

# optional array Parameter in C# [duplicate]

Asked 7 years, 11 months ago   Active 7 years, 11 months ago   Viewed 22k times



25



## Possible Duplicate:

[passing an empty array as default value of optional parameter in c#](#)

I am having a method that looks like below. Currently parameter `tags` is NOT optional



1

```
void MyMethod(string[] tags=null)
{
    tags= tags ?? new string[0];
    /*More codes*/
}
```

I want to make parameter `tags` as optional, as per `c#` , to make a parameter optional you can set a default value in method signature. I tried below hacks but none worked.

### Code that didn't worked - 1

```
void MyMethod(string[] tags=new string[0]){} 
```

### Code that didn't worked - 2

```
void MyMethod(string[] tags={}){} 
```

Please suggest me what i am missing.

I have already seen this question

[Passing an empty array as default value of an optional parameter](#)

c#

c#-4.0



**marked** as duplicate by BoltClock ♦, sehe, Raymond Chen, Richard Harrison, Andrew Barber Nov 21 '11 at 19:39

This question has been asked before and already has an answer. If those answers do not fully address your question, please [ask a new question](#).

Take a look here: [stackoverflow.com/questions/3480382/...](http://stackoverflow.com/questions/3480382/...) – nowaq Nov 21 '11 at 14:58

2 in this particular case, you might get away with C#3.0 compatible `void MyMethod(params string[] tags)` – sehe Nov 21 '11 at 14:58

1 What's wrong with `tags = tags ?? new string[0];` anyway? And if you have already seen the question, the accepted answer clearly states that you *can't* set a default value with the C# 4 syntax, and that you can use the `??` operator instead as you are doing. – BoltClock ♦ Nov 21 '11 at 14:58 ✎

2 @Rusi Nova: It is optional if you set a default value of `null` . – BoltClock ♦ Nov 21 '11 at 15:02

4 @RusiNova, we might be using a different definition of optional. To be clear, as far as the language is concerned, `void Foo(string[] tags = null)` indeed makes supplying the argument *optional* for the caller. Whether or not the null is *usable* inside your method is a different matter. – Anthony Pegram Nov 21 '11 at 15:03 ✎

## 2 Answers



The [documentation](#) for optional arguments says:

44



A default value must be one of the following types of expressions:

- a constant expression;
- an expression of the form `new ValType()` , where `ValType` is a value type, such as an `enum` or a `struct` ;
- an expression of the form `default(ValType)` , where `ValType` is a value type.

Since `new string[0]` is neither a constant expression nor a `new` statement followed by a value type, it cannot be used as a default argument value.

The first code excerpt in your question is indeed a good workaround:

```
void MyMethod(string[] tags = null)
{
    tags = tags ?? new string[0];
    // Now do something with 'tags'...
}
```

answered Nov 21 '11 at 14:58



[Frédéric Hamidi](#)

219k 32 424 439

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+1 And the workaround is suggested in the accepted answer to the duplicate question. – [BoltClock](#) ♦ Nov 21 '11 at 15:00

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1 This is correct but if you use MyMethod(params Object[] parameterName) You can omit the params array and the compiler will pass an empty array for you. MyMethod() works just fine. – [jwize](#) Feb 15 '14 at 9:08

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Upvoted for linking and in-lining the relevant authoritative documentation. "Teach a man to fish..." – [aaronsnoswell](#) Oct 19 '17 at 23:44

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not sure if i am getting it right this works.

3

```
static void Main(string[] args)
{
    TestMe();
}

private static void TestMe(string[] param = null)
{
    if (param == null)
    {
        Console.WriteLine("its empty");
    }
}
```

also the value of param has to be compile time constant

answered Nov 21 '11 at 15:02

