System.ArgumentNullException Class

```
[ILAsm]
.class public serializable ArgumentNullException 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 00]
- *Version:* 2.0.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.

[C#]

```
using System;
class ArgumentNullTest {
 public static void Main() {
 String[] s = null;
 String sep = " ";
 try {
 String j = String.Join(sep,s);
 }
 catch (ArgumentNullException e) {
 Console.WriteLine("Error: {0}",e);
 }
 }
}
```

The output is

Error: System.ArgumentNullException: Value cannot be null.

Parameter name: value

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

at ArgumentNullTest.Main()

ArgumentNullException() Constructor

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


[C#]
public ArgumentNullException()
```

Summary

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

Description

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

ArgumentNullException(System.String) Constructor

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


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

Summary

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

Parameters

Parameter	Description
paramName	A `System.String` that contains the name of the parameter that caused the exception. The content of *paramName* is intended to be understood by humans.

Description

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

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
paramName	A `System.String` that contains the name of the parameter that caused the exception. The content of *paramName* is intended to be understood by humans.
message	A `System.String` that describes the error. The content of *message* 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.