

# System.IO.FileNotFoundException Class

```
[ILAsm]
.class public serializable FileNotFoundException extends
System.IO.IOException
```

```
[C#]
public class FileNotFoundException: IOException
```

## Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

## Summary

Represents the error that occurs when a file path argument specifies a file that does not exist.

## Inherits From: System.IO.IOException

**Library:** BCL

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

## Example

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

```
[C#]

using System;
using System.IO;
class FileNotFoundExample {
    public static void Main () {
        string badPath = "/Eccma/examples/FileTest.cs";
        string goodPath = "/Ecma/examples2/FileTest.cs";
        try {
            File.Copy(badPath, goodPath);
        }
        catch (FileNotFoundException e) {
            Console.WriteLine("Caught: {0}", e.Message);
        }
    }
}
```

```
}
```

The output is

```
Caught: Could not find file "/Eccma/examples/FileTest.cs".
```

# FileNotFoundException() Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor()
```

```
[C#]  
public FileNotFoundException()
```

## Summary

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

## Description

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

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

# FileNotFoundException(System.String) Constructor

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

## 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.

## Description

This constructor initializes the `System.IO.FileNotFoundException.Message` property of the new instance using *message*. 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.InnerException` and `System.IO.FileNotFoundException.FileName` properties of the new instance are initialized to null.

# 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`.]

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

```
[ILAsm]  
public rtspecialname specialname instance void .ctor(string message,  
string fileName)
```

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

## 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>fileName</i>	A <code>System.String</code> containing the name of the file that was not found.

## Description

The constructor initializes the `System.IO.FileNotFoundException.Message` property of the new instance using *message* and the `System.IO.FileNotFoundException.FileName` property using *fileName*. 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.InnerException` property of the new instance is initialized to null.

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

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

```
[C#]  
public FileNotFoundException(string message, string fileName,  
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>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> .

## Description

This constructor initializes the `System.IO.FileNotFoundException.Message` property of the new instance using *message*, the `System.IO.FileNotFoundException.FileName` property using *fileName*, 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.

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

# FileNotFoundException.ToString() Method

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

## Summary

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

## Return Value

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

## Description

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

[*Note:* This method overrides `System.Object.ToString`.]

## Example

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

```
[C#]  
  
using System;  
using System.IO;  
class FileNotFoundExample {  
    public static void Main () {  
        string badPath = "/Eccma/examples/FileTest.cs";  
        string goodPath = "/Ecma/examples2/FileTest.cs";  
        try {  
            File.Copy(badPath,goodPath);  
        }  
        catch (FileNotFoundException e) {  
            Console.WriteLine("Caught: {0}",e.ToString());  
        }  
    }  
}
```

The output is

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

## FileNotFoundException.FileName Property

```
[ILAsm]  
.property string FileName { public hidebysig specialname instance  
string get_FileName() }
```

```
[C#]  
public string FileName { get; }
```

### Summary

Gets the name of the file that cannot be found.

### Property Value

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

### Description

This property is read-only.

# FileNotFoundException.Message Property

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

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

## Summary

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

## Property Value

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

## Description

This property is read-only.