

[Learn](#)[Documentation](#)[Training](#)[Credentials](#)[Q&A](#)[Code Samples](#)[Assessments](#)[Shows](#)[Sign in](#)[.NET](#)[Languages](#)[Features](#)[Workloads](#)[APIs](#)[Resources](#)[Download .NET](#)

.NET documentation

Learn to use .NET to create applications on any platform using C#, F#, and Visual Basic. Browse API reference, sample code, tutorials, and more.



DOWNLOAD
Download .NET



TRAINING
Build .NET apps
with C#



TRAINING
Create your first
web app



GET STARTED
Interactive
introduction to C#



ARCHITECTURE
.NET architecture
docs



OVERVIEW
Azure for .NET
developers



WHAT'S NEW
What's new in .NET
docs

.NET: Free. Cross platform. Open source.

A developer platform for building all your apps: web, mobile, desktop, gaming, IoT, and more. Supported on Windows, Linux, and macOS.

Open source .NET

.NET overview

.NET concepts

What is .NET?

Develop .NET apps

Create .NET desktop apps for
Windows

.NET tools and diagnostics

.NET SDK overview

.NET API browser

Welcome to the .NET API browser – your one-stop shop for all .NET-based APIs from Microsoft. Start searching for any managed APIs by typing in the box below.

If you have any feedback, create a new issue in the [dotnet/dotnet-api-docs](#) repo.

.NET 6 ▾

.NET API Reference version 6

Name	Description
Microsoft.CSharp.RuntimeBinder Namespace	Provides classes and interfaces that support interoperability between Dynamic Language Runtime and C#.
Microsoft.VisualBasic Namespace	Contains types that support the Visual Basic Runtime in Visual Basic.
Microsoft.VisualBasic.CompilerServices Namespace	Contains internal-use only types that support the Visual Basic compiler.
Microsoft.VisualBasic.FileIO Namespace	Contains types that support the My file system object in Visual Basic.
Microsoft.Win32 Namespace	Provides two types of classes: those that handle events raised by the operating system and those that manipulate the system registry.

Microsoft

Learn

Documentation

Training

Credentials

Q&A

Code Samples

Assessments

Shows

Search

Sign in

.NET

Languages

Features

Workloads

APIs

Resources

Download .NET

Version

.NET 6

Search

System

> AccessViolationException

Action

Action<T>

Action<T1,T2>

Action<T1,T2,T3>

Action<T1,T2,T3,T4>

Action<T1,T2,T3,T4,T5>

Action<T1,T2,T3,T4,T5,T6>

Action<T1,T2,T3,T4,T5,T6,T7>

Action<T1,T2,T3,T4,T5,T6,T7,T8>

Action<T1,T2,T3,T4,T5,T6,T7,T8,T9>

Action<T1,T2,T3,T4,T5,T6,T7,T8,T9,T10>

Action<T1,T2,T3,T4,T5,T6,T7,T8,T9,T10,T11>

Action<T1,T2,T3,T4,T5,T6,T7,T8,T9,T10,T11,T12>

Download PDF

Learn / .NET / API browser /

+

System Namespace

Reference

Feedback

Contains fundamental classes and base classes that define commonly-used value and reference data types, events and event handlers, interfaces, attributes, and processing exceptions.

Classes

AccessViolationException	The exception that is thrown when there is an attempt to read or write protected memory.
Activator	Contains methods to create types of objects locally or remotely, or obtain references to existing remote objects. This class cannot be inherited.
AggregateException	Represents one or more errors that occur during application execution.
AppContext	Provides members for setting and retrieving data about an application's context.
AppDomain	Represents an application domain, which is an isolated environment where applications execute. This class cannot be inherited.

In this article

Classes

Structs

Interfaces

Enums

Show more

Microsoft

Learn

Documentation

Training

Credentials

Q&A

Code Samples

Assessments

Shows

Search

Sign in

.NET

Languages

Features

Workloads

APIs

Resources

Download .NET

Version

.NET 6

Search

Int32

Int32

Fields

Methods

Explicit Interface Implementations

Int64

IntPtr

InvalidCastException

InvalidOperationException

InvalidProgramException

InvalidTimeZoneException

IObservable<T>

IObserver<T>

IProgress<T>

IServiceProvider

ISpanFormattable

Lazy<T>

Lazy<T,TMetadata>

Download PDF

Learn / .NET / API browser / System /

C#

Feedback

Int32 Struct

Reference

Definition

Namespace: System

Assembly: System.Runtime.dll

Represents a 32-bit signed integer.

C#

Copy

public readonly struct Int32 : IComparable, IComparable<int>, IConvertible, IEquatable<int>, ISpanFormattable

Inheritance Object → ValueType → Int32

Implements IComparable , IComparable<Int32> , IConvertible , IEquatable<Int32> , IFormattable , ISpanFormattable

Remarks

In this article

Definition

Remarks

Fields

Methods

Show more

Microsoft

Learn

Documentation

Training

Credentials

Q&A

Code Samples

Assessments

Shows

Search

Sign in

.NET

Languages

Features

Workloads

APIs

Resources

Download .NET

Version

.NET 6

Search

Previous

Next

MaxValue

MinValue

> Methods

> Explicit Interface Implementations

> Int64

> IntPtr

> InvalidCastException

> InvalidOperationException

> InvalidProgramException

> InvalidTimeZoneException

> IObservable<T>

> IObservable<T>

> IProgress<T>

> IServiceProvider

> ISpanFormattable

> Lazy<T>

> Lazy<T,TMetadata>

Download PDF

...

/ .NET

/ API browser

/ System

/ Int32

/

C#

Int32.MaxValue Field

Reference

Feedback

Definition

Namespace: [System](#)

Assembly: [System.Runtime.dll](#)

Represents the largest possible value of an [Int32](#). This field is constant.

C#

Copy

```
public const int MaxValue = 2147483647;
```

Field Value

Value = **2147483647**

[Int32](#)

Examples

The following example uses the [MaxValue](#) property to prevent an [OverflowException](#) when converting to an [Int32](#) value.

In this article

Definition

Examples

Remarks

Applies to

Show more