

# System.ArgumentNullException Class

```
[ILASM]
.class public serializable ArgumentException extends
System.ArgumentException

[C#]
public class ArgumentNullException: ArgumentException
```

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

## Inherits From: System.ArgumentException

## 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.

## Description

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

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

## Example

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

```
1
2    [C#]

3    using System;
4    class ArgumentNullTest {
5        public static void Main() {
6            String[] s = null;
7            String sep = " ";
8            try {
9                String j = String.Join(sep,s);
10           }
11           catch (ArgumentNullException e) {
12               Console.WriteLine("Error: {0}",e);
13           }
14       }
15   }
16
```

17 The output is

18  
19 Error: System.ArgumentNullException: Value cannot be null.

20  
21  
22 Parameter name: value

23  
24  
25 at System.String.Join(String separator, String[] value)

26  
27  
28 at ArgumentNullTest.Main()

29

30

# 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  
8 **System.ArgumentNullException** class.

## 9 **Description**

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

17

# 1    **ArgumentNullException(System.String)**

## 2    **Constructor**

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

### 8    **Summary**

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

### 11   **Parameters**

12  
13

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

14

### 15   **Description**

16        This constructor initializes the  
17        **System.ArgumentNullException.ParamName** property of the new  
18        instance using *paramName*. The  
19        **System.ArgumentNullException.Message** property is initialized to  
20        the system-supplied message provided by the constructor that takes  
21        no arguments.

22

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

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

[C#]
public ArgumentNullException(string paramName, string
message)
```

## Summary

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

## Parameters

Parameter	Description
<i>paramName</i>	A <b>System.String</b> 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 <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.ArgumentNullException.ParamName** property of the new instance using *paramName*, and the **System.ArgumentNullException.Message** property using *message*. If *message* is **null**, the **System.ArgumentNullException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments.