

# 1 System.IO.FileNotFoundException Class

```
2 [ILAsm]
3 .class public serializable FileNotFoundException extends
4 System.IO.IOException
5
6 [C#]
7 public class FileNotFoundException: IOException
```

## 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 a file path argument specifies a file that does not  
15 exist.

## 16 Inherits From: System.IO.IOException

17

18 **Library:** BCL

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 Example

24 The following example demonstrates an error that causes the  
25 System.IO.FileNotFoundException exception to be thrown.

26

27 [C#]

```
28 using System;
29 using System.IO;
30 class FileNotFoundExample {
31     public static void Main () {
32         string badPath = "/Eccma/examples/FileTest.cs";
33         string goodPath = "/Ecma/examples2/FileTest.cs";
34         try {
35             File.Copy(badPath,goodPath);
36         }
37         catch (FileNotFoundException e) {
38             Console.WriteLine("Caught: {0}",e.Message);
39         }
40     }
41 }
42
```

1 The output is  
2  
3 Caught: Could not find file "/Eccma/examples/FileTest.cs".  
4  
5

# 1 FileNotFoundException() Constructor

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

## 6 Summary

7 Constructs and initializes a new instance of the `System.IO.FileNotFoundException`  
8 class.

## 9 Description

10 This constructor initializes the `System.IO.FileNotFoundException.Message` property of  
11 the new instance to a system-supplied message that describes the error, such as "Could  
12 not find the specified file." This message takes into account the current system culture.

13  
14 The `System.IO.FileNotFoundException.InnerException` and  
15 `System.IO.FileNotFoundException.FileName` properties of the new instance are  
16 initialized to null.

17

# 1 FileNotFoundException(System.String)

## 2 Constructor

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

### 7 Summary

8 Constructs and initializes a new instance of the `System.IO.FileNotFoundException`  
9 class.

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

17  
18 The `System.IO.FileNotFoundException.InnerException` and  
19 `System.IO.FileNotFoundException.FileName` properties of the new instance are  
20 initialized to null.

21

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

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

[C#]
public FileNotFoundException(string message, Exception innerException)
```

## Summary

Constructs and initializes a new instance of the `System.IO.FileNotFoundException` class.

## 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>innerException</i>	An instance of <code>System.Exception</code> that is the cause of the current exception. If <i>innerException</i> is non-null, then the current <code>Exception</code> was raised in a catch block handling <i>innerException</i> .

## Description

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

The `System.IO.FileNotFoundException.FileName` property of the new instance is initialized to null.

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

# 1 FileNotFoundException(System.String, 2 System.String) Constructor

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

## 8 Summary

9 Constructs and initializes a new instance of the System.IO.FileNotFoundException  
10 class.

## 11 Parameters

Parameter	Description
<i>message</i>	A System.String 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>fileName</i>	A System.String containing the name of the file that was not found.

12

## 13 Description

14 The constructor initializes the System.IO.FileNotFoundException.Message property of  
15 the new instance using *message* and the System.IO.FileNotFoundException.FileName  
16 property using *fileName*. If *message* is null, the  
17 System.IO.FileNotFoundException.Message property is initialized to the system-  
18 supplied message provided by the constructor that takes no arguments.

19

20 The System.IO.FileNotFoundException.InnerException property of the new instance  
21 is initialized to null.

22

# 1 FileNotFoundException(System.String, 2 System.String, System.Exception) 3 Constructor

```
4 [ILAsm]  
5 public rtspecialname specialname instance void .ctor(string message,  
6 string fileName, class System.Exception innerException)  
  
7 [C#]  
8 public FileNotFoundException(string message, string fileName, Exception  
9 innerException)
```

## 10 Summary

11 Constructs and initializes a new instance of the `System.IO.FileNotFoundException`  
12 class.

## 13 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>fileName</i>	The name of the file that was not found.
<i>innerException</i>	An instance of <code>System.Exception</code> that is the cause of the current exception. If <i>innerException</i> is non-null, then the current <code>Exception</code> was raised in a catch block handling <i>innerException</i> .

## 14 15 Description

16 This constructor initializes the `System.IO.FileNotFoundException.Message` property of  
17 the new instance using *message*, the `System.IO.FileNotFoundException.FileName`  
18 property using *fileName*, and the `System.IO.FileNotFoundException.InnerException`  
19 property using *innerException*. If *message* is null, the  
20 `System.IO.FileNotFoundException.Message` property is initialized to the system-  
21 supplied message provided by the constructor that takes no arguments.  
22

23 [Note: For more information on inner exceptions, see  
24 `System.Exception.InnerException`.]  
25  
26

27

# 1 FileNotFoundException.ToString() Method

```
2 [ILAsm]  
3 .method public hidebysig virtual string ToString()  
4 [C#]  
5 public override string ToString()
```

## 6 Summary

7 Returns a `System.String` representation of the current instance.

## 8 Return Value

9 A `String` representation of the current `Exception`.

## 10 Description

11 The string representation returned by this method includes the fully qualified name of  
12 the current `Exception`, the message, the result of calling `ToString` on the inner  
13 `Exception`, the file name, and the result of calling `System.Environment.StackTrace`.  
14 Null values are omitted from the returned string.

15  
16 [*Note:* This method overrides `System.Object.ToString`.]  
17  
18

## 19 Example

20 The following example causes a `System.IO.FileNotFoundException` exception and  
21 displays the result of calling `ToString` on that `Exception`.

```
22 [C#]  
23  
24 using System;  
25 using System.IO;  
26 class FileNotFoundExample {  
27     public static void Main () {  
28         string badPath = "/Eccma/examples/FileTest.cs";  
29         string goodPath = "/Ecma/examples2/FileTest.cs";  
30         try {  
31             File.Copy(badPath,goodPath);  
32         }  
33         catch (FileNotFoundException e) {  
34             Console.WriteLine("Caught: {0}",e.ToString());  
35         }  
36     }  
37 }
```

38 The output is

39

```
1 Caught: System.IO.FileNotFoundException: Could not find file
2 "/Eccma/examples/FileTest.cs".
3 File name: "/Eccma/examples/FileTest.cs"
4     at System.IO.__Error.WinIOError(Int32 errorCode, String str)
5     at System.IO.File.InternalCopy(String sourceFileName, String destFileName,
6     Boolean overwrite)
7     at FileNotFoundExample.Main()
8
9
```

# 1 FileNotFoundException.FileName Property

```
2 [ILAsm]  
3 .property string FileName { public hidebysig specialname instance string  
4 get_FileName() }  
  
5 [C#]  
6 public string FileName { get; }
```

## 7 Summary

8 Gets the name of the file that cannot be found.

## 9 Property Value

10 A `System.String` containing the name of the file, or `null` if no file name was passed to  
11 the constructor for the current instance.

## 12 Description

13 This property is read-only.

14

# 1 FileNotFoundException.Message Property

```
2 [ILAsm]  
3 .property string Message { public hidebysig virtual specialname string  
4 get_Message() }  
  
5 [C#]  
6 public override string Message { get; }
```

## 7 Summary

8 Gets the error message that explains the reason for the exception.

## 9 Property Value

10 A System.String containing the error message. This string includes the  
11 System.IO.FileNotFoundException.FileName if a value for that property was supplied  
12 to the constructor for the current instance.

## 13 Description

14 This property is read-only.

15