

Generate Interface from existing class

I have a class as:

53

```
Class MyClass
{
    public MyClass { ... }
    public string Name { get { ... } }
    public int IdNumber { get { ... } set { ... } }
    public void GenerateNme {...}
}
```



2

It is just a sample class. I wish to generate Interface from it. Like, MyClass is implementing IMyClass interface. I wish the output to be

```
public Interface IMyClass
{
    string Name { get; }

    int IdNumber { get; set; }

    void GenerateNumber();
}
```

and

```
MyClass : IMyClass
{
}
```

It can be done manually, but I was just curious to know, is there any other simple method to follow to accomplish this? If not clear, leave a comment.

Thanks

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edited Jan 14 '16 at 16:42

asked Feb 14 '12 at 12:39



leppie

99.6k

16

171

277



Sandy

5,857

21

66

103

[DevExpress CodeRush](#) is one plugin that will do it for you. I'm not certain whether the [free version](#) has that particular refactoring. – [Blorgbeard](#) Feb 14 '12 at 12:45

1 Oops, I was mistaken: that refactoring is built in to VS. Ignore me :) – [Blorgbeard](#) Feb 14 '12 at 12:47

7 Answers



Yes, you can extract an interface from a class using Visual Studio:

105

Inside the target class file: **Right Click > Refactor > Extract Interface...**



Example



```
namespace ConsoleApplication12
```

```
{
```

```
    public class MyClass
```

```
    {
```

```
        private int f
```

```
        private string
```

```
        private string
```

```
        public string
```

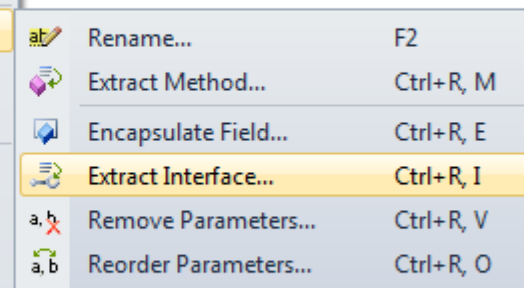
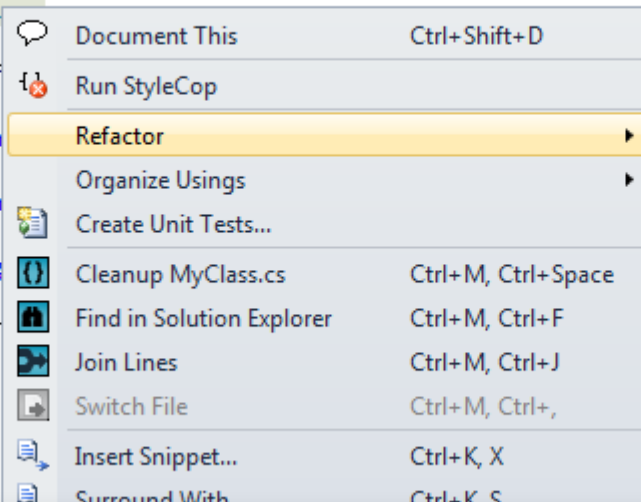
```
        public void T
```

```
        {
```

```
        }
```

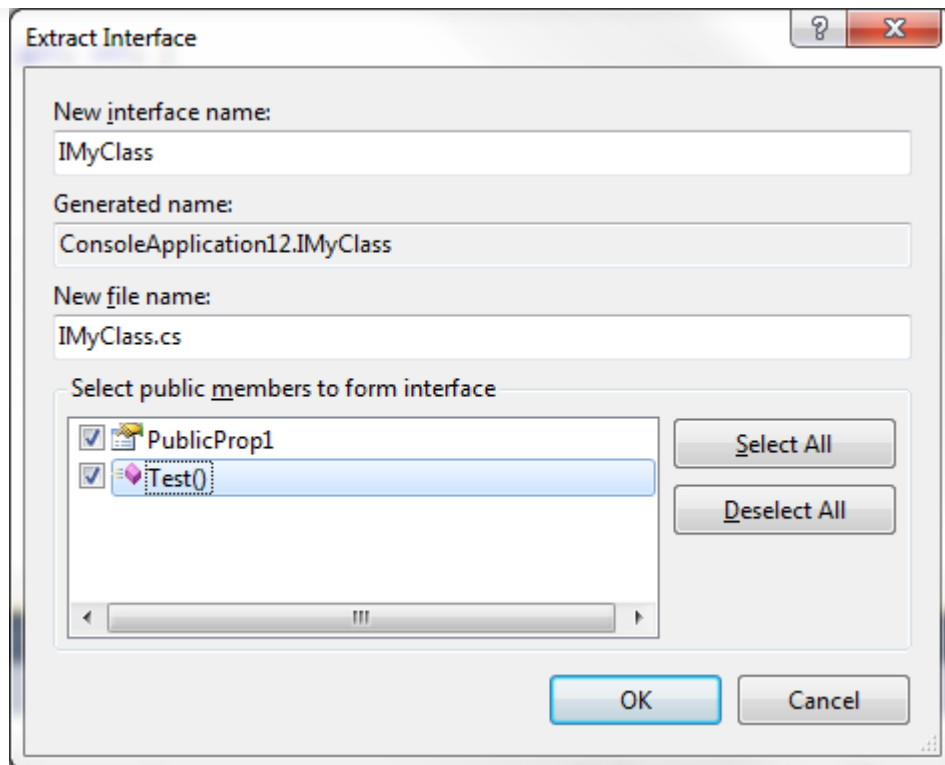
```
    }
```

```
}
```



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edited Mar 12 '15 at 18:33



[DLeh](#)

17.3k

11

64

94

answered Feb 14 '12 at 12:42



[ken2k](#)

41.6k

7

84

147

6 @KevinDeus So you really think "this answer is not helpful and actually deserves to be downvoted"? – [ken2k](#) Sep 25 '13 at 23:07

1 oh. very strange.. on my work computer the images don't show.. many apologies! – [KevinDeus](#) Sep 26 '13 at 5:01

As far as I've been able to find out, this is not possible for **VB.NET** in any version of Visual Studio prior to VS 2015 when it was added. – [SteveCinq](#) Feb 1 '17 at 16:17

One other thing that had me confused (seems obvious now) - the class you are extracting an interface for needs at least one public method... I had to change all internal methods to public. – [jwill212](#) Sep 10 '18 at 14:24

1 Refactor isn't available in VS2017 – [Joe Phillips](#) Sep 27 '18 at 19:38

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Be sure to put the cursor somewhere in the class name you want to extract the interface from. Otherwise it shows "no quick actions available here".

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Note: this is only possible if you can actually extract an interface. For example if your class only has static methods this will not work.

edited Dec 5 '18 at 6:17

answered Jan 14 '16 at 15:30



cdie

1,555

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15

43



In Visual Studio 2010, you can right-click `MyClass` and choose `Refactor`, 'Extract Interface...' (`Ctrl` + `R`, `I`). This gives you a window to check the members to be extracted.

12



edited Jan 24 '17 at 22:12

answered Feb 14 '12 at 12:43



Rob S.

632

4

16



Matthias Meid

10.7k

5

36

70



In Visual Studio 2015, click cursor in or right click on the class name, then select Quick Actions (or press `Ctrl` - `.`) and the 'Extract Interface' option shows.

3



edited Feb 15 '16 at 22:58

answered Feb 15 '16 at 22:50



user247702

17.1k

10

85

130



Nicholas Petersen

4,719

6

36

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Cool edit @Stijn, I'll have to remember that: `<kbd>Ctrl</kbd>` – Nicholas Petersen Feb 16 '16 at 16:32



In the refactor menu of visual studio there is an "extract interface" option that does exactly what you describe.

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edited Feb 14 '12 at 12:52

answered Feb 14 '12 at 12:41

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`Ctrl` + `.` was popping up 'generating overrides...' and nothing was happening beyond that so I searched 'refactor' in the quick launch search box. Results had `Edit -> Refactor -> Extract Interface` (`Ctrl` + `R`, `Ctrl` + `I`) option.

Hoping, this tip can help someone else too. I am using VS 2017 EE.

edited Mar 30 '18 at 8:50



Xavier Guihot

10.8k 11 38 40

answered Feb 6 '18 at 19:30



Mandeep Janjua

10.2k 4 23 22



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Please take note. if your class have a "static" in it. you wont be able to extract to interface. so remove that first before you extract to interface

answered Mar 3 at 12:32



silentgut

19 1 5

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