

1 System.MethodAccessException Class

```
2 [ILAsm]  
3 .class public serializable MethodAccessException extends  
4 System.MemberAccessException  
  
5 [C#]  
6 public class MethodAccessException: MemberAccessException
```

7 Assembly Info:

- 8 • *Name:* mscorlib
- 9 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 10 • *Version:* 2.0.x.x
- 11 • *Attributes:*
 - 12 ○ CLSCompliantAttribute(true)

13 Summary

14 Represents the error that occurs when there is an attempt to access a method outside
15 the scope in which access is permitted.

16 Inherits From: System.MemberAccessException

17

18 **Library:** RuntimeInfrastructure

19

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

22

23 Description

24 [*Note:* This exception is thrown when the access level of a method in a class library is
25 changed, and one or more assemblies referencing the library have not been recompiled.
26 This exception is also thrown when an attempt to invoke a method via reflection fails
27 because the caller does not have the required permissions.]

28

29

30 Example

31 The following example demonstrates a scenario under which
32 System.MethodAccessException is thrown.

33

34 The following code contains a class with a public method (MyMethod). This class is
35 compiled into a class library.

36

37 [C#]

```
38 using System;  
39 namespace TestNameSpace
```

```

1  {
2  public class Class1
3  {
4      public Class1()
5      {
6          Console.WriteLine ("Constructing with public method.");
7      }
8      public void MyMethod ()
9      {
10         Console.WriteLine ("Calling MyMethod.");
11     }
12 }
13 }
14

```

15 The following code references the class library above, and accesses
16 TestNameSpace.Class1.MyMethod. This code is compiled into an application.

```

17
18 [C#]
19 using System;
20 using TestNameSpace;
21 class AppTest
22 {
23     public static void Main()
24     {
25         Class1 test = new Class1();
26         test.MyMethod();
27     }
28 }
29

```

30 The output of the application is

```

31
32 Constructing with public method.
33

```

```

34
35 Calling MyMethod.
36
37

```

38 The code for the class library is changed and recompiled so that
39 TestNameSpace.Class1.MyMethod is no longer public. The following code changes MyMethod
40 from public to private.

```

41
42 [C#]
43 using System;
44 namespace TestNameSpace
45 {
46     public class Class1
47     {
48         public Class1()
49         {
50             Console.WriteLine ("Constructing with private method.");
51         }
52         private void MyMethod ()

```

```
1      {  
2          Console.WriteLine ("Calling MyMethod.");  
3      }  
4  }  
5  }  
6
```

7 When the application is executed again without being recompiled, the output is

```
8  
9 Unhandled Exception: System.MethodAccessException:  
10 TestNameSpace.Class1.MyMethod()  
11  
12  
13 at AppTest.Main()  
14
```

15

1 MethodAccessException() Constructor

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

6 Summary

7 Constructs and initializes a new instance of the `System.MethodAccessException` class.

8 Description

9 This constructor initializes the `System.MethodAccessException.Message` property of the
10 new instance to a system-supplied message that describes the error, such as "Attempt
11 to access the method failed." This message takes into account the current system
12 culture.

13
14 The `System.MethodAccessException.InnerException` property of the new instance is
15 initialized to null.

16

1 MethodAccessException(System.String)

2 Constructor

```
3 [ILAsm]  
4 public rtspecialname specialname instance void .ctor(string message)  
5 [C#]  
6 public MethodAccessException(string message)
```

7 Summary

8 Constructs and initializes a new instance of the `System.MethodAccessException` class
9 with a specified error message.

10 Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> 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.

11 12 Description

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

17
18 The `System.MethodAccessException.InnerException` property of the new instance is
19 initialized to null.

20

1 MethodAccessException(System.String, 2 System.Exception) Constructor

```
3 [ILAsm]  
4 public rtspecialname specialname instance void .ctor(string message, class  
5 System.Exception inner)  
  
6 [C#]  
7 public MethodAccessException(string message, Exception inner)
```

8 Summary

9 Constructs and initializes a new instance of the `System.MethodAccessException` class
10 with a specified error message and a reference to the inner exception that is the cause
11 of the current exception.

12 Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> 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 <code>System.Exception</code> that is the cause of the current exception. If <i>inner</i> is not a null reference, the current exception was raised in a catch block handling <i>inner</i> .

13 14 Description

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

20
21 [Note: For more information on inner exceptions, see
22 `System.Exception.InnerException`.]

23