

# System.TypeLoadException Class

```
[ILASM]
.class public serializable TypeLoadException extends
System.SystemException

[C#]
public class TypeLoadException: SystemException
```

## Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

## Summary

Represents the error that occurs when the system cannot load a **System.Type**.

## Inherits From: System.SystemException

**Library:** RuntimeInfrastructure

**Thread Safety:** All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

## Description

**System.TypeLoadException** is thrown when the system cannot load a **System.Type**, or cannot locate the assembly that contains the **System.Type**.

[Note: The following IL instructions throw **System.TypeLoadException**:

- box
- castclass
- isinst
- ldobj
- mkrefany

- 1
  - refanyval
- 2
  - stobj
- 3
  - unbox
- 4 ]
- 5

# 1   TypeLoadException() Constructor

```
2       [ILASM]  
3       public rtspecialname specialname instance void .ctor()  
  
4       [C#]  
5       public TypeLoadException()
```

## 6   Summary

7       Constructs and initializes a new instance of the  
8       **System.TypeLoadException** class.

## 9   Description

10       This constructor initializes the **System.TypeLoadException.Message**  
11       property of the new instance to a system-supplied message that  
12       describes the error, such as "A failure has occurred while loading a  
13       type." This message takes into account the current system culture.

14  
15       The **System.TypeLoadException.TypeName** property is initialized  
16       to **System.String.Empty**, and the  
17       **System.TypeLoadException.InnerException** property is initialized  
18       to **null**.

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# TypeLoadException(System.String) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(string
message)

[C#]
public TypeLoadException(string message)
```

## Summary

Constructs and initializes a new instance of the **System.TypeLoadException** class.

## Parameters

Parameter	Description
<i>message</i>	A <b>System.String</b> that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.

## Description

This constructor initializes the **System.TypeLoadException.Message** property of the new instance using *message*. If *message* is **null**, the **System.TypeLoadException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments.

The **System.TypeLoadException.TypeName** property is initialized to **System.String.Empty**, and the **System.TypeLoadException.InnerException** property is initialized to **null**.

# TypeLoadException(System.String, System.Exception) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(string
message, class System.Exception inner)

[C#]
public TypeLoadException(string message, Exception inner)
```

## Summary

Constructs and initializes a new instance of the **System.TypeLoadException** class.

## Parameters

Parameter	Description
<i>message</i>	A <b>System.String</b> that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.
<i>inner</i>	An instance of <b>System.Exception</b> that is the cause of the current exception. If <i>inner</i> is non-null, then the current Exception was raised in a catch block handling <i>inner</i> .

## Description

This constructor initializes the **System.TypeLoadException.Message** property of the new instance using *message* and the **System.TypeLoadException.InnerException** property using *inner*. If *message* is **null**, the **System.TypeLoadException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments.

The **System.TypeLoadException.TypeName** property is initialized to **System.String.Empty**.

For more information on inner exceptions, see **System.Exception.InnerException**.

# TypeLoadException.Message Property

```
[ILASM]
.property string Message { public hidebysig virtual
specialname string get_Message() }

[C#]
public override string Message { get; }
```

## Summary

Gets the error message for this exception.

## Property Value

A **System.String** containing a message that describes the error.

## Description

This property is read-only.

[*Note:* This property overrides **System.Exception.Message**.]

If no message was supplied to the constructor for the current instance, the system supplies a default message that is formatted using the current system culture. The system-supplied message includes the fully qualified name of the type that failed to load, and the string obtained by invoking **System.Reflection.Assembly.ToString** on the assembly that referenced the type. For a type named *MyTypes.MyClass*, referenced by an assembly with the simple name *MyAssembly*, the message might read as follows:

```
Could not load type MyTypes.MyClass from assembly
MyAssembly, Version=0.0.0.0, Culture=neutral,
PublicKeyToken=null.
```

# 1    **TypeLoadException.TypeName** Property

```
2        [ILASM]  
3        .property string TypeName { public hidebysig specialname  
4        instance string get_TypeName() }  
  
5        [C#]  
6        public string TypeName { get; }
```

## 7    **Summary**

8        Gets the fully qualified name of the **System.Type** that failed to load.

## 9    **Property Value**

10

11        A **System.String** containing the fully qualified type name, or  
12        **System.String.Empty** if no type name was supplied to the  
13        constructor of the current instance.

## 14   **Description**

15        This property is read-only.

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