

1 System.ArgumentNullException Class

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

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 an argument passed to a method is invalid
15 because it is null.

16 Inherits From: System.ArgumentException

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 Description

24 [*Note:* System.ArgumentNullException is thrown when a method is invoked and at
25 least one of the passed arguments is null and should never be null.

26

27 System.ArgumentNullException behaves identically to System.ArgumentException. It
28 is provided so that application code can differentiate between exceptions caused by null
29 arguments and exceptions caused by non-null arguments. For errors caused by non-null
30 arguments, see System.ArgumentOutOfRangeException.

31

32]

33 Example

34 The following example demonstrates an error that causes the System.String class to
35 throw a System.ArgumentNullException exception.

36

37 [C#]

```
38 using System;  
39 class ArgumentNullTest {
```

```
1 public static void Main() {
2     String[] s = null;
3     String sep = " ";
4     try {
5         String j = String.Join(sep,s);
6     }
7     catch (ArgumentNullException e) {
8         Console.WriteLine("Error: {0}",e);
9     }
10 }
11 }
```

12
13 The output is

14
15 Error: System.ArgumentNullException: Value cannot be null.

16

17

18 Parameter name: value

19

20

21 at System.String.Join(String separator, String[] value)

22

23

24 at ArgumentNullTest.Main()

25

26

1 ArgumentNullException() Constructor

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

6 Summary

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

8 Description

9 This constructor initializes the `System.ArgumentNullException.Message` property of the
10 new instance to a system-supplied message that describes the error, such as "Argument
11 cannot be null." This message takes into account the current system culture. The
12 `System.ArgumentNullException.ParamName` property is initialized to `null`.

13

1 ArgumentNullException(System.String)

2 Constructor

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

7 Summary

8 Constructs and initializes a new instance of the `System.ArgumentNullException` class.

9 Parameters

Parameter	Description
<i>paramName</i>	A <code>System.String</code> that contains the name of the parameter that caused the exception. The content of <i>paramName</i> is intended to be understood by humans.

10

11 Description

12 This constructor initializes the `System.ArgumentNullException.ParamName` property of
13 the new instance using *paramName*. The `System.ArgumentNullException.Message`
14 property is initialized to the system-supplied message provided by the constructor that
15 takes no arguments.

16

1 ArgumentNullException(System.String, 2 System.String) Constructor

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

8 Summary

9 Constructs and initializes a new instance of the `System.ArgumentNullException` class.

10 Parameters

Parameter	Description
<i>paramName</i>	A <code>System.String</code> that contains the name of the parameter that caused the exception. The content of <i>paramName</i> is intended to be understood by humans.
<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.ArgumentNullException.ParamName` property of
14 the new instance using *paramName*, and the `System.ArgumentNullException.Message`
15 property using *message*. If *message* is null, the
16 `System.ArgumentNullException.Message` property is initialized to the system-supplied
17 message provided by the constructor that takes no arguments.

18