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Check an integer value is Null in c#

Asked 7 years, 2 months ago Active 1 year, 1 month ago Viewed 200k times

▲ I have got an integer value and i need to check if it is NULL or not. I got it using a null-coalescing operator

45

C#:

▼
★
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```
public int? Age;  
  
if ((Age ?? 0) == 0)  
{  
    // do something  
}
```

Now i have to check in a older application where the declaration part is not in ternary. So, how to achieve this without the null-coalescing operator.

c# .net

edited Oct 7 '18 at 14:47



Luuklag

3,755 11 29 45

asked Sep 21 '12 at 9:45

user1512559

2 Try Age.HasValue . – Adam Houldsworth Sep 21 '12 at 9:46

2 A point on nomenclature: ?? a null-coalescing operator. SomeValueType? is a nullable type. – spender Sep 21 '12 at 9:47 ✎

@AdamHouldsworth Try answering as an regular answer!!! – Matías Fidemraizer Sep 21 '12 at 9:47

You can try post on codereview.stackexchange.com – Felice Pollano Sep 21 '12 at 9:49

3 int? is **not** "an integer value". An "integer value" is *never null*, so the answer is simple: "it isn't". What you have is a `Nullable<int>` , or `int?` or just "a nullable int". – Marc Gravell ♦ Sep 21 '12 at 9:55

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6 Answers



108



`Nullable<T>` (or `?`) exposes a `HasValue` flag to denote if a value is set or the item is null.

Also, nullable types support `==` :

```
if (Age == null)
```

The `??` is the null coalescing operator and doesn't result in a boolean expression, but a value returned:

```
int i = Age ?? 0;
```

So for your example:

```
if (age == null || age == 0)
```

Or:

```
if (age.GetValueOrDefault(0) == 0)
```

Or:

```
if ((age ?? 0) == 0)
```

Or ternary:

```
int i = age.HasValue ? age.Value : 0;
```

edited Sep 21 '12 at 9:52

answered Sep 21 '12 at 9:47



[Adam Houldsworth](#)

57k 9 125 167

11 Good answer: func fact though: the parameterless `age.GetValueOrDefault()` is marginally faster - it *completely* bypasses the "do I have a value"

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Because *int* is a ValueType then you can use the following code:

1 `if(Age == default(int) || Age == null)`



answered Aug 29 '18 at 15:27



[MSD561](#)

379 2 16

Simply you can do this:

2

```
public void CheckNull(int? item)
{
    if (item != null)
    {
        //Do Something
    }
}
```

answered Oct 10 '15 at 19:43



[Fereydoon Barikzehy](#)

2,120 25 35

As stated above, `??` is the null coalescing operator. So the equivalent to

1 `(Age ?? 0) == 0`

without using the `??` operator is

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However, there is no version of .Net that has [Nullable< T >](#) but not [??](#) , so your statement,

Now i have to check in a older application where the declaration part is not in ternary.

is doubly invalid.

edited Sep 21 '12 at 10:02

answered Sep 21 '12 at 9:56



Jodrell

29.1k

3

62

107

There is already a correct answer from Adam, but you have another option to refactor your code:

2

```
if (Age.GetValueOrDefault() == 0)
{
    // it's null or 0
}
```

answered Sep 21 '12 at 9:50



Smileek

2,572

19

26

Several things:

14

Age is not an integer - it is a *nullable* integer type. They are not the same. See the documentation for [Nullable<T>](#) on MSDN for details.

?? is the [null coalesce operator](#), not the ternary operator (actually called the [conditional operator](#)).

To check if a nullable type has a value use `HasValue` , or check directly against `null` :

```
if(Age.HasValue)
{
    // Yay, it does!
}
```

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11/27/2019

.net - Check an integer value is Null in c# - Stack Overflow

```
// It is null :(  
}
```

answered Sep 21 '12 at 9:48



[Oded](#)

435k

78

789

937

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