors





	Name	Description
	<a href="#">HttpContext(HttpContext.Request, HttpContext.Response)</a>	Initializes a new instance of the HttpContext class by using the specified request and response objects.
	<a href="#">HttpContext(HttpContext.WorkerRequest)</a>	Initializes a new instance of the HttpContext class that uses the specified worker-request object.

## Properties



	Name	Description
	<a href="#">AllErrors</a>	Gets an array of errors accumulated while processing an HTTP request.
	<a href="#">AllowAsyncDuringSyncStages</a>	Gets or sets a value that indicates whether asynchronous operations are allowed during parts of ASP.NET request processing when they are not expected.
	<a href="#">Application</a>	Gets the <a href="#">HttpApplicationState</a> object for the current HTTP request.
	<a href="#">ApplicationInstance</a>	Gets or sets the <a href="#">HttpApplication</a> object for the current HTTP request.
	<a href="#">AsyncPreloadMode</a>	Gets or sets an object that contains flags that pertain to asynchronous preload mode.
	<a href="#">Cache</a>	Gets the <a href="#">Cache</a> object for the current application domain.
 	<a href="#">Current</a>	Gets or sets the HttpContext object for the current HTTP request.
	<a href="#">CurrentHandler</a>	Gets the <a href="#">IHttpHandler</a> object that represents the currently executing handler.
	<a href="#">CurrentNotification</a>	Gets a <a href="#">RequestNotification</a> value that indicates the current <a href="#">HttpApplication</a> event that is processing.
	<a href="#">Error</a>	Gets the first error (if any) accumulated during HTTP request processing.
	<a href="#">Handler</a>	Gets or sets the <a href="#">IHttpHandler</a> object responsible for processing the HTTP request.
	<a href="#">IsCustomErrorEnabled</a>	Gets a value indicating whether custom errors are enabled for the current HTTP request.
	<a href="#">IsDebuggingEnabled</a>	Gets a value indicating whether the current HTTP request is in debug mode.
	<a href="#">IsPostNotification</a>	Gets a value that is the current processing point in the ASP.NET pipeline just after an <a href="#">HttpApplication</a> event has finished processing.
	<a href="#">IsWebSocketRequest</a>	Gets a value that indicates whether the request is an <a href="#">AspNetWebSocket</a> request.
	<a href="#">IsWebSocketRequestUpgrading</a>	Gets a value that indicates whether the connection is upgrading from an HTTP connection to an <a href="#">AspNetWebSocket</a> connection.
	<a href="#">Items</a>	Gets a key/value collection that can be used to organize and share data between an <a href="#">IHttpModule</a> interface and an <a href="#">IHttpHandler</a> interface during an HTTP request.
	<a href="#">PageInstrumentation</a>	Gets a reference to the page-instrumentation service instance for this request.
	<a href="#">PreviousHandler</a>	Gets the <a href="#">IHttpHandler</a> object for the parent handler.

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	<a href="#">Profile</a>	Gets the <a href="#">ProfileBase</a> object for the current user profile.
	<a href="#">Request</a>	Gets the <a href="#">HttpRequest</a> object for the current HTTP request.
	<a href="#">Response</a>	Gets the <a href="#">HttpResponse</a> object for the current HTTP response.
	<a href="#">Server</a>	Gets the <a href="#">HttpServerUtility</a> object that provides methods used in processing Web requests.
	<a href="#">Session</a>	Gets the <a href="#">HttpSessionState</a> object for the current HTTP request.
	<a href="#">SkipAuthorization</a>	Gets or sets a value that specifies whether the <a href="#">UrlAuthorizationModule</a> object should skip the authorization check for the current request.
	<a href="#">ThreadAbortOnTimeout</a>	Gets or sets a value that specifies whether the ASP.NET runtime should call <a href="#">Thread.Abort</a> on the thread that is servicing this request when the request times out.
	<a href="#">Timestamp</a>	Gets the initial timestamp of the current HTTP request.
	<a href="#">Trace</a>	Gets the <a href="#">TraceContext</a> object for the current HTTP response.
	<a href="#">User</a>	Gets or sets security information for the current HTTP request.
	<a href="#">WebSocketNegotiatedProtocol</a>	Gets the negotiated protocol that was sent from the server to the client for an <a href="#">AspNetWebSocket</a> connection.
	<a href="#">WebSocketRequestedProtocols</a>	Gets the ordered list of protocols requested by the client.


## Methods

	Name	Description
	<a href="#">AcceptWebSocketRequest(Func&lt;AspNetWebSocketContext, Task&gt;)</a>	Accepts an <a href="#">AspNetWebSocket</a> request using the specified user function.
	<a href="#">AcceptWebSocketRequest(Func&lt;AspNetWebSocketContext, Task&gt;, AspNetWebSocketOptions)</a>	Accepts an <a href="#">AspNetWebSocket</a> request using the specified user function and options object.
	<a href="#">AddError(Exception)</a>	Adds an exception to the exception collection for the current HTTP request.
	<a href="#">AddOnRequestCompleted(Action&lt;</a>	Raises a virtual event that occurs when the HTTP part of the

	<a href="#">HttpContext&gt;</a>	request is ending.
	<a href="#">ClearError()</a>	Clears all errors for the current HTTP request.
	<a href="#">DisposeOnPipelineCompleted(IDisposable)</a>	Enables an object's <a href="#">Dispose</a> method to be called when the <a href="#">AspNetWebSocket</a> connection part of this request is completed.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object.(Inherited from <a href="#">Object</a> .)
	<a href="#">GetAppConfig(String)</a>	<b>Obsolete.</b> Returns requested configuration information for the current application.
	<a href="#">GetConfig(String)</a>	<b>Obsolete.</b> Returns requested configuration information for the current HTTP request.
	<a href="#">GetGlobalResourceObject(String, String)</a>	Gets an application-level resource object based on the specified <a href="#">ClassKey</a> and <a href="#">ResourceKey</a> properties.
	<a href="#">GetGlobalResourceObject(String, String, CultureInfo)</a>	Gets an application-level resource object based on the specified <a href="#">ClassKey</a> and <a href="#">ResourceKey</a> properties, and on the <a href="#">CultureInfo</a> object.
	<a href="#">GetHashCode()</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetLocalResourceObject(String, String)</a>	Gets a page-level resource object based on the specified <a href="#">VirtualPath</a> and <a href="#">ResourceKey</a> properties.
	<a href="#">GetLocalResourceObject(String, String, CultureInfo)</a>	Gets a page-level resource object based on the specified <a href="#">VirtualPath</a> and <a href="#">ResourceKey</a> properties, and on the <a href="#">CultureInfo</a> object.
	<a href="#">GetSection(String)</a>	Gets a specified configuration section for the current application's default configuration.
	<a href="#">GetType()</a>	Gets the <a href="#">Type</a> of the current instance.(Inherited from <a href="#">Object</a> .)
	<a href="#">RemapHandler(IHttpHandler)</a>	Enables you to specify a handler for the request.
	<a href="#">RewritePath(String)</a>	Rewrites the URL using the given path.
	<a href="#">RewritePath(String, Boolean)</a>	Rewrites the URL using the given path and a Boolean value that specifies whether the virtual path for server resources is modified.
	<a href="#">RewritePath(String, String, String)</a>	Rewrites the URL by using the given path, path information, and query string information.
	<a href="#">RewritePath(String, String, String, Boolean)</a>	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.

	<a href="#">SetSessionStateBehavior(SessionStateBehavior)</a>	Sets the type of session state behavior that is required in order to support an HTTP request.
	<a href="#">ToString()</a>	Returns a string that represents the current object.(Inherited from <a href="#">Object</a> .)

## Explicit Interface Implementations

	Name	Description
	<a href="#">IServiceProvider.GetService(Type)</a>	This API supports the product infrastructure and is not intended to be used directly from your code. Returns an object for the current service type.

## Remarks

Classes that inherit the [IHttpModule](#) and [IHttpHandler](#) interfaces are provided a reference to an HttpContext object for the current HTTP request. The object provides access to the intrinsic [Request](#), [Response](#), and [Server](#) properties for the request.

## Examples

A Visual Studio Web site project with source code is available to accompany this topic: [Download](#).

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](#) property of the [Page](#) object.

C#

```
<%@ 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

### .NET Framework

Available since 1.1

## 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.

## See Also

[IHttpModule](#)

[IHttpHandler](#)

[System.Web Namespace](#)

[A Matter of Context](#)

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