AttributeTargets Enumeration

<http://msdn.microsoft.com/en-us/library/system.attributetargets(v=vs.71).aspx>

**.NET Framework 1.1**

[Other Versions](javascript:;)

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Specifies the application elements on which it is valid to apply an attribute.

This enumeration has a [FlagsAttribute](http://msdn.microsoft.com/en-us/library/system.flagsattribute(v=vs.71).aspx) attribute that allows a bitwise combination of its member values.

[Visual Basic]

<Flags>

<Serializable>

**Public Enum AttributeTargets**

[C#]

[Flags]

[Serializable]

**public enum AttributeTargets**

[C++]

[Flags]

[Serializable]

**\_\_value public enum AttributeTargets**

[JScript]

**public**

Flags

Serializable

**enum AttributeTargets**

Remarks

**AttributeTargets** is used as a parameter of [AttributeUsageAttribute](http://msdn.microsoft.com/en-us/library/system.attributeusageattribute(v=vs.71).aspx) to specify the kind of element on which it is valid to apply an attribute.

**AttributeTargets** enumeration values can be combined with a bitwise OR operation to get the preferred combination.

Members

|  |  |  |
| --- | --- | --- |
| **Member name** | **Description** | **Value** |
| **All**  Supported by the .NET Compact Framework. | Attribute can be applied to any application element. | 16383 |
| **Assembly**  Supported by the .NET Compact Framework. | Attribute can be applied to an assembly. | 1 |
| **Class**  Supported by the .NET Compact Framework. | Attribute can be applied to a class. | 4 |
| **Constructor**  Supported by the .NET Compact Framework. | Attribute can be applied to a constructor. | 32 |
| **Delegate**  Supported by the .NET Compact Framework. | Attribute can be applied to a delegate. | 4096 |
| **Enum**  Supported by the .NET Compact Framework. | Attribute can be applied to an enumeration. | 16 |
| **Event**  Supported by the .NET Compact Framework. | Attribute can be applied to an event. | 512 |
| **Field**  Supported by the .NET Compact Framework. | Attribute can be applied to a field. | 256 |
| **Interface**  Supported by the .NET Compact Framework. | Attribute can be applied to an interface. | 1024 |
| **Method**  Supported by the .NET Compact Framework. | Attribute can be applied to a method. | 64 |
| **Module**  Supported by the .NET Compact Framework. | Attribute can be applied to a module.  **Note**    *Module* refers to a portable executable file (.dll or .exe) and not a Visual Basic standard module. | 2 |
| **Parameter**  Supported by the .NET Compact Framework. | Attribute can be applied to a parameter. | 2048 |
| **Property**  Supported by the .NET Compact Framework. | Attribute can be applied to a property. | 128 |
| **ReturnValue**  Supported by the .NET Compact Framework. | Attribute can be applied to a return value. | 8192 |
| **Struct**  Supported by the .NET Compact Framework. | Attribute can be applied to a structure; that is, a value type. | 8 |

Example

The following code sample illustrates the application of the **AttributeTargets** enumeration:

[C#]

using System;

namespace AttTargsCS {

// This attribute is only valid on a class.

[AttributeUsage(AttributeTargets.Class)]

public class ClassTargetAttribute : Attribute {

}

// This attribute is only valid on a method.

[AttributeUsage(AttributeTargets.Method)]

public class MethodTargetAttribute : Attribute {

}

// This attribute is only valid on a constructor.

[AttributeUsage(AttributeTargets.Constructor)]

public class ConstructorTargetAttribute : Attribute {

}

// This attribute is only valid on a field.

[AttributeUsage(AttributeTargets.Field)]

public class FieldTargetAttribute : Attribute {

}

// This attribute is valid on a class or a method.

[AttributeUsage(AttributeTargets.Class|AttributeTargets.Method)]

public class ClassMethodTargetAttribute : Attribute {

}

// This attribute is valid on any target.

[AttributeUsage(AttributeTargets.All)]

public class AllTargetsAttribute : Attribute {

}

[ClassTarget]

[ClassMethodTarget]

[AllTargets]

public class TestClassAttribute {

[ConstructorTarget]

[AllTargets]

TestClassAttribute() {

}

[MethodTarget]

[ClassMethodTarget]

[AllTargets]

public void Method1() {

}

[FieldTarget]

[AllTargets]

public int myInt;

static void Main(string[] args) {

}

}

}

[C++]

#using <mscorlib.dll>

using namespace System;

namespace AttTargsCS {

// This attribute is only valid on a class.

[AttributeUsage(AttributeTargets::Class)]

public \_\_gc class ClassTargetAttribute : public Attribute {

};

// This attribute is only valid on a method.

[AttributeUsage(AttributeTargets::Method)]

public \_\_gc class MethodTargetAttribute : public Attribute {

};

// This attribute is only valid on a constructor.

[AttributeUsage(AttributeTargets::Constructor)]

public \_\_gc class ConstructorTargetAttribute : public Attribute {

};

// This attribute is only valid on a field.

[AttributeUsage(AttributeTargets::Field)]

public \_\_gc class FieldTargetAttribute : public Attribute {

};

// This attribute is valid on a class or a method.

[AttributeUsage(AttributeTargets::Class|AttributeTargets::Method)]

public \_\_gc class ClassMethodTargetAttribute : public Attribute {

};

// This attribute is valid on any target.

[AttributeUsage(AttributeTargets::All)]

public \_\_gc class AllTargetsAttribute : public Attribute {

};

[ClassTarget]

[ClassMethodTarget]

[AllTargets]

public \_\_gc class TestClassAttribute {

[ConstructorTarget]

[AllTargets]

TestClassAttribute() {

}

public:

[MethodTarget]

[ClassMethodTarget]

[AllTargets]

void Method1() {

}

[FieldTarget]

[AllTargets]

int myInt;

static void Main() {

}

};

}

[JScript]

import System;

package AttTargsJS {

// This attribute is only valid on a class.

AttributeUsage(AttributeTargets.Class)

public class ClassTargetAttribute extends Attribute {

}

// This attribute is only valid on a method.

AttributeUsage(AttributeTargets.Method)

public class MethodTargetAttribute extends Attribute {

}

// This attribute is only valid on a constructor.

AttributeUsage(AttributeTargets.Constructor)

public class ConstructorTargetAttribute extends Attribute {

}

// This attribute is only valid on a field.

AttributeUsage(AttributeTargets.Field)

public class FieldTargetAttribute extends Attribute {

}

// This attribute is valid on a class or a method.

AttributeUsage(AttributeTargets.Class|AttributeTargets.Method)

public class ClassMethodTargetAttribute extends Attribute {

}

// This attribute is valid on any target.

AttributeUsage(AttributeTargets.All)

public class AllTargetsAttribute extends Attribute {

}

ClassTargetAttribute

ClassMethodTargetAttribute

AllTargetsAttribute

public class TestClassAttribute {

ConstructorTargetAttribute

AllTargetsAttribute

function TestClassAttribute() {

}

MethodTargetAttribute

ClassMethodTargetAttribute

AllTargetsAttribute

public function Method1() {

}

FieldTargetAttribute

AllTargetsAttribute

public var myInt : int;

static function Main(args : String[]) {

}

}

}

[Visual Basic] No example is available for Visual Basic. To view a C#, C++, or JScript example, click the Language Filter button Language Filter in the upper-left corner of the page.

Requirements

**Namespace:**[System](http://msdn.microsoft.com/en-us/library/system(v=vs.71).aspx)

**Platforms:**Windows 98, Windows NT 4.0, Windows Millennium Edition, Windows 2000, Windows XP Home Edition, Windows XP Professional, Windows Server 2003 family, .NET Compact Framework

**Assembly:**Mscorlib (in Mscorlib.dll)

See Also

[System Namespace](http://msdn.microsoft.com/en-us/library/system(v=vs.71).aspx) | [AttributeUsageAttribute](http://msdn.microsoft.com/en-us/library/system.attributeusageattribute(v=vs.71).aspx)